Tionscadal Soláthair Uisce
Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1) Pipeline Routing Report

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Uisce Éireann
Irish Water

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Acronyms and Abbreviations

Acronym	Meaning
BPS	Booster Pumping Station
BPT	Break Pressure Tank
CPO	Compulsory Purchase Order
EIA	Environmental Impact Assessment
EIS	Environmental Impact Statement
ESB	Electricity Supply Board
FCV	Flow Control Valve
FOAR	Final Options Appraisal Report
km	Kilometres
LLO	Landowner Liaison Officer
m	Metres
MCA	Multi-Criteria Analysis
Mld	Million litres per day
NHA	Natural Heritage Areas
NWRP	National Water Resources Plan
OWP	Options Working Paper
pNHA	Proposed Natural Heritage Area
PNR	Project Need Report
POAR	Preliminary Options Appraisal Report
RMP	Record of Monuments and Place
RWI&PS	Raw Water Intake & Pumping Station
RWRM	Raw Water Rising Main
SAC	Special Area of Conservation
SEA	Strategic Environmental Assessment
S.I.	Statutory Instrument
SPA	Special Protection Area
TPR	Termination Point Reservoir
WTP	Water Treatment Plant

1. Introduction

1.1 Purpose of this Report

1. The Water Supply Project: Eastern and Midlands Region (hereafter referred to as the Proposed Project) would comprise a water supply pipeline with the abstraction and pumping of raw water from the Lower River Shannon at the Parteen Basin; treatment of the water nearby at Birdhill, County Tipperary; and pumping of the treated water to a high point near Cloughjordan, County Tipperary and on through the Midlands to a termination point at Peamount, in County Dublin (within the administrative area of South Dublin County Council), where it would connect into the existing Greater Dublin Area Water Resource Zone (GDA WRZ) network.

2. The report summarises the routing process which resulted in the alignment of the pipeline included within Proposed Project and supports Chapter 3 (Consideration of Reasonable Alternatives).

3. The Proposed Project has been developed to deliver a long-term, sustainable and resilient water supply for the Eastern and Midlands Region, to meet the water demand from residential, commercial and industrial development to the year 2050 and beyond. The Proposed Project infrastructure would have the capacity to deliver water to meet the projected peak deficit of 280 million litres per day (Mld) of treated water in 2050, as set out in the Regional Water Resources Plan – Eastern and Midlands (the Eastern and Midlands Plan) (Irish Water 2022). A raw water abstraction consent of 300Mld is being sought to cover the operational requirements of providing up to 280Mld of treated water in 2050, with a provision of a further 20Mld to allow for potential future sustainability reductions from existing supply volumes. Although the peak output would be 300Mld under normal conditions the Proposed Project would provide a treated water supply of typically 154Mld.

4. In total the pipeline would be approximately 172km in length and would be supported by six permanent Infrastructure Sites, of varying sizes and purposes. The pipeline would traverse the administrative areas of Tipperary County Council, Offaly County Council, Kildare County Council and South Dublin County Council. In, addition, the works needed to provide power to two of the Infrastructure Sites (referred to as the 38kV Uprate Works) would cross Clare County Council, Limerick City and County Council, (as well as Tipperary). Therefore, six Local Authorities are partly within the Planning Application Boundary.

5. The Proposed Project consists of the following main features:

    - Abstraction of raw water from Parteen Basin on the Lower River Shannon downstream of Lough Derg and the towns of Ballina and Killaloe
    - A Raw Water Intake and Pumping Station (RWI&PS) on the eastern shore of Parteen Basin would facilitate a maximum abstraction of up to 300Mld, during peak demand periods from the Lower River Shannon, downstream of Lough Derg
    - Two steel pipelines, approximately 2km in length, and each 1,500mm in diameter, referred to as the Raw Water Rising Mains (RWRMs). These would transfer raw water from the RWI&PS to a Water Treatment Plant (WTP) near Birdhill, County Tipperary and each pipe would be capable of transferring raw water up to a maximum throughput of 300Mld
    - The WTP would provide the infrastructure needed to clean the water to drinking standards and the capacity to pump the water through the Treated Water Pipeline
    - Approximately 170km of 1,600mm diameter single steel pipeline, comprising:
        - A Treated Water Pipeline from the WTP to a Break Pressure Tank (BPT) near Cloughjordan, County Tipperary, approximately 37km long
        - A Treated Water Pipeline from the BPT to the Termination Point Reservoir (TPR) at Peamount, County Dublin, approximately 133km in length.

- The TPR would have a capacity of 75 megalitres (Ml) and would provide the location for the Proposed Project to connect into the existing drinking water network
- Pipeline infrastructure including a Break Pressure Tank (BPT) near Cloughjordan, County Tipperary; a Booster Pumping Station (BPS) east of Birr, County Offaly; and a Flow Control Valve (FCV) south of Newtown in County Kildare, approximately 5km west of the TPR
- Operational ancillary infrastructure at frequent intervals along the length of the pipeline including Line Valves, Air Valves, water discharge points (referred to as "Washouts"), access points (referred to as Manways), parking Lay-Bys for maintenance access and power connections to the Line Valves
- Power connections to the Infrastructure Sites and Line Valves, including uprating of the existing Ardnacrusha – Birdhill 38 kilovolt (kV) overhead line to deliver adequate electrical power to the RWI&PS and WTP and providing a new connection from a sub-station at Birr to the BPS.

6. In addition, to this infrastructure, provision has been made for take-off points at strategic locations between the WTP and TPR. These would facilitate future potential connections to supply communities in the Midlands within the Water Supply Area[1] without disruption to the operation of the pipeline. The location of these future potential connections align with the Eastern and Midlands Plan (Irish Water 2022). The connecting pipelines and associated infrastructure would be delivered by Uisce Éireann through separate projects, yet to be designed, and would be subject to their own separate consenting processes.

7. This report describes the process of detailed route selection employed to define a pipeline corridor of typically 50m between the RWI&PS at Parteen Basin, County Tipperary, and the TPR at Peamount, County Dublin, which covers the RWRM and the Treated Water Pipeline. It summarises the development of the pipeline corridor, which was presented during the various non-statutory consultation processes undertaken on previous iterations of the project, described in Section 4 of this report, and updates it to cover the intervening period from November 2016.

8. This report describes the iterative process, from the initial stage where the concept of 'White Space' areas, i.e. unconstrained areas, was introduced, through subsequent refinement, to the horizontal alignment defined by a 50m construction working width. These stages are shown geographically in the figures contained within Annex A – D. Following detailed mapping of existing constraints, the 'White Space' areas were identified within which infrastructure could be best positioned to help mitigate the impact of the project. This topic is discussed further in Section 4 of this report. Further, Annex E sets out the ongoing consultation, and design development, continues to influence the route of the '50m Pipeline Corridor'.

9. This report summarises the routing methodology which was described in detail through the following published reports and which are summarised in Section 2 of this report:
   - Options Working Paper – June 2015 (OWP) (Irish Water 2015b)
   - Preliminary Options Appraisal Report – November 2015 (POAR) (Irish Water 2015c)
   - Final Options Appraisal Report – November 2016 (FOAR) (Irish Water 2016).

10. This report does not describe the site selection process that identified the Parteen Basin as the proposed raw water abstraction location nor the TPR at Peamount to act as the storage facility to connect into the existing water supply network in the GDA WRZ. These were fixed nodal points for the pipeline and the site selection process for them was described in the POAR (Irish Water 2015c) and FOAR (Irish Water 2016) and is summarised in Chapter 3 (Consideration of Reasonable Alternatives)

11. This report distinguishes between different stages of the development of the route by adopting the following terminology: 'Previous iterations of the Project' refers to the In-flight Water Supply Project developed prior to the adoption of the National Water Resources Plan (Irish Water 2021 and 2022)

[1] The Water Supply Area is an area defined by the infrastructure and transfer pipeline, where the proximity of treated water supplies from the Proposed Project offers opportunities for potential future consolidation of existing smaller and more vulnerable public water supply schemes, in a resilient, well-supported configuration. Potential future connecting infrastructure would be subject to separate consenting processes.

including the Eastern and Midlands Plan (Irish Water 2022). The 'Proposed Project' refers to the project that planning permission is being sought and that has taken account of the conclusions of the National Water Resources Plan (Irish Water 2021 and 2022) including Eastern and Midlands Plan (Irish Water 2022). The Proposed Project aligns with the Preferred Approach for the Eastern and Midlands Region, a New Shannon Source with transfers as set out in the Eastern and Midlands Plan (Irish Water 2022).

12. This report is supported by the following appendices:
    - Annex A: Cumulative Constraints with White Space Boundary
    - Annex B: Least Constrained Route Corridor and Preliminary 200m Pipeline Corridor
    - Annex C: Preliminary 200m Pipeline Corridor and Preferred 200m Pipeline Corridor
    - Annex D: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor
    - Annex E: Re-route Request Mapbook.

2. Background

2.1 Background to the Proposed Project

2.1.1 Project History

13. The development of the Proposed Project has been the result of an iterative process, over an extended period. The reasonable options to deliver a long-term sustainable water supply source, for the Dublin Region and the wider Eastern and Midlands Region, were examined through the Eastern and Midlands Plan (Irish Water 2022) to meet long-term water demand from residential and commercial development. Image 1.1 summarises the history of the project.

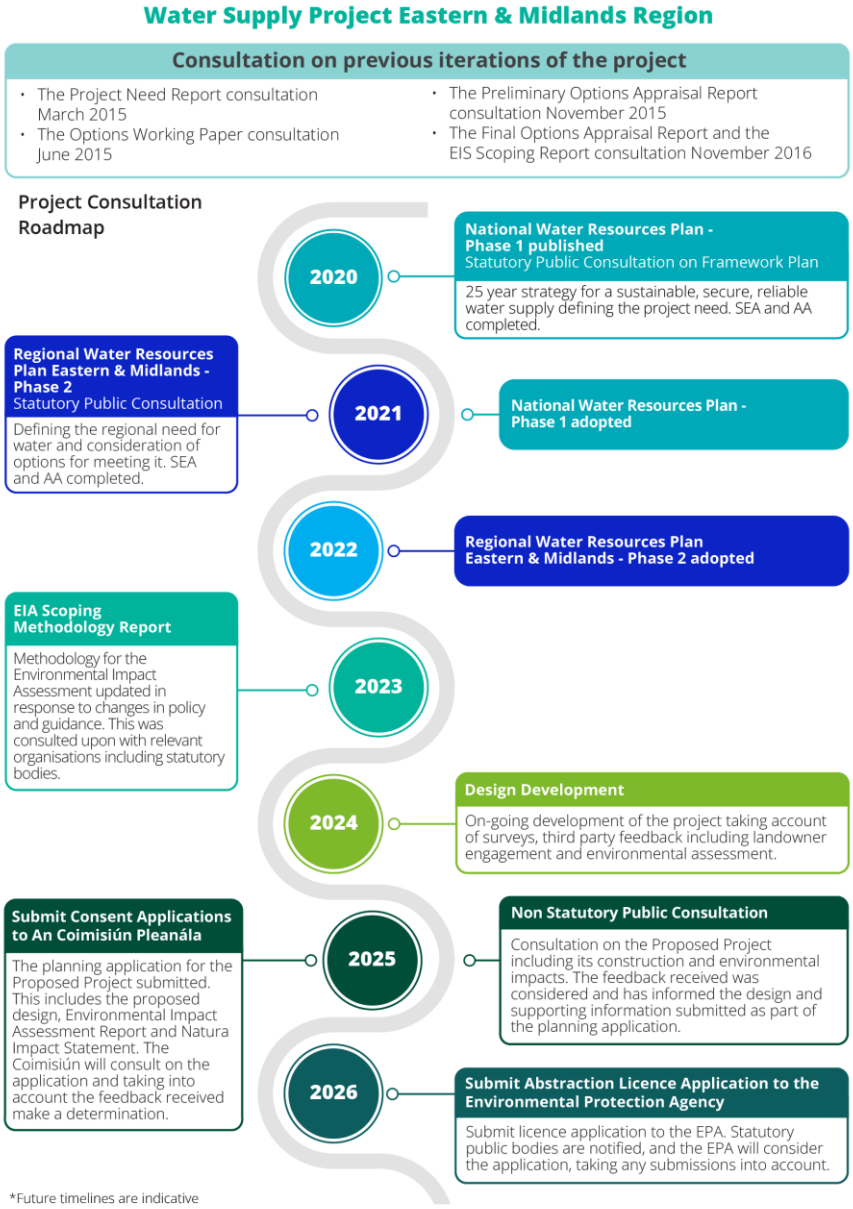


Image 1.1: Project Roadmap

2.1.2 National Water Resources Plan

14. The National Water Resources Plan (Irish Water 2021 and 2022) sets out how Uisce Éireann will balance the supply and demand for drinking water over the short, medium and long term. The 25-year strategy aims to ensure the supply of safe, sustainable, secure and reliable drinking water in Ireland.

15. The National Water Resources Plan (Irish Water 2021 and 2022) consists of:

    - Phase 1: the National Water Resources Plan Framework Plan (the 'Framework Plan') (Irish Water 2021) which set out the approach to identifying water supply needs and quantifying those needs up to the year 2044 which, following public consultation, was finalised and adopted in Spring 2021
    - Phase 2: comprising the development of four Regional Water Resources Plans to identify the optimal technical solutions (the 'Preferred Approaches') required to address the needs outlined in the Framework Plan (Irish Water 2021).

16. The Framework Plan (Irish Water 2021) identifies how Uisce Éireann assesses needs across water supplies and the process Uisce Éireann will use to find solutions to address those needs.

17. The Framework Plan (Irish Water 2021) identified, at a national level, that a new sustainable source of water is necessary to augment supplies in the Eastern and Midlands Region to address deficits in supply, increase the reliability of the current water supply system, and support future growth now and into the future.

18. The Eastern and Midlands Plan (Irish Water 2022) is the Regional Water Resources Plan relevant to the Proposed Project. The Eastern and Midlands Plan (Irish Water 2022) was adopted by Uisce Éireann in Autumn 2022 following public consultation, and applied the methodologies set out in the National Water Resources Plan Framework Plan (Irish Water 2021) to identify the water supply needs of the Eastern and Midlands region and develop the preferred approaches to resolve them.

19. The Eastern and Midlands Plan (Irish Water 2022) identified that a New Shannon Source (NSS) with transfers was the Preferred Approach to address the need of the GDA WRZ. Having identified the NSS as the Preferred Approach to meet the deficit in the GDA WRZ, the Eastern and Midlands Plan (Irish Water 2022) identified a 'Water Supply Area' consisting of additional WRZs along the length of the pipeline and also adjacent to the GDA WRZ which had a deficit that could also be met from the NSS.

20. This establishes the need for the Proposed Project as it in would deliver a NSS to meet the deficit in the GDA WRZ and provide potential future connection points along its length allowing for potential future connections into 18 other WRZs in the Eastern and Midlands Region. This would allow those 18 WRZs to be consolidated into four new WRZs. It would also facilitate the potential future supply to 17 other WRZs adjacent to the GDA WRZ through the re-distribution of supply within the GDA WRZ and an expansion of the GDA WRZ by incorporating these WRZs into the GDA Regional WRZ. As a result, the Proposed Project is a significant step towards delivering the Preferred Approach set out the Eastern and Midlands Plan (Irish Water 2022) (see Chapter 3 (Consideration of Reasonable Alternatives) for further information).

2.1.3 Previous iterations of the Project

21. The emergence of a long term solution to the water supply needs of Dublin and surrounding areas has been underway since the mid-1990s, originally under Dublin City Council acting on behalf of the four Dublin local authorities along with Kildare and Wicklow County Councils. The development of previous iterations of the project to deliver water to Dublin from the River Shannon were the result of a design process, over an extended period, which examined the options that existed at the time to deliver a long-term sustainable water supply source, initially for the Dublin Region and latterly for the Dublin Region and an additional Benefiting Corridor.

22. An initial Strategic Environmental Assessment (SEA) (Phase 1) was published in 2006, (Dublin City Council 2006) following a Feasibility Study of three water supply options which commenced in 2004, as part of 'The Plan – Water Supply Project Dublin Region' (Dublin City Council 2008). Feasibility Studies on 10 options were completed in 2007/08, in conjunction with the Plan ('The Plan – Water Supply Project Dublin Region') (Dublin City Council 2008) and SEA (Phase 2) process.

23. On taking responsibility for the project, but prior to the development of the National Water Resources Plan (Irish Water 2021 and 2022), Uisce Éireann carried out four key stages of assessment and four non-statutory public consultation processes between 2015 and 2017. In addition to the consultations, the technical and environmental assessments, ground investigations and computer modelling simulations, were also used to identify a preferred scheme for a new water supply for the Eastern and Midlands Region.

24. The consultations were undertaken on the Project Need Report – February 2015 (PNR) (Irish Water 2015a), Options Working Paper – June 2015 (OWP) (Irish Water 2015b), Preliminary Options Appraisal Report – November 2015 (POAR) (Irish Water 2015c), and Final Options Appraisal Report – November 2016 (FOAR) / Environmental Impact Statement – Scoping Report[2] (Irish Water 2016).

25. Table 1.1 summarises the timeline in the development of previous iterations of the project.

26. The final preferred option, prior to the Eastern and Midlands Plan (Irish Water 2022) was set out in the FOAR (Irish Water 2016).

Table 1.1: Timeline for Previous Iterations of the Project

Stage	Date	Description
'The Plan – Water Supply Project Dublin Region' Draft (Dublin City Council 2006)	2006	An initial SEA (Phase 1) was published in 2006, following a Feasibility Study of three water supply options which commenced in 2004. The three options comprised: • Liffey / Barrow Conjunctive Use • Lough Ree on the River Shannon • Desalination in North County Dublin.
'The Plan – Water Supply Project Dublin Region' Final (Dublin City Council 2008)	2008	Feasibility Studies on the ten options were completed in 2007/08, in conjunction with the Plan ('The Plan – Water Supply Project Dublin Region') and SEA (Phase 2) process which commenced in early 2008. The SEA (Phase 2) and Appropriate Assessment (AA) processes were carried out in respect of The Plan, thus ensuring that consultation and the environmental significance of the ten options were considered and informed certain changes to the Plan.
Project Need Report (PNR) (Irish Water 2015a)	February 2015	The PNR confirmed the need for a new water supply source for the Dublin Water Supply Zone and a Benefiting Corridor[3], based on demographic projections, economic assessment of water supply in the regional and national economy, water demand projections and on considerations of resilience of supply.
Options Working Paper (OWP) (Irish Water 2015b)	June 2015	The ten water supply options, initially considered in The Plan, and subject to SEA and AA, were subsequently reviewed in the OWP. It determined that four of the options identified in The Plan, were technically viable and therefore appropriate to be brought forward for further consideration.

[2] The FOAR and Environmental Impact Statement – Scoping Report were incorporated into a single public consultation.

[3] The Benefiting Corridor was an area defined by the infrastructure and transfer pipeline, where the proximity of treated water supplies from the in-flight project offered opportunities for future consolidation of existing smaller and more vulnerable public water supply schemes, in a resilient, well-supported configuration. Future connecting infrastructure would be subject to separate consenting processes. This has subsequently been replaced by the Water Supply Area as set out in Section 3.4.

Stage	Date	Description
Preliminary Options Appraisal Report (POAR) (Irish Water 2015c)	November 2015	The POAR set out the detail of the assessment process for the four technically viable options and considered and evaluated them, taking into account preliminary results of investigative surveys and modelling at the time, which had been continuing over the interim period. This consultative assessment was done to identify an Emerging Preferred Option from the four water supply options determined as technically viable in the OWP. The consultative assessment incorporated: • A review of the submissions from the public consultation on the OWP • Investigative studies recommended by the SEA, including a water quality survey and model of Lough Derg and a full geophysical survey of the soil and bedrock conditions at the potential raw water storage site at Garryhinch, County Offaly • A multi-criteria analysis (MCA) of each of the options, based on published criteria reviewed following consultation. The POAR determined that, following investigative surveys, options involving abstraction from the north-east quadrant of Lough Derg, (Option B and F2) did not meet environmental and technical requirements.
Final Options Appraisal Report (FOAR) (Irish Water 2016)	November 2016	The FOAR examined the two remaining options, (abstraction from the River Shannon at the Parteen Basin, and desalination of seawater at the coast in Fingal), providing more detailed assessment of the distribution of impact on residence times under a range of scenarios, and Cost Benefit Analysis of both options.

27. As part of the development of previous iterations of the project, the methodology for the initial development of pipeline route corridors was published for public consultation in the OWP in June 2015 (Irish Water 2015b). It was subsequently confirmed in the FOAR and is summarised in Image 2.1. This illustrates a five step approach which sought to progressively refine the pipeline route corridor from an initial, unconstrained broad search area between the abstraction point at Parteen Basin and the termination point at Peamount (Step 1), through the identification of route based on 2km wide corridors which were the least constrained (Steps 2 and 3), selection of a 200m wide preferred corridor (Step 4) to a highly refined 50m pipeline corridor (Step 5).

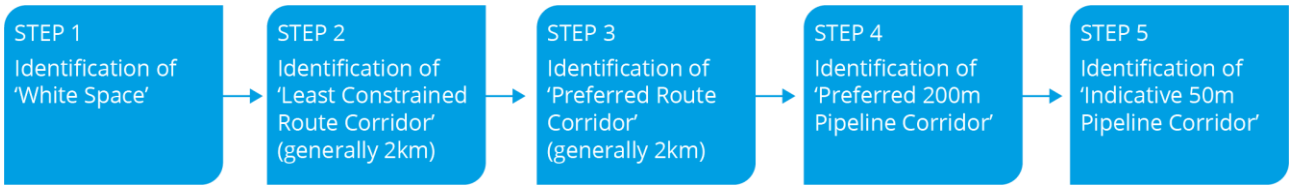


Image 2.1: Pipeline Route Selection Methodology

28. Since the completion of stage 5 further route refinement has been undertaken through direct engagement with landowners and as part of the design development.

3. Outline Description of Proposed Project

3.1 The Location of the Proposed Project

29. Image 3.1 provides an overview of the location of the Proposed Project including the principal water infrastructure and different sections of the pipeline. A summary of the Proposed Project is provided in Table 3.1.

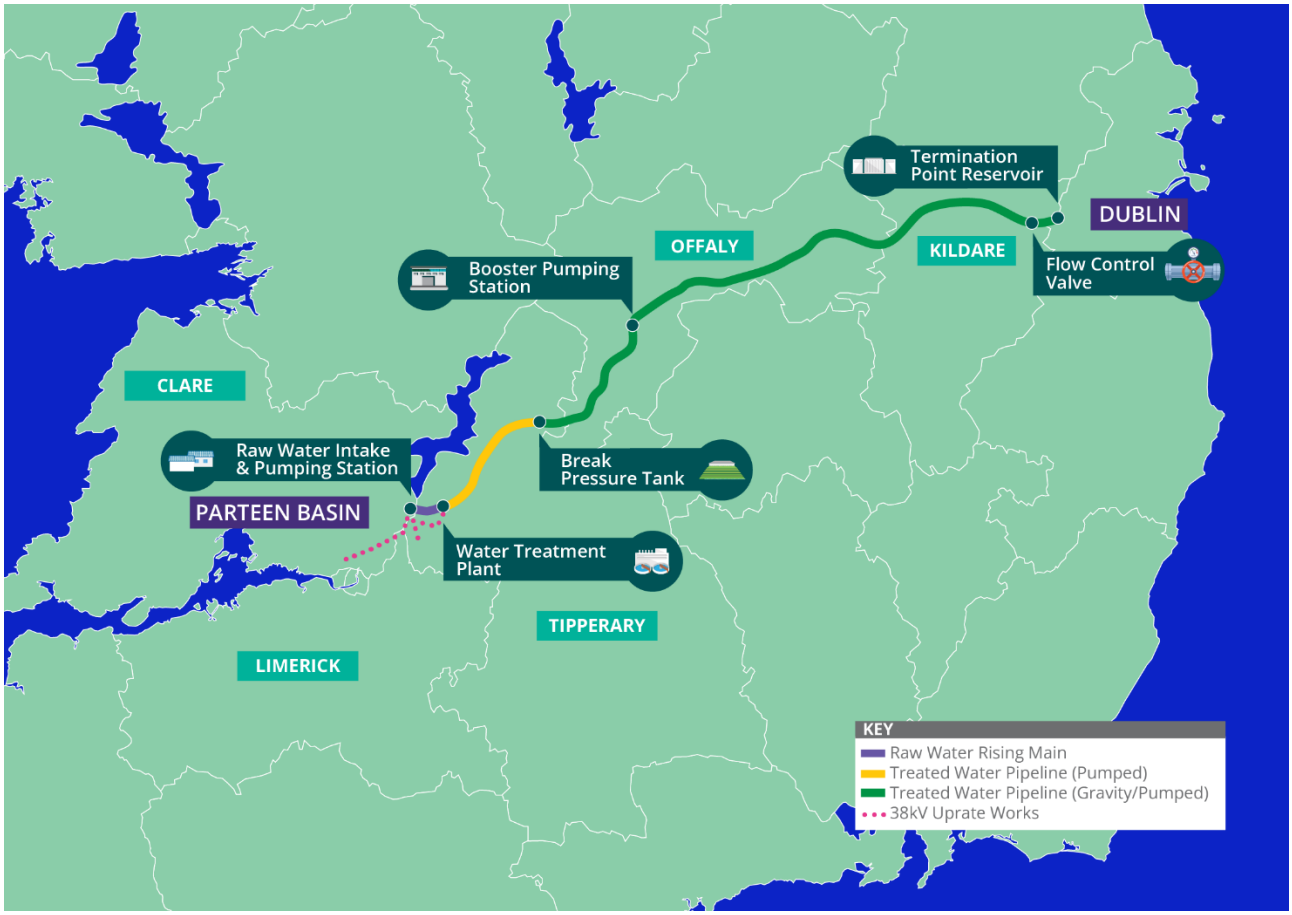


Image 3.1: Graphical Overview of Proposed Project

3.2 Principal Water Infrastructure and Pipeline Elements

30. The principal elements are summarised in Table 3.1.

Table 3.1: Summary of the Proposed Project

Proposed Project Infrastructure	Outline Description of Proposed Project Infrastructure*
Permanent Infrastructure	
Raw Water Intake and Pumping Station (RWI&PS) (Infrastructure Site) County Tipperary	• The RWI&PS would be located on a permanent site of approximately 4ha on the eastern shore of Parteen Basin in the townland of Garrynatineel, County Tipperary. In addition, approximately 1ha of land would be required on a temporary basis during construction. • The RWI&PS has been designed to abstract enough raw water from the River Shannon at Parteen Basin to provide up to 300Mld of treated water by 2050. • The RWI&PS site would include a bankside Inlet Chamber, the Raw Water Pumping Station Building, two Microfiltration Buildings, an Electricity Substation and Power Distribution Building, and Dewatering Settlement Basins. The tallest building on the RWI&PS site would be the Microfiltration Buildings which would be 10.9m above finished ground level. Additionally, there would be a telemetry mast, the top of which would be 14m above finished ground level. • Power for the RWI&PS would be supplied via an underground connection to the existing Birdhill 38 kV electricity substation. • A new permanent access road from the R494 would be constructed to access the proposed RWI&PS site. This access road would be 5m in width and 670m in length. • The RWI&PS site boundary would be fenced with a stock proof fence and a 2.4m high paladin security fence 5m inside the boundary. The site would be landscaped in line with the surrounding environment to reduce its visual impact.
Raw Water Rising Mains (RWRMs) (Pipeline) County Tipperary	• The RWRMs would consist of two 1,500mm underground pipelines made from steel that would carry the raw water approximately 2km from the RWI&PS to the Water Treatment Plant (WTP) at Incha Beg, County Tipperary. The water would be pumped from the pumping station at the RWI&PS to the WTP. • Twin RWRMs have been proposed so that one RWRM can be taken out of service for cleaning and maintenance while still providing an uninterrupted flow of raw water through the other RWRM. • The RWRMs would include Line Valves, a Lay-By, Air Valves and Cathodic Protection. • A 20m wide Permanent Wayleave would provide Uisce Éireann with operational access to the RWRMs.
Water Treatment Plant (WTP) (Infrastructure Site) County Tipperary	• The WTP would be located on a permanent site of approximately 31ha at Incha Beg, County Tipperary, 2.6km north-east of the village of Birdhill, and 2km east of the proposed RWI&PS. In addition, approximately 2.5ha of land would be required on a temporary basis during construction. • The WTP would treat the raw water received from the RWI&PS via the RWRMs. Once treated, the High Lift Pumping Station (HLPS) would deliver the treated water onwards from the WTP to the Break Pressure Tank (BPT) at Knockanacree, County Tipperary, via the Treated Water Pipeline. • The WTP would comprise of a series of tanks and buildings including the Raw Water Balancing Tanks, Water Treatment Module Buildings, Sludge Dewatering Buildings, Sludge Storage Buildings, Clear Water Storage Tanks and HLPS, an Electricity Substation and Power Distribution Building, and the Control Building. The tallest building on the WTP site would be the Water Treatment Module Buildings which would be up to 15.6m above finished ground level. Additionally, there would be a telemetry mast, the top of which would be 14m above finished ground level. • There would also be a potential future water supply connection point at the junction between the permanent access road and the R445. • Power for the WTP would be supplied via an underground connection to the existing Birdhill 38 kV electricity substation. Solar panels would be placed on the roofs of the Chemical Dosing Manifold Building, the Water Treatment Module Buildings, Clear Water Storage Tanks and Sludge Storage Buildings, and at a number of locations on the ground to supplement the mains power supply. • A new permanent access road from the R445 would be constructed and would be 6m in width and 640m in length. • The WTP site boundary would be fenced with a stock proof fence and a 2.4m high palisade security fence 5m inside the boundary. The site would be landscaped in line with the surrounding environment to reduce its visual impact.

Proposed Project Infrastructure	Outline Description of Proposed Project Infrastructure*
Treated Water Pipeline from the WTP to the BPT (Pipeline) County Tipperary	• The Treated Water Pipeline from the WTP to the BPT would consist of a single 1,600mm underground steel pipeline which would be approximately 37km long. The water would be pumped through this section of the Treated Water Pipeline by the HLPS. • The Treated Water Pipeline would include Line Valves, Washout Valves, Air Valves, Manways, Cathodic Protection and Lay-Bys. • A 20m wide Permanent Wayleave would provide Uisce Éireann with operational access to the pipeline (this Wayleave has been extended to approximately 30m at some Line Valves to provide access between the Lay-Bys and Line Valves). There would be an additional 10m wide Permanent Wayleave at certain locations for operational access to smaller pipes connecting Washout Valves with permanent discharge locations.
Break Pressure Tank (BPT) (Infrastructure Site) County Tipperary	• The BPT would be located on a permanent site of approximately 7ha in the townland of Knockanacree, County Tipperary. In addition, approximately 0.8ha of land would be required on a temporary basis during construction. • The BPT would be located at the highest point of the pipeline. It marks the end of the Treated Water Pipeline from the WTP to the BPT and the start of the Treated Water Pipeline from the BPT to the Termination Point Reservoir (TPR) in the townland of Loughtown Upper, at Peamount, County Dublin. It would act as a balancing tank and would be required to manage the water pressures in the entire Treated Water Pipeline during flow changes, particularly during start-up and shut-down. • The BPT site would include the BPT and a Control Building. The BPT would be a concrete tank divided into three cells covered with an earth embankment. The BPT tanks would be 5m in height and partially buried below finished ground levels. The Control Building would be 7.5m over finished ground level. Additionally, there would be a telemetry mast, the top of which would be 14m above finished ground level. • Access to the BPT site would be via a new permanent access road from the L1064 which would be 5m wide and 794m in length. • Power for the BPT would be supplied via an underground connection from the existing overhead power line. Solar panels would be placed on the south facing side of the control building roof, on the BPT and at ground level to the south of the site to supplement the mains power supply. • The BPT site boundary would be bounded by the existing hedgerow / tree line with a 2.4m high palisade security fence around the permanent infrastructure. The site would be landscaped in line with the surrounding environment to reduce its visual impact.
Treated Water Pipeline from the BPT to the TPR (Pipeline) Counties Tipperary, Offaly, Kildare and Dublin (within the administrative area of South Dublin County Council)	• The Treated Water Pipeline from the BPT to the TPR would consist of a single 1,600mm underground steel pipeline, approximately 133km long. • The water would normally travel through the Treated Water Pipeline by gravity; however, flows greater than approximately 165Mld would require additional pumping from the Booster Pumping Station (BPS) in the townland of Coagh Upper, County Offaly. • The Treated Water Pipeline would include Line Valves, Washout Valves, Air Valves, Manways, Cathodic Protection, Lay-Bys and potential future connection points. • A 20m wide Permanent Wayleave would provide Uisce Éireann with operational access to the pipeline (this Wayleave has been extended to approximately 30m at some Line Valves to provide access between the Lay-Bys and Line Valves). There would be an additional 10m wide Permanent Wayleave at certain locations for operational access to smaller pipes connecting Washout Valves with permanent discharge locations.
Booster Pumping Station (BPS) (Infrastructure Site) County Offaly	• The BPS would be located on a permanent site of approximately 2.6ha in the townland of Coagh Upper, County Offaly. It would be located approximately 30km downstream from the BPT. In addition, approximately 3ha of land would be required on a temporary basis during construction. • The BPS would be required when the demand for water causes the flow through the pipeline to exceed approximately 165Mld. • The BPS site would consist of a single-storey Control Building with a basement below. It would have a finished height of 7.6m above finished ground level. There would also be a separate Electricity Substation and Power Distribution Building. Additionally, there would be a telemetry mast, the top of which would be 14m above finished ground level. • Power to the BPS would be supplied from an existing 38 kV electricity substation at Birr, through cable ducting laid within the public road network. There would be ground mounted solar panels on the southern side of the BPS site to supplement the mains power supply. • The site would be accessed directly from the L3003. • The BPS site boundary would be fenced with a stock proof fence and a 2.4m high palisade security fence between 5m -12m inside the boundary. The site itself would be landscaped in line with the surrounding environment to reduce its visual impact.

Proposed Project Infrastructure	Outline Description of Proposed Project Infrastructure*
Flow Control Valve (FCV) (Infrastructure Site) County Kildare	• The FCV controls the flows in the Treated Water Pipeline from the BPT to the TPR. It would be a small permanent site of approximately 0.5ha in the townland of Commons Upper in County Kildare. In addition, approximately 0.6ha of land would be required on a temporary basis during construction. • It would consist of three 700mm diameter FCVs and three flow meters installed in parallel with the Line Valve and housed within an underground chamber. • Access to the FCV site would be directly off the L1016 Commons Road Upper. • Power supply to the FCV site would be provided from the existing low voltage network via a combination of overhead lines and buried cables. There would be ground mounted solar panels on the north-eastern side of the site to supplement the mains power supply. • Kiosks at the FCV site would house the Programmable Logic Controller, telemetry and power supply for the Line Valve. There would also be a telemetry mast, the top of which would be 14m above finished ground level. • The site boundary would be fenced with a stock proof fence and a 2.4m high palisade security fence 5m inside the boundary.
Termination Point Reservoir (TPR) (Infrastructure Site) County Dublin (within the administrative area of South Dublin County Council)	• The TPR would be located on a permanent site of approximately 8.3ha adjacent to an existing treated water reservoir in the townland of Loughtown Upper, at Peamount, County Dublin (within the administrative area of South Dublin County Council) and would have capacity for 75Ml of treated water supply. In addition, approximately 1.1ha of land would be required on a temporary basis during construction. • It would be located at the downstream end of the Treated Water Pipeline from the BPT to the TPR and would be the termination point for the Proposed Project. It would be at this location that the Proposed Project would connect to the existing water supply network of the Greater Dublin Area Water Resource Zone (GDA WRZ). • The TPR would consist of an above-ground storage structure, associated underground Scour Water and Overflow Water tanks and a Chlorine Dosing Control Building. The TPR would be a concrete tank divided into three cells and covered with an earth embankment. The top of the TPR would be 11.2m above finished ground level. The Chlorine Dosing Control Building would be 8.4m over finished ground level. Additionally, there would be a telemetry mast, the top of which would be 14m above finished ground level. • Power for the TPR would be supplied via an underground connection to the existing electricity substation at Peamount Reservoir. There would be solar panels on top of a portion of the northern cell of the TPR to supplement the mains power supply. • A new permanent access road from the R120 would be constructed and would be 5m wide and 342m in length. • The TPR site would be bounded by the existing hedgerow to the west and existing fence to the east with a 2.4m high palisade security fence around the permanent infrastructure. The site itself would be landscaped in line with the surrounding environment to reduce its visual impact.
Proposed 38 kV Uprate Works – Power Supply to RWI&PS and WTP	
Proposed 38 kV Uprate Works Ardnacrusha – Birdhill (Power Supply) Counties Clare, Limerick and Tipperary	• The proposed 38 kV Uprate Works would be necessary to deliver adequate electrical power to the RWI&PS and WTP. • The proposed works would include the uprating of the existing Ardnacrusha – Birdhill Line and the replacement of polesets/structures with an underground cable along a section of the Ardnacrusha – Birdhill – Nenagh Line. • There would also be works at the existing Birdhill 38 kV electricity substation including the provision of a new 38 kV modular Gas Insulated Switchgear Modular Building, new electrical equipment and lighting, together with new fencing and associated works.
Temporary Infrastructure – Required for Construction Phase Only	
Construction Working Width Counties Tipperary, Offaly, Kildare and Dublin (within the administrative area of South Dublin County Council)	• A Construction Working Width would be temporarily required for the construction of the RWRMs and the Treated Water Pipeline, and the subsequent reinstatement of the land. • The Construction Working Width would generally be 50m in width but would be locally wider near features such as crossings, access and egress points from the public road network, Construction Compounds and Pipe Storage Depots.

Proposed Project Infrastructure	Outline Description of Proposed Project Infrastructure*
Construction Compounds Counties Tipperary, Offaly, Kildare and Dublin (within the administrative area of South Dublin County Council)	• Eight Construction Compounds would be temporarily required to facilitate the works to construct the Proposed Project. Five Construction Compounds would be located along the route of the Treated Water Pipeline at the following Infrastructure Sites: RWI&PS, WTP, BPT, BPS and TPR, with an additional three Construction Compounds located at Lisgarriff (County Tipperary), Killananny (County Offaly) and Drummond (County Kildare). Construction Compounds would act as a hub for managing the works including plant/material/worker movement, general storage, administration and logistical support. • The Principal Construction Compound at the WTP would require 30ha of land during construction. • The other three Principal Construction Compounds would require land temporarily during construction ranging between approximately 12ha and 16ha. • The four Satellite Construction Compounds at the other permanent Infrastructure Sites (excluding the FCV) would require land during construction ranging between approximately 3ha and 12ha.
Pipe Storage Depots Counties Tipperary, Offaly and Kildare	• Nine Pipe Storage Depots would be temporarily required to supplement the Construction Compounds and would serve the installation of pipe between the WTP and the TPR. • Pipe Storage Depots would take direct delivery of the pipe for storage before onward journey to the required location along the Construction Working Width. • The Pipe Storage Depots would vary in size and require land temporarily during construction generally ranging between approximately 2ha and 7ha but with one site being larger at 11ha.

* Note all land take numbers in this table are affected by rounding to one decimal place.

3.3 Geographical Location of the Proposed Project

31. The Proposed Project will be constructed and operated within predominantly open countryside, generally avoiding towns and villages. Farming is the predominant land use in the area, with the Proposed Project crossing approximately 400 agricultural landholdings.

32. The proposed site for the new RWI&PS is located on the eastern shore of Parteen Basin, in the townland of Garrynatineel; immediately north and adjacent to the linear reservoir embankment (Fort Henry embankment).

33. Abstracted raw water will be pumped from the RWI&PS through approximately 2km length of twin parallel 1,500mm nominal diameter RWRMs (with 5m separation distance). The RWRMs will extend in a generally east-south-easterly direction from the RWI&PS for approximately 830m through local forestry and open agricultural grassland within the townland of Coolnadornory as far as the R494. The sections of RWRMs under the R494 will be constructed using a trenchless technique. From the R494, the RWRMs will continue in an east-north-easterly direction, through further agricultural grassland and forestry in the townlands of Kilmaglasderry and Knockadromin before entering the WTP at Incha Beg.

34. The proposed WTP site is located in the townland of Incha Beg in County Tipperary, approximately 2.6km north-east of the village of Birdhill, and approximately 2km east of the proposed RWI&PS. The WTP site is located within a sparsely populated rural area which is broadly bounded within a triangle formed by the R496, R445 and R494 regional roads. The proposed permanent WTP site is located immediately north of dense woodland, but is itself made up of open fields.

35. The Treated Water Pipeline between the WTP and the BPT is located within County Tipperary. This section of the pipeline is approximately 37km long, and is a single pressurised 1,600mm nominal diameter underground pipeline designed to transfer treated water from the WTP at Incha Beg to the BPT, located at a high point near Cloughjordan, County Tipperary. The pipeline will extend from the WTP in an east to north-east direction generally through open agricultural grassland. It will also cross a number of local, regional and national roads and a number of watercourses.

36. Generally, the Treated Water Pipeline from the WTP will extend in a north-easterly direction through County Tipperary, north of, and parallel to, the Kilmastulla River and the Dublin–Limerick Railway, until the first of two trenchless crossings of the M7 Motorway in the townland of Kilnacranna. From the M7 the

proposed pipeline will then continue in a north-easterly direction, south of the M7 Motorway, and north of the Slievefelim to Silvermines Mountains Special Protection Area (SPA) and Silvermines Mountains SPA (approximately 1.5km and 1.8km distant respectively), prior to continuing north of the tailings pond at Gortmore towards Carrigatogher Bog.

37. The route of the Treated Water Pipeline then continues north of Carrigatogher Bog, crossing the M7 Motorway for a second time, by trenchless construction, approximately 13.1km from the WTP before extending north past the town of Nenagh and a trenchless crossing of the Nenagh River.

38. The proposed pipeline continues north, passing within 700m of Lough Ourna Proposed Natural Heritage Area (pNHA), before a trenchless crossing of the N52 north-east of Ardcrony village from where it extends in a more easterly direction.

39. From the trenchless crossing of the N52, the pipeline will continue for a further 8km before discharging into the BPT at Knockanacree Hill, adjacent to Knockanacree Wood and due north of Cloughjordan.

40. The BPT is the highest elevation of the pipeline and is required to manage the water pressures generated in the operation of the Treated Water Pipeline. It is designed to provide operational storage, to ensure that both sections of the Treated Water Pipeline remain full. The BPT is the point at which the pipeline changes from the pumped pressure pipeline to the gravity-fed pipeline (up to flows of approximately 165mld).

41. The site for the proposed BPT is located in the townland of Knockanacree in County Tipperary, approximately 1.8km north of the town centre of Cloughjordan and south of the Scohaboy (Sopwell) Bog SAC and Scohaboy Bog NHA.

42. The site is currently predominantly in agricultural use, as pasture land, and is accessed from the L1064 road via an unpaved farm track, which also provides access to facilitate maintenance and inspection of the existing telecoms mast to the north-east of the proposed BPT site. The adjacent Knockanacree Woods has three looped walks (Oak Walk, Ash Loop and Beech Trail), and viewing points to the north in the direction of the proposed site, and eastwards.

43. The proposed Treated Water Pipeline form the BPT to the TPR is approximately 133km long and consists of a single 1,600mm nominal diameter underground steel pipeline. It will transfer treated water from the proposed BPT at Knockanacree in County Tipperary to the proposed TPR adjacent to, and immediately west of, Peamount Hospital in County Dublin.

44. Between the BPT and the TPR, the Treated Water Pipeline extends in an east to north-east direction through northern County Tipperary and Counties Offaly and Kildare before terminating in County Dublin. This section of the pipeline is primarily routed through agricultural grassland but there are extensive areas of peatland in County Offaly and eastern County Kildare through which the pipeline will be constructed

45. From the BPT, the pipeline extends in an easterly direction before crossing the minor road L5020 and then the R491, approximately 2km from the BPT, in Garraun-Newtown area. The proposed pipeline then turns north-eastwards towards the County Tipperary/County Offaly border, in the townland of Behamore (Hawkshaw), where it diverts northwards, following the county boundary for a short distance before crossing into County Offaly in the townland of Derrinclare.

46. From the townland of Derrinclare, the pipeline crosses the R491 regional road for a second time and continues in a north-easterly direction for approximately 3km before again passing into County Tipperary in the townland of Quakerstown, approximately 90m north-west of Cangort Bog NHA. The Treated Watery Pipeline extends for a further 1km prior to re-entering County Offaly in the townland of Ballaghboy, approximately 900m north of Sharavogue Bog SAC.

47. From the county boundary at Ballaghboy, the route of the pipeline generally follows a north-easterly to easterly route for approximately 82km through County Offaly.

48. From Ballaghboy the route of the pipeline extends through the townland of Galbally, before crossing the R492, approximately 2.5km north of Shinrone, in the townland of Curralanty, the Little Brosna River in the townland of Tubbrid, and then the N62 national secondary road at Boveen. From the N62, the pipeline continues in a north-easterly direction, crossing over an unnamed local road in the townland of Ballyatty. From here, the pipeline continues in a northern and then a north-eastern direction, passing within 500m of the Lisduff Fen SAC, through Castletown which is approximately 5.5km south-east of Birr. The Treated Water Pipeline then proceeds to cross the Clareen Stream in the townland of Kilmaine, before also crossing and being routed parallel to the Breaghmore River in the townland of Breaghmore and Killinure. The pipeline then meets and crosses the Camcor River, by trenchless construction, in the townland of Cloughanmore, which is approximately 9km due east of Birr.

49. The proposed BPS site is located to the east of Birr, in the townland of Coagh Upper, County Offaly, approximately 25km north-east of the proposed BPT. The BPS site is located within a rural area of agricultural land adjacent to the L3003.

50. The Treated Water Pipeline is then routed in a north-easterly direction, reaching the northern perimeter of Derrinboy Bog. It continues through open countryside crossing the Silver River in the townland of Ballynacarrig and taking a route that is approximately 1km south of the village of Mountbolus. From this position it veers eastwards, crossing the R421 regional road in the townland of Killananny, and continuing east to just south of Gorteen. At Gorteen, the pipeline crosses the Clodiagh River, by trenchless construction, before proceeding north-east through open agricultural land, between Monettia Bog (southside) and the L2002 (northside) before passing to the south of Killeigh village and crossing the N80 national secondary road and the nearby L5035 local road. The latter two roads are on the south-eastern village limits and converge within Killeigh. The Treated Water Pipeline continues north-eastwards for another 4.5km before meeting the first of two railway crossings (Portarlington to Galway).

51. Progressing onwards toward Ballinagar, the Treated Water Pipeline crosses the R420 regional road in the townland of Curragh before a further trenchless crossing is required of the L1020 in Lugmore townland. The crossing of the L1020 is located 2.5km south of Ballinagar village and approximately 1km north of Geashill village.

52. There are three crossings of the L5034 local road before the pipeline enters Clonad Bog. In this part of east County Offaly Bord na Móna has a significant extent of land that was subject to historic peat harvesting, and the pipeline will traverse a large part of it. In addition to Clonad Bog, the pipeline is routed through Mountlucas Bog, passing south of Bord na Móna's Croughan facility, and crossing the R402 and R400 regional roads in the townland of Esker Beg.

53. The pipeline is then routed along the southern perimeter of Esker Bog before crossing the R402 again in Rathvilla townland, approximately 7.5km south-west of Edenderry, and continuing eastwards, passing through the north-east corner of Cloncreen Bog. Edenderry power station is 1km south of this location. The R401 regional road is crossed in the townland of Shean, at a point 6km south-west of Edenderry and 1km north-east of Edenderry power station. A further 0.5km east of the R401, the first of two trenchless crossings of the Figile River will be required; the second is 2.5km beyond the adjacent crossing of the R401. From the first crossing of the Figile River, and for the next 10km, the pipeline is routed through the extensive Ballydermot Bog. The Ballydermot Bog straddles the County Offaly/County Kildare border at Ticknevin townland.

54. The next length of the pipeline traverses County Kildare for approximately 38km in a north-easterly to easterly direction, generally. The pipeline continues through Ballydermot Bog before exiting in the townland of Kilpatrick where the first of the two trenchless crossings of the Grand Canal is required. A further short distance onwards, the R403 is crossed, approximately 6km north-west of Allenwood.

55. The Treated Water Pipeline dissects Timahoe South Bog (which contains the Drehid Waste Management Facility) and Timahoe North Bog exiting at the L5013 local road, approximately 4km north-east of the waste management facility. A further 2km eastwards, the last of the large historic peat harvesting areas is traversed, i.e. Gilltown Bog.

56. The pipeline continues eastwards, crossing the Blackwater River in the townland of Newtownmoneenluggagh, routing north and eastwards of Ballagh Wood, before crossing the R407 regional road at a point 5km south-west of Kilcock. It then continues east and south-eastwards through the townlands of Baltracey (where is crosses the R408 regional road at a point 2km north-west of Rathcoffey village) and Raheen.

57. A short distance further east the R406 and R403 regional roads are crossed in the townland of Barberstown Upper and Lower, 0.5km north and east, of the Barberstown roundabout respectively. The nearby River Liffey, in the townland of Castledillon Upper, will be crossed by a trenchless construction technique.

58. The Treated Water Pipeline continues eastwards on the south side of the River Liffey, before crossing the Celbridge to Ardclough road and then the Dublin–Newbridge railway line in Kearneystown Upper townland. The railway crossing will be carried out by trenchless construction. The pipeline enters County Dublin in the townland of Ringwood, near Hazelhatch.

59. Immediately upon passing the Kildare-Dublin county boundary, the second of two crossings of the Grand Canal will be carried out. Thereafter, the pipeline is routed parallel to the canal until the townland of Commons. From here it is routed south-east under the R405, travelling through primarily farmland until it approaches the R120. The pipeline route then travels parallel to the R120 until it reaches the existing Peamount Reservoir access road and then follows the route of the access road to the proposed TPR site at Peamount.

60. The length of the pipeline in County Dublin is approximately 3.7km.

61. The proposed TPR is located adjacent to the existing treated water reservoir site at Peamount in County Dublin. A pumping station has recently been constructed on the site. The TPR is of a similar shape and form to the existing treated water reservoir i.e. a concrete structure in earthen embankment. The supply from the TPR will then be integrated with that from the existing reservoir.

62. To construct the pipeline a Construction Working Width of approximately 50m has been allowed for. The Construction Working Width will be required for the construction of the pipeline and a permanent wayleave will be required for access to the pipeline for the future operation and maintenance of the asset. The widths that will be acquired along the pipeline corridor include the following:

    - A 20m permanent wayleave, to afford protection to the pipe once it is constructed, and to allow access for maintenance and, if necessary, repair work along the pipeline route; and
    - A Construction Working Width of typically 50m.

63. The 20m wide permanent wayleave is required to:

    - Provide adequate clear distances (10m either side of the centre line of the pipe) between the pipe and future building/construction works, that will allow such works to be carried out safely and without impacting the structural integrity of the pipe;
    - Allow access to the pipeline for inspections and maintenance work; and
    - Provide adequate room for repair work to be carried out on the pipe should this be necessary. The 20m width allows access for plant to carry out excavations safely and for stockpiling of excavated material within the wayleave adjacent to the trench. It also allows working room to bring in replacement sections of pipe should this be necessary.

4. The Pipeline Route Selection Process

4.1 Pipeline Routing Five Step Approach

64. Image 2-1 in Section 2 illustrates a five step approach which sought to progressively refine the pipeline route corridor from an initial, unconstrained broad search area between the abstraction point at Parteen Basin and the termination point at Peamount in the Greater Dublin Area (Step 1), through the identification of route based on 2km wide corridors which were the least constrained (Steps 2 and 3), selection of a 200m wide preferred corridor (Step 4) to an indicative 50m pipeline corridor (Step 5).

65. As development of each step of the Pipeline Corridor – Route Selection Methodology proceeded, they were presented for non-statutory consultation on previous iterations of the project:

- Step 1, OWP (June 2015), (Irish Water 2015b), was a desktop-based assessment and involved a high-level screening and mapping exercise of initial constraints which were categorised as having a high impact. The 'White Space' represented those areas which avoided these high impact constraints
- Step 1 also included the evaluation of the Strategic Environmental Assessment (SEA) water supply options, considered alternatives and provided recommendations
- Step 2, POAR (November 2015), (Irish Water 2015c) was a desktop-based assessment to identify 'Preliminary Route Corridors' (approximately 2km wide) and a 'Least Constrained Route Corridor' from those identified. The Preliminary Route Corridors were determined from within the 'White Space' identified in Step 1
- Step 3, FOAR (November 2016), (Irish Water 2016) was primarily a desktop assessment which followed the POAR non-statutory consultation. In conjunction with feedback from the POAR non-statutory consultation and supported with limited/focused windscreen surveys (i.e. from the public road), the 'Least Constrained Route Corridor' (approximately 2km wide) was confirmed from the 'Preliminary Route Corridors' identified in Step 2.
- Step 4, FOAR (November 2016), (Irish Water 2016) involved further desktop assessment supported by localised windscreen surveys, and site visits, to identify a 'Preliminary Pipeline Corridor' (200m wide) from within the 'Least Constrained Route Corridor' confirmed in Step 3. Subsequently the 'Preferred 200m Pipeline Corridor,' was identified.
- Step 5, FOAR (November 2016), (Irish Water 2016) was a further refinement of Step 4 and involved further constraint mapping and field surveys to determine an 'Indicative 50m Pipeline Corridor'.

66. From the outset the methodology was based on constraint mapping, a process that relied on consideration of predetermined 'constraints' that directly influenced the pipeline corridor. The constraints for consideration were originally presented in the OWP (Irish Water 2015).

67. The siting of a potential pipeline corridor mitigated the impact of these constraints and represented the least constrained route. The methodology for siting the pipeline corridor was outlined in Volume 2 of the POAR.

68. Steps 1 and 2 were presented in the POAR (Irish Water 2015c) non-statutory consultation process while Steps 3, 4 and 5 were presented in the FOAR non-statutory consultation process in November 2016 (Irish Water 2016).

69. All published documents can be located on the main website: https://www.water.ie/projects/national-projects/water-supply-project-east-1. This report, which includes the alternative route options considered, sets out in detail, with reasons, the development of the route selection process and the determination of this '50m Pipeline Corridor' final route.

4.2 Post Step 5 Route Development

70. Following Step 5/post FOAR, (Irish Water 2016) further design development has taken place, namely:

- Consolidation of a preferred 50m pipeline corridor, in consultation with landowners
- Identification of Haul Roads, in consultation with the relevant Local Authority, for the movement of plant, labour and materials on the public road network
- Identification of enabling works areas for the construction of the infrastructure, and for the logistical support required to deliver the Proposed Project, i.e. Construction Compounds and Pipe Storage Depots
- Identification of access and egress points, off Haul Roads, to the pipeline corridor and other infrastructure sites
- Identification of ancillary structures within the pipeline corridor for its operation and maintenance.

71. This has resulted in the pipeline route contained within the Strategic Infrastructure Development planning application and Compulsory Purchase Order application.

4.3 Routing Process

72. This report, which includes the alternative route options considered, sets out in detail, with reasons, the development of the route selection process, the determination of the 'Indicative 50m Pipeline Corridor' and its subsequent development into the Proposed Project pipeline alignment.

73. Each stage of the routing process is described in further detail in the following sections:

- Section 4.5 – Step 1 as presented in the OWP (Irish Water 2015b)
- Section 4.6 – Step 2 as presented in the POAR (Irish Water 2015c)
- Section 4.7.1 – Step 3 as presented in the FOAR (Irish Water 2016)
- Section 4.7.2 – Step 4 as presented in the FOAR (Irish Water 2016)
- Section 4.7.3 – Step 5 as presented in the FOAR (Irish Water 2016)
- Section 4.8 – Post step 5 - Route refinement.

4.4 Route Corridor Start and Finish Points

74. The peak deficit of water to be met by the Proposed Project, (as defined by the Eastern and Midlands Plan (Irish Water 2022), the abstraction location and the termination point of the Proposed Project determined the extent of proposed pipeline infrastructure.

75. The infrastructure sites at either end of the pipeline form fixed nodal points. At the Parteen Basin the abstraction point forms a fixed initial starting point for the development of the pipeline routing. Similarly, the TPR location at Peamount is the connection point for water distribution within Dublin, and so connection at that specific location had therefore, already been identified as an essential element of previous iterations of the project for technical and operational reasons. From these two points, the corridor for the development of pipeline routing was established.

76. The abstraction utilises the existing assets within Parteen Basin to enable environmentally sustainable availability of drinking water at source, whilst the termination point represents the final, and preferred, location for distributing this water to where it would provide the greatest benefit for the demand, both strategically and operationally. The pipeline is the key delivery mechanism to connect the two fixed points at either end of the supply system.

4.5 Step 1: Water Supply Options Working Paper (OWP)

77. The OWP (June 2015) (Irish Water 2015b) proposed the draft assessment protocols for the identification of 'White Space,' based on constraints mapping. This was predicated on establishing 'constrained' areas within which infrastructure/proposed assets should not (as far as reasonably practicable) be located due to an excessive impact on human beings and/or the environment, or present excessive engineering challenges. The identified area endeavours to avoid such constrained areas where alternative siting and routing options are both available and reasonable.

78. The draft assessment protocols, and initial constraints identified, are contained in the OWP, (Irish Water 2015b) Section 4.3.

79. The OWP was subject to a non-statutory consultation process; feedback received was incorporated into the next stage.

4.5.1 Project Study Areas

80. The OWP (Irish Water 2015b) included a Project Study Area which recognised the extent of the project, but in which the treatment and termination points were still under consideration. The Proposed Project Study Area is shown in Image 4.1.

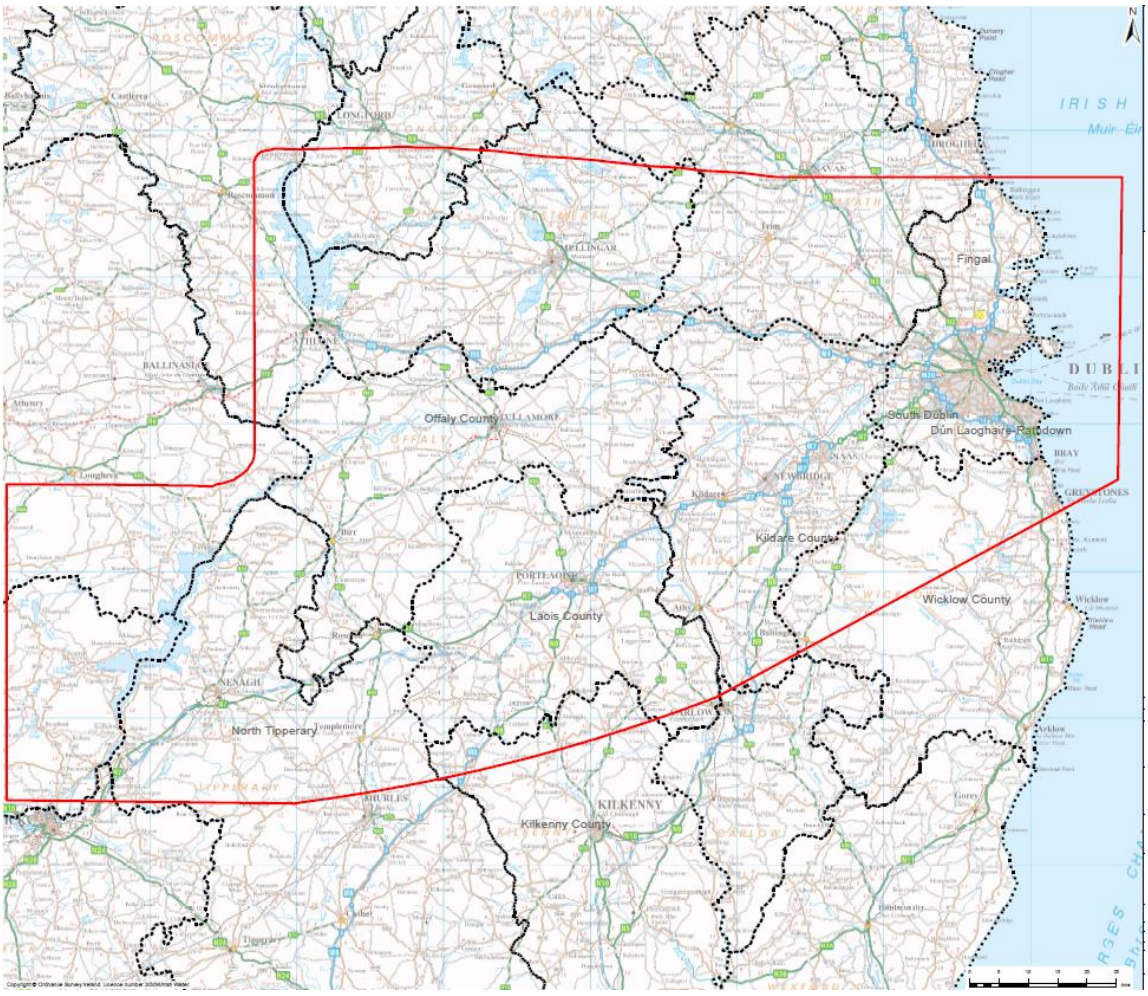


Image 4.1: Proposed Project Study Area

4.5.2 Constraints Mapping

81. The constraint mapping methodology sought to achieve impact minimisation on sensitive receptors through the avoidance of known constraints. A 'constraint' is any limiting factor on site selection for infrastructure. It can be related to human settlements, or environmental, or technical factors. The selection of the location for infrastructure sites and the routes for pipelines was therefore approached primarily through avoidance of impacts, by avoiding constraints, wherever possible. At the outset it was recognised that constraints mapping was an essential component in aligning the proposed development from an initially large area.

82. A range of project specialists were engaged to identify the constraints. These constraints were collated spatially as digital 'shape' files which could be displayed and edited as separate layers over a background map within a Geographic Information System (GIS).

83. The specialists involved included;

- Engineering
- Archaeology
- Cultural Heritage and Architectural Heritage
- Ecology
- Noise and Vibration
- Air Quality
- Traffic and Transport
- Landscape and Visual
- Agronomy
- Soils and Geology
- Water Quality – Hydrology
- Water Quality – Hydrogeology.

84. A ranking system was employed to assist in the identification of the areas best suited for new infrastructure where not all constraints could be avoided. Constraints were ranked into three categories as follows:

- High – This category of constraints is to be avoided if possible
- Medium – This category of constraints is defined as ones which should be avoided where alternative options exist, but if not, where routing could be proposed with adequate justification
- Low – This category of constraints relates primarily to technical considerations and preferences with a degree of flexibility if routing is unable to avoid them.

85. The project specialists classified each constraint within their own specialism, providing a starting position from which the process of pipeline routing commenced.

86. The project specialists engaged though a workshop and collectively agreed to an initial grouping of key, or 'high' category constraints. These constraints were collated spatially as digital 'shape' files which could be displayed and edited as separate 'layers' over a background map within a Graphical Information System (GIS). These constraints were as follows and determined the 'White Space,' through which all proposed infrastructure could be located.

- Special Areas of Conservation (SACs)
- Special Protection Areas (SPAs)
- Natural Heritage Areas (NHAs)

- Proposed Natural Heritage Areas (pNHAs)
- Ramsar Convention Sites (Wetlands)
- UNESCO Sites
- Curragh Aquifer and Pollardstown Fen
- Protected Freshwater Pearl Water Bodies (S.I. No. 296/2009 – The European Communities Environmental Objectives (Freshwater Pearl Mussel) Regulations 2009).

87. The accumulation of the constraints identified a 'White Space', within which the siting and routing of infrastructure would, where possible, be best positioned with respect to remaining constraints and would help mitigate the impact of this project, both technically and on human beings and the environment.

88. The key constraints and resulting 'White Space' boundary are shown in Annex A.

4.6 Step 2: Preliminary Options Appraisal Report (POAR) – Route Selection Methodology

89. Given the potential for competing constraints, a structured and informed decision-making process was implemented; the approach employed used the collective experience of subject matter specialists to arrive at a consensus.

90. In workshop forums decisions on a pipeline route were arrived at following extensive review. This was an iterative process and decisions were arrived at when it was determined that a balance, and consensus, had been achieved between competing constraints.

91. This collaboration amongst specialists' approach to pipeline route evaluation was adopted for each step of the Pipeline Corridor route selection.

92. The objective of the POAR (November 2015) (Irish Water 2015c) in relation to pipeline routing was to:

- Complete the Options Appraisal Process
- Review all consultant feedback received as part of the Water Supply OWP (Irish Water 2015b) and the PNR (Irish Water 2015a)
- Identification and appraisal of 'Preliminary (generally 2km wide) Route Corridors'
- Identification of 'Least Constrained Route Corridor'.

4.6.1 Assessment Criteria

93. To document assessment of the pipeline corridor route options and facilitate comparison and ranking by various specialisms, appraisal criteria were developed as set out in Table 3.2.

Table 3.2 Assessment Criteria

Environmental Criteria	Technical Criteria	Risk Criteria
Biodiversity, Flora and Fauna	Safety	Technical Risk relating to the Source
Fisheries	Planning Policy	Technical Risk relating to Infrastructure and Operations
Water	Engineering and Design	Environmental and Planning Risk
Air/Climatic Factors	Capital and Operational Costs	Financial Risk
Material Assets (Energy)	Sustainability	Socio-economic risk
Cultural Heritage (including Architecture & Archaeology)		
Landscape & Visual		
Material Assets (Land use)		

Environmental Criteria	Technical Criteria	Risk Criteria
Tourism		
Population		
Human Health		
Soils, Geology and Hydrogeology		

94. The fundamental approach in the assessment of the reasonable alternative options was to use the expertise of specialists in their fields to conduct a comparative analysis.

95. Each potential route was assessed by the relevant technical and environmental specialist under each of these criteria, with differentiating sub-criteria identified by the specialists, to distinguish the route of least constraint.

96. The relative assessment of impact under each of the sub-criteria was presented through a common impact classification as set out in Table 3.3.

Table 3.3: Impact Classification

Impact
Very High
High
Mid-range
Low
Very low

97. The relative assessment and classification of impact across the sub-criteria by the specialists provided a 'Multi-Criteria Analysis' (MCA) from which collective agreement on that of 'least constraint' was sought through the workshop forums.

4.6.2 Step 2 – Preliminary Route Corridors

98. Step 2 – a further desktop-based assessment involving a refinement of the 'White Space' by the application of further 'high', or 'medium' category of constraints within the 'White Space'; and identification of 'Preliminary Route Corridors' (approximately 2km wide). The outcome of this step is the identification of a Preliminary Route Corridor of 'least constraint'.

99. The extent of the study area between an abstraction location on the Lower River Shannon and a proposed termination point in Dublin covers almost the width of the State, generating a large number of routing options, and sub-options, for a potential pipeline corridor.

100. In routing for 2km wide corridors across the State, it was not always possible to avoid each identified constraint entirely. Consequently, comparative analysis through MCA offered a robust solution to the identification of an emerging 'Preferred Route Corridor', or a route that offered less 'medium' to 'high' category constraints than the alternatives.

101. Volume 4 of the POAR (Appendix F of the POAR) (Irish Water 2015c) provides a comprehensive assessment into the identification of Preliminary Route Corridors including the methodology adopted, a database of the various constraints and their classification as either 'High', 'Medium', or 'Low', specialist assessments and comparative discussion on a route, and the emergence of a 'Least Constrained Route Corridor'.

102. Before a 'Preliminary Route Corridor' could be chosen it was first necessary to identify those areas of least constraint from within the existing 'White Space'. This was a more detailed screening exercise than

that carried out in Step 1 and involved a more extensive and comprehensive use of constraint data sets. This reduced the available area within which a 'Preliminary Route Corridor' could be sited.

103. A number of 2km wide potential Preliminary Route Corridors were identified and assessed in the POAR (Irish Water 2015c). An MCA was completed on each Preliminary Route Corridor and the least constrained option among them identified.

104. The Preliminary Route Corridors and the 'Least Constrained Route Corridor' identified between Parteen Basin in the townland of Garrynatineel, County Tipperary, and the termination point at Peamount in Dublin are shown on Image 4.2.

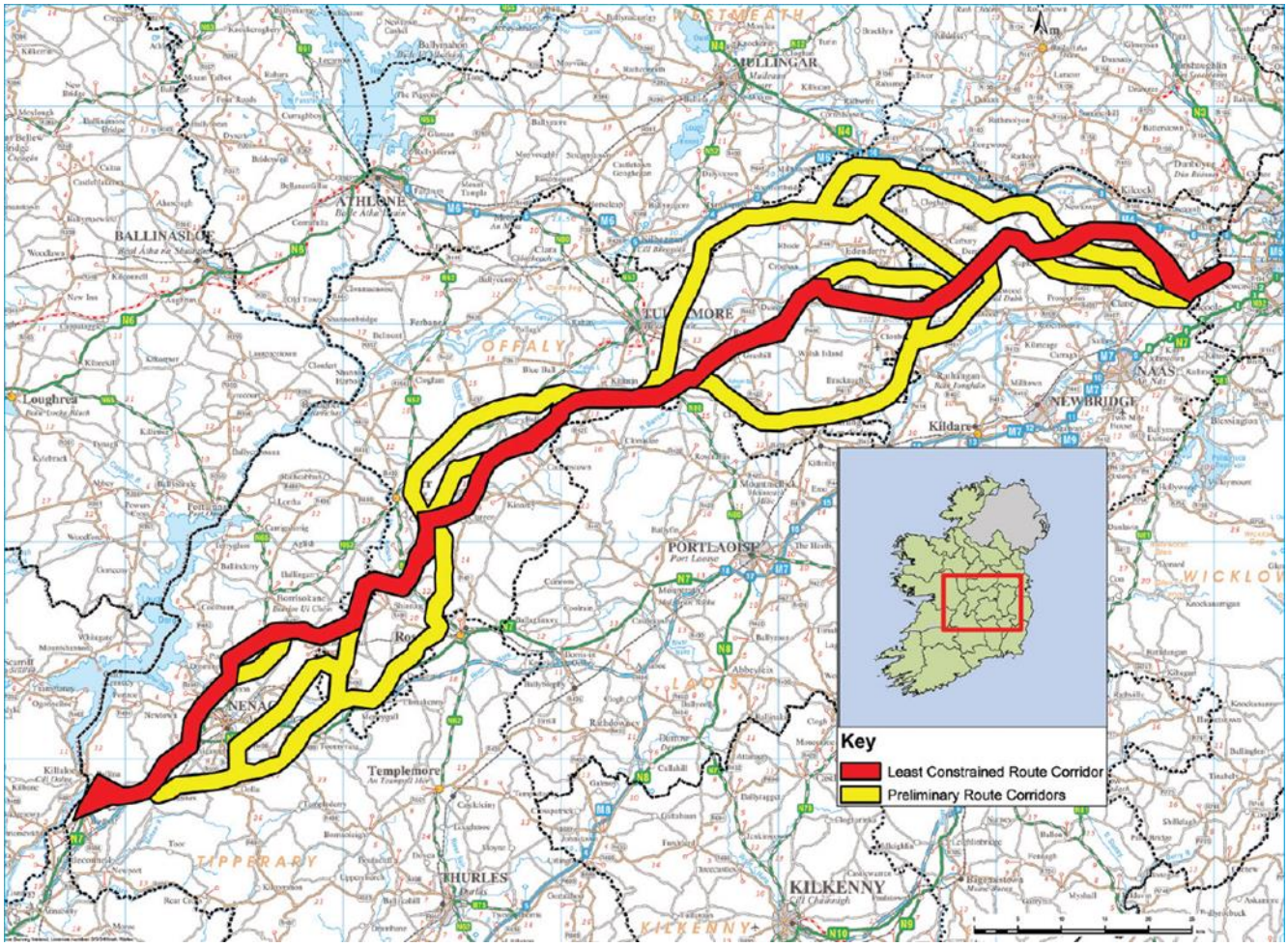


Image 4.2: Preliminary Route Corridors and Least Constrained Route Corridor (in red)

105. The following sections summarise the selection of the 'Least Constrained Route Corridor' from the Preliminary Route Corridors. A more comprehensive assessment is detailed in Volume 4 of the POAR (Irish Water 2015c).

106. For the purposes of reporting the consideration of alternatives, the Pipeline Route Corridor was divided into four sections:

- Birdhill to Birr
- Birr to Tullamore
- Tullamore to Carbury
- Carbury to Peamount.

107. *Note: the following sections discuss the initial selection of the Preliminary Route Corridor. The same approach was applied to several sub-options but only after selection of a Preliminary Route Corridor from the available alternatives. The sub-option or 'loops' as they were referred to have been reported in Section 4.6.2.1 – 4.6.2.4 where applicable to the least constrained Preliminary Route Corridor.*

4.6.2.1 Preliminary Route Corridors – Birdhill to Birr

108. Between Birdhill and Birr, three primary route options were identified, shown as A1, A2 and A3 in Image 4.3.

109. The MCA, reported in the POAR, determined that Preliminary Route Corridor alternatives A2 and A3 were, more constrained compared with the alternative Preliminary Route Corridor A1 and therefore, did not perform as well as it, for the following reasons:

- They are longer route alternatives and would involve a higher degree of hedgerow clearance and associated disturbance on flora and fauna
- Greater impact potential on local, secondary and tertiary roads, and potentially poorer construction access from the national, regional road and local primary road network
- Higher potential for encountering ground with peat and alluvium
- Greater impact potential for watercourse crossings as they both will require crossing of River Ollatrim whereas A1 does not.

110. Preliminary Route Corridor alternative A1 encountered a divergence point at Lough Eorna, County Tipperary. At this location the corridor could be routed either in a more northerly or southerly direction. These ‘sub-options’ or ‘loops’, were evaluated, and it was concluded that the potential environmental impacts, including ecology were similar for both routes and that the routing decision relied on engineering/technical considerations. On the basis of these technical factors, the northerly sub-option was preferred because it had the least potential for encountering poor ground conditions and was more favourably accessed from secondary roads. Therefore, the northerly Lough Eorna Loop was the least constrained of the two sub-options.

111. Overall, for the route section between Birdhill to Birr, Preliminary Route Corridor alternative A1, with the northerly sub-option alignment of the Lough Eorna Loop, was selected as the least constrained alternative for a combination of environmental and technical reasons.

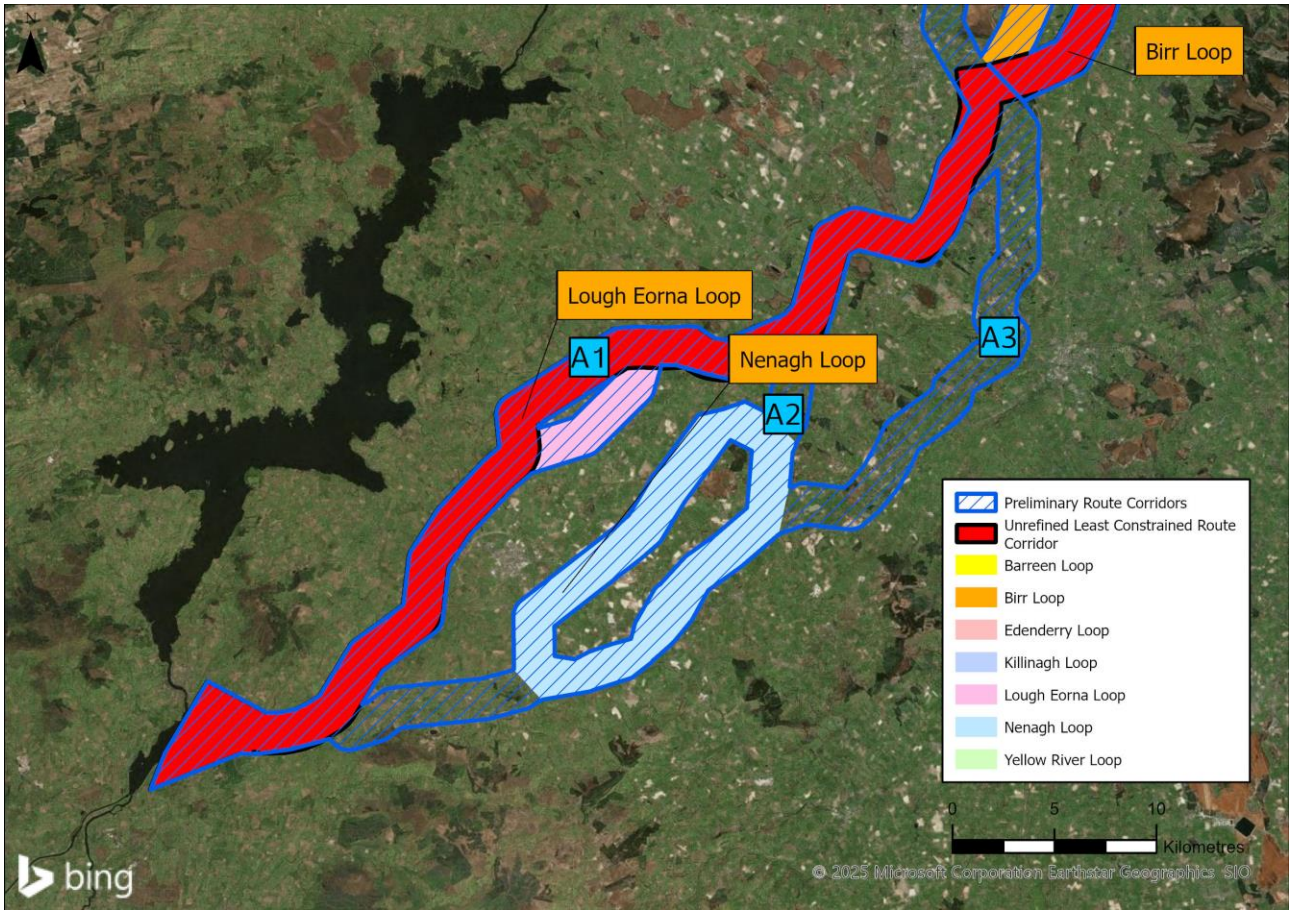


Image 4.3: Route Alternatives between Birdhill and Birr

4.6.2.2 Preliminary Route Corridors – Birr to Tullamore

112. Between Birr and Tullamore two primary route options were identified, shown as B1 and B2 in Image 4.4.

113. The MCA, reported in the POAR (Irish Water 2015c), determined that Preliminary Route Corridor B1 was more constrained compared with the alternative Preliminary Route Corridor B2, and therefore, did not perform as well as it, for the following reasons:

- It is a longer route and would involve a higher degree of hedgerow clearance and associated disturbance on flora and fauna
- Higher potential for encountering conditions where construction would be difficult, more crossings of major obstructions and has a less acceptable elevation profile
- It encounters a higher number of cultural heritage constraints
- A higher presence of extensive areas of peat, and the potential to sterilise mineral resources make it less suitable.

114. Preliminary Route Corridor B2 encountered a divergence point at Castletown, County Offaly. At this location the corridor could be routed either in a more north-easterly or south-easterly alignment. These were referred to as the Birr Loops, ‘North’ and ‘South’. Following appraisal of these sub-options, it was established that the South loop performed better on technical grounds. The environmental effects of both options were broadly similar, with low effects on the environment generally for either. However, the northern loop would have potential moderate impacts on cultural heritage, and soils, geology and hydrogeology. Therefore, the southern Birr Loop was the least constrained of the two sub-options.

115. Overall, for the route section between Birr to Tullamore, Preliminary Route Corridor alternative B2 with the southern sub-option alignment of the Birr Loop was selected as the least constrained alternative for a combination of environmental and technical reasons.

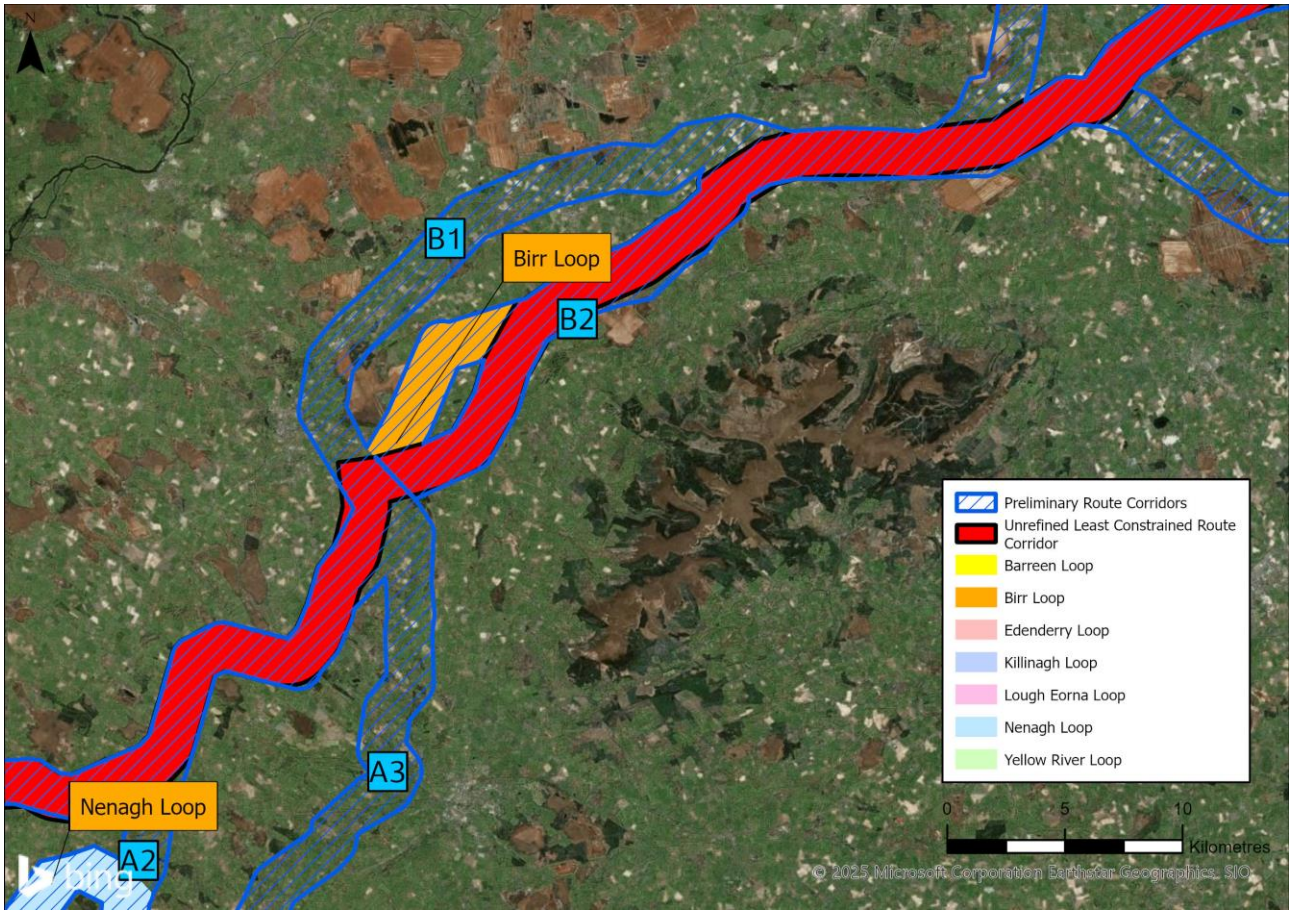


Image 4.4: Route Alternatives between Birr and Tullamore

4.6.2.3 Preliminary Route Corridors – Tullamore and Carbury

116. Between Tullamore and Carbury, four primary route options were identified, shown as C1, C2, C3 and C4 in Image 4.5.

117. The MCA, reported in the POAR (Irish Water 2015c), determined that Preliminary Route Corridor alternatives C1, C2, and C4 were more environmentally constrained compared with the alternative Preliminary Route Corridor C3, and therefore, did not perform as well as it, for the following reasons:

- They are longer routes and have a greater number of locally important habitats impacted than Route Corridor C3
- These routes present a higher risk to sensitive salmonid spawning areas in the River Boyne and Blackwater river SAC catchment
- These options have a greater number of local secondary and tertiary road crossings and poorer construction access with the regional road network.

118. Preliminary Route Corridor C3 encountered a divergence point at two locations and so four sub-options were considered.

119. The first of these was at Edenderry, County Offaly and was referred to as the Edenderry loop. At this location the corridor could be routed either in a more northerly or southerly direction. It was established, following an appraisal of these sub-options, that the northern alignment passed through areas of high ecological value, including an area of remnant raised bog, the Long Derries SAC and the Grand Canal proposed Natural Heritage Area. The southern alignment was therefore selected as the least constrained option for the Edenderry Loop.

120. A second divergence point was identified further east, with the option of a more northerly or southerly alignment at Killinagh. The Killinagh Loop sub-options displayed comparable environmental characteristics but the northern alignment had lower biodiversity impacts. As a result, the northern alignment of the Killinagh Loop was selected as the least constrained of the two sub-options.

121. Overall, for the route section between Tullamore to Carbury, Preliminary Route Corridor alternative C3, with the southern alignment of the Edenderry Loop and the northern alignment of the Killinagh Loop was selected as the least constrained alternative for a combination of both environmental and technical reasons.

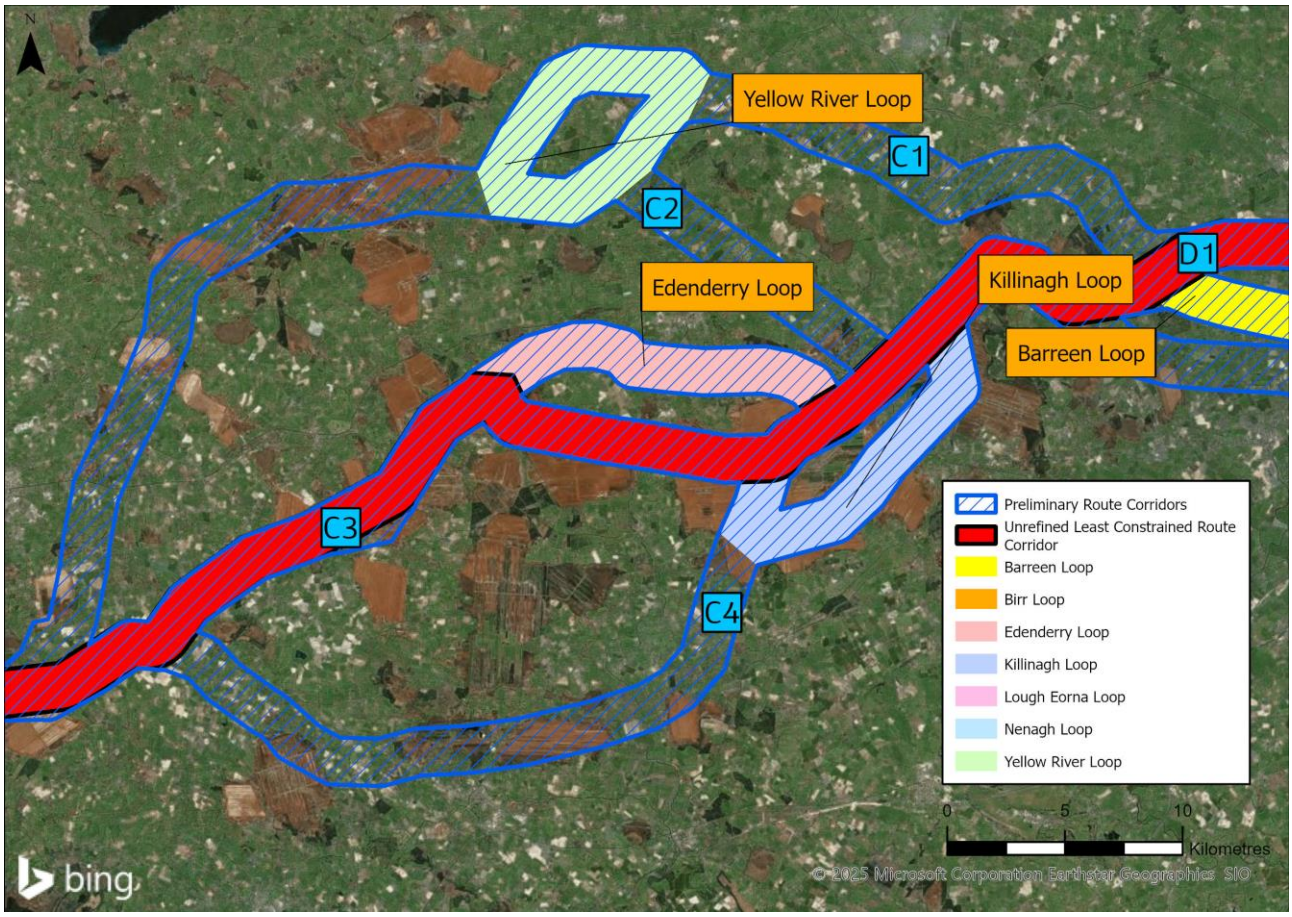


Image 4.5: Route Alternatives between Tullamore and Carbury

4.6.2.4 Preliminary Route Corridors – Carbury and Peamount

122. Between Carbury and Peamount two primary route options were identified, shown as D1 and D2 in Image 4.6.

123. The MCA, reported in the POAR (Irish Water 2015c), determined that Preliminary Route Corridor D2 was a more environmentally constrained option, compared with the alternative Preliminary Route Corridor D1 and therefore, did not perform as well, for the following reasons:

- A significant portion of the D2 corridor affects the sensitivity of the existing landscape character
- A significant portion of the D2 corridor is occupied by the K Club; a highly sensitive receptor as it an important source of local employment
- It has a higher potential for encountering ground where construction would be difficult, a greater number of crossings of major obstructions and has a less acceptable elevation profile
- It encounters a higher number of cultural heritage constraints.

124. Preliminary Route Corridor D1 encountered a divergence point at Barreen, County Kildare. At this location the corridor could be routed either in a more northerly or southerly direction. While the potential environmental impacts were similar for both routes, the northerly sub-option was preferred for landscape character reasons. There were some technical advantages to the southern loop including a more preferrable elevation profile however, overall the north loop was considered the least constrained.

125. Overall, for the route section between Carbury to Peamount Preliminary Route Corridor alternative D1, with the northern Barreen Loop was selected as the least constrained alternative for a combination of environmental and technical reasons.

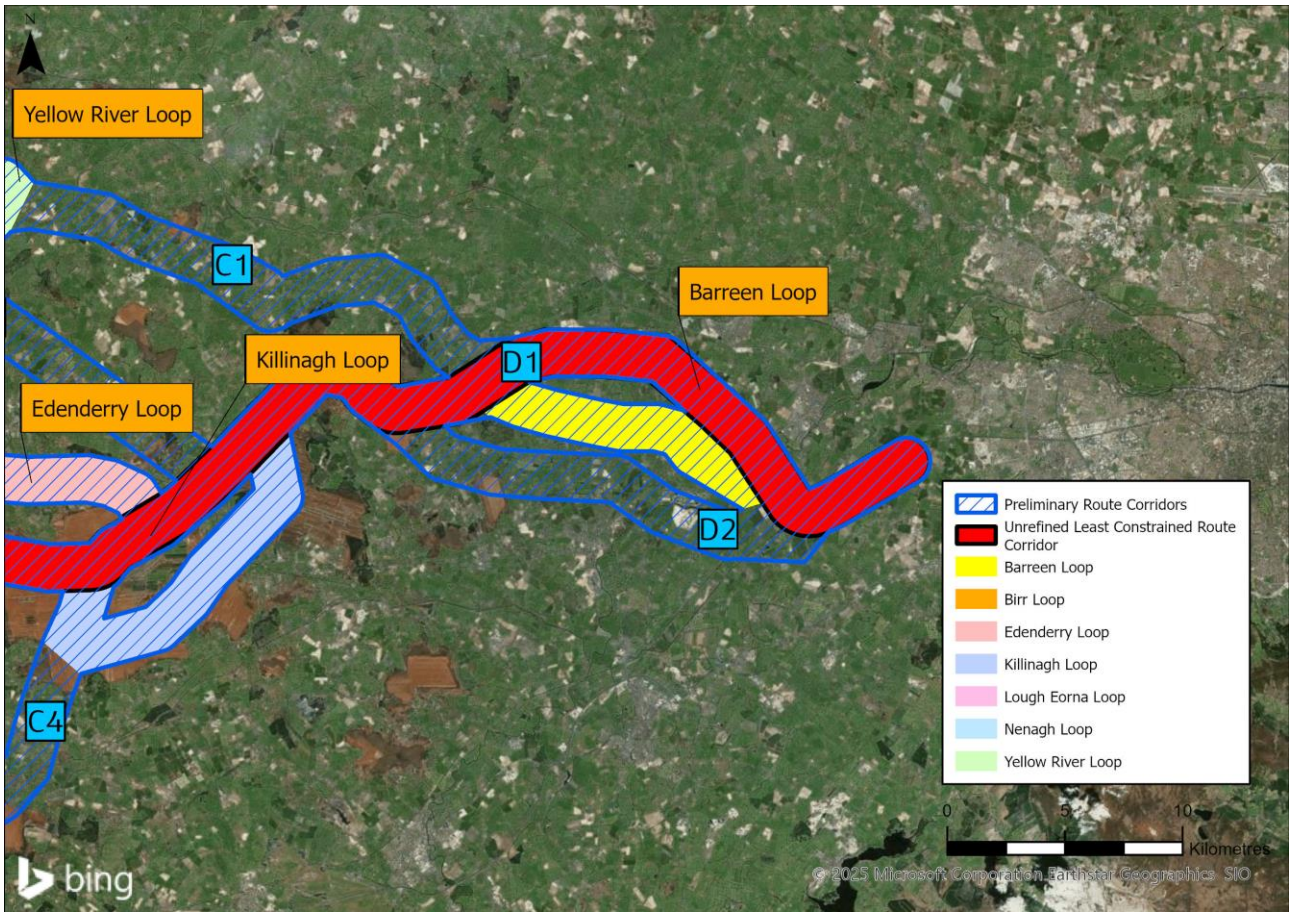


Image 4.6: Route Alternatives between Carbury and Peamount

4.6.2.5 The 'Least Constrained Route Corridor'

126. The 'Least Constrained Route Corridor' that resulted from the process outlined in Sections 4.6.2 is shown in Annex B and was subject to a non-statutory consultation process as a principal component of the POAR (Irish Water 2015c).

4.7 Steps 3,4 and 5: Final Options Appraisal Report (FOAR) – Route Selection Methodology

127. The FOAR (November 2016) (Irish Water 2016) set out the detailed development to get from the 2km wide 'Least Constrained Route Corridor' to a 'Preferred Route Corridor' (Step 3) to a 'Preferred 200m Pipeline Corridor' (Step 4) incorporating an Indicative 50m Pipeline Corridor (Step 5). The development and refinement of a pipeline corridor followed an ongoing process of updating and augmenting the constraint database, field surveys, and feedback from stakeholders.

128. This section outlines the development of the pipeline corridor up to the point it was published with the FOAR for a non-statutory consultation.

4.7.1 FOAR – Step 3 – Preferred Route Corridor

129. The objective of Step 3 was as follows:

- Consider amendments to the 'Least Constrained Route Corridor' (Section 4.6.2) based upon feedback from the POAR (Irish Water 2015c) consultation process
- Confirmation of the 'Preferred Route Corridor' (generally 2km)
- Identification of pipeline / infrastructure assets.

130. Feedback was received from several stakeholders on the 'Least Constrained Route Corridor' for the emerging preferred option; Option C: Parteen Basin Reservoir (Direct).

131. A review of this feedback was undertaken by the project team. The review resulted in several refinements to the 'Least Constrained Route Corridor,' at the following locations:

- Lower Lake (Parteen Basin)
- Annaghmore, south of Tullamore (County Offaly)
- Esker Bog, south-west of Edenderry (County Offaly)
- Timahoe North Bog, south of Enfield (County Kildare)
- North Kildare, south of Maynooth.

4.7.1.1 Parteen Basin

132. The western boundary of the 'Least Constrained Route Corridor' was amended to accurately reflect the riparian boundary of Parteen Basin and the positioning of the infrastructure sites, i.e. the Raw Water Intake & Pumping Station at the proposed abstraction point, and the Water Treatment Plant (shown in Image 4.7).

133. The 2km least constrained corridor was broadened on the approaches to Parteen Basin, to include the areas within which these infrastructure sites were then proposed and sited, and then assessed for least constraint in their own right. Further work on pipeline routing then concentrated on linking the preferred Raw Water Intake & Pumping Station, with the preferred water treatment plant site, as fixed points in this area.

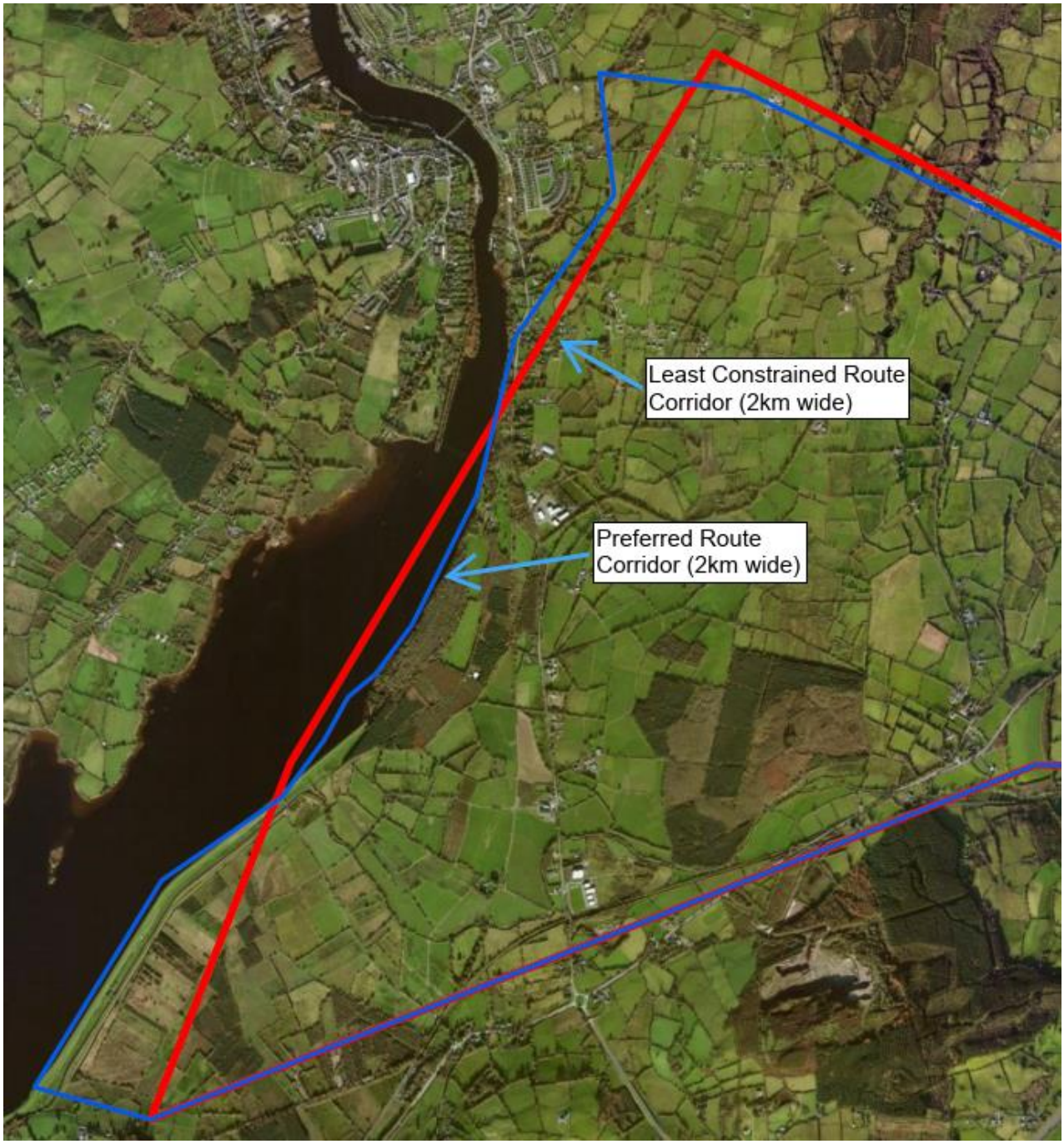


Image 4.7: Parteen Basin - Preferred Route Corridor (2km wide)

4.7.1.2 Annaghmore

134. Due to the high density of constraints identified in the area of Annaghmore, south of Tullamore (Co. Offaly), it was established that a 'Preferred 200m Pipeline Corridor' would be difficult to route within the area originally identified for the 'Least Constrained Route Corridor' (2km) alignment. The environmental constraints identified included:

- Groundwater vulnerability
- Additional habitats (raised bogs)
- Woodland habitats
- Forestry.

135. A detailed review of this area was conducted, and a minor positional amendment was made to the 'Least Constrained Route Corridor', in consideration of these environmental constraints (shown in Image 4.8). The amended corridor allowed the identification of a 200m wide corridor in this area within the known constraints; and became part of the 'Preferred Route Corridor' (generally 2km). The amended corridor was re-positioned slightly south of its original position in the POAR (Irish Water 2015c).

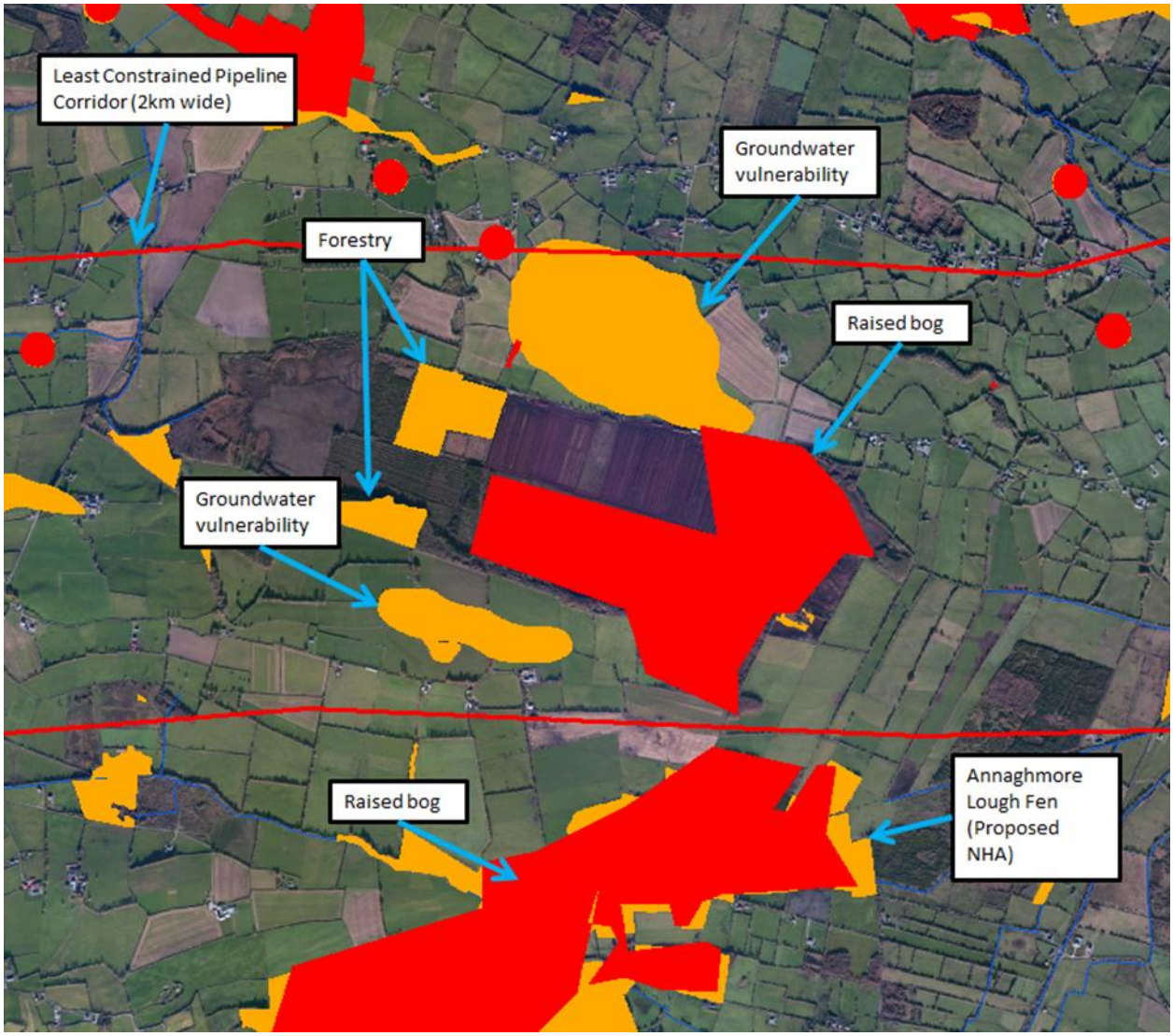


Image 4.8: Annaghmore - Preferred Route Corridor (2km wide)

4.7.1.3 Esker Bog

136. The positioning of the 'Least Constrained Route Corridor', to the south-west of Edenderry, was shown to pass directly through Esker Bog. It was subsequently confirmed through stakeholder consultation that small scale domestic peat production has not been exhausted at this location.

137. Consequently, a detailed review of this area was conducted and realignment to the 'Least Constrained Route Corridor' was proposed, which was cognisant of any potential further refinement in this area; in particular enabling the identification of a 200m wide corridor in this area within the known constraints. The positioning of the 200m corridor is cognisant, and mitigatory, of the:

- Impact on future habitat regeneration plans (subsequently entitled rehabilitation plans); and
- Impact on active small scale peat domestic peat production lands

138. It was determined that the alignment should be re-positioned slightly south of the original location of the 'Least Constrained Route Corridor (shown in Image 4.9). This would facilitate any further refinement of the pipeline corridor as it would allow a 200m corridor (Step 4) to skirt the boundary of the active bog workings. This became part of the 'Preferred Route Corridor' (generally 2km).



Image 4.9: Esker Bog – Preferred Pipeline Corridor (2km Wide)

4.7.1.4 Timahoe North Bog

139. The positioning of the 'Least Constrained Route Corridor', to the south of Enfield, was shown to pass directly through Timahoe North Bog. It was subsequently confirmed through stakeholder consultation that an existing wetland habitat in this area and a section of original undisturbed bog remnant should be avoided, in order to minimise impacts on these habitats.

140. A detailed review of this area proposed a local amendment to the 'Least Constrained Route Corridor', enabling the identification of a 200m wide corridor (Step 4 – Section 4.7.2) which would avoid the identified important habitat in this area. The positioning of the 200m corridor was cognisant, and mitigatory, of the:

- Impact on existing wetland
- Impact on original bog remnant.

141. It was determined that the route should be re-positioned slightly south of its original location skirting the boundary of the bog (shown in Image 4.10). This became part of the 'Preferred Route Corridor' (generally 2km).

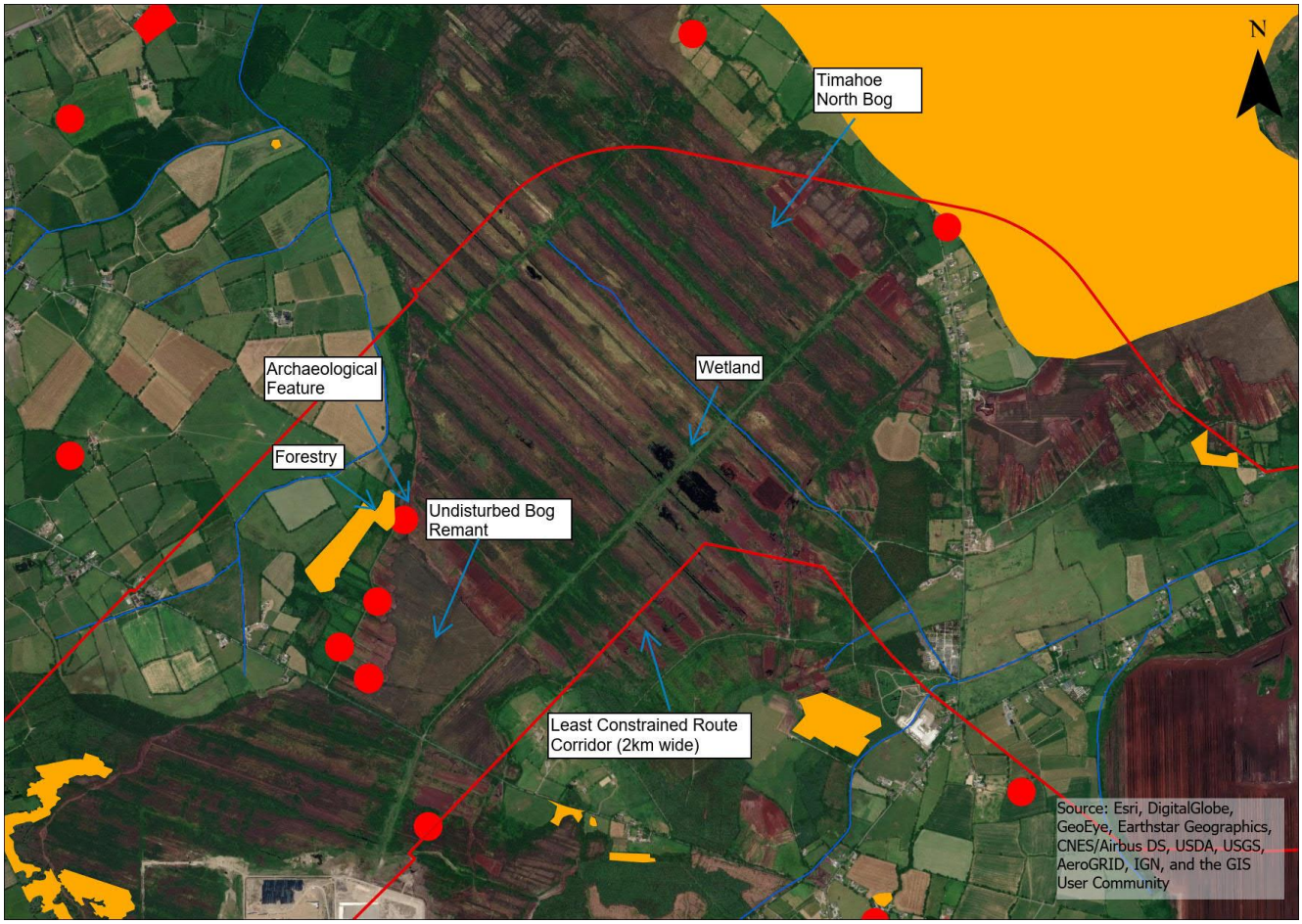


Image 4.10 : Timahoe North Bog - Preferred Pipeline Corridor (2km Wide)

4.7.1.5 North Kildare

142. Feedback received during the POAR (Irish Water 2015c) public consultation indicated that the positioning of the 'Least Constrained Route Corridor', to the south of Maynooth, passed through an area of high constraint density, and directly through a number of large-scale local enterprises, which were not immediately identifiable through the earlier 'desktop' investigations. This local constraint density would make it difficult to route a 200m corridor (Step 4), within the 2km alignment of the overall 'Least Constrained Route Corridor'. A re-assessment of the potential route corridors in this area, as shown in the area of the Barreen Loop was carried out (shown in Image 4.11). These corridors were previously considered as part of the POAR published in November 2015.

143. Upon completion of this review a 'Preferred Route Corridor' (generally 2km wide) was established.

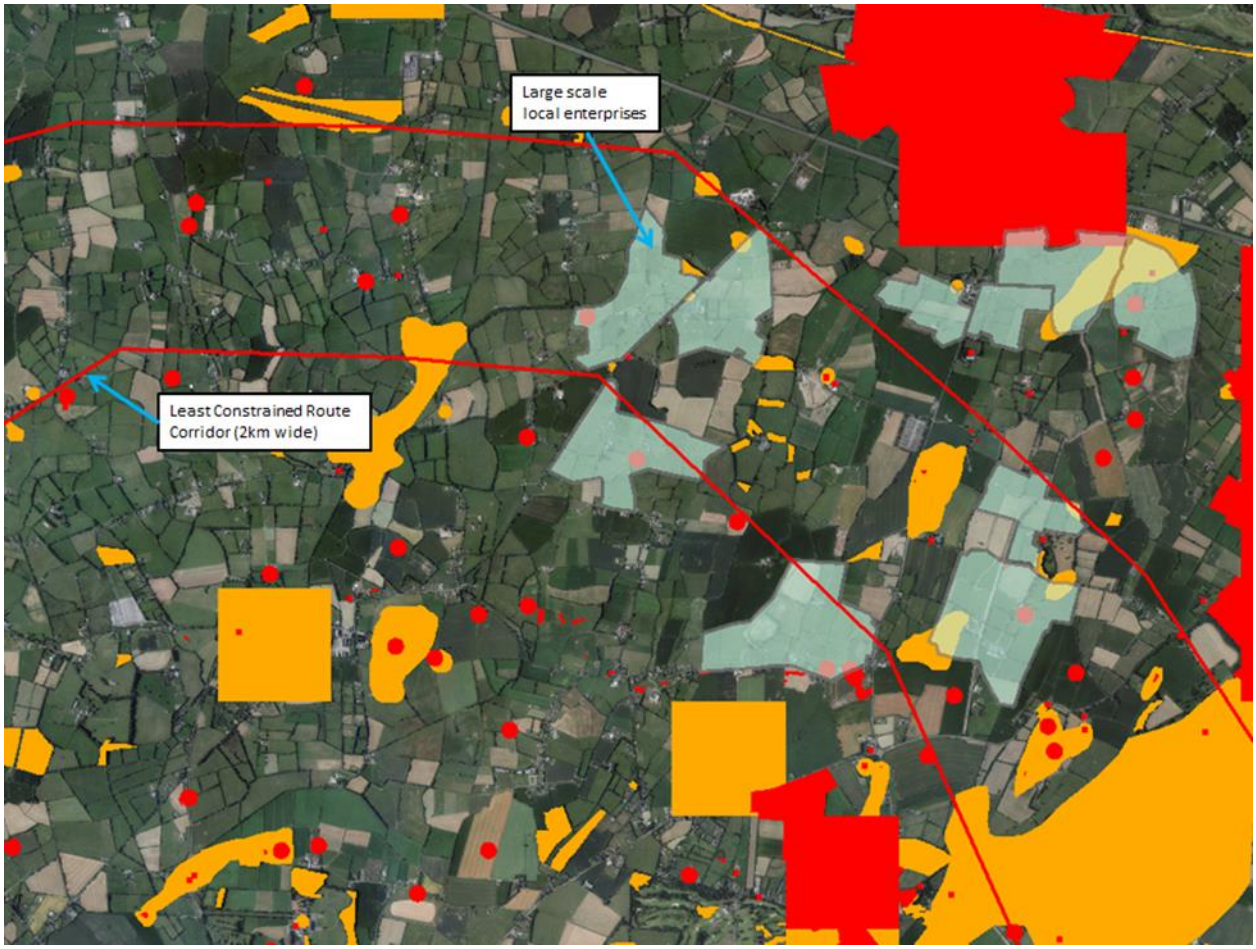


Image 4.11: North Kildare - Preferred Pipeline Corridor (2km Wide)

4.7.1.6 Preferred Pipeline Corridor

144. Upon completion of Step 3, which included taking cognisance of the public consultation process, the 'Preliminary Route Corridor' (generally 2km wide) was re-defined as the 'Preferred Pipeline Corridor'.

4.7.2 FOAR – Step 4 – Preferred 200m Pipeline Corridor

4.7.2.1 Preliminary 200m Pipeline Corridor

145. The objective of Step 4 was to refine the environmental and technical constraints and identify areas with the least constraints within the preferred route from Step 3.

146. The following process was adopted in defining the 'Preliminary 200m Pipeline Corridor':

- The environmental and technical constraints from Step 3 were carried forward and refined within the constraints database
- Data from Ordnance Survey Ireland was also mapped to take account of additional buildings e.g. farmhouses, sheds, etc. not previously identified
- Areas were excluded where a constraint, or combination of constraints, (classified as either 'High' or 'Medium') were of sufficient extent to influence the routing of the 200m corridor
- Field visits of the 'Preferred Pipeline Corridor (generally 2km),' identified in Step 3; and initiating landowner engagement in order to assist with refining the corridor to 200m.

147. See Annex B for the 'Identification of Preliminary 200m Pipeline Corridor'. These were first published in the FOAR (Irish Water 2016).

148. This mapping was developed further in consideration of the following:

- Achieving a reasonable pipeline elevation profile to enable safe operation and maintenance
- Minimisation of areas where construction could be difficult, where possible, e.g. steep inclines
- Minimising the number of major obstacles such as road, rail and river crossings
- Minimising landowner impact
- Ease of access, both during construction and operation, from the existing road infrastructure.

4.7.2.2 Preferred 200m Pipeline Corridor

149. Field investigations were carried out, between May 2016 and October 2016, where the specialists surveyed the pipeline corridor. This was supported by landowner liaison and consultation with local stakeholders to avail of local advice and knowledge, and to establish the facts that may have a bearing on pipeline routing. This landowner engagement resulted in alterations to the 'Preliminary 200m Pipeline Corridor.'

150. Subsequently, the *in situ* investigations resulted in adjustments to the 'Preliminary 200m Pipeline Corridor'.

151. Annex C includes the drawings showing the subsequent 'Identification of Preferred 200m Pipeline Corridor'. These were first published in the FOAR (Irish Water 2016). The constraints which informed the routing of the 'Preliminary 200m Pipeline Corridor', and the subsequent feedback from the environmental surveys, defined the identification of this 'Preferred 200m Pipeline Corridor'.

4.7.3 FOAR – Step 5 – Indicative 50m Pipeline Corridor

152. The objective of Step 5 was to:

- Validate the 'Preferred 200m pipeline corridor', identified in Step 4
- Identify an 'Indicative 50m Pipeline Corridor,' from the 'Preferred 200m Pipeline Corridor' in Step 4
- Obtain feedback from landowners as part of investigative surveys.

153. Whilst the 'Preferred 200m Pipeline Corridor' from Step 4 represents the least constrained route for a pipeline, there were several constraints within it. These constraints were considered in the Identification of an 'Indicative 50m Pipeline Corridor.' The latter represents the required construction working width.

154. See Annex D for the 'Preferred 200m Pipeline Corridor and 'Indicative 50m Pipeline Corridor' drawings, which were published with the FOAR (Irish Water 2016).

155. This 'Indicative 50m Pipeline Corridor' was identified in consideration of known technical and environmental constraints, as well as feedback from landowners as part of the investigative surveys. The final corridor was subject to the following:

- Feedback from the FOAR (Irish Water 2016) public consultation on the 'Preferred 200m Pipeline Corridor', and actions arising
- Further constraints/requirements mapping exercise with the inclusion of an extended constraints/requirements dataset, augmented by additional information upon completion of the environmental surveys, as required
- Ongoing hydraulic design

- Ongoing consultation with landowners/stakeholders. The 'Indicative 50m Pipeline Corridor' will be refined for further positional adjustments accordingly.

156. Feedback from the Public Consultation on the FOAR (Irish Water 2016) was incorporated into the refinement of the pipeline corridor, where possible, but ensuring that at all times proposals are aligned with the environmental assessments.

157. Extensive field surveys supported the establishment of a robust environmental baseline. The extent and scope of these surveys were identified by the specialists/specialisms during the desktop review (during the preparation of the POAR (Irish Water 2015c)) and undertaken in support of the identification of the 'Preferred 200m Pipeline Corridor' and 'Indicative 50m Pipeline Corridor' which were included in the FOAR (Irish Water 2016). These surveys supported a full and proper impact assessment of the 'Indicative 50m Pipeline Corridor' and enabled suitable mitigation to be incorporated, as required.

158. Landowner engagement was carried out via Landowner Liaison Officers (LLOs). The function of LLOs includes relaying issues raised by landowners to the project team for consideration in the identification of the 'Indicative 50m Pipeline Corridor.'

159. Due to the large pipeline diameter and route curvature limitations, positional adjustments, where possible, are undertaken in a collective way, taking these issues into account. The 'Indicative 50m Pipeline Corridor' represents the least constrained route for the construction of a supply main between the water treatment plant and the termination point reservoir, the point of connection to the Greater Dublin Area Water Resource Zone; primarily defined by extensive environmental constraint mapping, and optimised (engineering) to efficiently convey the treated water.

160. The final route incorporated those line adjustments which are possible within the engineering constraints of a large diameter pipeline and developed from a collective consideration of views expressed in consultation with landowners, taking account of their advice with regard to their particular lands, and aligned to cause the least impact, during construction and operation.

4.8 Post Step 5 Route Refinement

161. The non-statutory consultation process on the FOAR (Irish Water 2016) initiated direct engagement by Irish Water with landowners along the route of the proposed pipeline. This process included landowner information evenings, public open days, and direct landowner engagement delivered by four LLOs. Feedback received during this process was considered by the project team to further inform the development of the proposed scheme. Further information on the non-statutory consultation process is provided in the Final Options Appraisal / EIS Scoping Report – Consultation Submissions Report (April 2018) (Irish Water 2018).

162. The constraints database was under continuous review, updated and augmented as required. Field surveys by ecologists continued, and geotechnical investigations were carried out; both intrusive and non-intrusive. In addition, the preliminary design has been informed by ongoing consultations with stakeholders.

163. The selection of a '50m Pipeline Corridor' is an iterative one and involved extensive consultation with landowners directly and indirectly affected by the proposed development. Subsequent to the FOAR (Irish Water 2016) non-statutory consultation, the LLOs have recorded almost 13,500 individual interactions with these landowners.

164. Landowners reroute requests were received over 14 weeks from 8 November 2016 to 14 February 2017 and thereafter. All requested adjustments to the pipeline corridor were subjected to the same robust approach to pipeline route evaluation, where the various specialists used MCA to reach a consensus on the merits of a proposed change. In addition, any decision-making process took account of the potential

impact on neighbouring land holdings, i.e. an adjacent land could not be unduly disadvantaged by reaching an accommodation elsewhere.

165. This process has continued between 2018 and 2025 with on-going engagement with landowners and re-routes proposed by landowners throughout this period. These are set out in Annex E.

166. At the same time as part of the on-going preliminary design process, a number of technical routing adjustments have been proposed. These adjustments result from minor improvements in the design and have been subjected to the same robust approach to pipeline route evaluation.

167. This decision-making process was broadly divided up into three categories:

- Technical Analysis
- Environmental Analysis
- Landowner Engagement.

168. Technical analysis assessed the constructability of a proposed change, and potential impact on the operation and maintenance of the proposed development; and included the following:

- Adequate working area to construct the pipeline
- Due consideration was given to how close the pipeline would be located relative to buildings and infrastructure, and other constraints such as archaeological features – maintaining an adequate buffer
- Impact of any change to the pipeline length and to the number of bends required, which affect the hydraulic operation of the pipeline
- The 'Layout' of the landholding was reviewed to ensure relative alignment of the pipeline
- Topography – the avoidance of steep gradients and high elevations, wherever possible, to facilitate hydraulic profiling and pipeline operation
- Increased number of watercourse crossings which introduce greater complexity in construction; and
- Traffic – the maintenance of access to property and sight lines.

169. The environmental analysis assessment of any proposed change considered the site-specific factors, which focused on the following:

- Ecology – impact on flora and fauna, particularly with respect to Annex 1 and Annex 2 of the Habitats Directive
- Impact on watercourses
- Alignment of watercourse crossings – pipeline to be perpendicular to watercourse, wherever possible.

170. With respect to the landowner engagement category, consideration was given to the following:

- Agreement required with neighbouring landowner(s) to effect a proposed realignment of the pipeline
- Increased impact on neighbouring landowner(s) which already have the proposed alignment of the pipeline through their land(s), e.g. length
- Introduction of new landowners that were not previously directly impacted by the proposed development.

171. Ongoing consultation, and design development, has continued to influence the route of the '50m Pipeline Corridor' with dialogue with landowners and other affected parties used to explore options to make minor amendments to the pipeline corridor. This has resulted in minor changes to the indicative planning

application boundary but the boundary of the indicative 50m pipeline corridor identified through the routing process in 2016 remains broadly the same.

172. This is documented in Annex E where mapping describes the reroutes carried out, and includes a summary of each of the requests, and the environmental, technical and landowner engagement assessment.

173. A decision on the reroute requests were categorised as 'Not Facilitated', 'Partially Facilitated', or 'Facilitated' defined as follows:

- Not Facilitated – unable to alter the 'Indicative 50m Pipeline Corridor' as requested for a technical, environmental or landowner reason
- Partially Facilitated – able to alter the 'Indicative 50m Pipeline Corridor' to some extent but unable to comply fully with the request due to a technical, environmental or other landowner reason
- Facilitated – able to alter the 'Indicative 50m Pipeline Corridor' as requested.

174. Decisions along with the reasoning were communicated to the landowner(s) who made the request. A total of 140 requests were made with respect to an adjustment to the pipeline corridor; summarised as follows:

- Not Facilitated – 44 No.
- Partially Facilitated – 43 No.
- Facilitated – 50 No.
- Nore-route required – 3 No.

175. In addition to these, 36 route refinements have been made for technical reasons such as revising the geometry of the pipeline.

176. The Pipeline Corridor with the accepted re-routes presented in Annex E represents the pipeline route as submitted within the Strategic Infrastructure Development Planning Application and compulsory Purchase Order Application.

177. An example of a facilitated landowner requested re-route is shown in Image 4.12. The landowner requested if a re-alignment could be facilitated to reduce the impact on the land. There were no technical or environmental reasons why this was not reasonably practicable and therefore, it was accommodated.

178. An example of a rejected landowner requested re-route is shown in Image 4.13. The request was to move the alignment closer to the boundary of the landholding. A sub-option which would not have involved such an extensive re-alignment was also considered. Neither re-route was not taken forward. This was due to technical implications of altering the alignment and the environmental consequences of doing so.

179. Image 4.14 shows an example of a partially facilitated landowner requested re-route. In this example, the alignment has been refined to reduce the impact of the project on paddocks, while maintaining an environmental buffer with the River Liffey.

180. Image 4.15 shows a technical re-route with a slight realignment of the pipeline that was facilitated to reduce the impact on rehabilitated peat bog.

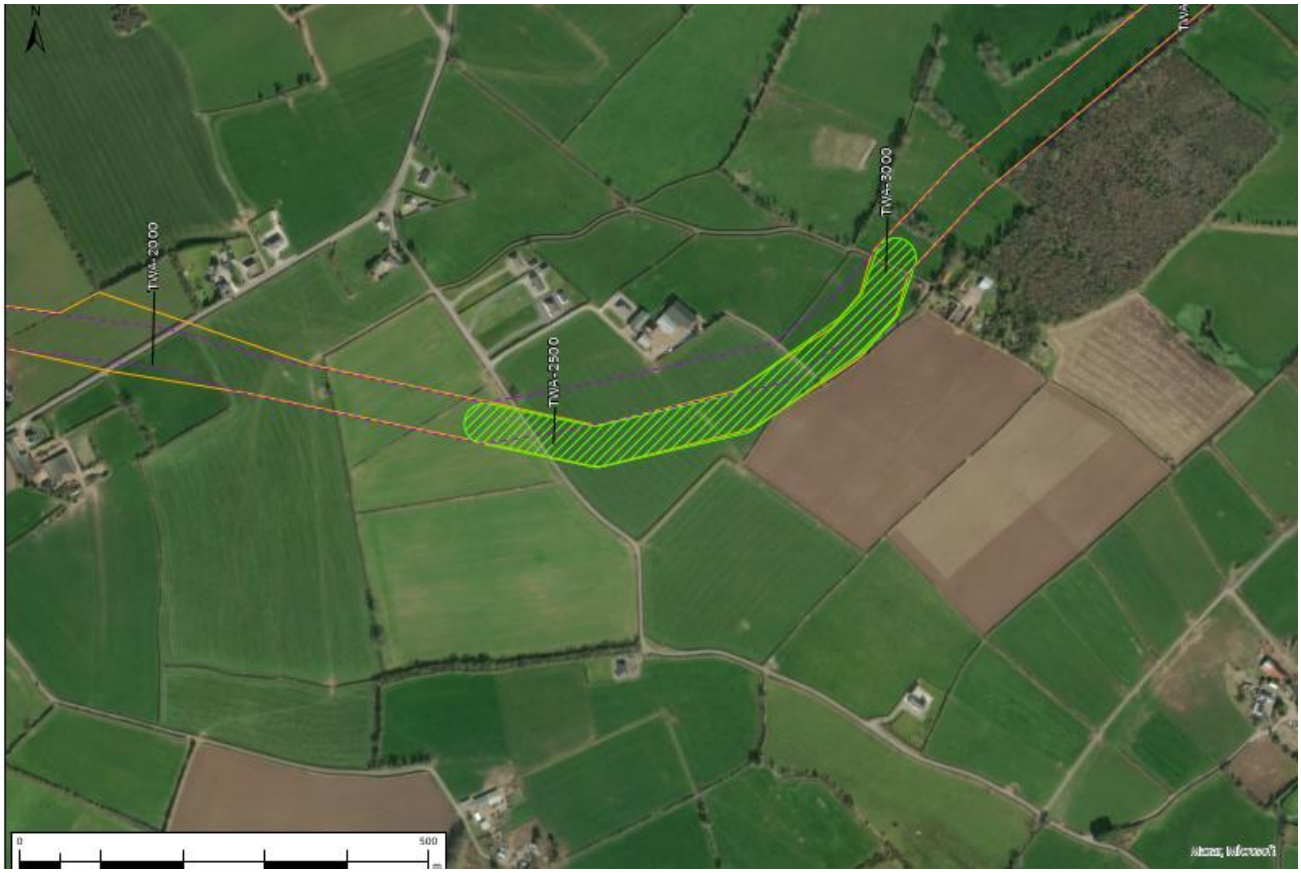


Image 4.12: Example of a landowner-requested re-route that was facilitated

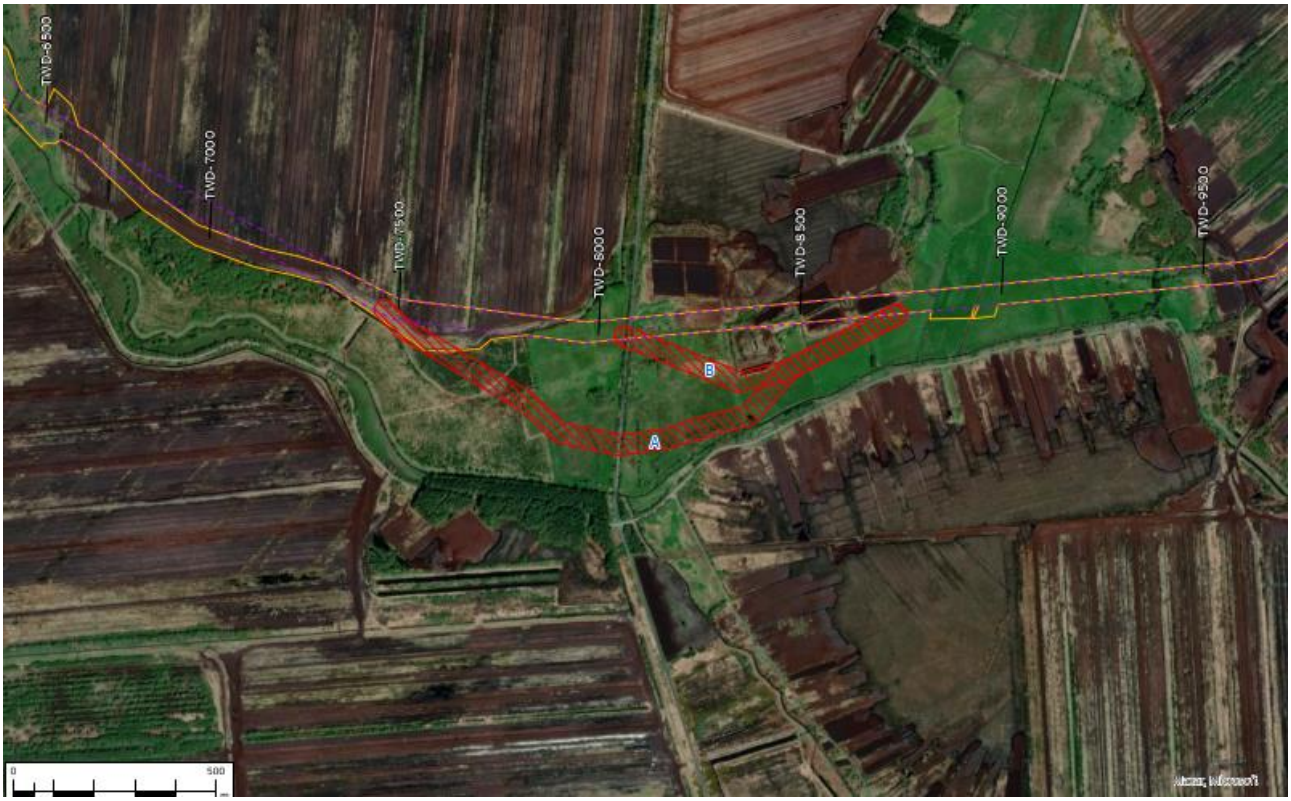


Image 4.13: Example of a landowner-requested re-route that was not facilitated

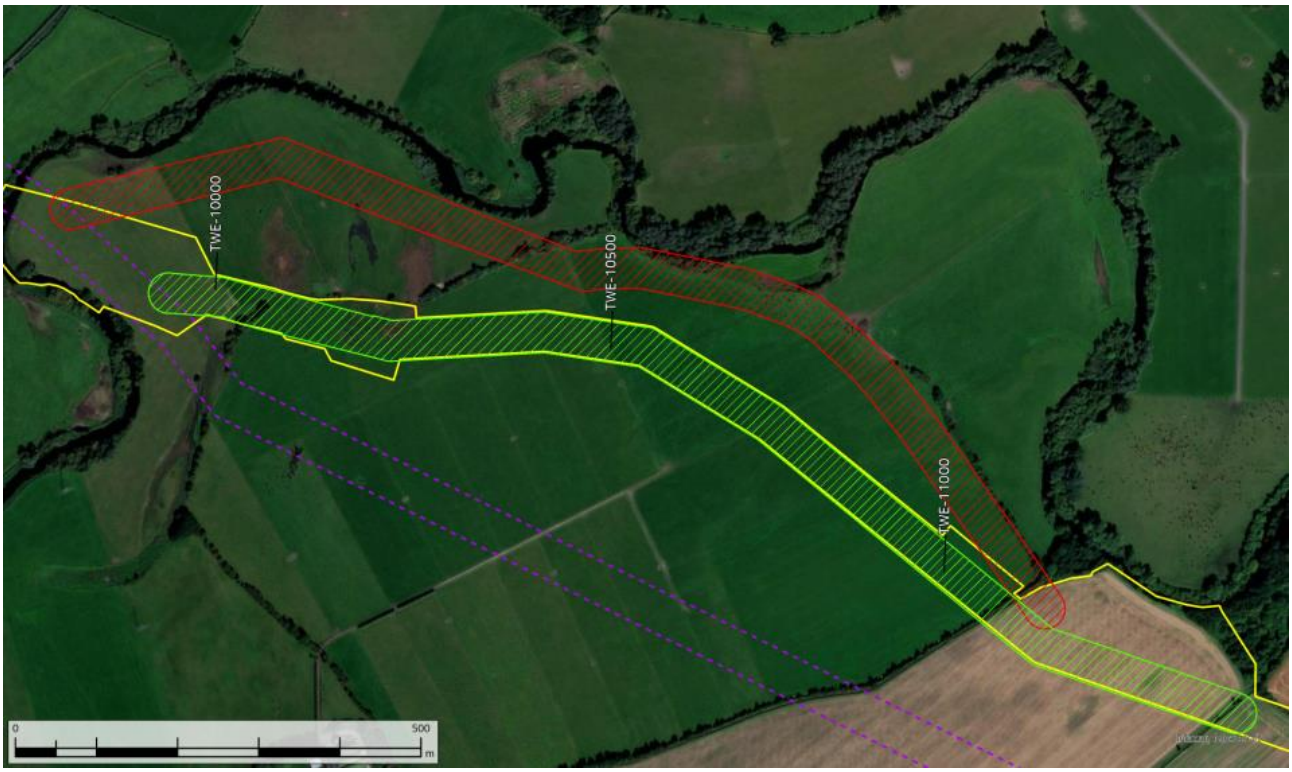


Image 4.14: Example of a landowner-requested re-route partially facilitated to reduce impact on paddocks



Image 4.15: Example of a technical re-route facilitated to reduce the impact on rehabilitated peat bog

5. Route Development Example – Ardcrony / Ballythomas

181. Section 4 set out the steps taken and principles employed, in developing the pipeline route between Parteen Basin (County Tipperary) and Peamount (County Dublin).

5.1 Steps 1 to 5

182. For demonstration purposes, an example has been taken to show how these steps informed the identification of a least constrained route for one particular section. The chosen example is in the Ardcrony and Ballythomas areas, west County Tipperary, which is an area noted for its high density of cultural heritage and sensitive habitats. This example has been included as the area was heavily constrained and involved extensive landowner engagement to arrive at the final proposed route.

183. The selection of the proposed route through the Ardcrony and Ballythomas areas is described in the following Sections.

5.1.1 Steps 1 and 2 – Ardcrony/Ballythomas

184. As part of the constraints process, a number of 2km wide route corridors were developed and through the process of assessing these corridors, a 'least constrained' route corridor was identified, as shown in 'red' on Image 5.1.

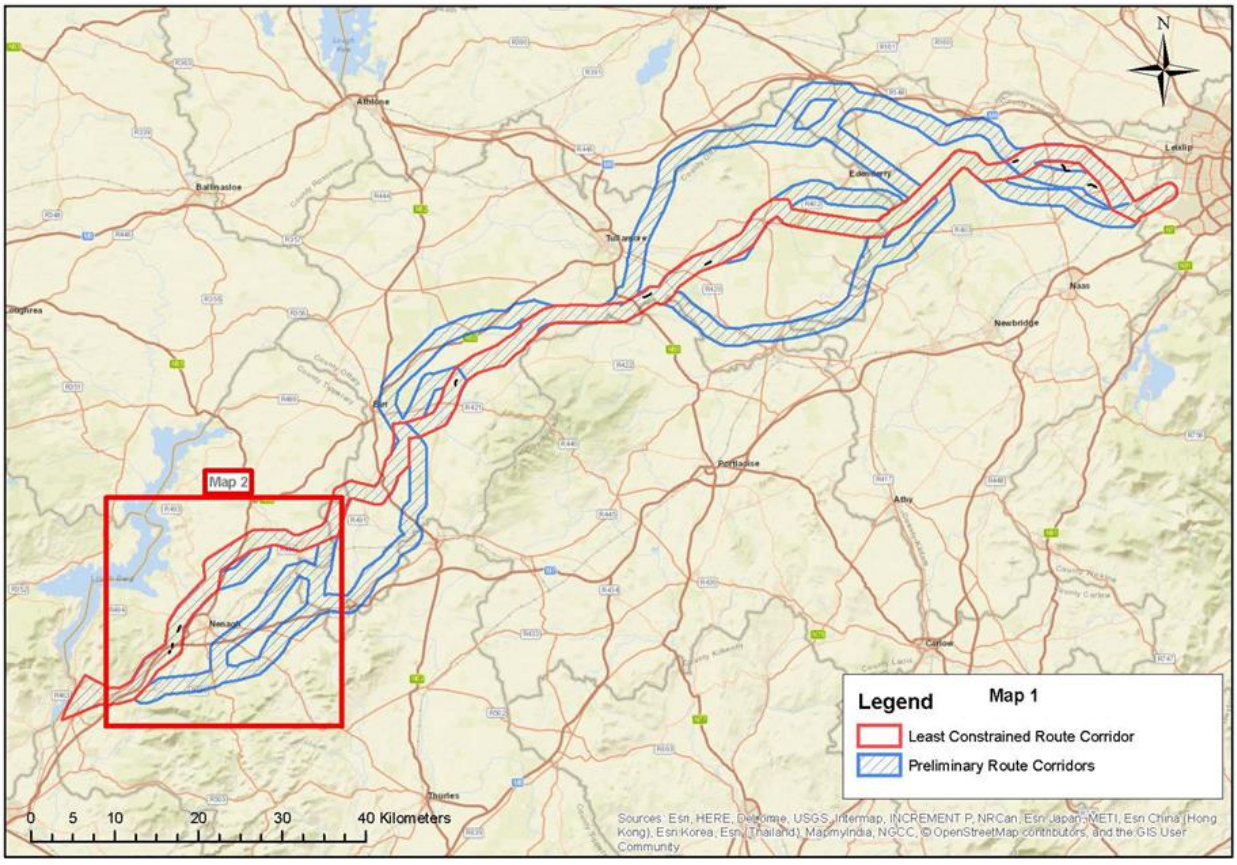


Image 5.1: Corridor Options and Least Constrained Corridor

185. Route corridors to the north and south of Nenagh, County Tipperary were considered, as shown in Image 5.2. The route corridor located to the north of Nenagh, emerged as a route of 'least constraint'. This corridor is located in the vicinity of Ballythomas/Ardcrony.

186. There were a number of constraint factors that determined the 'least constrained' route corridor; they included:

- Identified historical mine area at Kilnacranna
- A lesser number of national monuments, shown as 'red dots' on Image 5.2
- Rock and extreme groundwater vulnerability areas, shown in 'amber'.

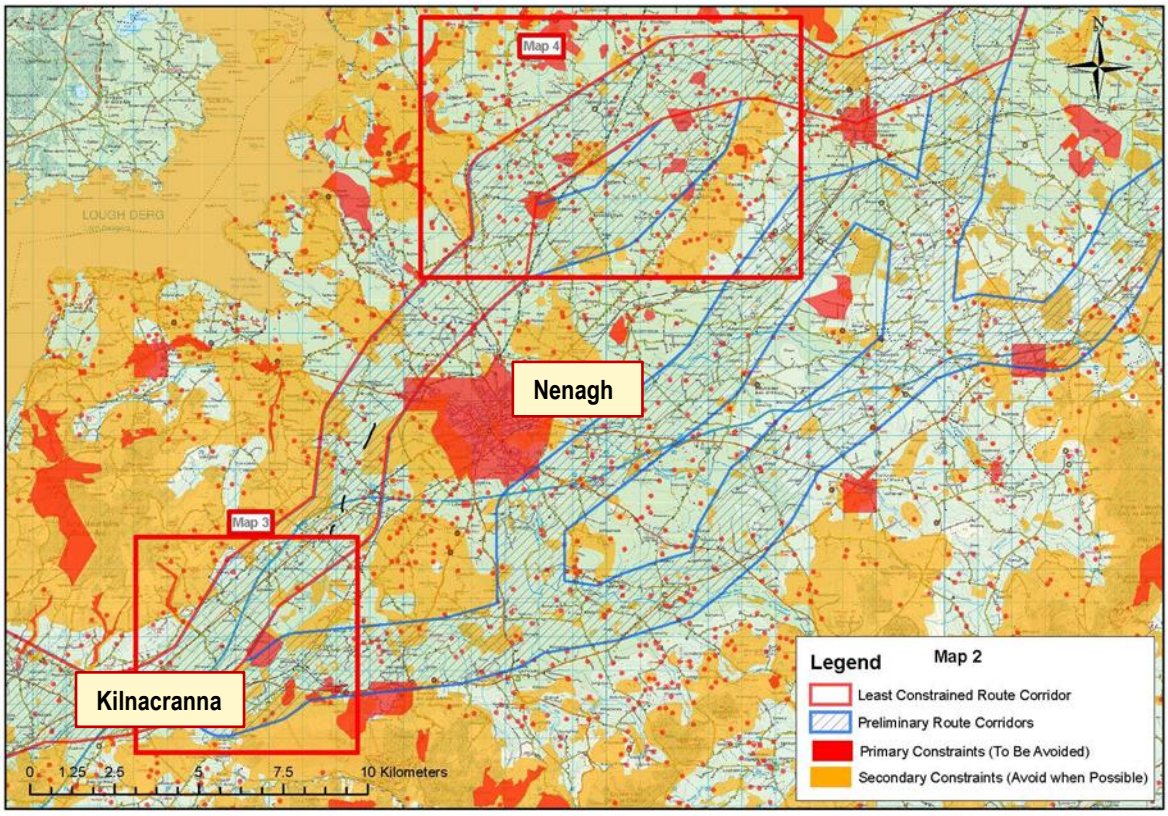


Image 5.2: Corridor Options and Least Constrained Corridor in Nenagh Area

187. The divergence, north and south, of Nenagh takes place near Kilnacranna, as shown in Image 5.3. A key constraint influencing the divergence at this location was the identified area of mining, along with the number of national monuments having archaeological importance. Further details on the route selection process at this location can be found within the published POAR (Irish Water 2015c), as previously outlined.

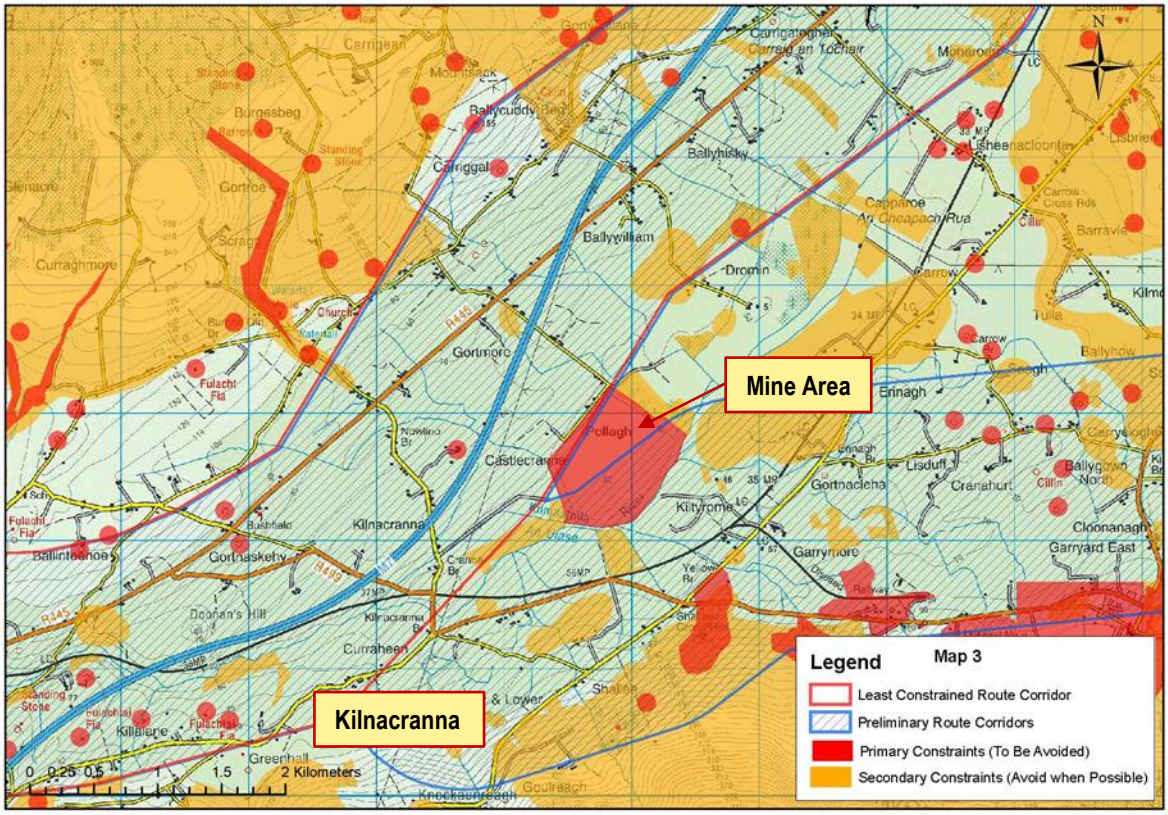


Image 5.3: Corridor Options and Least Constrained Corridor at Kilnacranna

188. Further northwards, the route corridor encountered a divergence point at Lough Eorna (near Ashley Park). At this location, the corridor could be routed either towards Ballylusky townland via Ballythomas (north of Ardcrony) or Coolderry (south of Ardcrony), as shown in Image 5.4. Potential effects on a number of ecological sites were considered, including:

- Lough Eorna (fen/wetland) and the potential Turlough at Ardcrony
- A number of potential esker grassland features
- Areas of discrete semi-natural woodland, bog woodland, scrub and fens
- Winter bird site at Coolderry/Ballylusky.

189. Following an assessment by a range of specialists on the diverging route corridors, it was established that all the potential environmental impacts, including ecology were similar for both routes and that the decision relied on the engineering considerations of pipeline routing. The northern corridor had the least potential for encountering ground where construction would be difficult, was more favourably accessed from secondary roads along its route and had the greater potential for avoiding areas prone to flooding.

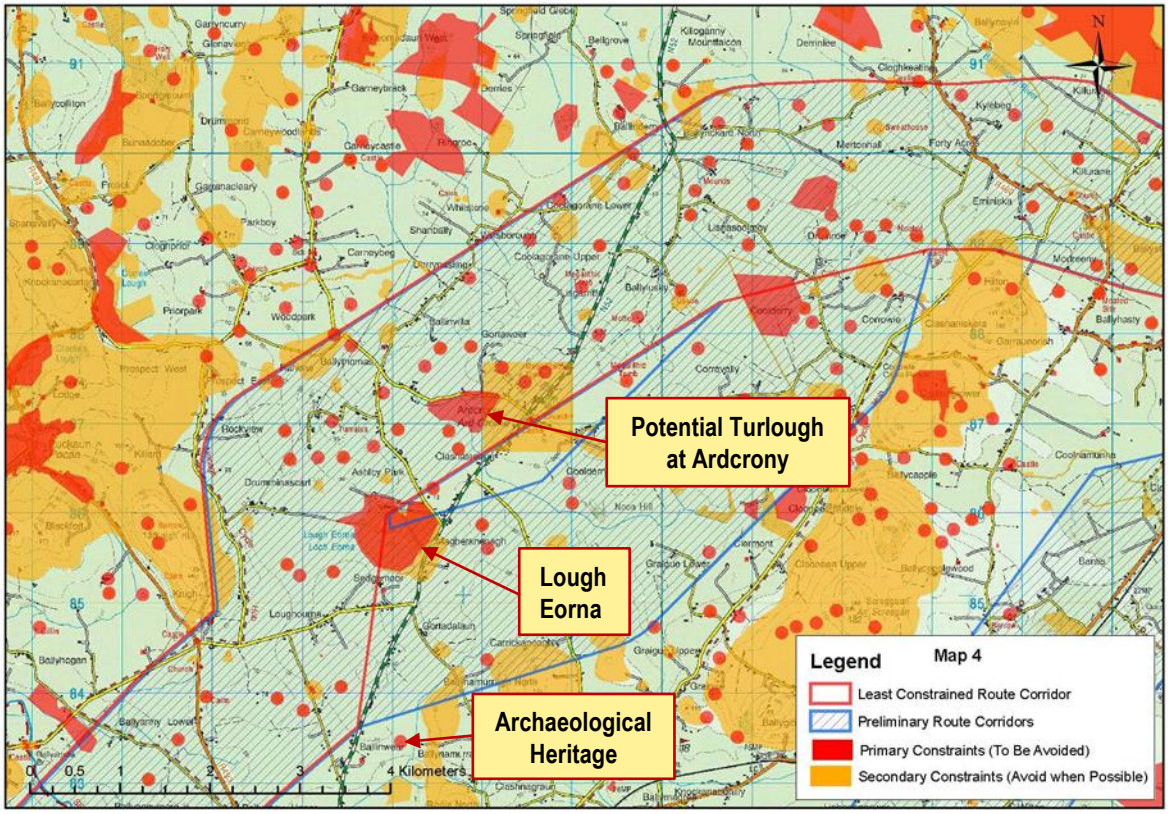


Image 5.4: Corridor Options and Least Constrained Corridor at Ballythomas / Ardcrony

5.1.2 Step 3 - Ardcrony/Ballythomas

190. During the POAR public consultation, no feedback was received in relation to the route corridor at Kilnacranna or Lough Eorna. Consequently, the 'Preferred Route Corridor' (generally 2km) was established through the Ardcrony/Ballythomas area.

5.1.3 Steps 4 and 5 - Ardcrony/Ballythomas

191. This next stage involved a refinement of the 'Preferred Route Corridor,' (generally 2km), to identify the initial position for a 'Preliminary 200m Pipeline Corridor.' This was followed up with visual surveys from the public road and field surveys, undertaken by the specialists as part of the process of confirmation, repositioning and refining the 200m corridor, with the final corridor shown in Image 5.5. This dynamic assessment process identified further constraints which had to be accommodated, including:

- An undocumented potential turlough
- Archaeological heritage features in an updated Record of Monuments and Places (RMP) database.

192. With regard to the foregoing various surveys and further specialist assessments, the alignment of the 'Preliminary 200m Pipeline Corridor' had evolved by the time it was published, as the 'Preferred 200m Pipeline Corridor,' for consultation, see Annex C.

193. A further step taken in the FOAR (Irish Water 2016) was to identify an 'Indicative 50m Pipeline Corridor' within the 'Preferred 200m Pipeline Corridor.' The assessment process applied to this step was identical to the process applied to identify the 200m corridor within the 2km corridor but was applied at a higher resolution. For example, the proximity to existing properties informed the 'threading' of a viable 50m pipeline corridor. A 40m buffer had been applied to the Geo-directory coordinate position.

194. The collective knowledge from the desk-based constraint mapping, supported by field surveys, facilitated the identification of a 'Preferred 200m Pipeline Corridor,' incorporating an 'Indicative 50m Pipeline Corridor.' See Annex D.

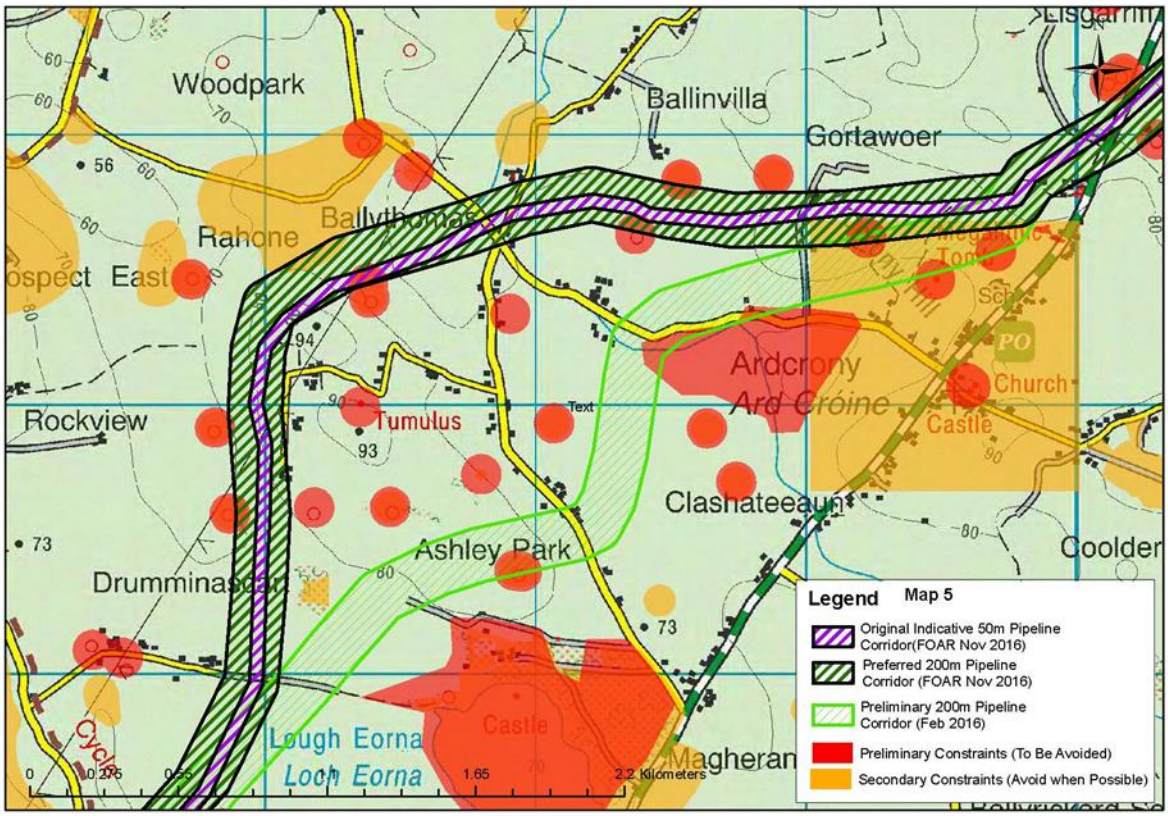


Image 5.5: Least Constrained Corridor at Ballythomas/Ardcrony

5.1.4 Post FOAR - Ardcrony/Ballythomas

195. Upon completion of the FOAR public consultation, including feedback from landowners in the Ardcrony/ Ballythomas area and a submission from an independent hydrogeologist concerning the impacts to a karst drainage system and associated surface karst features, several further hydrogeology, hydrology, ecology and geotechnical ground investigations were conducted.

196. In recognition of the further constraints identified through the investigations, the 50m corridor was adjusted as identified in 'blue' on Image 5.6. The adjustment was attributed to avoidance or accommodation of the following constraints:

- Feature identified in Ballythomas as possibly representing a turlough
- Overhead high voltage ESB power line
- Archaeological heritage features, in the updated RMP database.

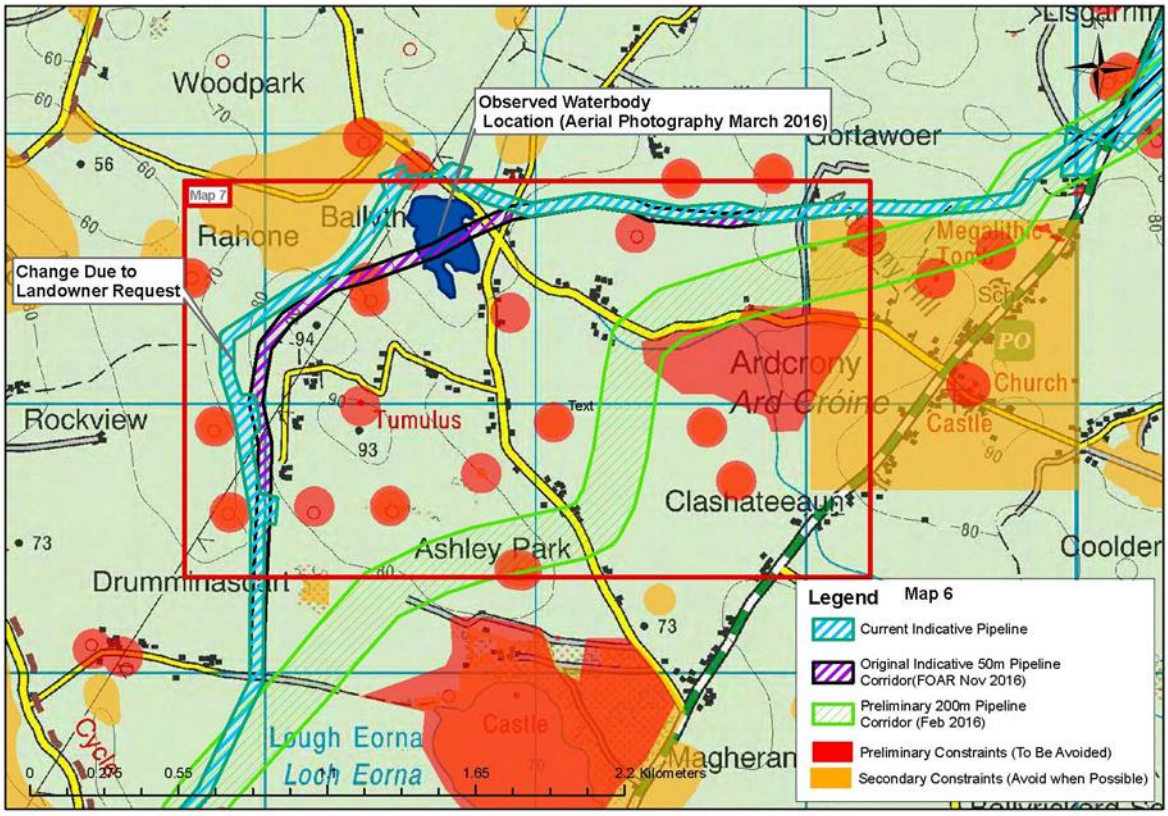


Image 5.6: Indicative 50m Pipeline Corridor at Ballythomas/Ardcrony

197. The 'Indicative 50m Pipeline Corridor' as identified in Image 5.7, avoided the feature representing a potential turlough, the ESB pylon and the archaeological site (fulacht fiadh). However, it was recognised that the route corridor lies in close proximity to the fulacht fiadh.

198. Due to the proximity to an existing ESB pylon and the crossing of the existing ESB high voltage power line, a section of the pipeline may be laid using a trenchless method such as tunnelling. The working area will be constrained to 20m instead of 50m to minimise the construction impact and vehicle movements. A trenchless method of construction will also mitigate against the impact on the fulacht fiadh.

199. To facilitate the trenchless crossing the Construction Working Width has been increased beyond the Indicative 50m corridor to allow for the additional equipment and materials required.

200. Image 5.7 and 5.8 show the land owner request that was facilitated, the reduction in the working width for the trenchless method and the extended construction working width at either end of the trenchless section.

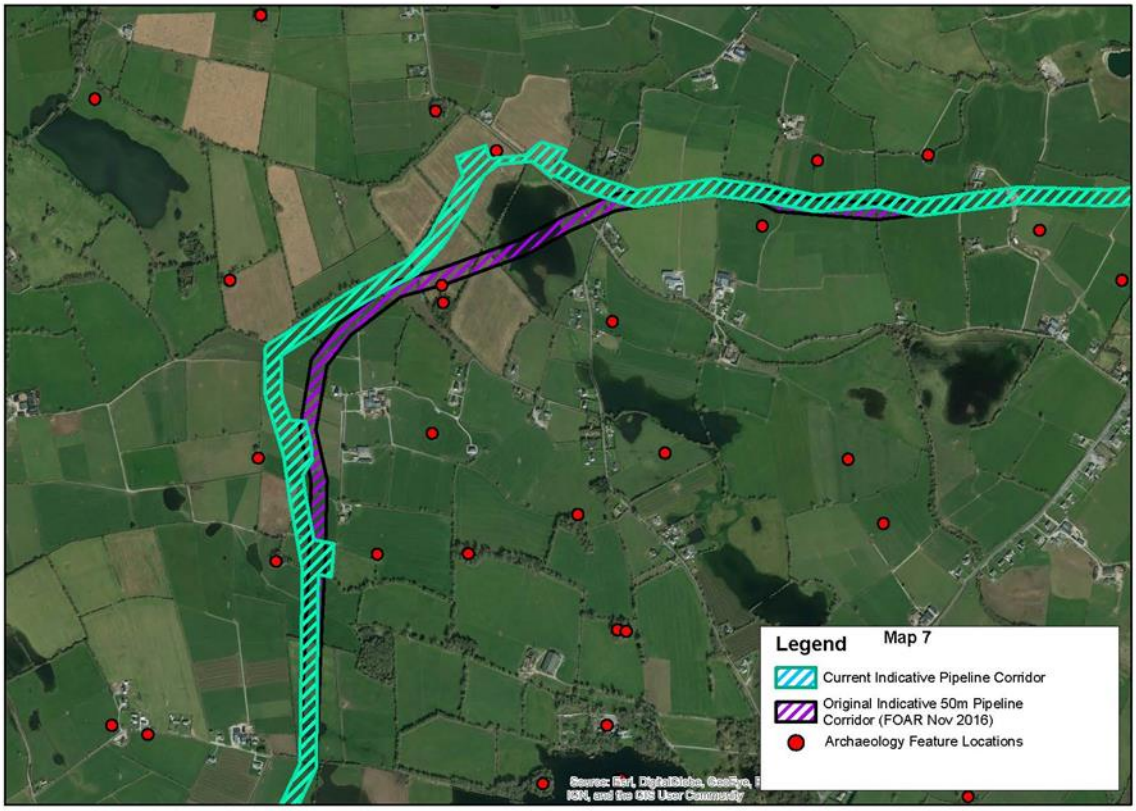


Image 5.7: Indicative 50m Pipeline Corridor at Ballythomas/Ardcrony - Routed to avoid Potential Turlough



Image 5.8: Construction Working Width and Facilitated Re-route at Ballythomas/Ardcrony

6. Conclusion

6.1 Conclusion

201. As demonstrated through this report, a rigorous and well documented decision-making process was implemented to identify the optimum route for all new infrastructure between the Abstraction Point at Parteen Basin in County Tipperary, west to east across the Midlands to the proposed Termination Point in Dublin which is consistent with the recommendations of the Eastern and Midlands Plan (Irish Water 2022).

202. The Proposed Project is a water supply project involving the abstraction and pumping of raw water from the Lower River Shannon at Parteen Basin, treatment of the water nearby at Birdhill, County Tipperary, and pumping of the treated water to a high point near Cloughjordan, County Tipperary. From this high point near Cloughjordan, the treated water will flow by gravity through the Midlands to a termination point at Peamount, in County Dublin (within the administrative area of South Dublin County Council), where it will connect into the existing Greater Dublin Area Water Resource Zone (GDA WRZ) network. The pipeline elements of the Proposed Project include the administrative area of four local authorities; Tipperary County Council, Offaly County Council, Kildare County Council and South Dublin County Council.

203. The Proposed Project itself constitutes sustainable development, supports sustainable development and is in the community interest. It will meet the domestic, commercial and Industrial needs of over 50% of Ireland’s population into the medium to long-term future (to 2050).

7. References

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Tionscadal Soláthair Uisce
Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1 Annex A) Water Supply OWP, Cumulative Constraints and White Space Boundary

Document no: 32105801/EIARA3.1
Version: Final

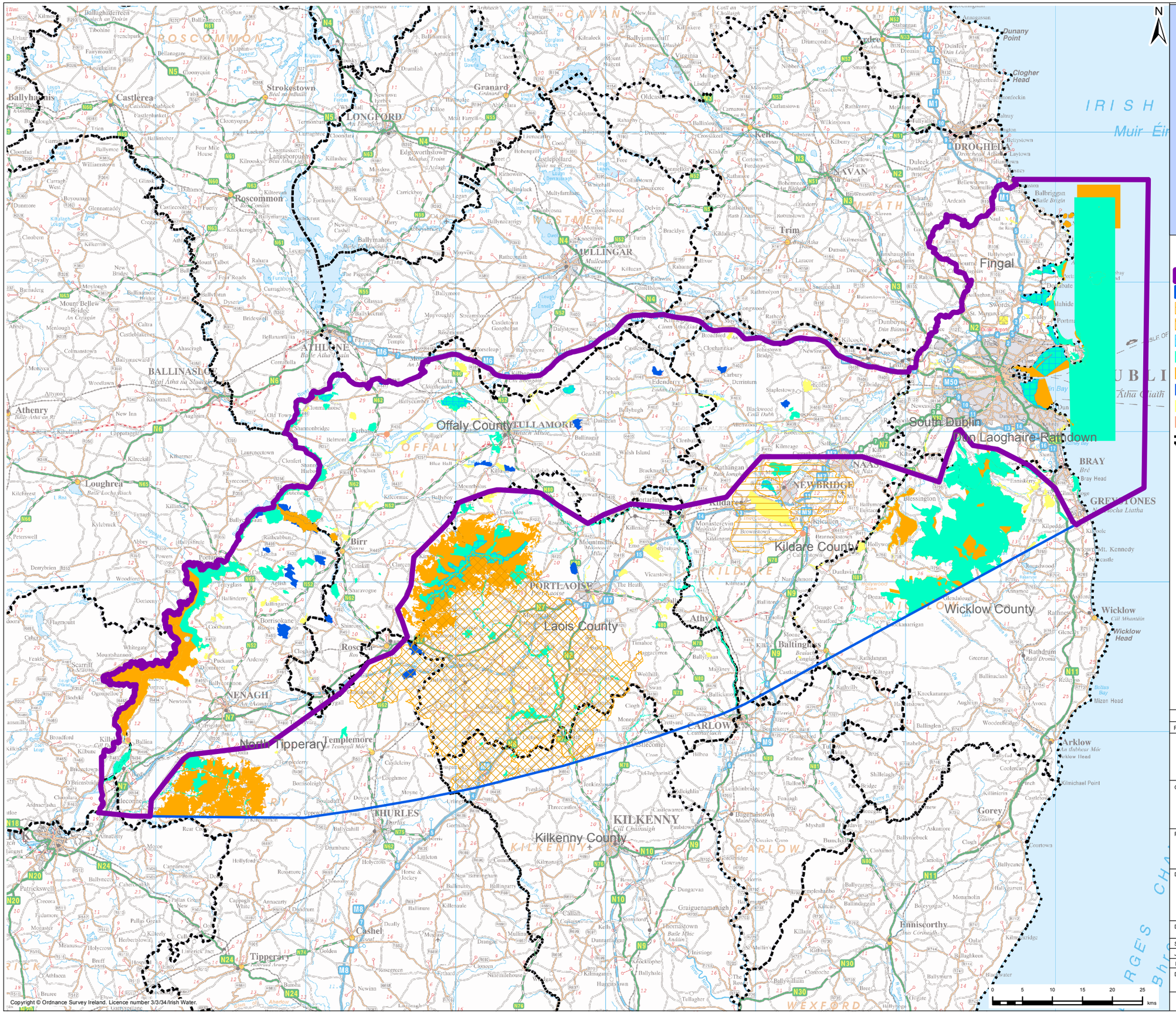
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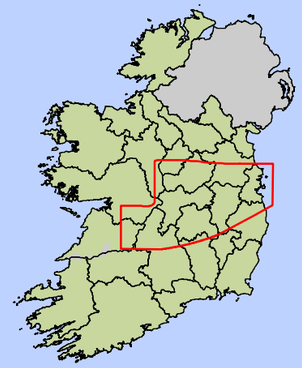
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Key

- White Space Boundary
- Refined Study Area
- Curragh Aquifer and Pollardstown Fen
- Pearl Mussels Catchment
- Ramsar Sites
- Special Area of Conservation
- Special Protection Area
- Natural Heritage Area
- Proposed Natural Heritage Area
- Unesco Sites
- Counties

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	22/05/2015	Created to illustrate constraints	PW	PMcG	PMcG	MG

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Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Cumulative Constraints with White Space Boundary

Drawing Status: **Issued**

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Drawing No.	32105801-1011		

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Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1 Annex B) FOAR, Least Constrained and Preliminary 200m Pipeline Corridor

Document no: 32105801/EIARA3.1
Version: Final

December 2025

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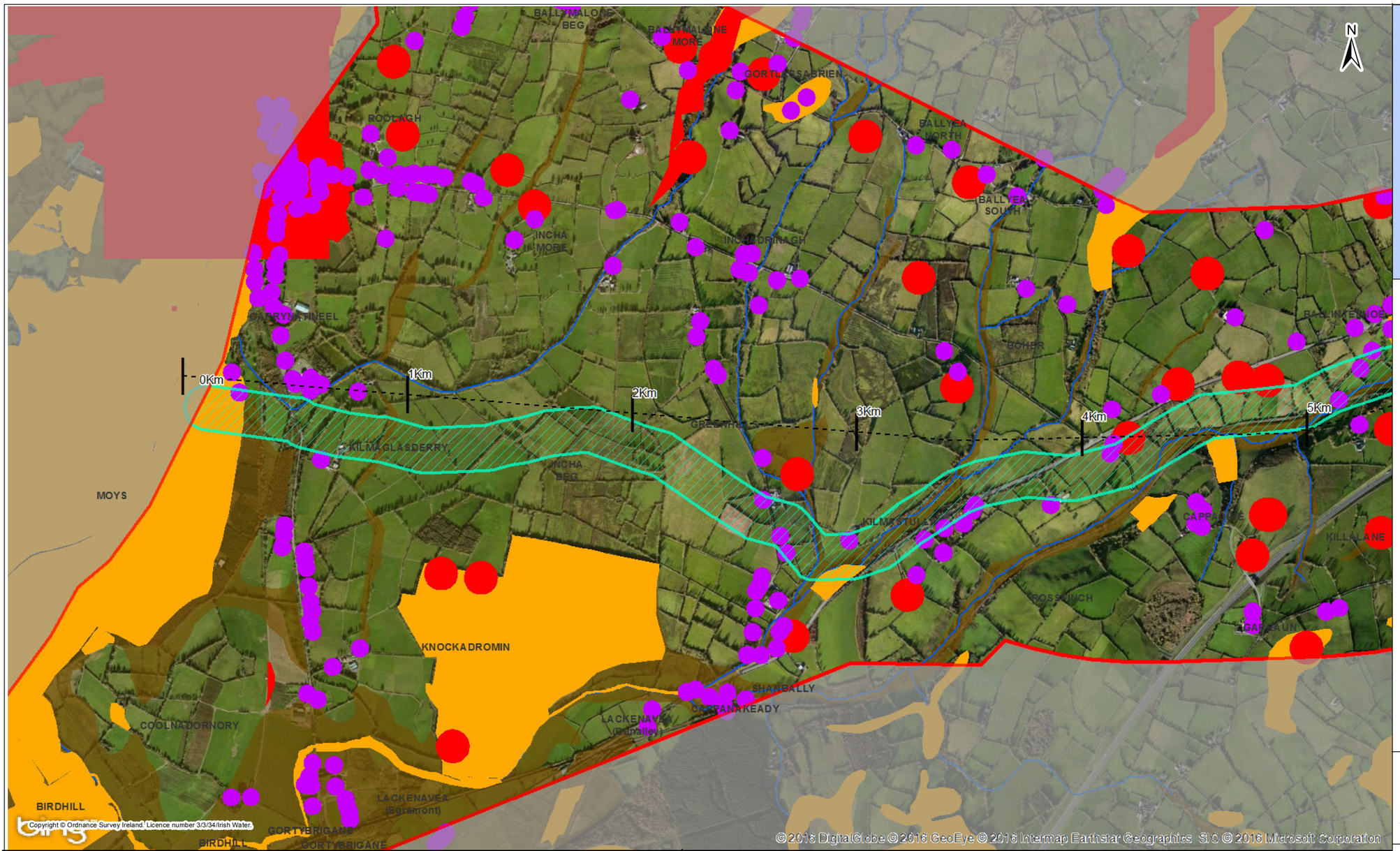
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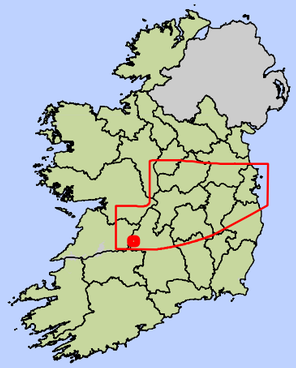
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Annex B: Least Constrained Route Corridor (generally 2km) & Preliminary 200m Pipeline Corridor

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

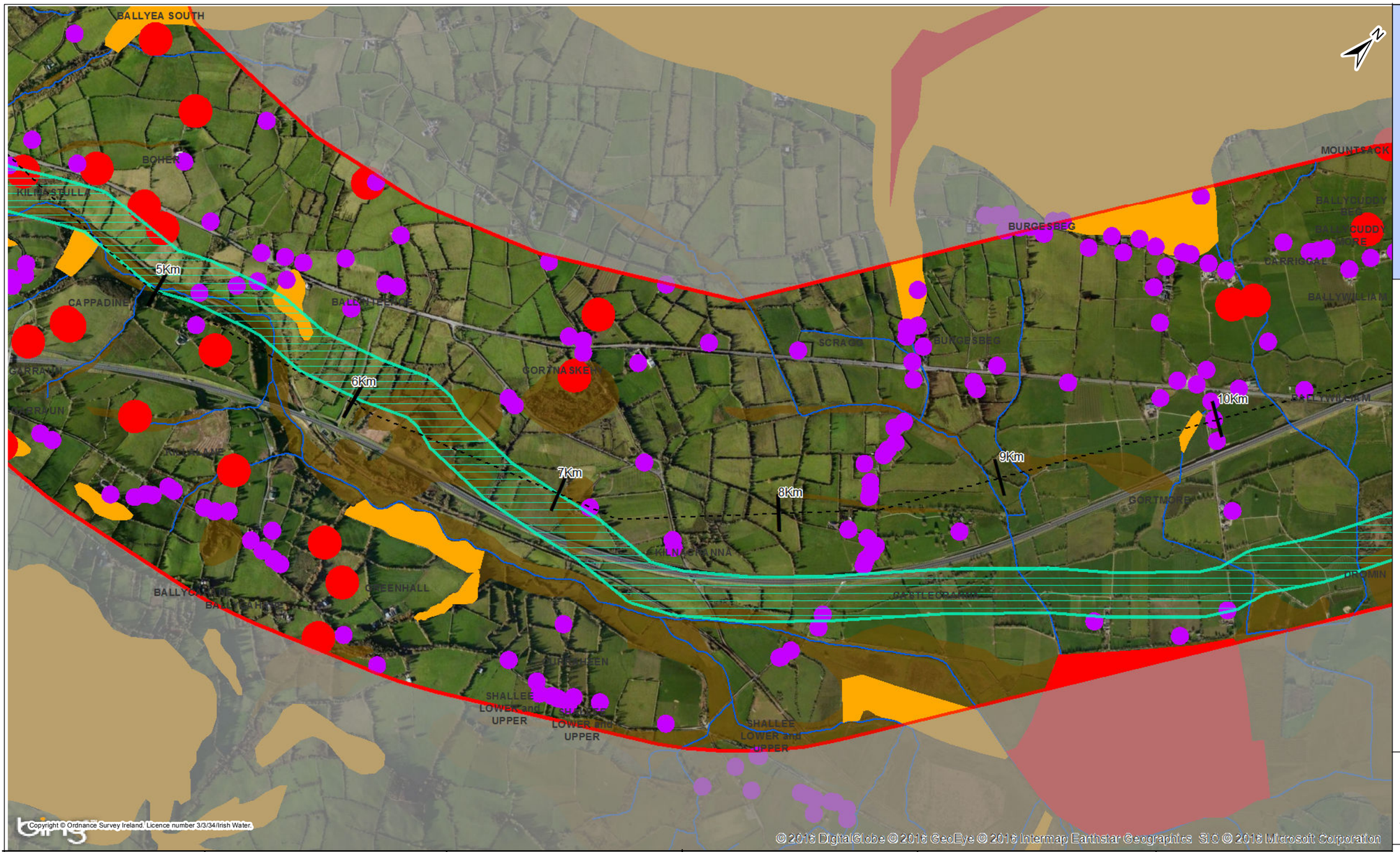
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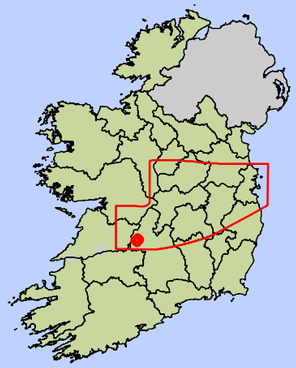
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Drawing No.: 32105801-FOAR-001

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	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





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 5 to 10 km

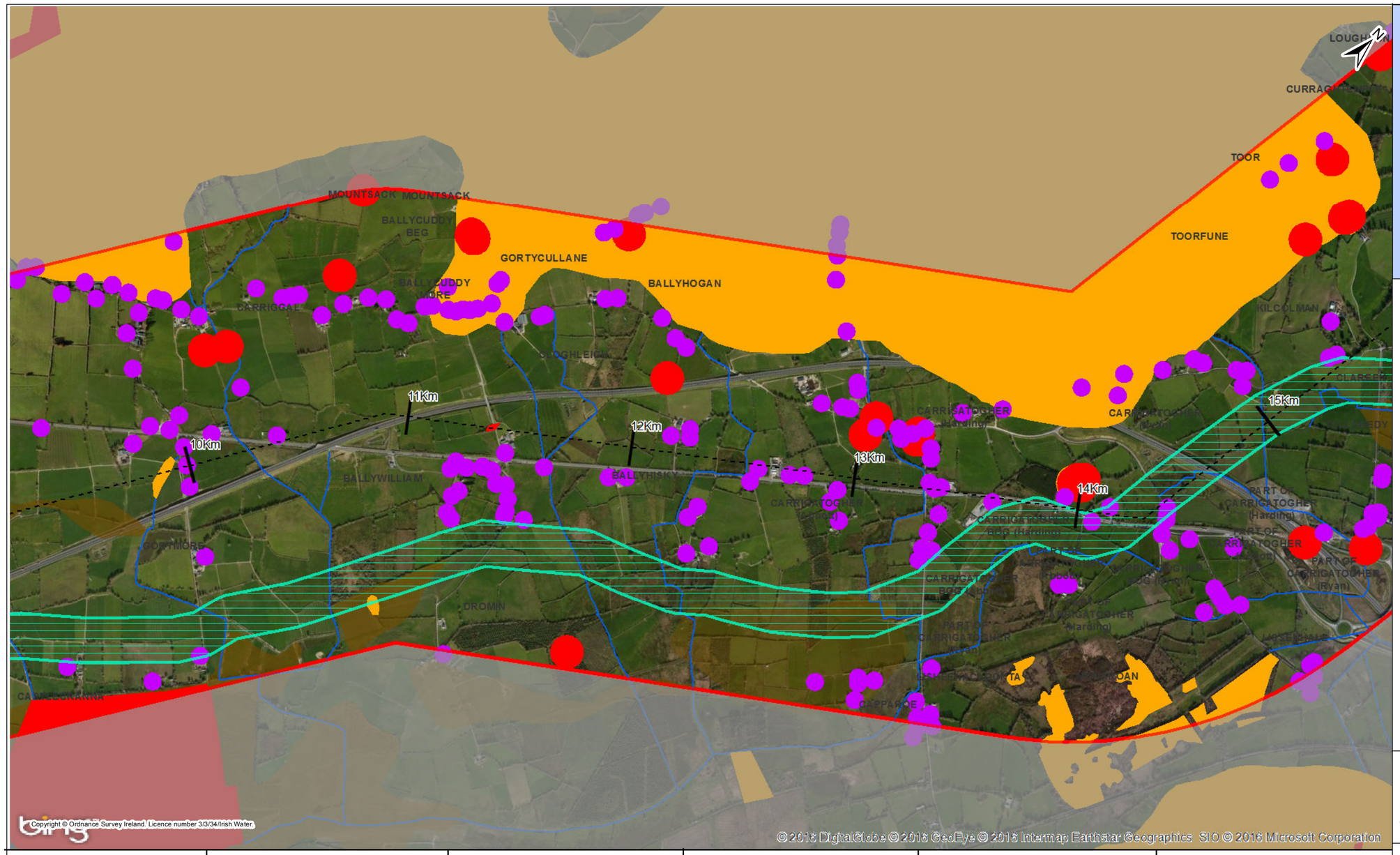
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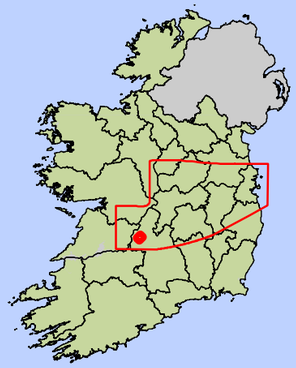
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Drawing No.: 32105801-FOAR-002

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	5 to 6 km	6 to 7 km	7 to 8 km	8 to 9 km	9 to 10 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - National Monument - Poor ground (Alluvium) - River Killalane - Local Stream - R445 regional road - M7 motorway - National rail line	- Properties - National Monuments - Forestry - Poor ground (Alluvium) - Poor ground (glaciofluvial sands and gravels) - River Kilmastulla - River killalne - R445 & R499 regional road - M7 motorway - National rail line - Designed landscape (demesne)	- Properties - Poor ground (alluvium) - River Gortnaskehy - Forestry - River Burgesbeg Groundwater Vulnerability Rock at or Near Surface or Karst Feature - Groundwater Vulnerabilty Extreme - R445 & R499 regional road - M7 motorway - National rail line - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (Alluvium) - River Burgesbeg - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface - River Ballycuddy Beg - R445 regional road - M7 motorway - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (Alluvium) - Rivers Gortmore - 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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

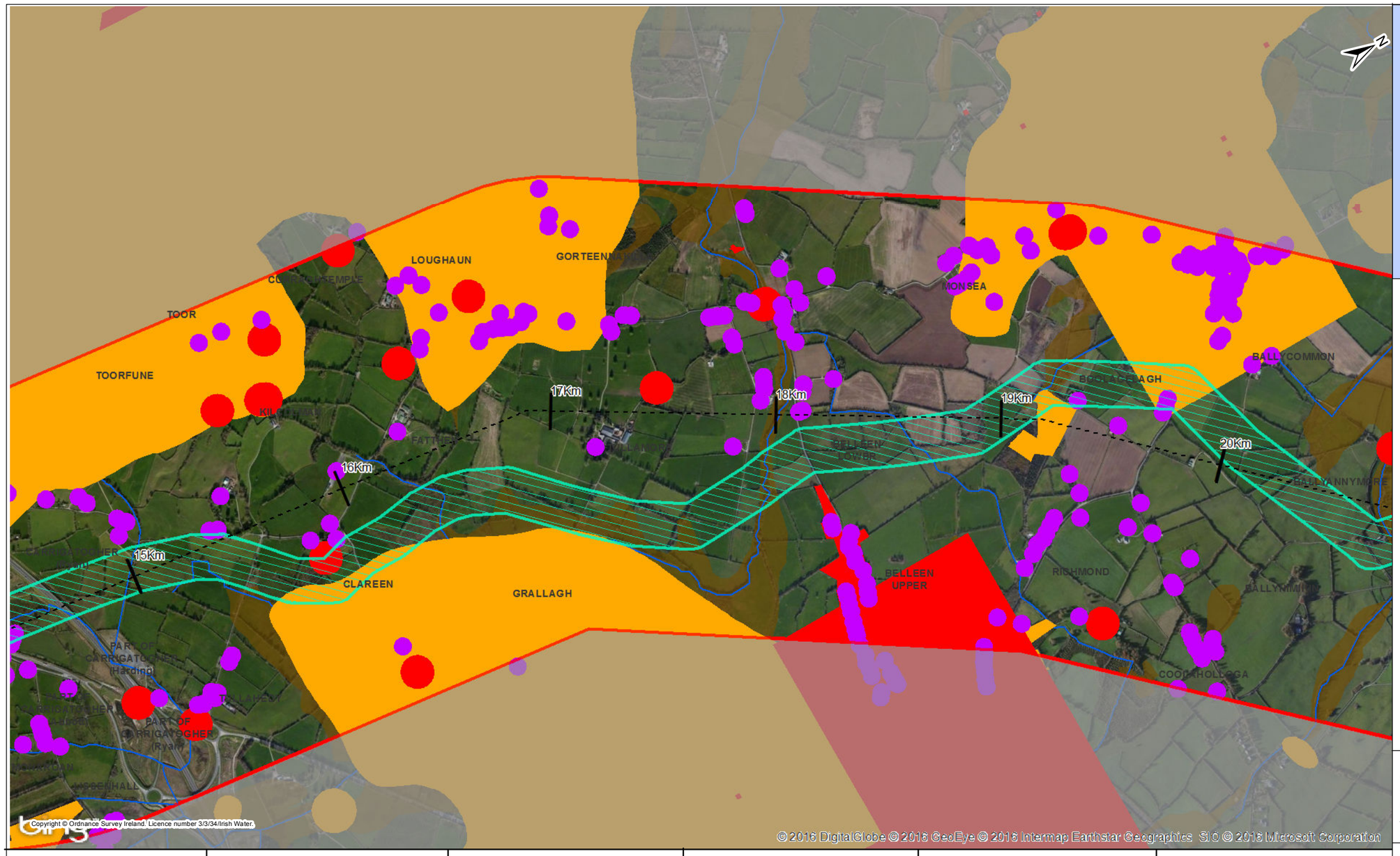
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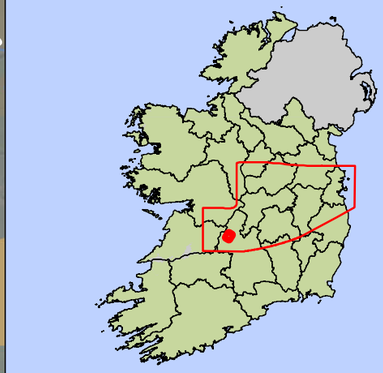
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Drawing No.: 32105801-FOAR-003

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	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 Carriggal - 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 Patrickswelll - 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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 15 to 20 km

Drawing Status: **For Issue**

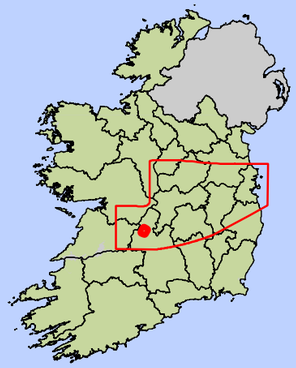
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Drawing No.: 32105801-FOAR-004

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	15 to 16 km	16 to 17 km	17 to 18 km	18 to 19 km	19 to 20 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 Kilcolman - Poor ground (alluvium) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (bog) - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Poor ground (glaciofluvial sands and gravels) - Ardgreganestream - River Fatthen - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (alluvium) - Pits and Quarries - Groundwater Vulnerability Extreme - Ardgreganestream - River Monsea - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - Made ground - Poor ground (alluvium) - Settlements - Nenagh Legal Town and its Environs - Forestry - Groundwater Vulnerability Extreme - River Monsea - Ardgregane Stream - R494 regional road - Designed landscape (demesne)	- Properties - National Monument - Poor ground (bogs) - Poor ground (exposed rock and karst) - Made ground - Poor ground (lake deposits) - Poor ground (alluvium) - Settlements - Protected Structures - Forestry - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Moyroe - Rivers Monsea - Rivers Nenagh - SMR Zone (Archaeology) - R495 regional road





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

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 - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Moyroe - Rivers Nenagh - Rivers Upper Ballyanny - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - National Monumnets - Poor gound (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 Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Additional Habitats - SMR Zone (Archaeology) - Designed landscape (demesne)

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

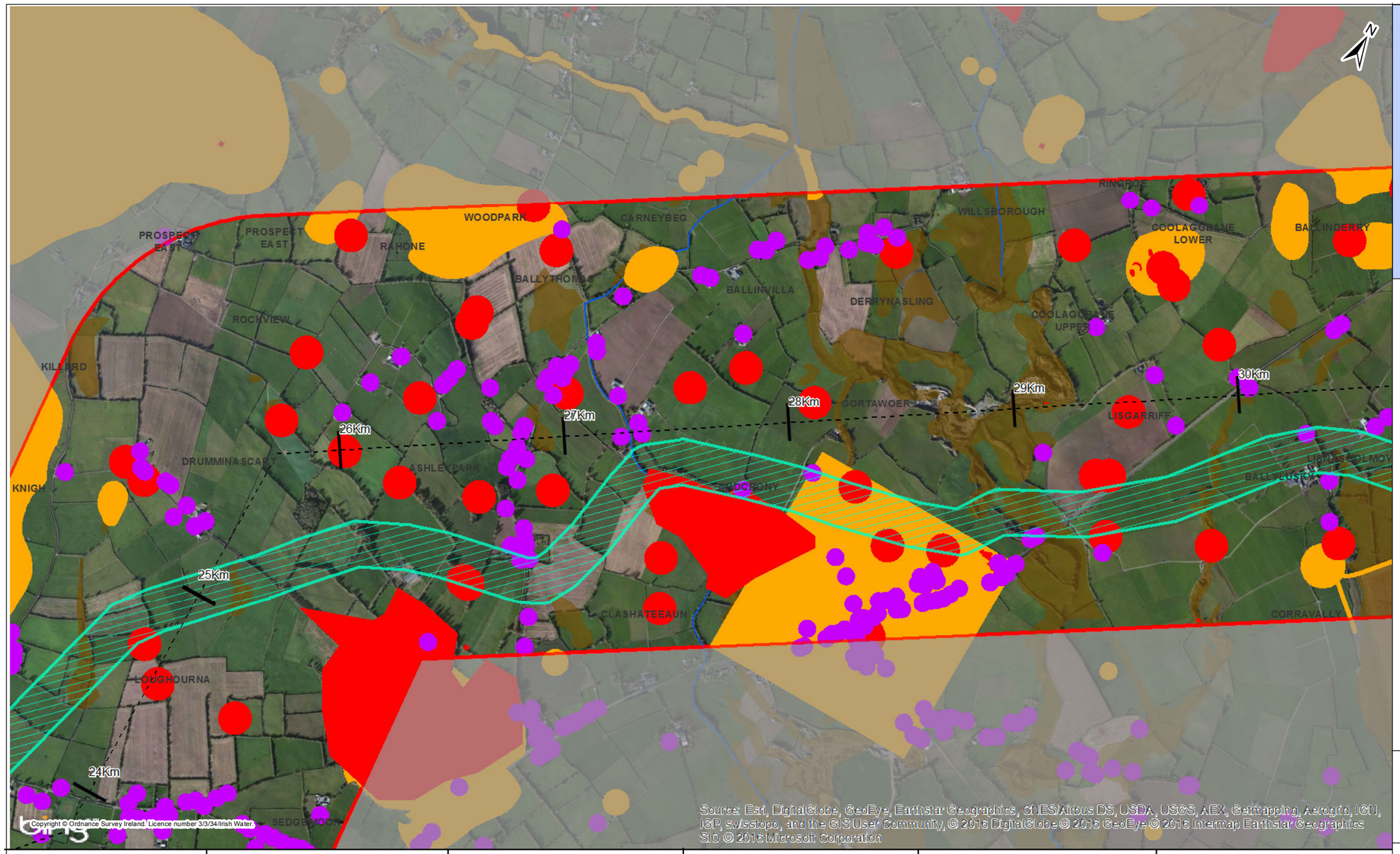
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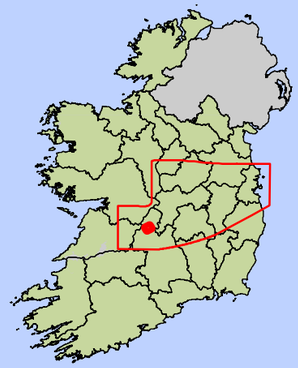
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Drawing No.: 32105801-FOAR-005

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

Chainage	25 to 26 km	26 to 27 km	27 to 28 km	28 to 29 km	29 to 30 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - Lough Ourna - Karst features (incl. sinking streams)	- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - Lough Ourna - Karst features (incl. sinking streams) - Designed landscape (demesne)	- Karst features (incl. sinking streams)	- Karst features (incl. sinking streams) - Designed landscape (demesne)	- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - N52 National Road

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

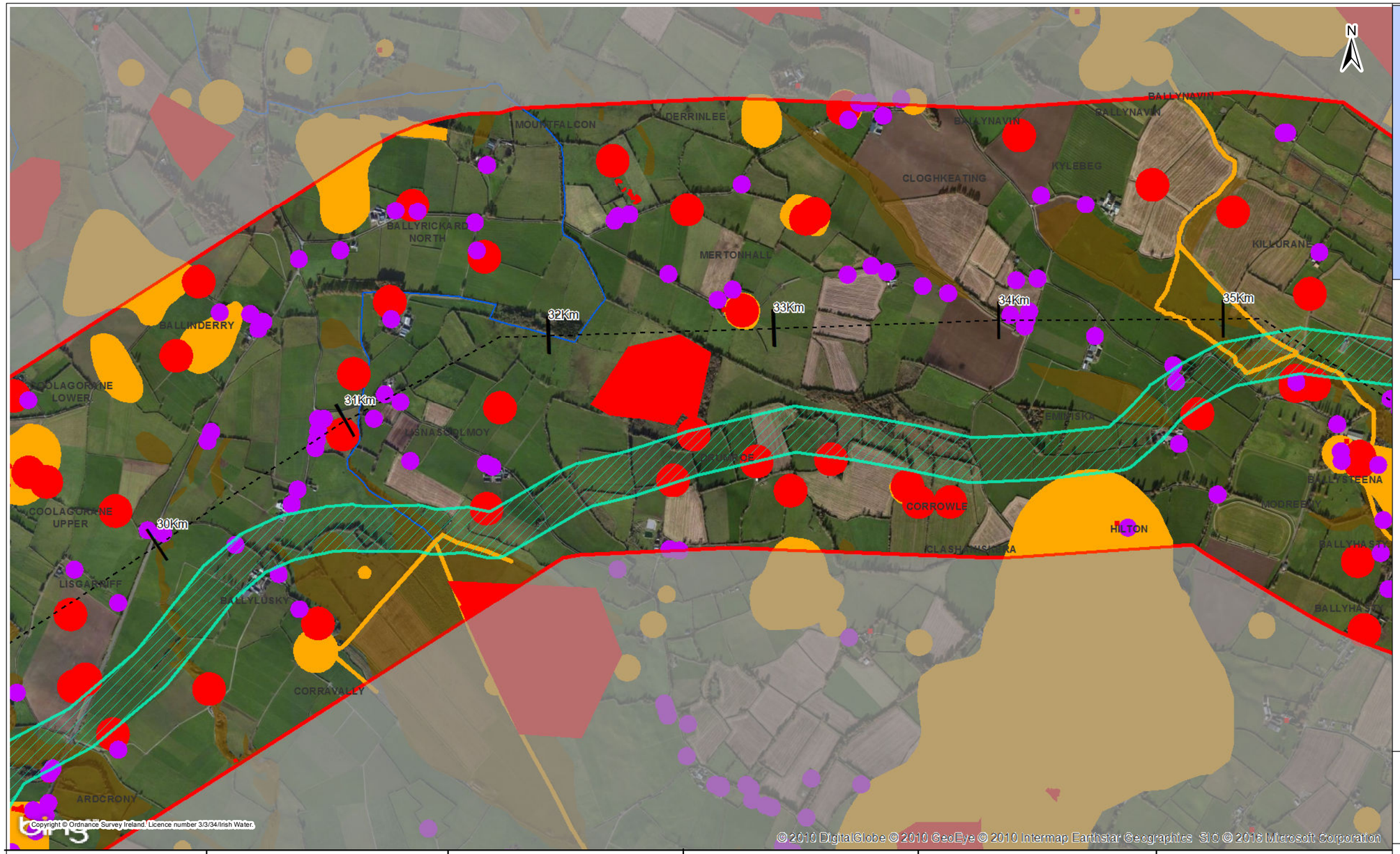
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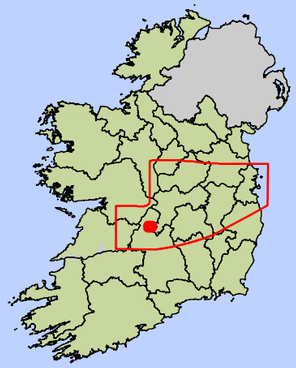
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Drawing No.: 32105801-FOAR-006

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 30 to 35 km

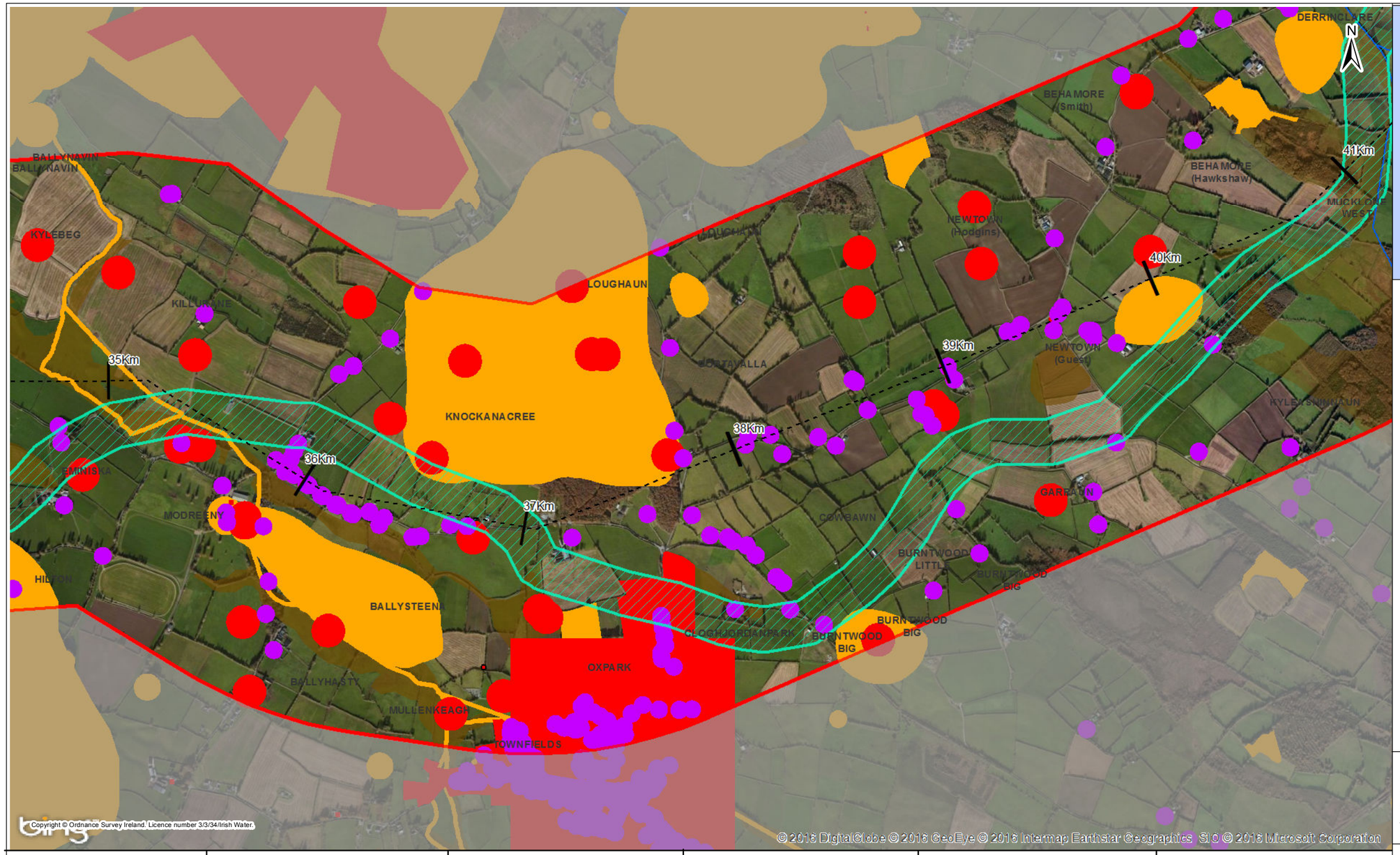
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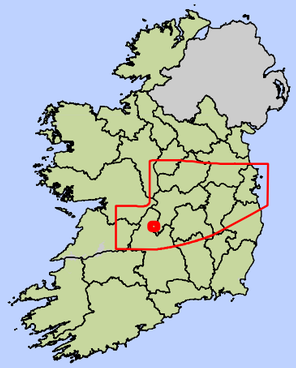
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Drawing No.: 32105801-FOAR-007

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	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 - NationalMonuments - Poor ground (glacifluvialsands and gravels) - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - SMR Zone (Archaeobgy) - Landscapes - Pits and quarries - Forestry - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Corravaly - SMR Zone (Archaeobgy) - N52 NationalRoad - Designed landscape (demesne)	- Properties - NationalMonuments - Poor ground (glacifluvialsands and gravels) - Poor ground (lake deposits) - Poor ground (alluvium) - Landscapes - AddtionalHabtats - Protected structures - Forestry - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature -River Shesheraghmore - River Corravaly - River Lisnasoolmoy - Designed landscape (demesne)	- Properties - NationalMonuments - Poor ground (lake deposits) - Poor ground (bog) - Poor ground (rock and karst) - Poor ground (glacifluvialsands and gravels) - Landscapes - AddtionalHabtats - Pits and quarries - Protected structures - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Sheshersaghmore - Designed landscape (demesne)	- Properties - NationalMonuments -Additonalhabtats - Poor ground (bog) - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Poor ground (alluvium) - Landscapes - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Sheshersaghmore - Designed landscape (demesne)	- Properties - NationalMonuments - Poor ground (peat) - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (glacifluvialsands and gravels) - Landscapes - Protected structures - SMR Zone (Archaeobgy) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Balyfinboy - R490 regionalroad - Designed landscape (demesne)





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN | IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

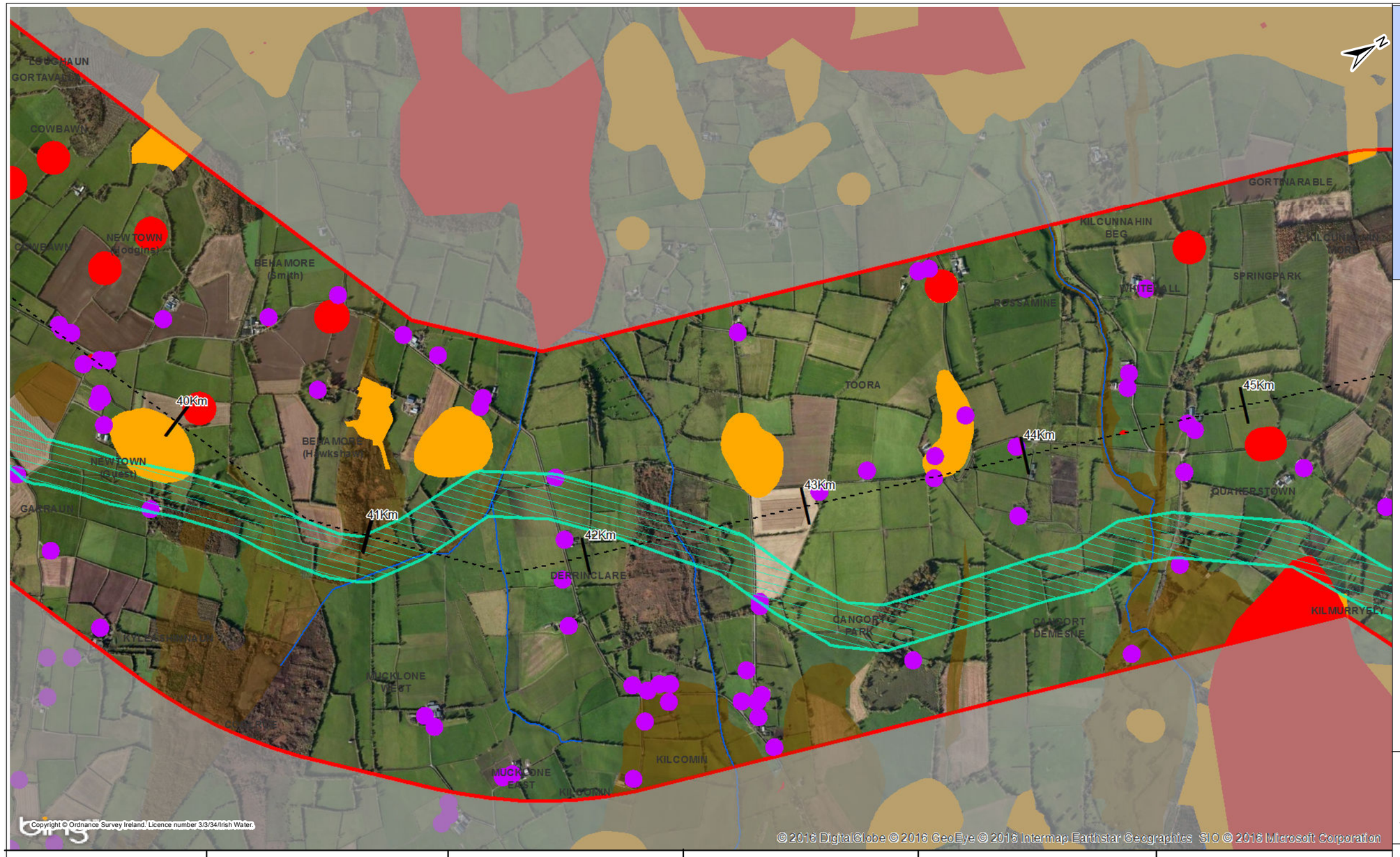
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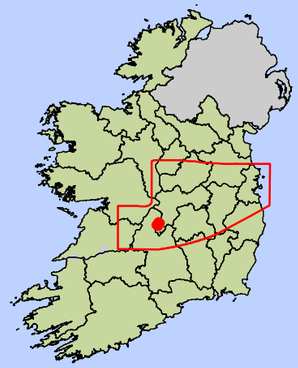
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Drawing No.: 32105801-FOAR-008

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	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 Vulnerabilty Extreme - Designed landscape (demesne)-Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - R491regional road





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN | IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

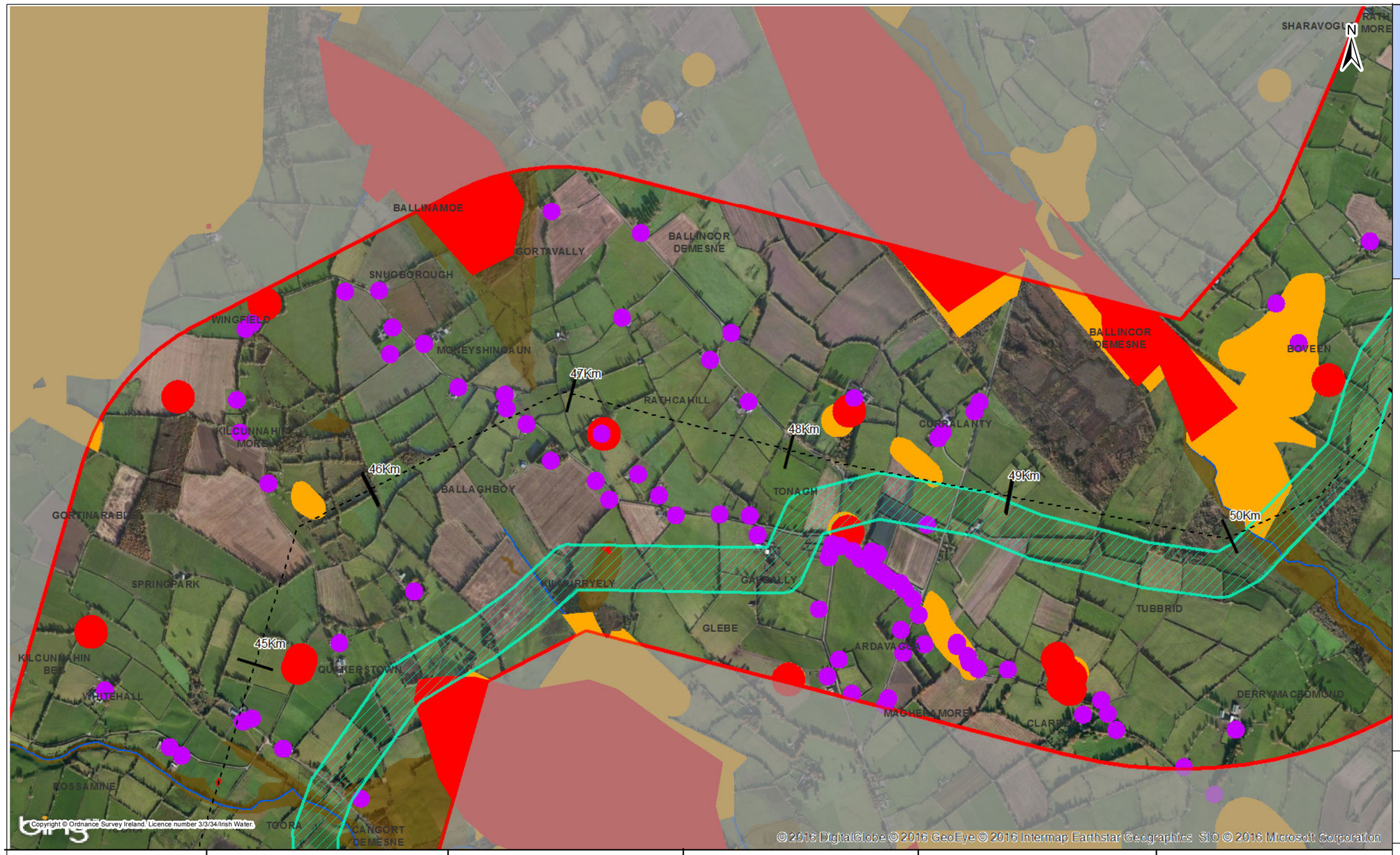
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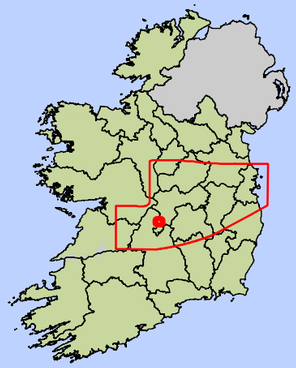
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Drawing No.: 32105801-FOAR-009

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	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 - SMR Zone (Archaeology) - Regional Road (R491) - Poor ground (bogs) - Poor ground (lake deposits) - Poor ground (exposed rock and karst) - Landscapes - Protected structures - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River west mucklone - R491 regional road - Designed landscape (demesne)	- Properties - Poor ground (exposed rock and karst) - Poor ground (bogs) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Derrinclare - River west mucklone - R491 regional road	- Properties - Poor ground (bog) - Poor ground (expost rock and karst) - Poor ground ((glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Derrinclare - River west mucklone - R491 regional road	- Properties - National Monuments - Poor ground (Exposed Rock and Karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Architectural Conservation Area Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (bogs) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscape - Additional Habitats - Pit sand quarries - Woodland habitats - SMR Zone (Archaeology) - Groundwater Vulnerabilty Extreme - Shinrone stream - Designed landscape (demesne)





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

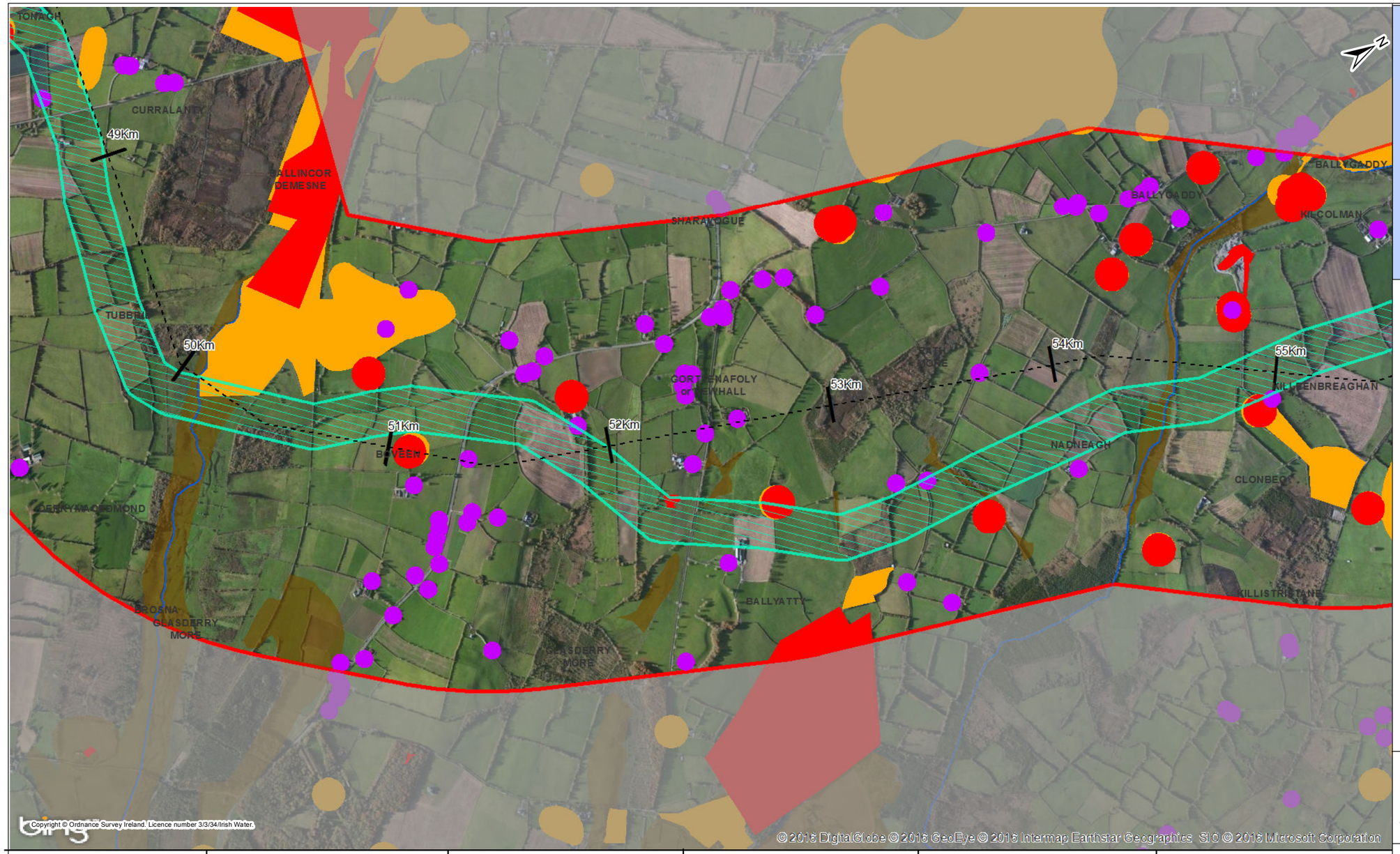
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 45 to 50 km

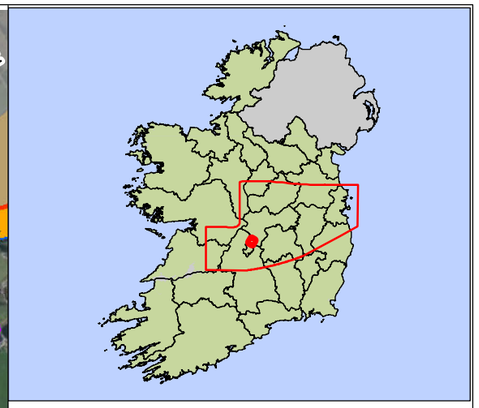
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Drawing No.	32105801-FOAR-010		

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	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 Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Designed landscape (demesne)





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

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 naturual grassland - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River little brosna	- Properties - National Monuments - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty 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

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

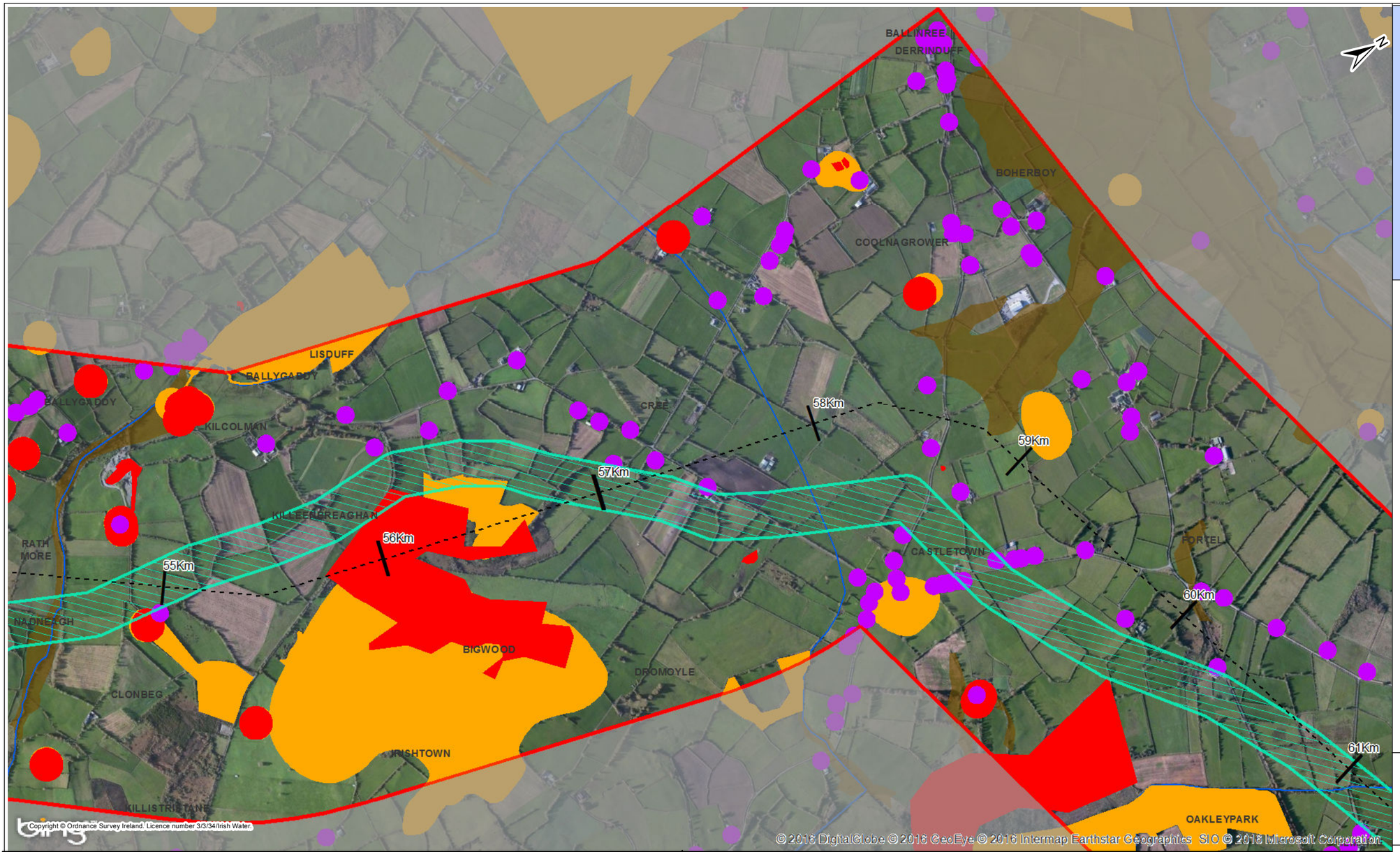
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 50 to 55 km

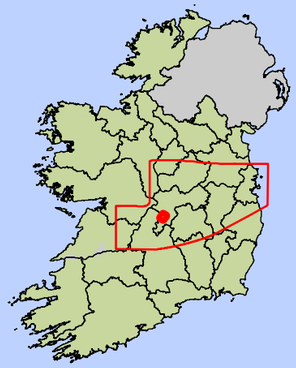
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Drawing No.: 32105801-FOAR-011

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

Drawing Status: **For Issue**

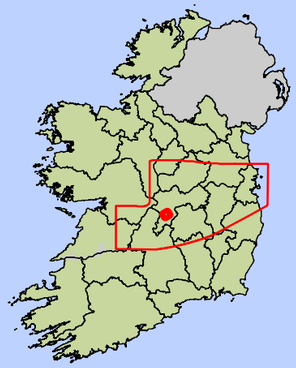
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Drawing No. 32105801-FOAR-012

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	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 - Landscsape classification areas offaly high sensitvity - Native woodland survey - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River birr	- 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 birr	- 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)





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

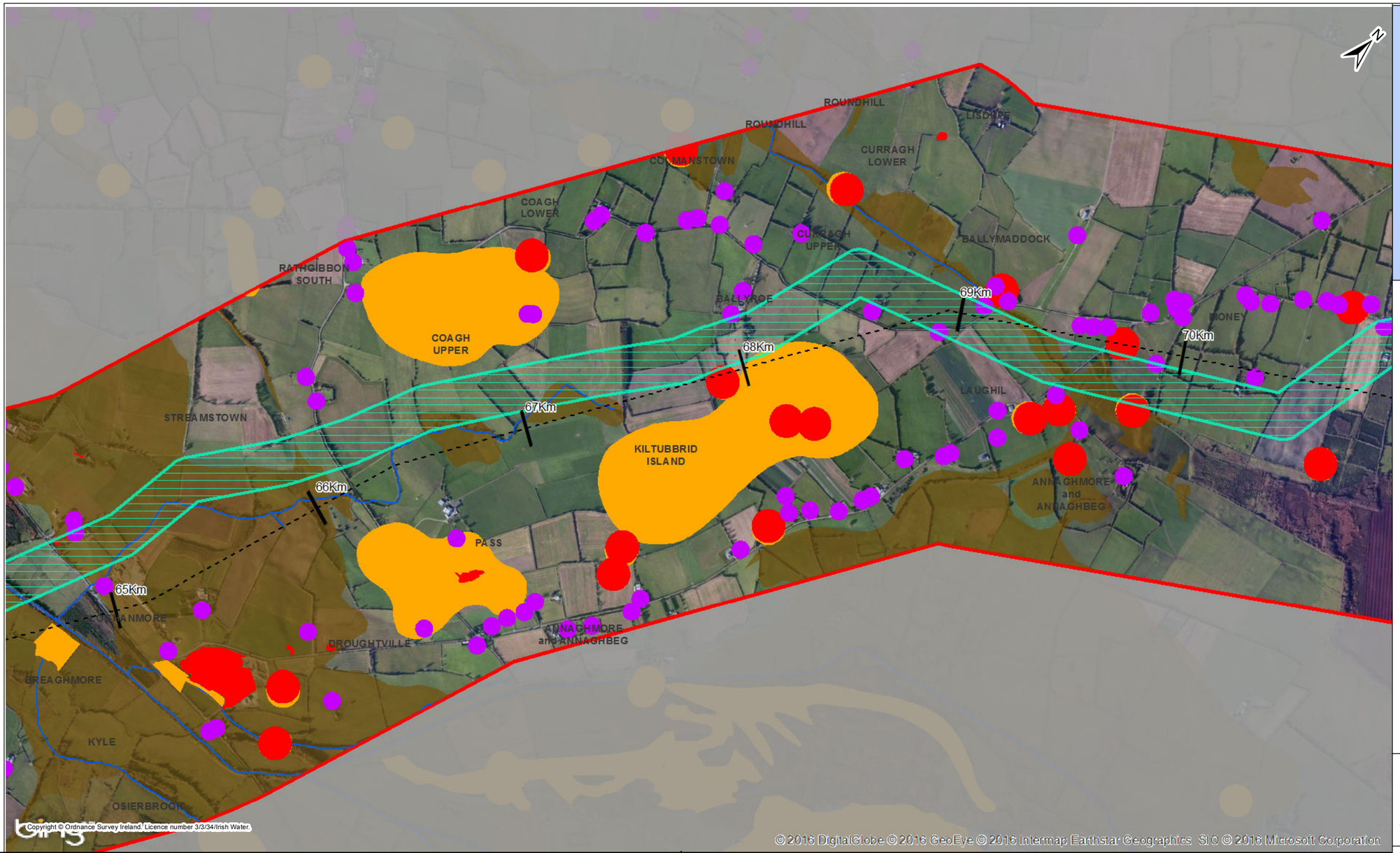
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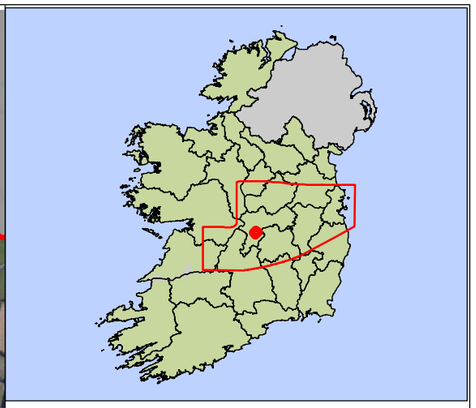
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Drawing No.: 32105801-FOAR-013

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	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 Areas Offaly - 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 - Pit sand quarries - Forestry - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River camcor - River Breaghmore	- Properties - National Monuments - Poor ground (glaciofluvial sandsand gravels) - Poor ground (alluvium) - Landscapes - Pit sand quarries - Proposed natural heritage area - Forestry - Semi natural grassland - Architectural Conservation Areas Offaly - River Camcor - River Osierbrook - River Breaghmore - R440 regional road - Designed landscape (demesne)





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 65 to 70 km

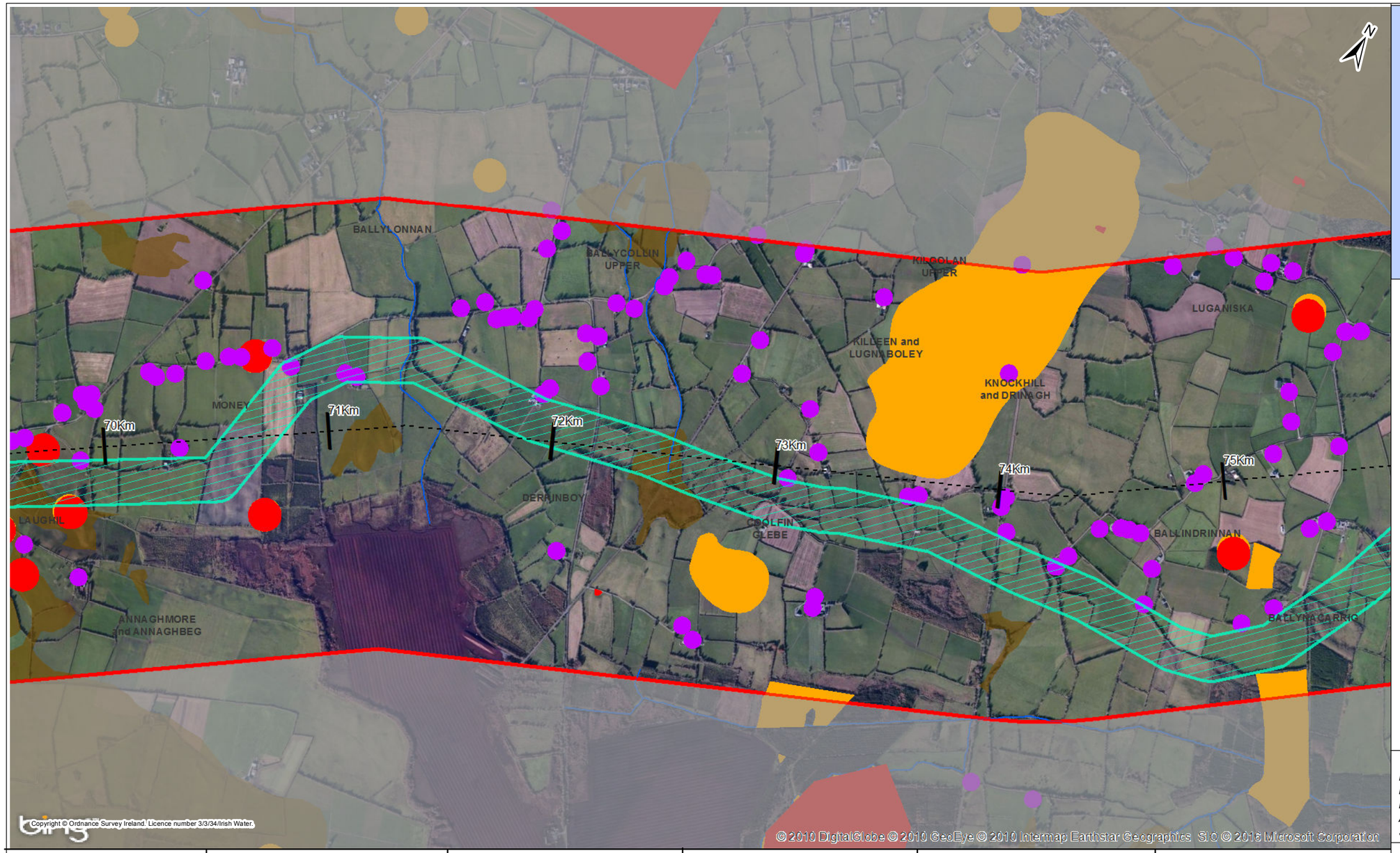
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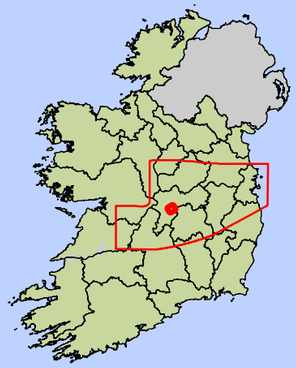
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Drawing No.: 32105801-FOAR-014

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	65 to 66 km	66 to 67 km	67 to 68 km	68 to 69 km	69 to 70 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 (glaciofluvial sands and gravels) - Poor ground (lake deposits) - Poor ground (alluvium) - Landscapes - Pits and quarries - Forestry - Architectural Conservation Areas Offaly - River camcor - River osierbrook - River upper caogh - River pass - Designed landscape (demesne)	- Properties - National Monumnets - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Pits and quarries - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River upper coagh - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River upper coagh	- Properties - National Monumnets - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Pits and quarries - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River rapemills	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Pits and quarries - Architectural Conservation Areas Offaly





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

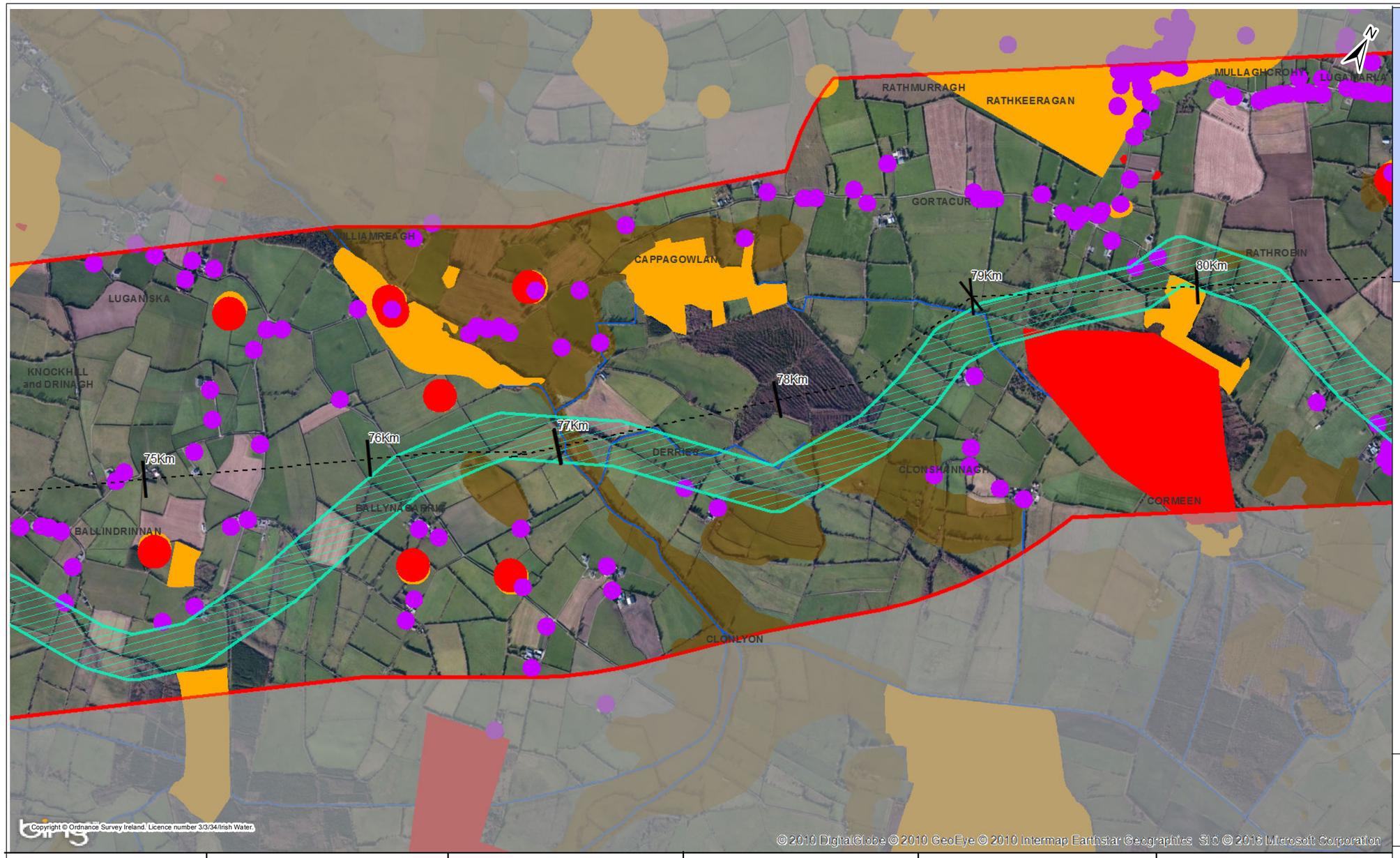
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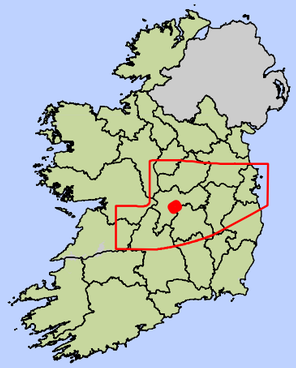
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Drawing No. 32105801-FOAR-015

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	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 Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River black - River knockhill	- Properties - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty 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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

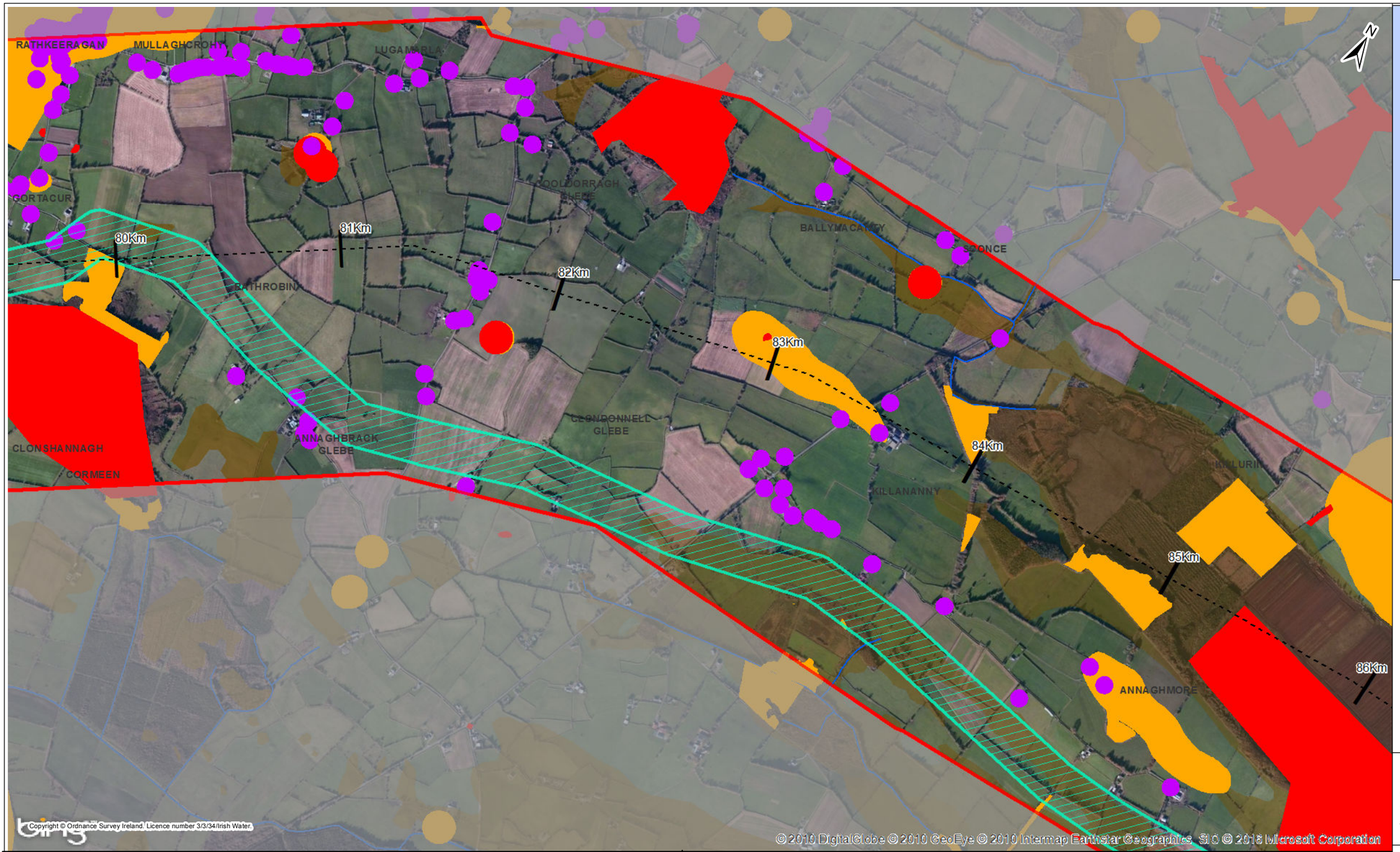
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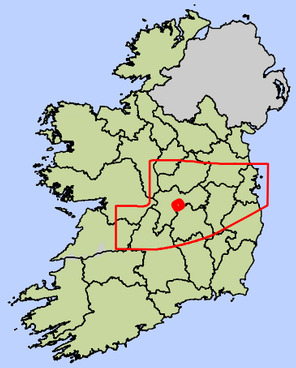
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Drawing No.: 32105801-FOAR-016

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.

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 Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty 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 - Additional habitats - Forestry - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty 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 - Pits and quarries - Wastewater treatment plant - Woodland habitats - Forestry - Native woodland survey - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty 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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

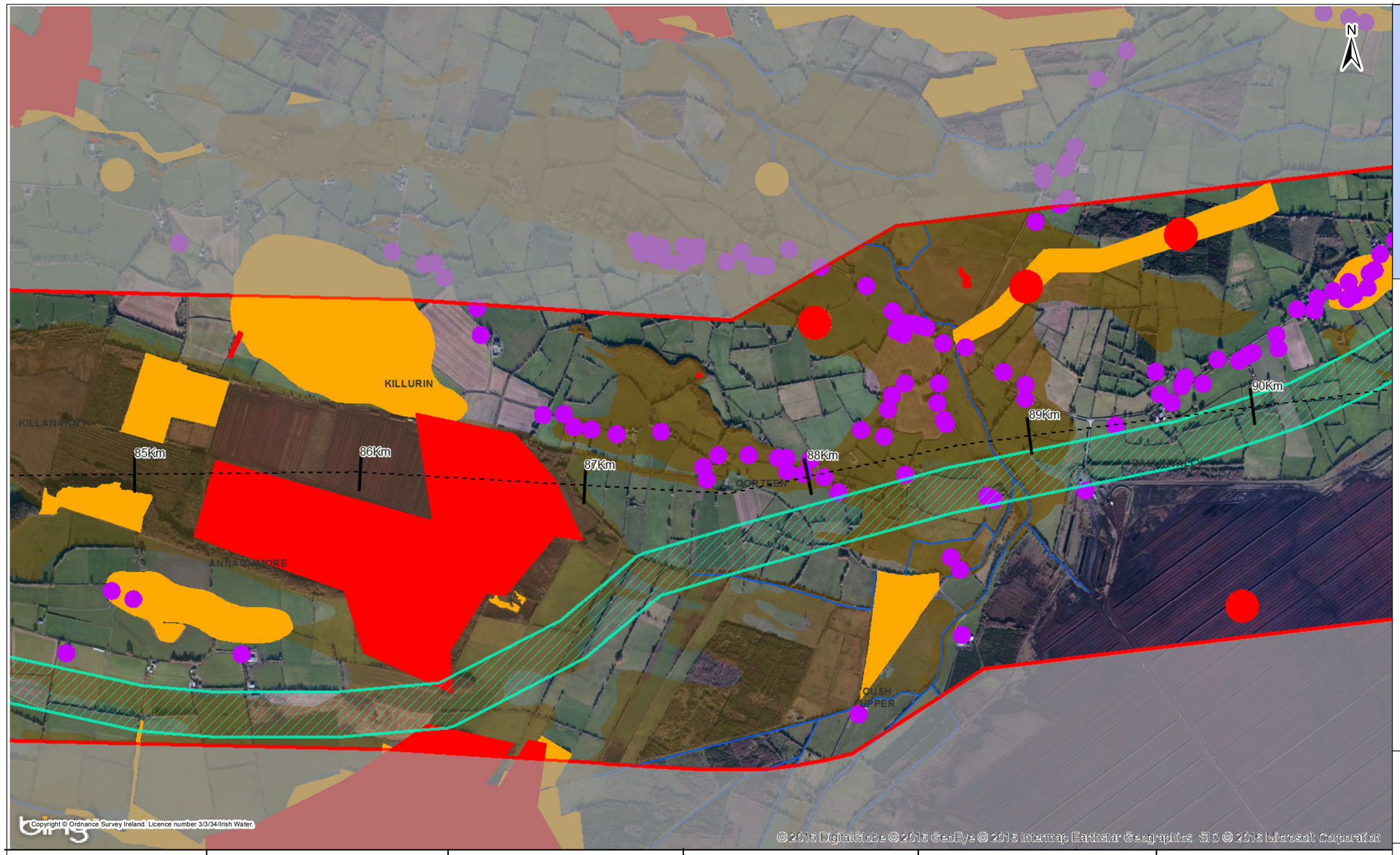
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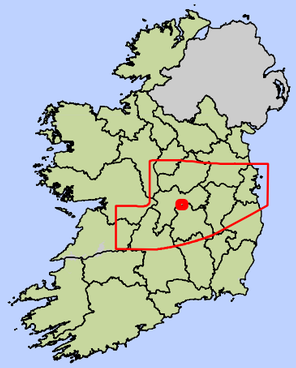
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Drawing No.: 32105801-FOAR-017

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	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	- Properties - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) - Poor ground (alluvium) - Additional habitats - Woodland habitats - SMR Zone (Archaeology) - Native woodland survey - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme	- Properties - National Monuments - Poor ground (lake deposits) - Poor ground (alluvium) - Pits and quarries - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly	- Properties - National monuments - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Additional hbitats - Pits and quarries - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River Ballynacanty	- Properties - Poor ground (bogs) - Poor ground (rock and karst) - Poor ground (alluvium) - National Monuments - Woodland habiats - Forestry - Coillte forest property (killeigh) - Native woodland survey - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River Killurin - R421regional road	- Properties - Poor ground (exposed rock and karst) - Woodland habitats - Forestry - Coillte forest property - Native woodland survey - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme -River killananny





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: Uisce Éireann - Irish Water

Project: Water Supply Project - Eastern and Midlands Region

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

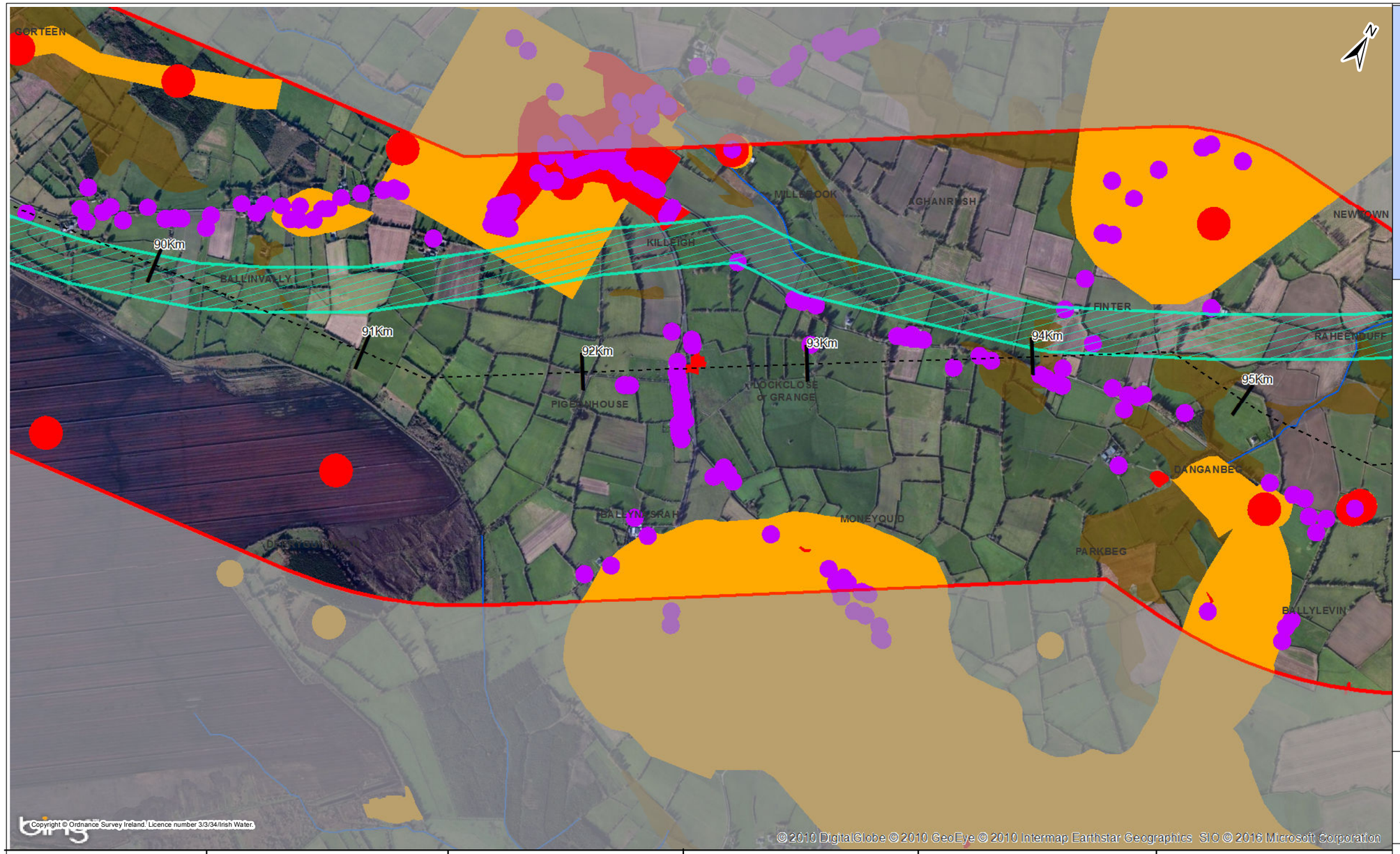
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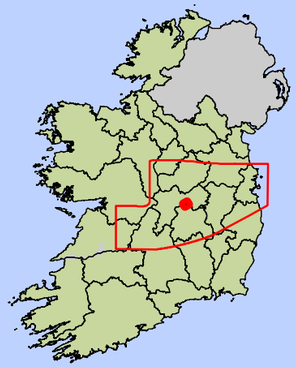
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Drawing No.: 32105801-FOAR-018

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.

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 Allignment 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 - NationalMonuments - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (glacofluvialsands and gravels) - Poor ground (lake deposits) - SMR Zone (Archaeobgy) - ArchitecturalConservation Areas Of Faly - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme	- Properties - NationalMonuments - Made ground - Landscapes - Settlements - SMR Zone (Archaeobgy) - ArchitecturalConservation Areas Of Faly - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme - River pigeonhouse	- Properties - NationalMonuments - Poor ground (bogs) - Made ground - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glacofluvialsands and gravels) - Landscapes - Settlements - Pits and quarries - SMR Zone (Archaeobgy) - ArchitecturalConservation Areas Of Faly - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme - Kilegh stream - N80 nationalroad	- Properties - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glacofluvialsands and gravels) - Landscapes - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme	- Properties - NationalMonuments - Poor ground (bogs) - Poor ground (alluvium) - Poor ground (glacofluvialsands and gravels) - Landscapes - Pits and quarries - Specialprotection area - Forestry - Source protection areas - ArchitecturalConservation Areas Of Faly - River Finter - Designed landscape (demesne)

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

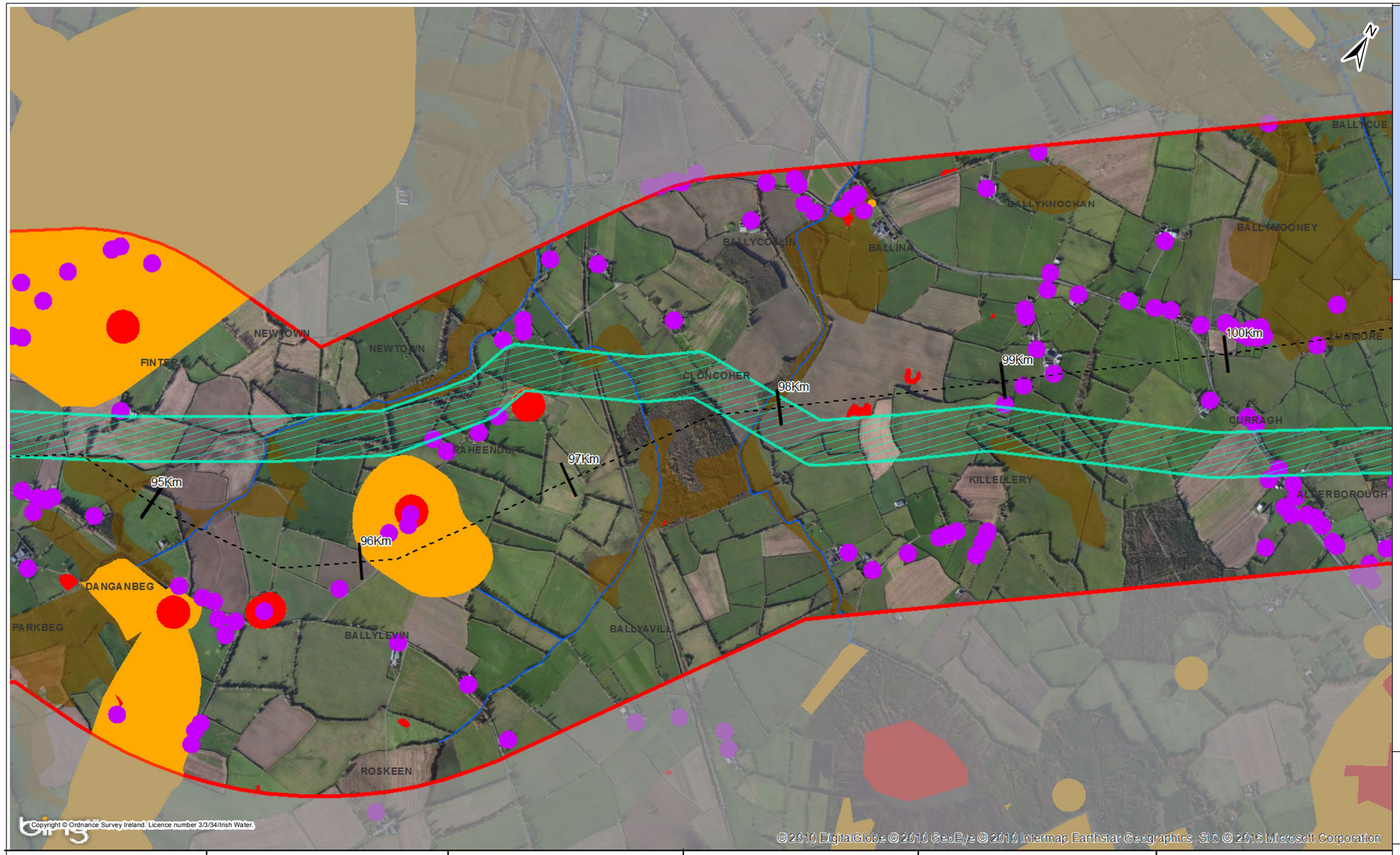
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 90 to 95 km

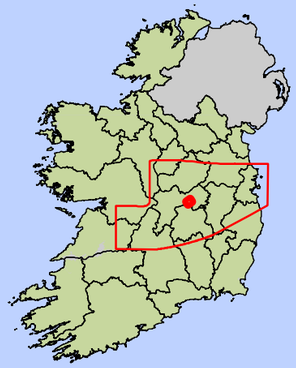
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Drawing No.: 32105801-FOAR-019

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

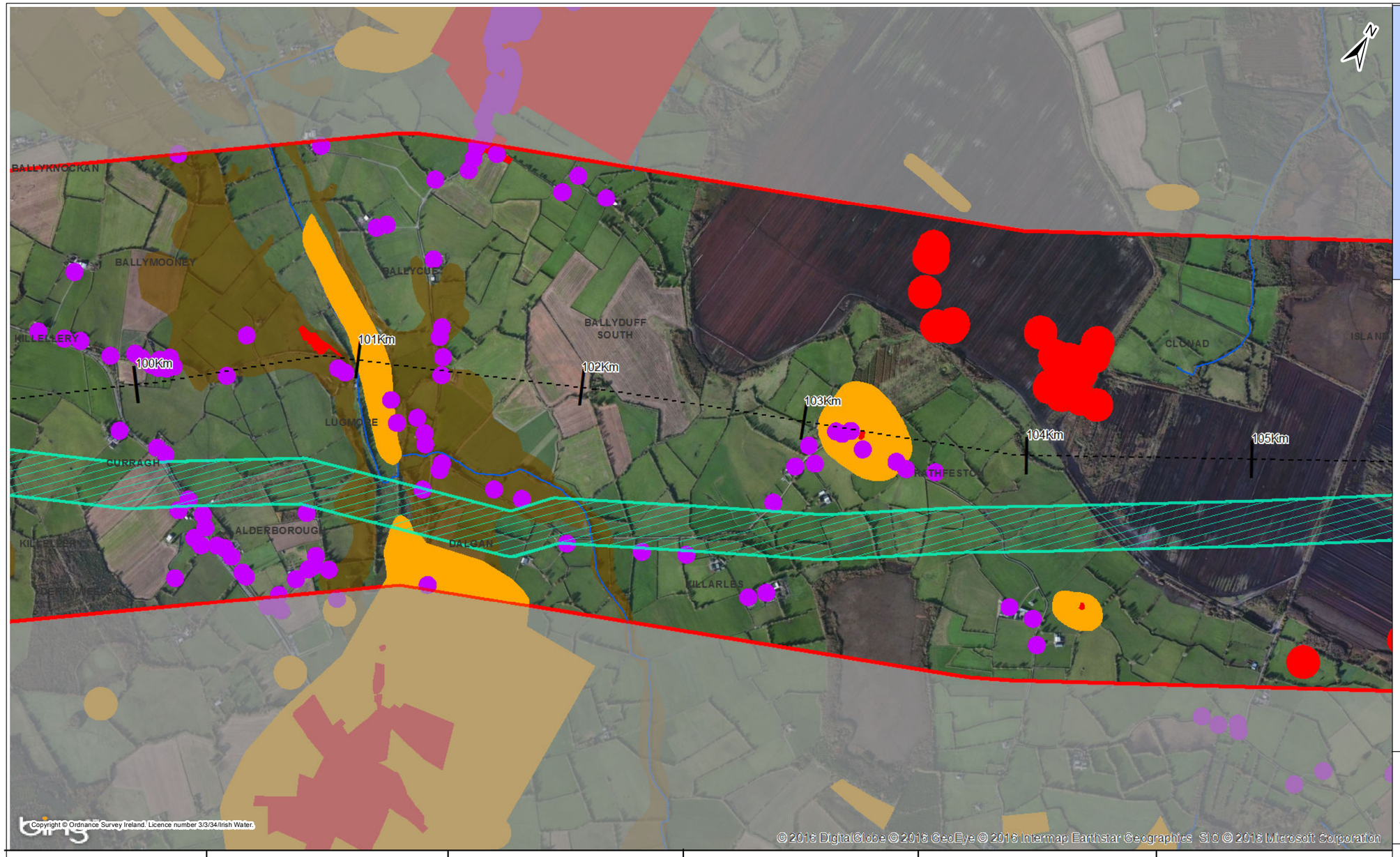
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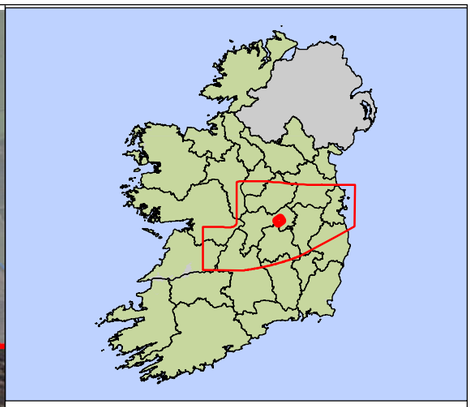
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Drawing No.: 32105801-FOAR-020

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.

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 - Pit sand quarries - Special area protection - Forestry - Source protection areas - Architectural Conservation Areas Offaly - River finter - Groundwater Vulnerabilty Extreme	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glaciofluvial sandsand gravels) - Landscapes - Pit sand quarries - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - 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) - Pit sand quarries - River annagharvey - R420 regional road	- Properties - Poor ground (glaciofluvial sandsand gravels) - Poor ground (lake deposits) - R420 regional road





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN | IRISH WATER

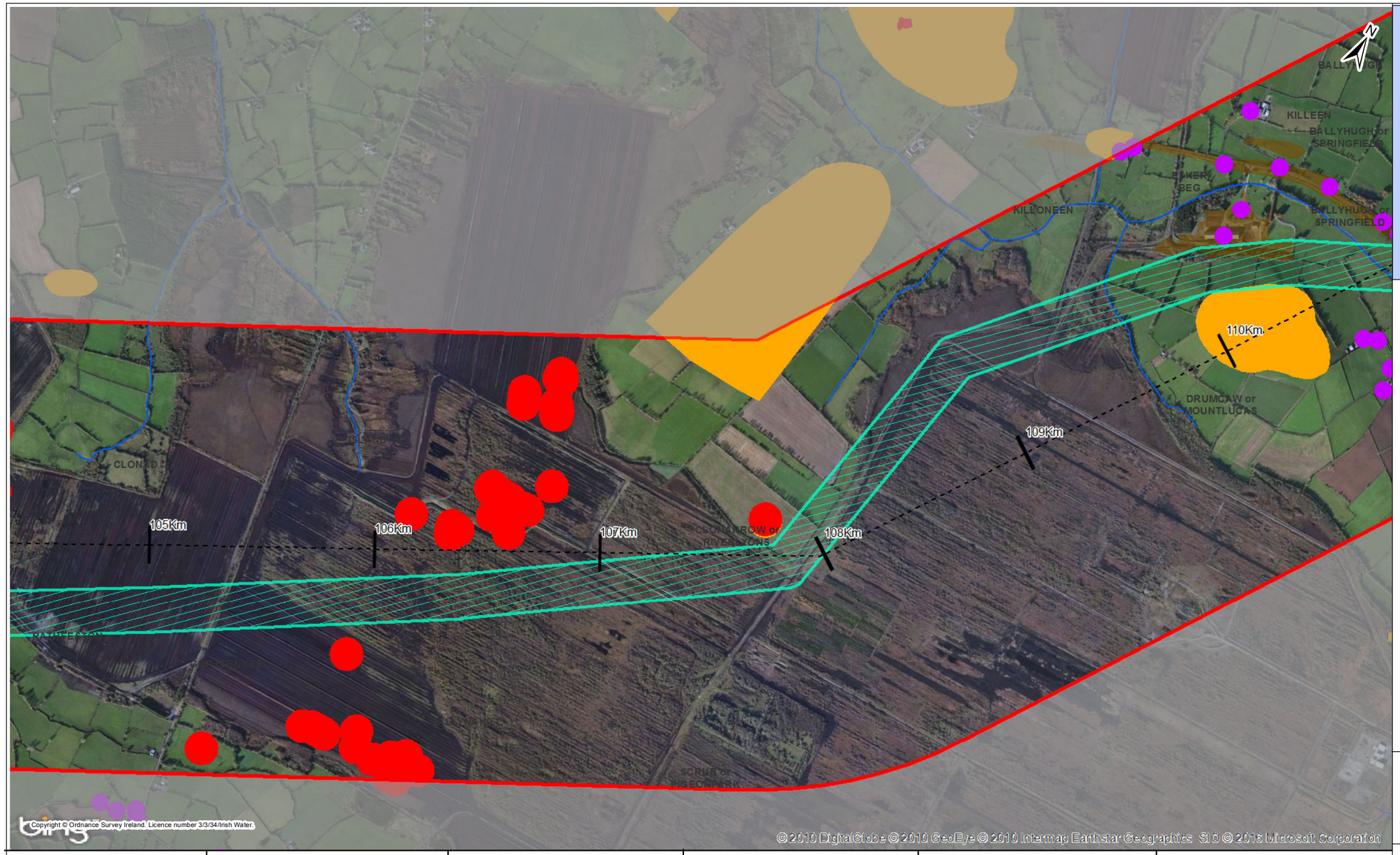
Project: Water Supply Project - Eastern and Midlands Region

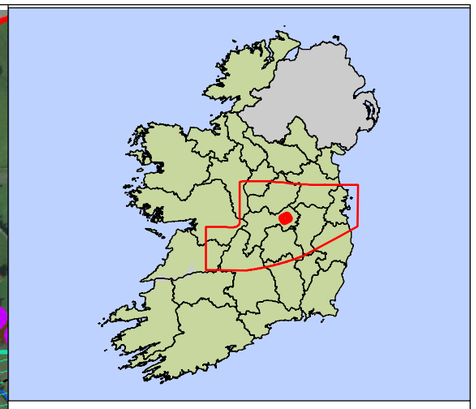
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 100 to 105 km

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.

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





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

Chainage	105 to 106 km	106 to 107 km	107 to 108 km	108 to 109 km	109 to 110 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- National Monuments - River Clonad - Designed landscape (demesne)	- National Monuments - Regenerating and remnant peatland habitats (Annex I priority habitat)	- National Monuments - Special protection area - SMR Zone (Archaeology) - Source protection area - Architectural Conservation Areas Offaly - Bog remnant (annex I priority habitat)	- River philipstown	- Poor ground (glaciofluvial sands and gravels) - Made ground - Landscape - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River Daingean

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN | IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

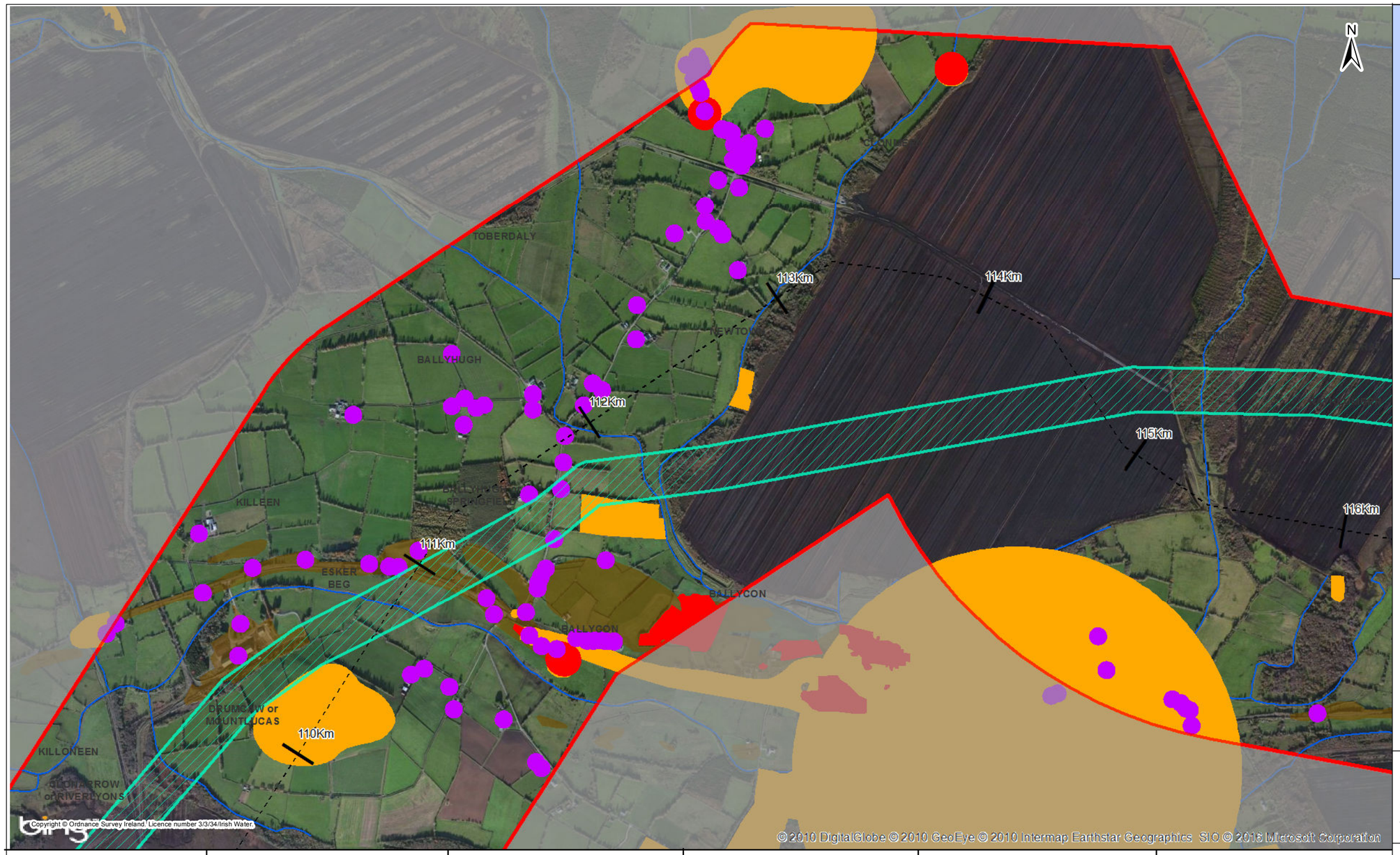
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 105 to 110 km

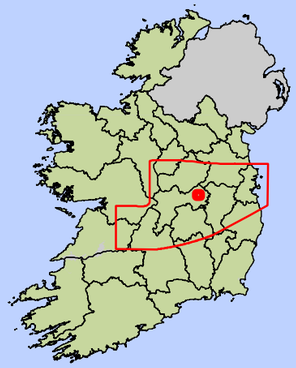
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Drawing No.: 32105801-FOAR-022

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 Allignment 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 Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty 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 Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River rathcobican - River esker - R402 & R400 regional road - Designed landscape (demesne)	- National Monuments - Poor ground (exposed rock and karst) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty 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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

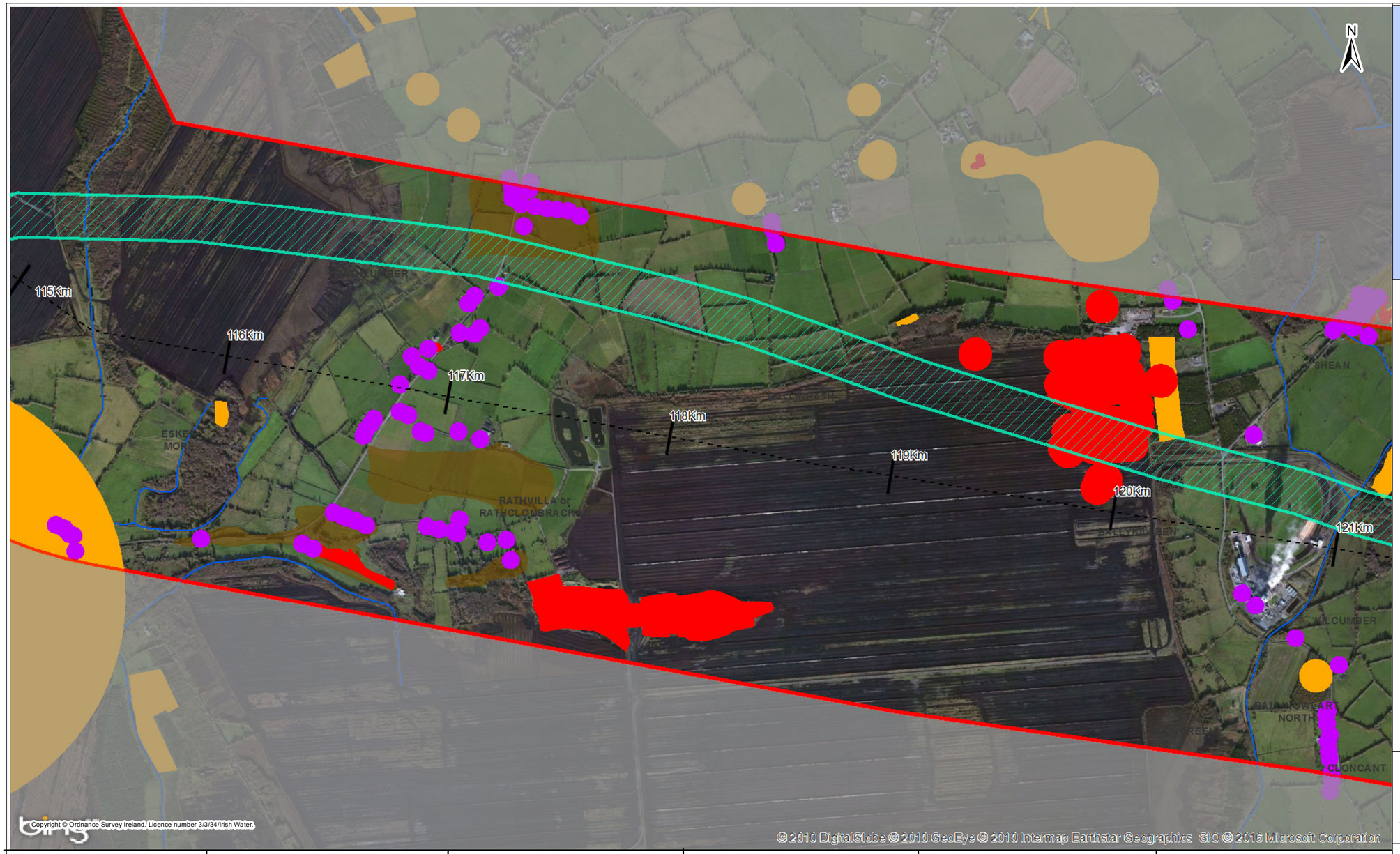
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 110 to 115 km

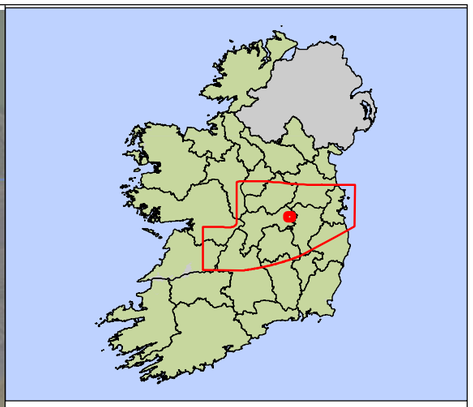
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Drawing No.: 32105801-FOAR-023

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

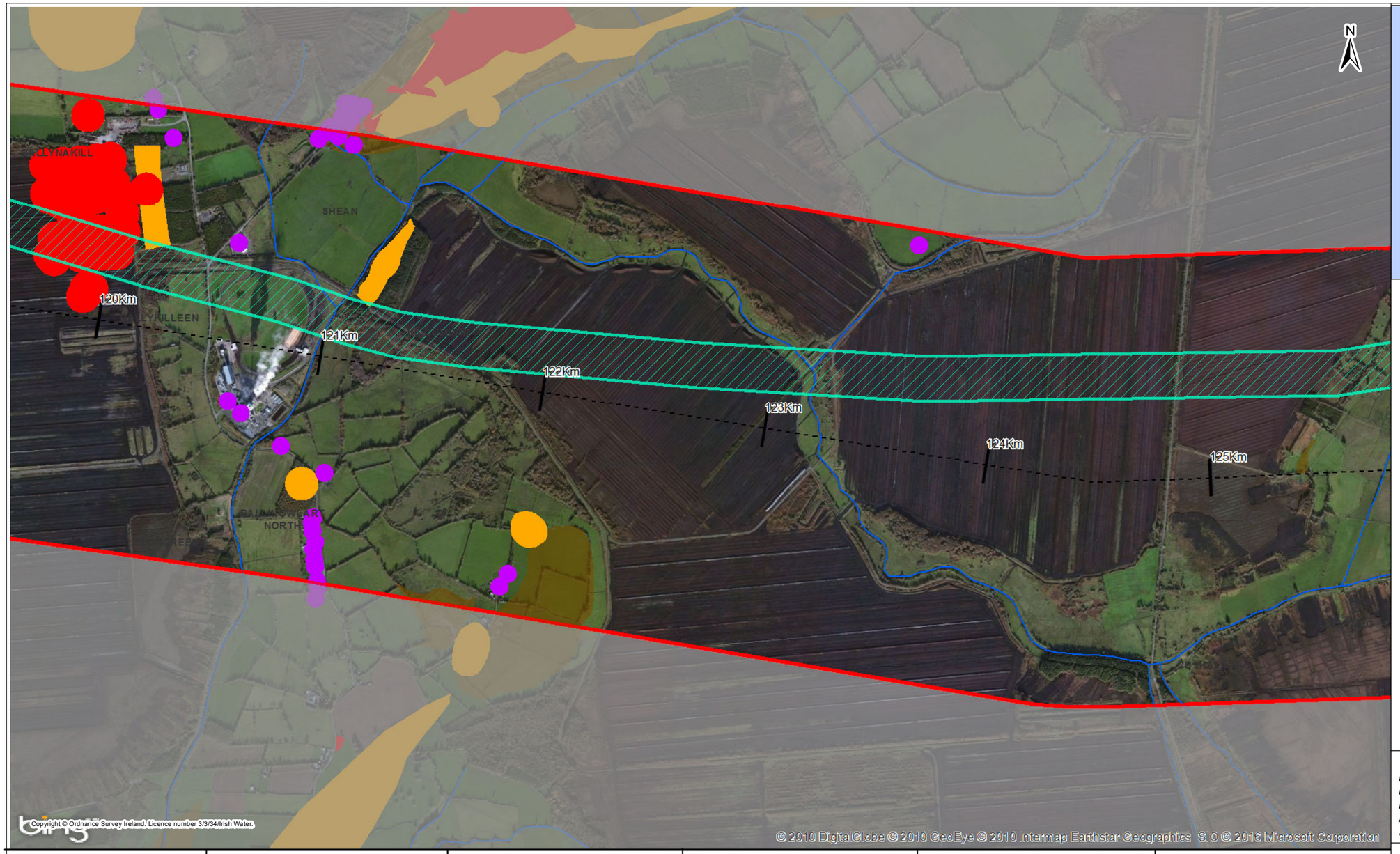
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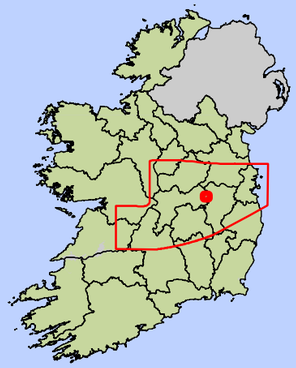
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Drawing No.: 32105801-FOAR-024

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.

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





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

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 -R401regional 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

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

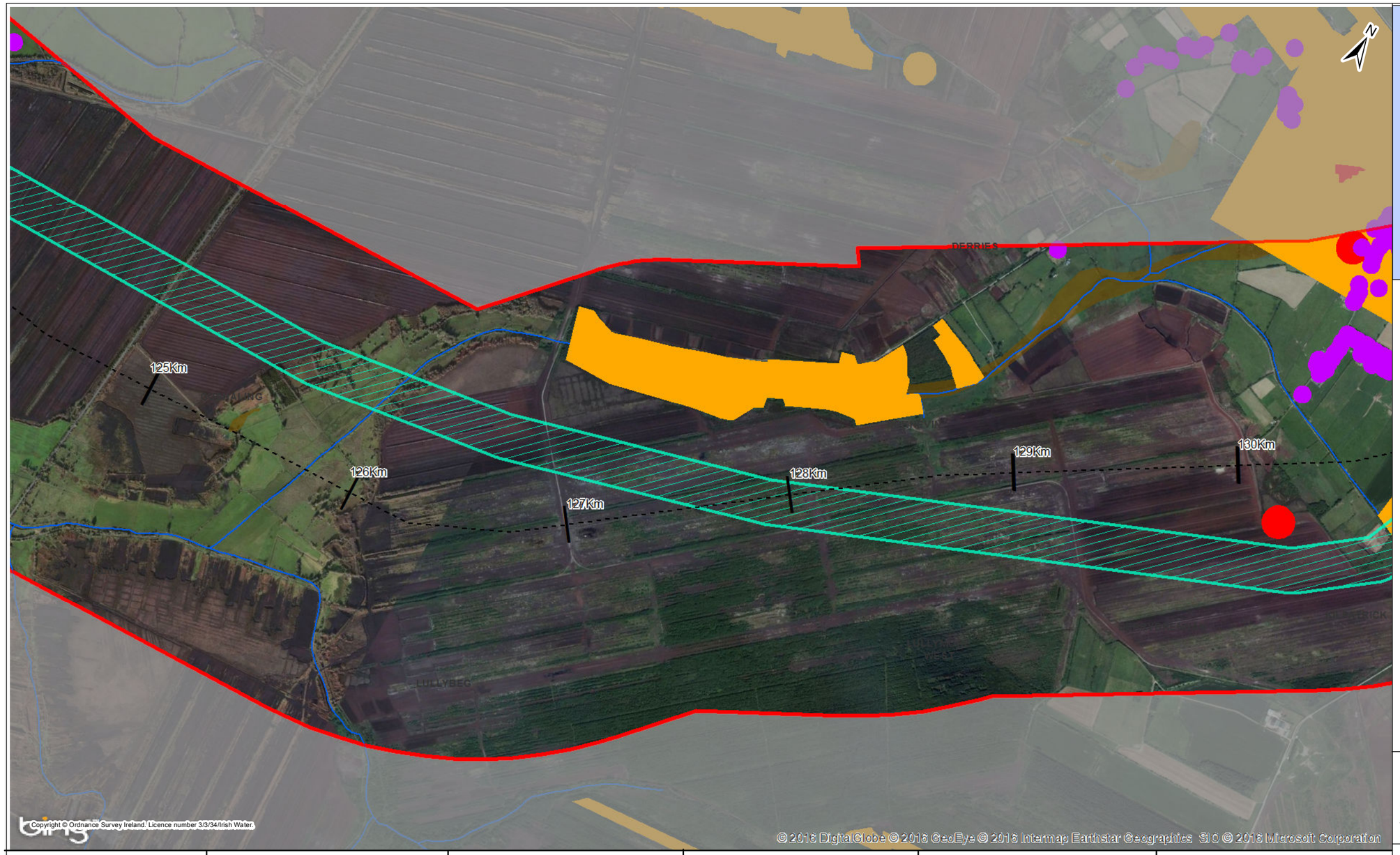
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 120 to 125 km

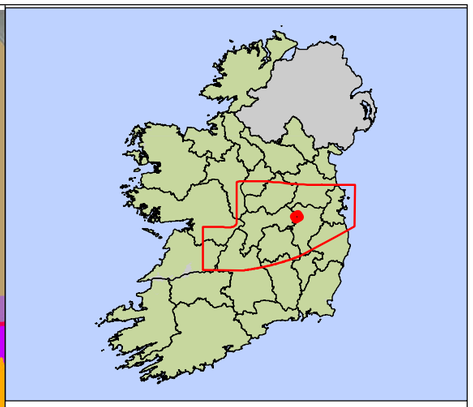
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Drawing No.: 32105801-FOAR-025

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.





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

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

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN | IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

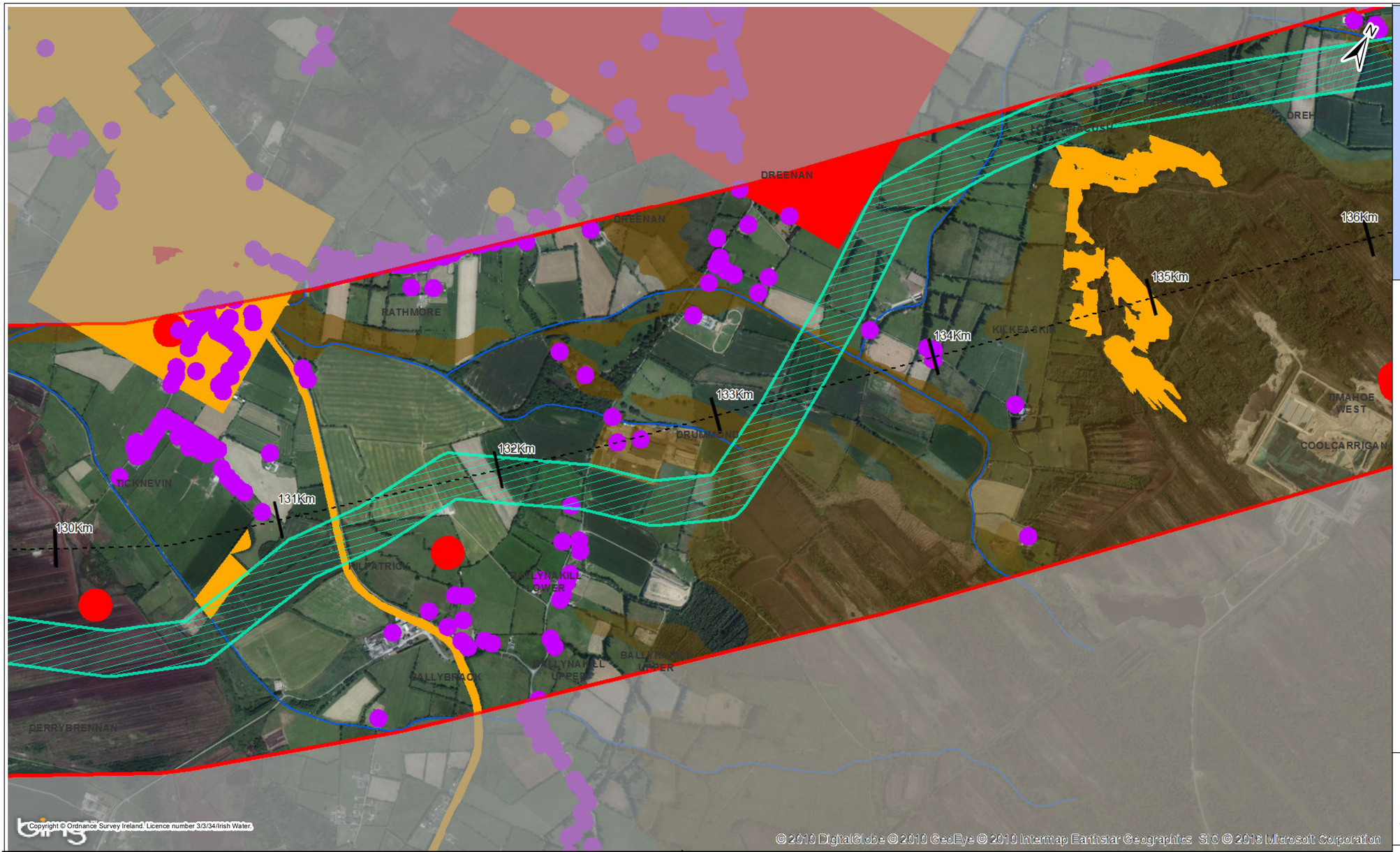
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 125 to 130 km

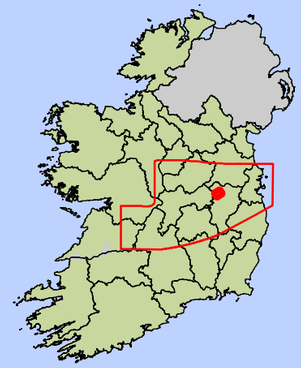
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Drawing No. 32105801-FOAR-026

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

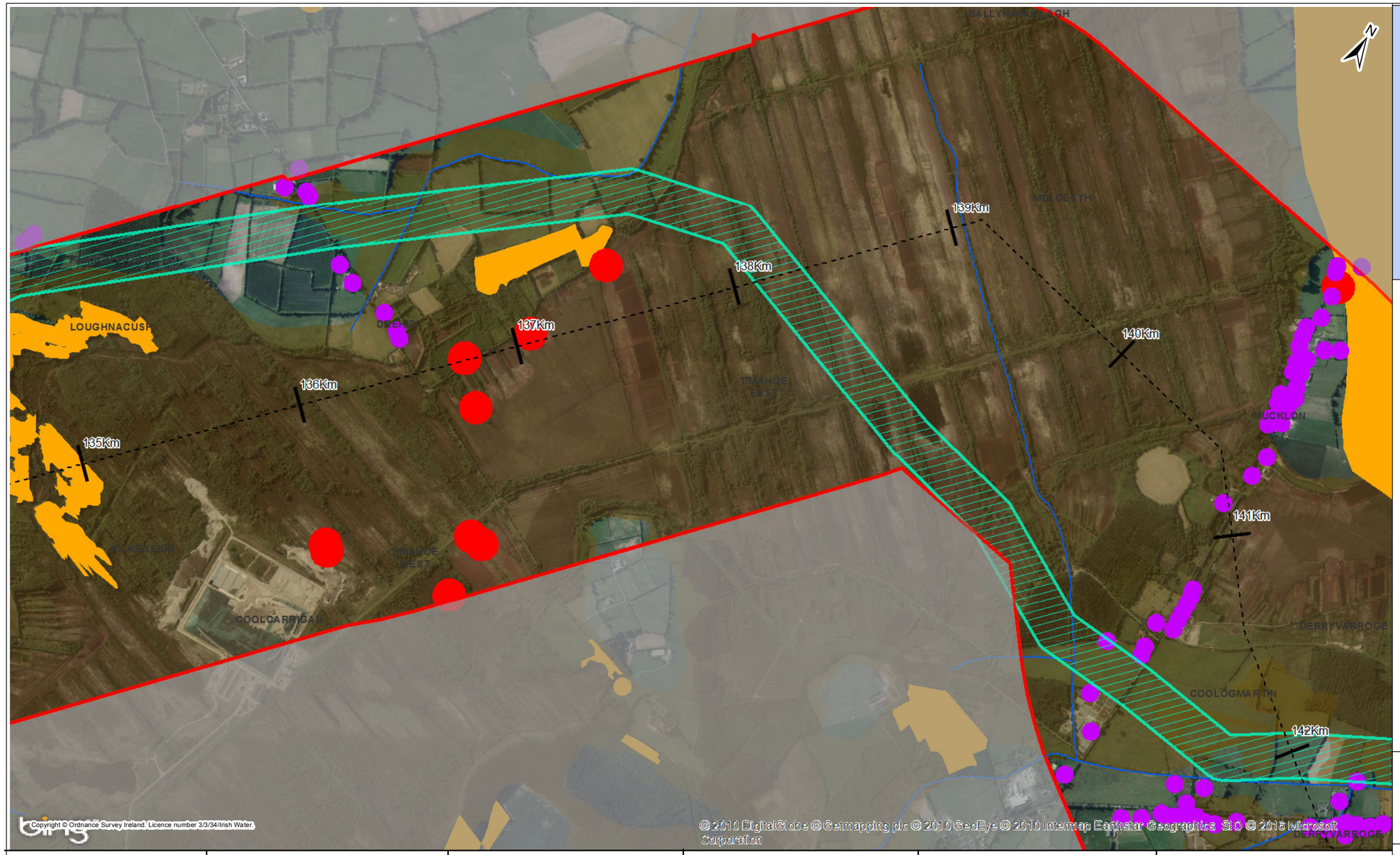
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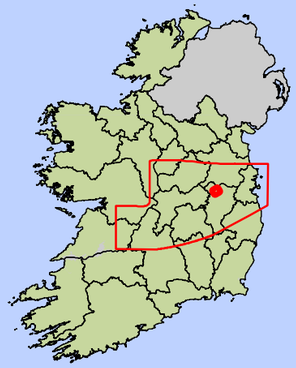
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Drawing No.: 32105801-FOAR-027

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.

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)





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

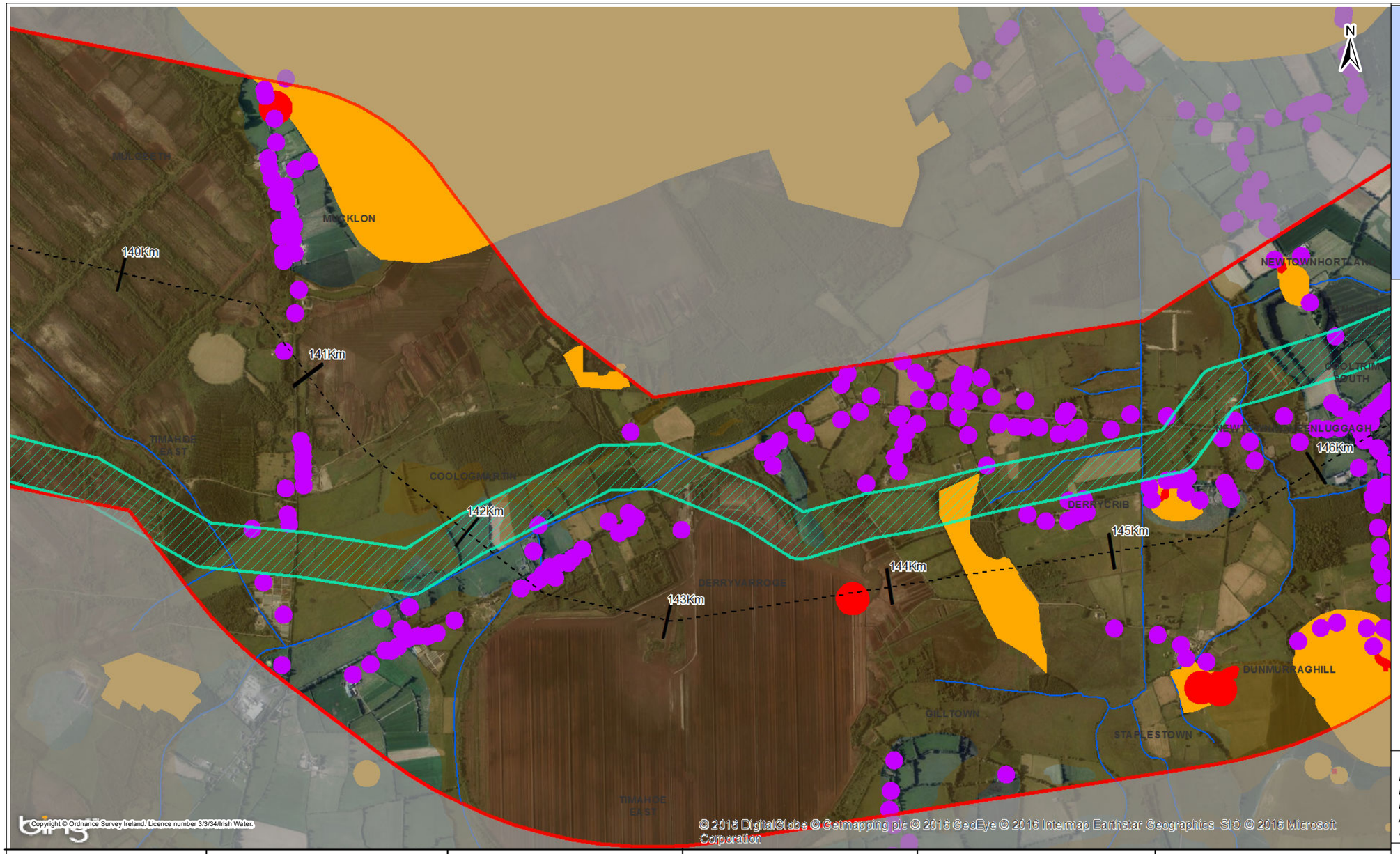
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 135 to 140 km

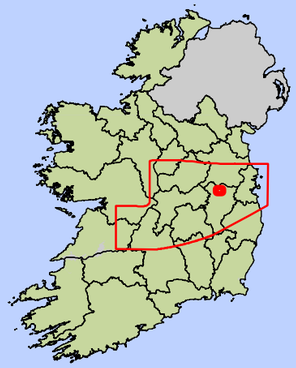
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Drawing No.: 32105801-FOAR-028

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.





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

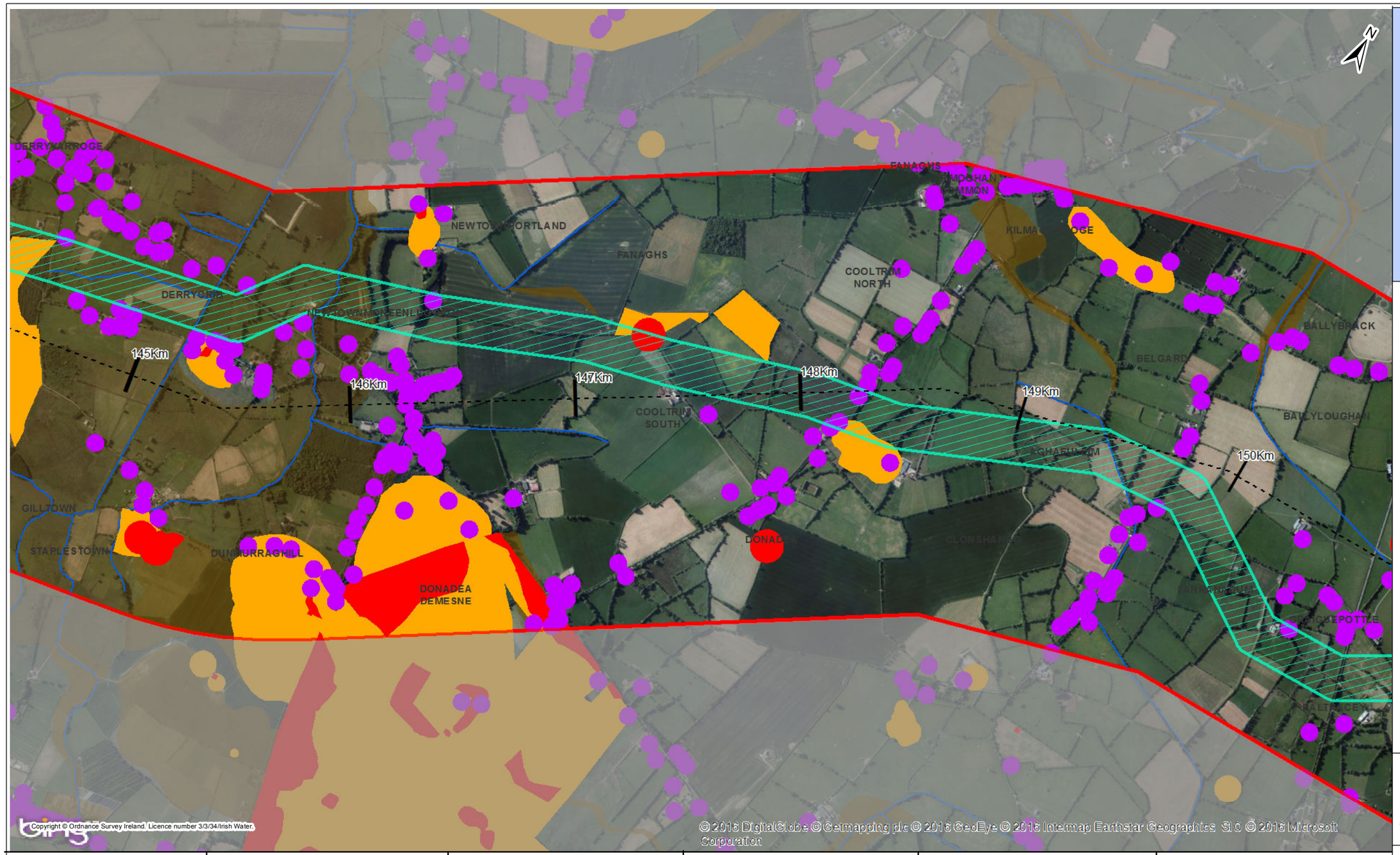
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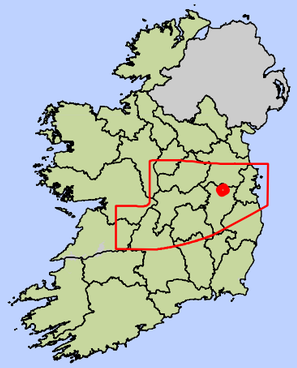
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Drawing No.: 32105801-FOAR-029

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

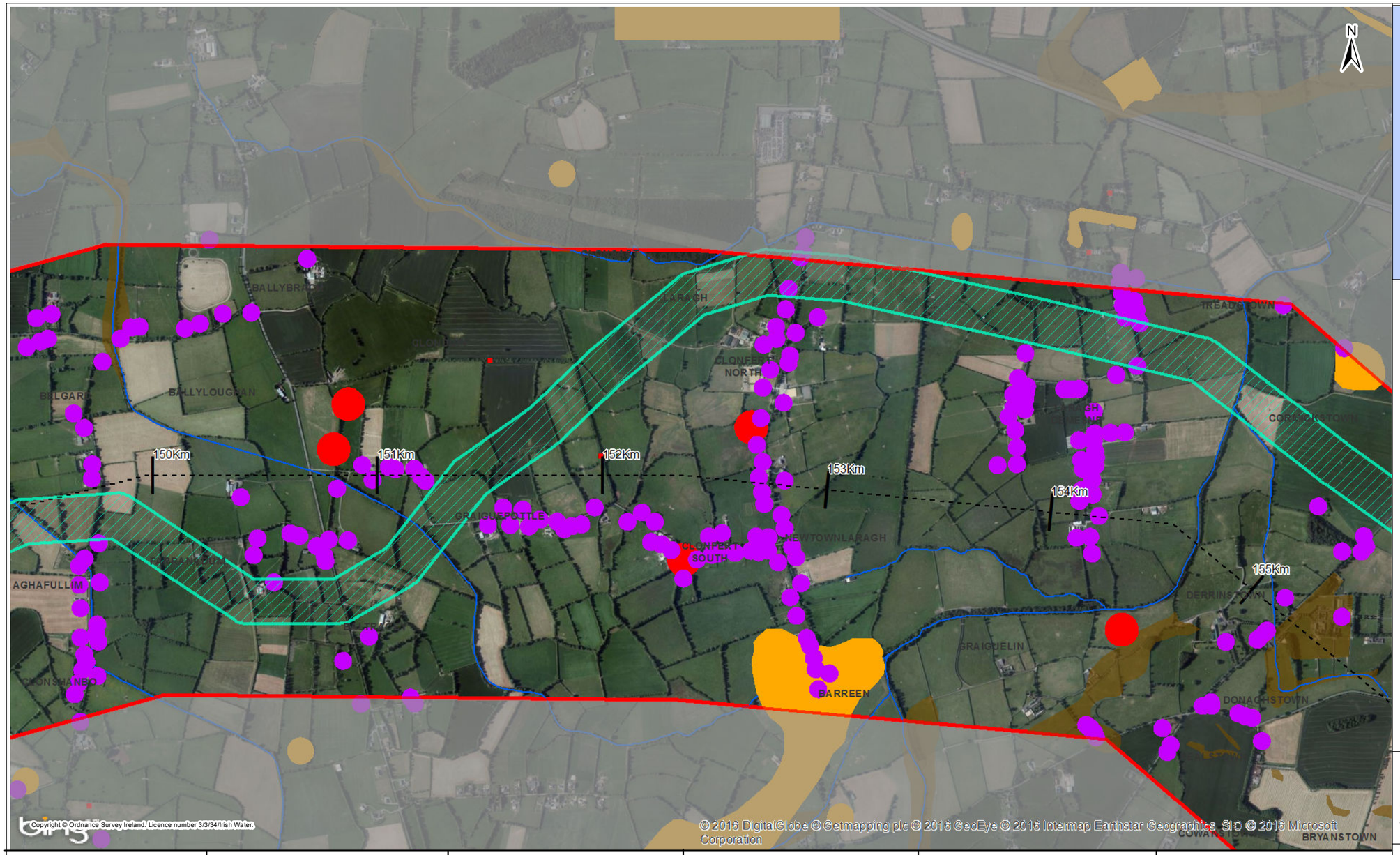
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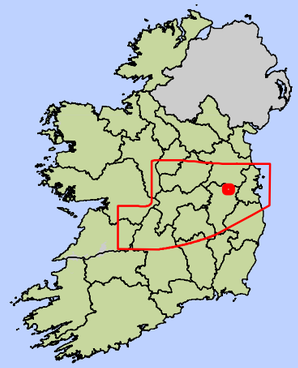
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Drawing No.: 32105801-FOAR-030

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.

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 - Pits and quarries - Forestry - SMR Zone (Archaeobgy) - Geobgicalheritagesites (St. Peters well) - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (glacifluvialsands and gravels) - River derryvarroge - River derrycrb - River blackwater - River cootrimsouth	- Properties - NationalMonuments - Ancient woodland (donadea forest park) - Proposed naturalheritage area (donadea wood) - Woodland habitats - Forestry - SMR Zone (Archaeobgy) - Cote forest property (donadea) - Native woodland survey - Groundwater Vuherabty Rock at or Near Surface or Karst feature - Groundwater Vuherabty Extreme - Poor ground (exposed rock and karst) - Poor ground (aluvium) - Poor ground (glacifluvialsands and gravels) - Poor ground (lake deposts) - River newtownhortland - River cootrimsouth - Designed landscape (demesne)	- Properties - NationalMonuments - Forestry - SMR Zone (Archaeobgy) - Cote forest property (donadea) - Poor ground (aluvium)	- Properties - SMR Zone (Archaeobgy) - Groundwater Vuherabty Extreme - Poor ground (aluvium)	- Properties - Groundwater Vuherabty Extreme - Poor ground (aluvium) - River aghaflum - River batracy trblyreen





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 150 to 155 km

Drawing Status: **For Issue**

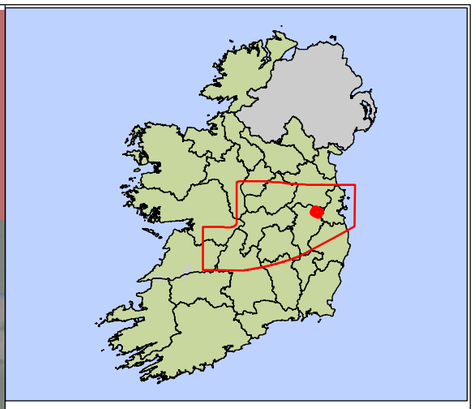
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Drawing No.: 32105801-FOAR-031

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	150 to 151 km	151 to 152 km	152 to 153 km	153 to 154 km	154 to 155 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - SMR Zone (Archaeology) - River baltracy trib lyreen - R407 regional road	- Properties - National Monuments - Groundwater Vulnerabilty Extreme - Poor ground (alluvium) - River baltracy trib lyreen - River clonshanbo	- Properties - National Monuments - SMR Zone (Archaeology) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Poor ground (alluvium) - River clonshanbo - River painestown - River baltracy trib lyreen	- Properties - National monuments - Pits and quarries - SMR Zone (Archaeology) - - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - River lyreen - River clonshanbo - River newtownlaragh	- Properties - Pits and quarries - Poor ground (glaciofluvial sands and gravels)





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

Chainage	155 to 156 km	156 to 157 km	157 to 158 km	158 to 159 km	159 to 160 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - SMR Zone (Archaeology) - Poor ground (alluvium) - River lyreen - R408 regional road	- Propeties - Pits and quarries - SMR Zone (Archaeology) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - River lyreen	- Proeprties - Pits and quarries - SMR Zone (Archaeology) - Poor ground (glaciofluvial sands and gravels) - R406 regional road	- Properties - Pits and quarries - SMR Zone (Archaeology) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Made ground - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels)	- Properties - Settlements - Pits and quarries - SMR Zone (Archaeology) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Made ground - River johninstown - River posseckstown

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

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

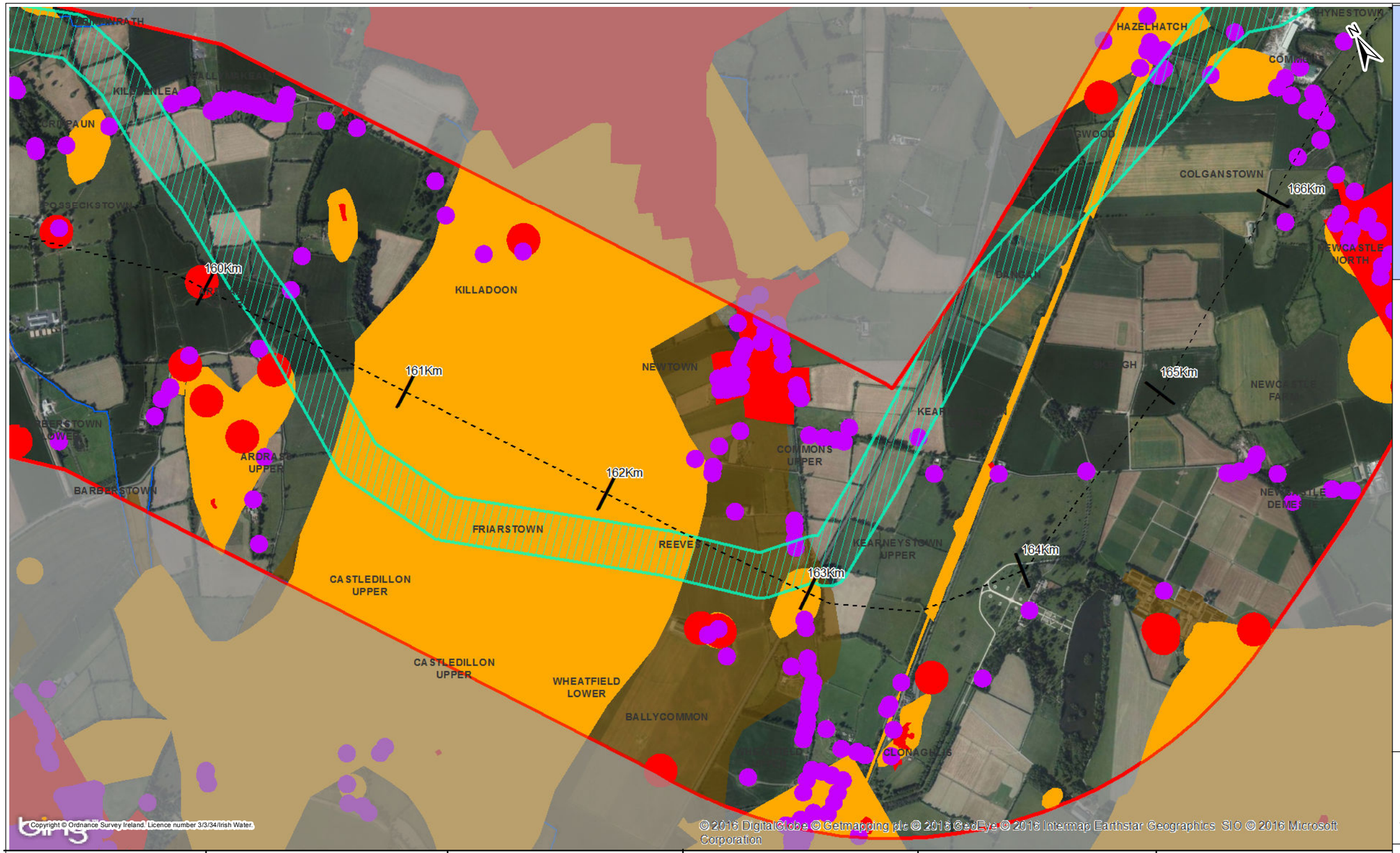
Drawing Title: Identification of Preliminary 200m Pipeline Corridor : 155 to 160 km

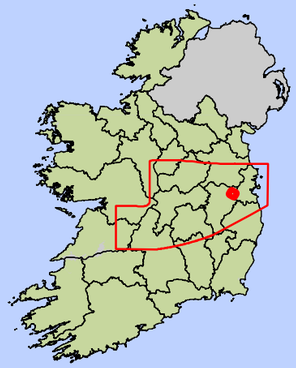
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Drawing No.: 32105801-FOAR-032

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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN | IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

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

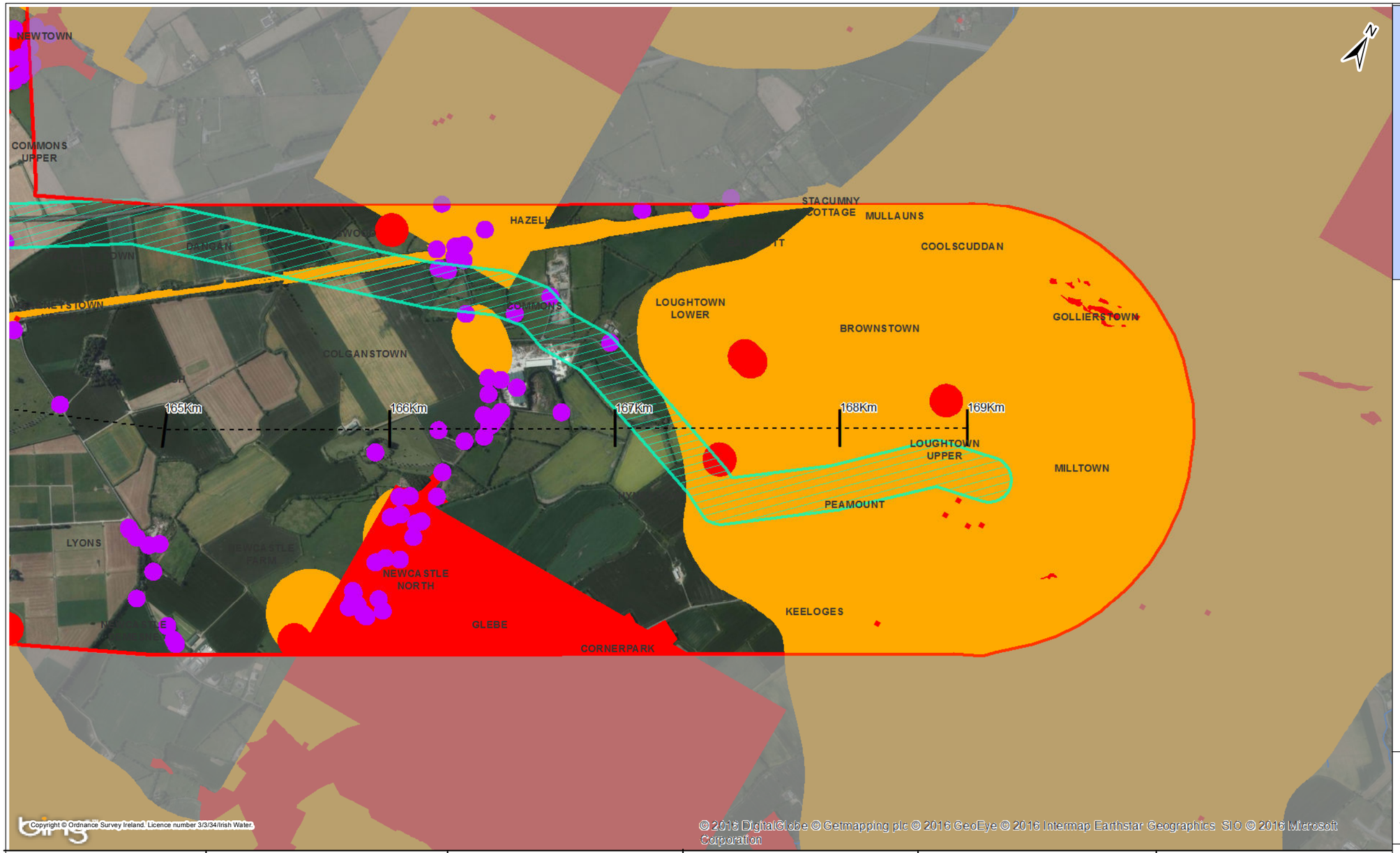
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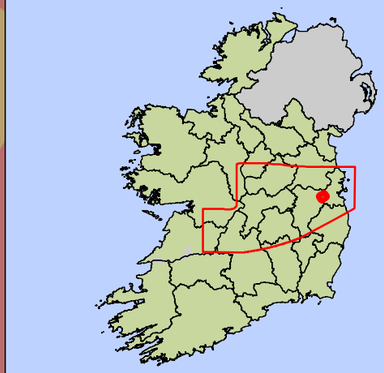
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Drawing No.: 32105801-FOAR-033

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	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 Kildare High - Geological heritage site (Ffey oxbow) - Geological heritage site (St. Patricks well2) - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Landscapes - River possekstown - River ardrass bwer - River Ffey - R403 regional road	- Properties - National Monuments - Settlements - Forestry - SMR Zone (Archaeology) - Landscape Classification Areas Kildare High - 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) Poor ground (alluvium) - River Ffey - River Frarstown - River kildoon - Designed landscape (demesne)	- Properties - Settlements - SMR Zone (Archaeology) - Landscape Classification Areas Kildare High - 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) - Landscapes - River reeves - River castledon - River Ffey - River simmonstown - National allhe - Designed landscape (demesne)	- Properties - Pits and quarries - Proposed natural heritage area (grand canal) - Forestry - SMR Zone (Archaeology) - Landscape Classification Areas Kildare High -Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - Miner albcations - Poor ground (exposed rock and karst) - Poor ground (glacial sands and gravels) - Landscapes - Lakes - National allhe - Designed landscape (demesne)	- Properties - Proposed natural heritage area (grand canal) - Lakes - Forestry - SMR Zone (Archaeology) - Landscape Classification Areas Kildare High - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - Made ground - Poor ground (exposed rock and karst) - Poor ground (glacial sands and gravels) - Grand canal





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 Allignment is Shown on Maps 32105801-FOAR-036 to 070

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH 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**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IE\GIS\32105801-WSP-DR\GIS Tasks\5_Mxds\Report Maps\FOAR\Constraints Maps\Identification of Preliminary Pipeline Corridor 165-170.mxd		

Drawing No.: 32105801-FOAR-034

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	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	

Tionscadal Soláthair Uisce
Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1 Annex C) FOAR, Preliminary 200m Pipeline Corridor and Preferred 200m Pipeline Corridor

Document no: 32105801/EIARA3.1
Version: Final

December 2025

Uisce Éireann
Irish Water

Jacobs

TOBIN

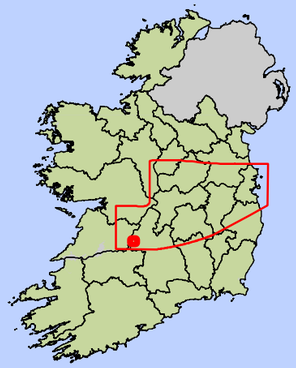
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Annex C: Preliminary 200m Pipeline Corridor & Preferred 200m Pipeline Corridor

Drawing No.	Title
32105801-FOAR-036	Identification of Preferred 200m Pipeline Corridor: 0 to 5km
32105801-FOAR-037	Identification of Preferred 200m Pipeline Corridor: 5 to 10km
32105801-FOAR-038	Identification of Preferred 200m Pipeline Corridor: 10 to 15km
32105801-FOAR-039	Identification of Preferred 200m Pipeline Corridor: 15 to 20km
32105801-FOAR-040	Identification of Preferred 200m Pipeline Corridor: 20 to 25km
32105801-FOAR-041	Identification of Preferred 200m Pipeline Corridor: 25 to 30km
32105801-FOAR-042	Identification of Preferred 200m Pipeline Corridor: 30 to 35km
32105801-FOAR-043	Identification of Preferred 200m Pipeline Corridor: 35 to 40km
32105801-FOAR-044	Identification of Preferred 200m Pipeline Corridor: 40 to 45km
32105801-FOAR-045	Identification of Preferred 200m Pipeline Corridor: 45 to 50km
32105801-FOAR-046	Identification of Preferred 200m Pipeline Corridor: 50 to 55km
32105801-FOAR-047	Identification of Preferred 200m Pipeline Corridor: 55 to 60km
32105801-FOAR-048	Identification of Preferred 200m Pipeline Corridor: 60 to 65km
32105801-FOAR-049	Identification of Preferred 200m Pipeline Corridor: 65 to 70km
32105801-FOAR-050	Identification of Preferred 200m Pipeline Corridor: 70 to 75km
32105801-FOAR-051	Identification of Preferred 200m Pipeline Corridor: 75 to 80km
32105801-FOAR-052	Identification of Preferred 200m Pipeline Corridor: 80 to 85km
32105801-FOAR-053	Identification of Preferred 200m Pipeline Corridor: 85 to 90km
32105801-FOAR-054	Identification of Preferred 200m Pipeline Corridor: 90 to 95km

Drawing No.	Title
32105801-FOAR-055	Identification of Preferred 200m Pipeline Corridor: 95 to 100km
32105801-FOAR-056	Identification of Preferred 200m Pipeline Corridor: 100 to 105km
32105801-FOAR-057	Identification of Preferred 200m Pipeline Corridor: 105 to 110km
32105801-FOAR-058	Identification of Preferred 200m Pipeline Corridor: 110 to 115km
32105801-FOAR-059	Identification of Preferred 200m Pipeline Corridor: 115 to 120km
32105801-FOAR-060	Identification of Preferred 200m Pipeline Corridor: 120 to 125km
32105801-FOAR-061	Identification of Preferred 200m Pipeline Corridor: 125 to 130km
32105801-FOAR-062	Identification of Preferred 200m Pipeline Corridor: 130 to 135km
32105801-FOAR-063	Identification of Preferred 200m Pipeline Corridor: 135 to 140km
32105801-FOAR-064	Identification of Preferred 200m Pipeline Corridor: 140 to 145km
32105801-FOAR-065	Identification of Preferred 200m Pipeline Corridor: 145to 150km
32105801-FOAR-066	Identification of Preferred 200m Pipeline Corridor: 150 to 155km
32105801-FOAR-067	Identification of Preferred 200m Pipeline Corridor: 155 to 160km
32105801-FOAR-068	Identification of Preferred 200m Pipeline Corridor: 160 to 165km
32105801-FOAR-069	Identification of Preferred 200m Pipeline Corridor: 165 to 170km
32105801-FOAR-070	Identification of Preferred 200m Pipeline Corridor: 170 to 175km





Key

- Centreline of Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	0 to 1 km	1 to 2 km	2 to 3 km	3 to 4 km	4 to 5 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	- Engineering: Selection of least constrained abstraction point and water treatment plant - Ecology: Semi-natural/native and potentially alluvial woodland - Landscape & Visual: Designed landscape & woodland.	- Engineering: Selection of least constrained abstraction point and water treatment plant	- Engineering: Selection of least constrained abstraction point and water treatment plant	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings. Landscape & Visual: riparian woodland Ecology: alluvial woodland, Lower Shannon SAC Traffic: regional road crossing	None currently identified.	Population: local dwellings. Water: watercourse crossings	Ecology: badget sett, riparian zone	Ecology: riparian zone Landscape & Visual: riparian woodland. Traffic: regional road crossing

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

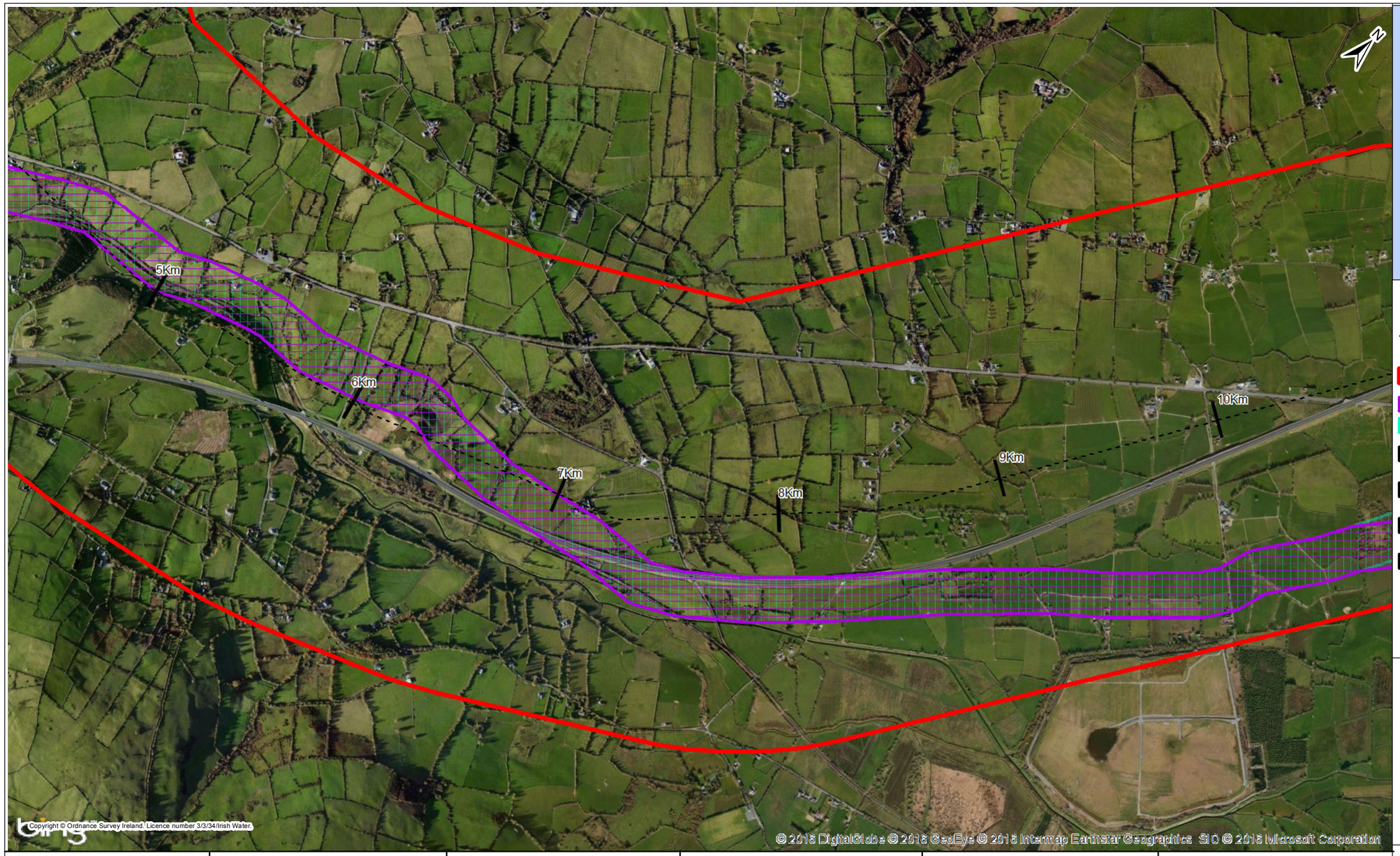
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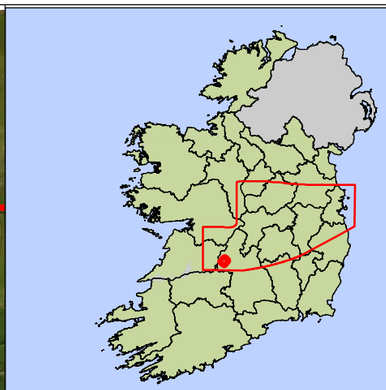
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Drawing No.: 32105801-FOAR-036

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	5 to 6 km	6 to 7 km	7 to 8 km	8 to 9 km	9 to 10 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: riparian zones, otter signs Population: local dwellings. Water: watercourse crossings	Ecology: riparian zone, badger sett	None currently identified.	Traffic: motorway crossing	Population: local dwellings.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

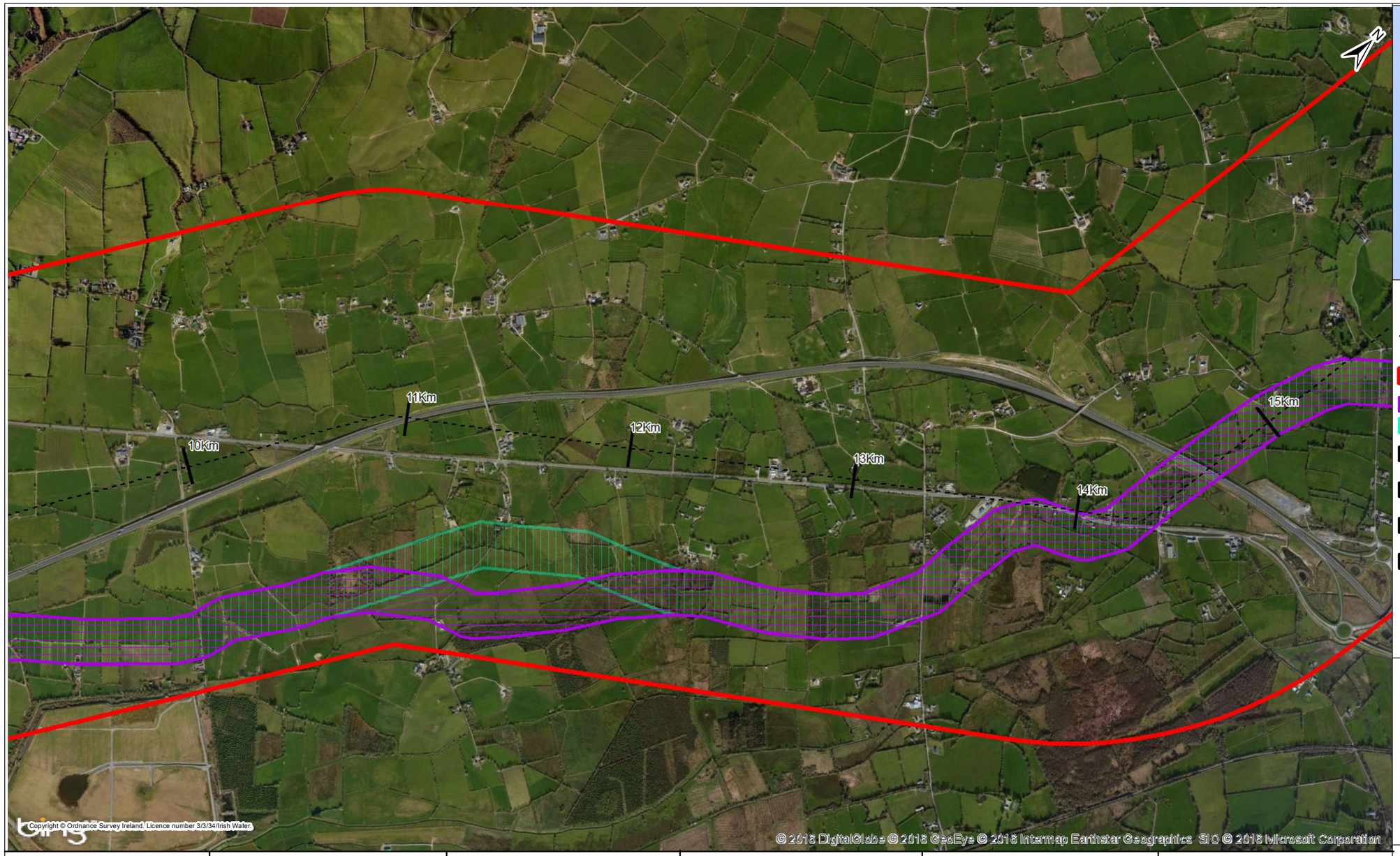
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 5 to 10 km

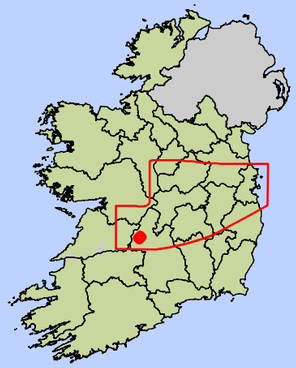
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Drawing No.: 32105801-FOAR-037

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	10 to 11 km	11 to 12 km	12 to 13 km	13 to 14 km	14 to 15 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Population: reduced human impact	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise. Traffic: local road footprint	Material assets: local enterprise.	Population: local dwellings.	Material assets: local enterprise.	None currently identified.

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

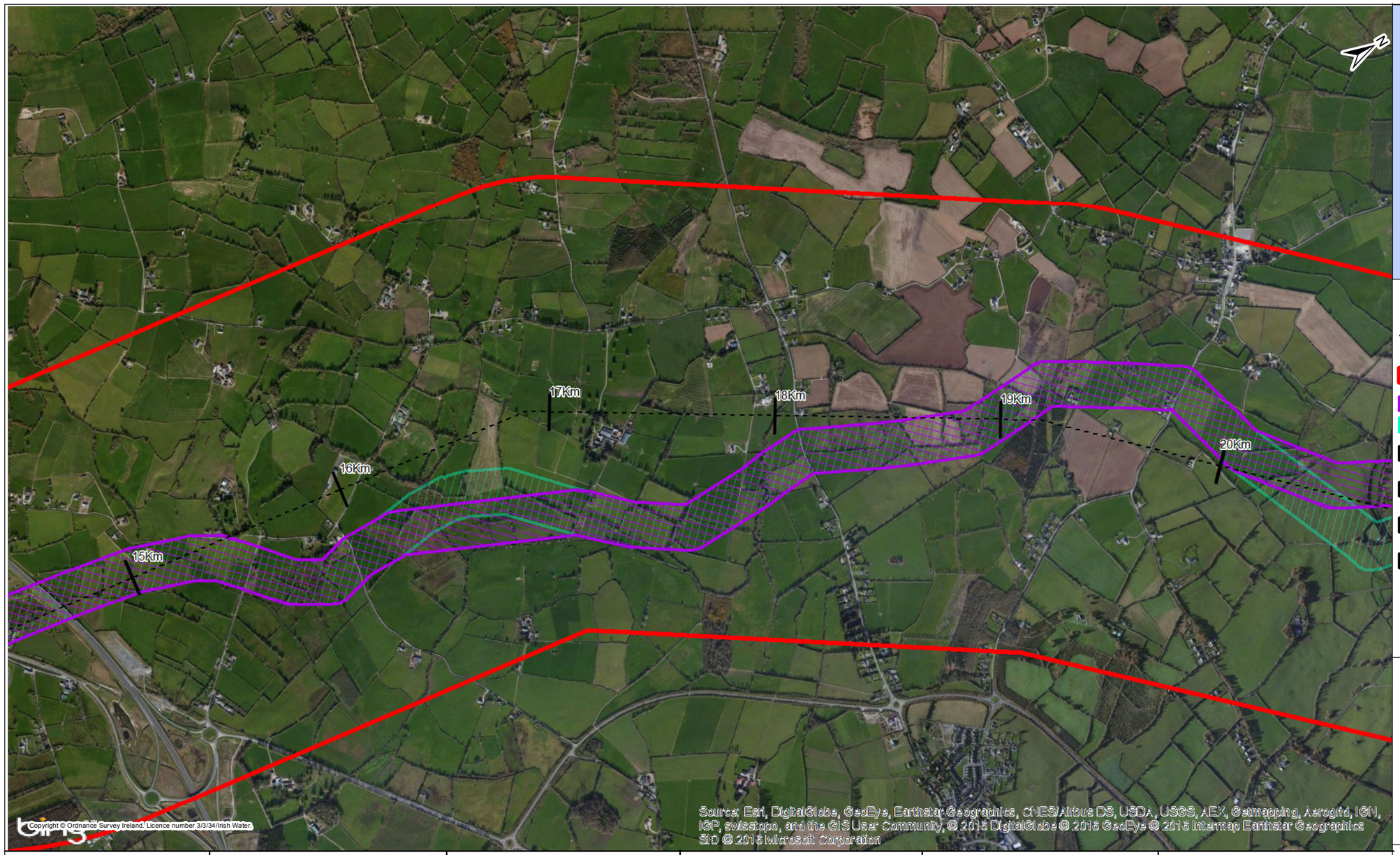
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 10 to 15 km

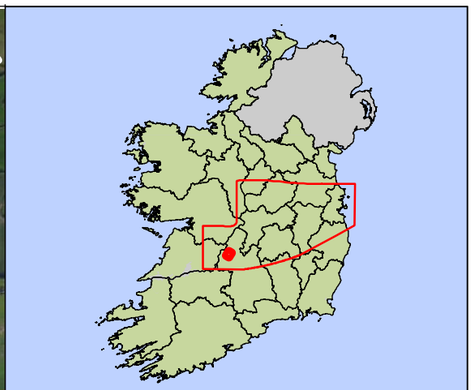
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Drawing No.: 32105801-FOAR-038

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	15 to 16 km	16 to 17 km	17 to 18 km	18 to 19 km	19 to 20 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Population: reduced human impact	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Water: proximity to watercourse. Material assets: local enterprise. Traffic: regional road & motorway crossing	None currently identified.	Water: watercourse crossings Material assets: local enterprise.	Landscape & Visual: designed landscape. Material assets: local enterprise. Ecology - close proximity to river, badger sett.	None currently identified.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

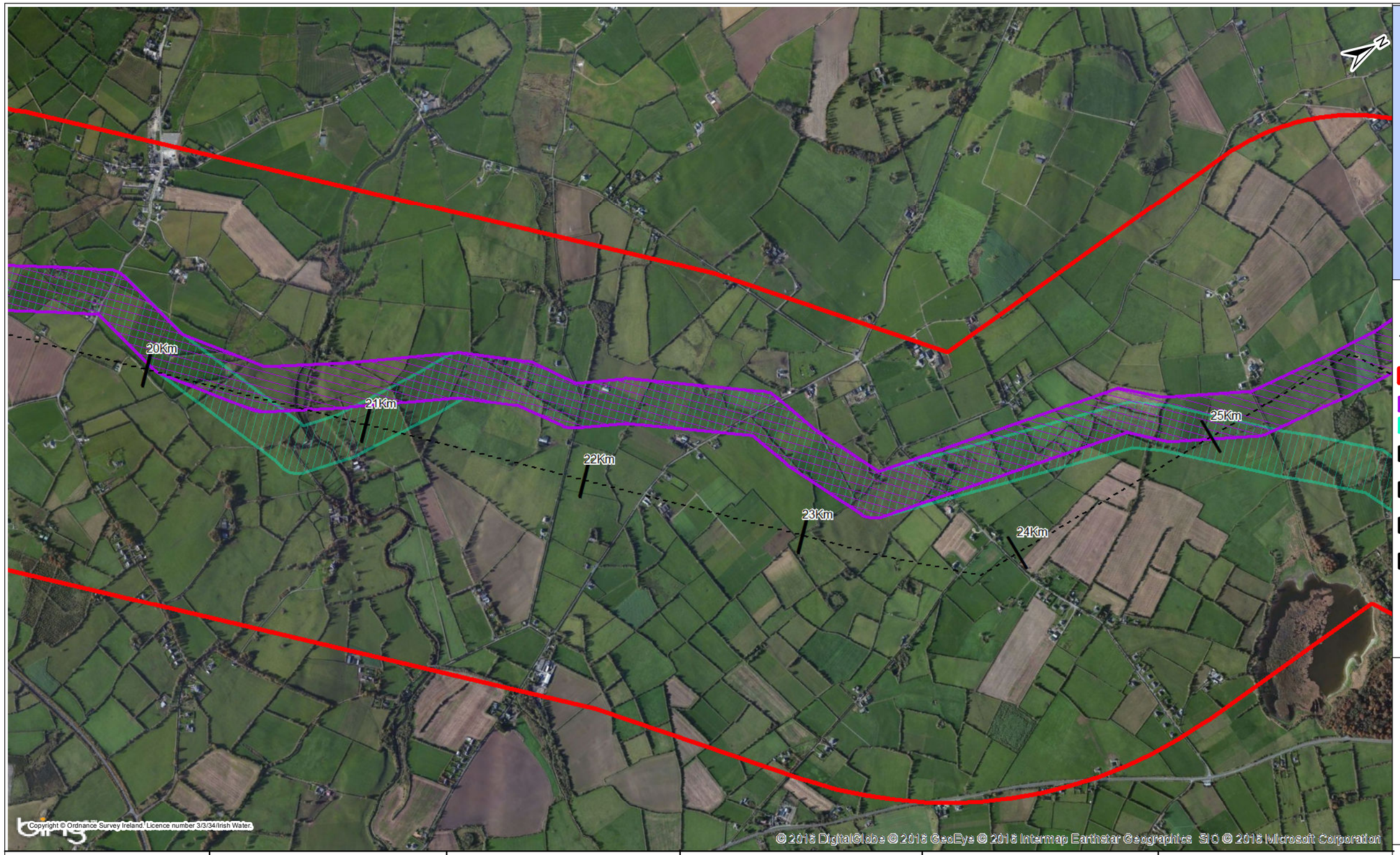
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 15 to 20 km

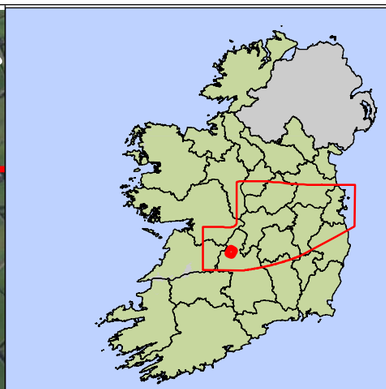
Drawing Status: **For Issue**

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Drawing No.: 32105801-FOAR-039

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

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

Chainage	20 to 21 km	21 to 22 km	22 to 23 km	23 to 24 km	24 to 25 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	- Archaeology: Protected Structure (Ballyanymore House) - Landscape & Visual: designed landscape	- Archaeology: Protected Structure (Ballyanymore House) - Landscape & Visual: designed landscape	No change to route.	No change to route.	Population: reduced human impact
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings. Ecology: badger sett	None currently identified.	None currently identified.	Material assets: local enterprise.	Material assets: local enterprise. Traffic: road crossing

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

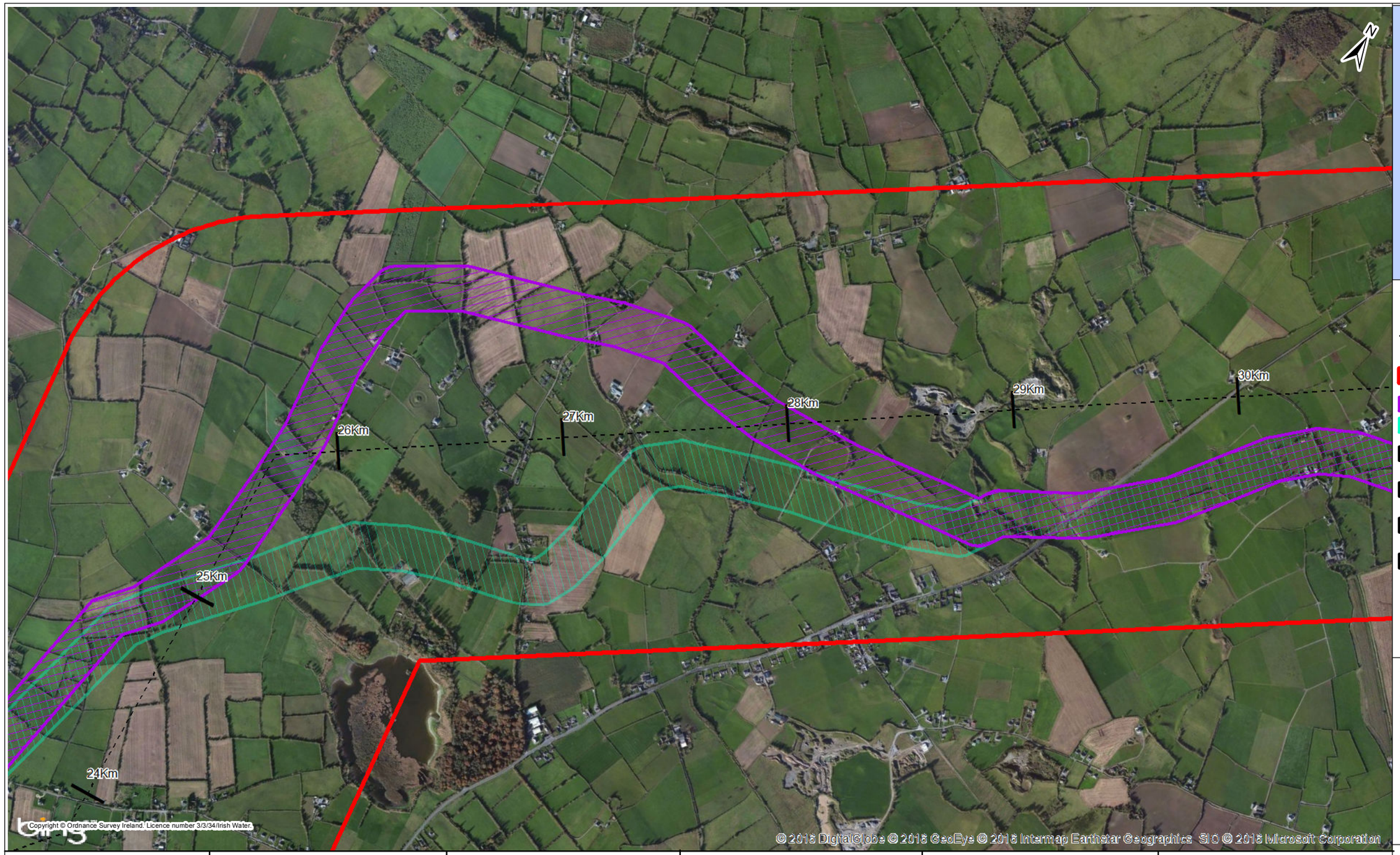
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 20 to 25 km

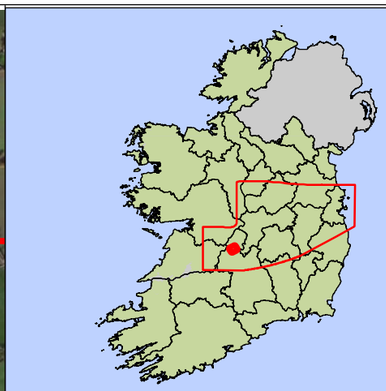
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Drawing No.: 32105801-FOAR-040

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	25 to 26 km	26 to 27 km	27 to 28 km	28 to 29 km	29 to 30 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	- Ecology: Proposed Natural Heritage Area (Lough Ourna) - bat roost/foraging corridor, snipe and woodcock breeding, woodland - Hydrogeology: Lough Eorna	- Ecology: Proposed Natural Heritage Area (Lough Ourna) - bat roost/foraging corridor, snipe and woodcock breeding, woodland - Hydrogeology: Lough Eorna	- Hydrogeology: Ardcroney Turloughs (groundwater)	- Hydrogeology: Ardcroney Turloughs (groundwater)	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise. Traffic: road crossing	Soils: groundwater impacts in wetland	Soils: groundwater impacts in wetland	Soils: groundwater impacts in wetland Traffic: road crossing Cultural Heritage: recorded monuments	Soils: groundwater impacts in wetland Landscape & Visual: mature trees

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

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Project: Water Supply Project - Eastern and Midlands Region

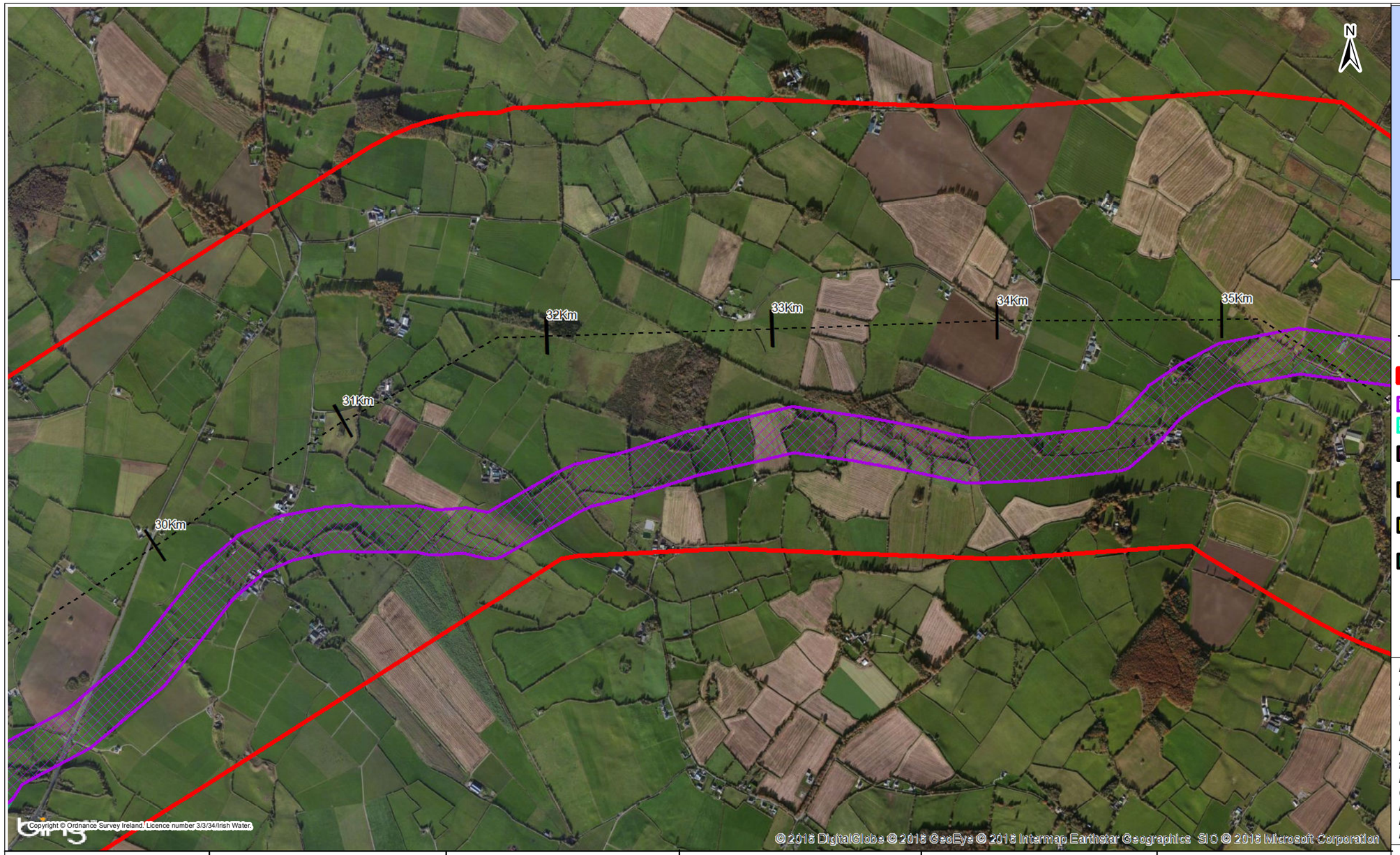
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 25 to 30 km

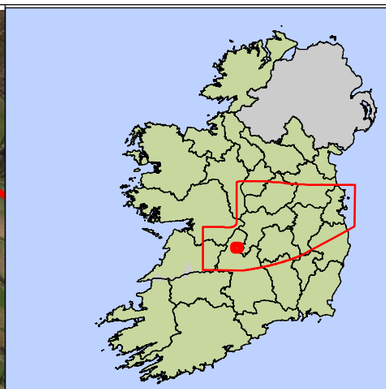
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Drawing No.: 32105801-FOAR-041

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Key

- Centreline of Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	30 to 31 km	31 to 32 km	32 to 33 km	33 to 34 km	34 to 35 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise. Ecology: esker & badger sett	Material assets: local enterprise. Traffic: local road junction	Soils: karst features. Material assets: local enterprise. Water: watercourse crossings. Cultural Heritage: enclosure.	Soils: karst features. Material assets: local enterprise. Ecology: badger sett.	Ecology: badger sett, woodland.

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

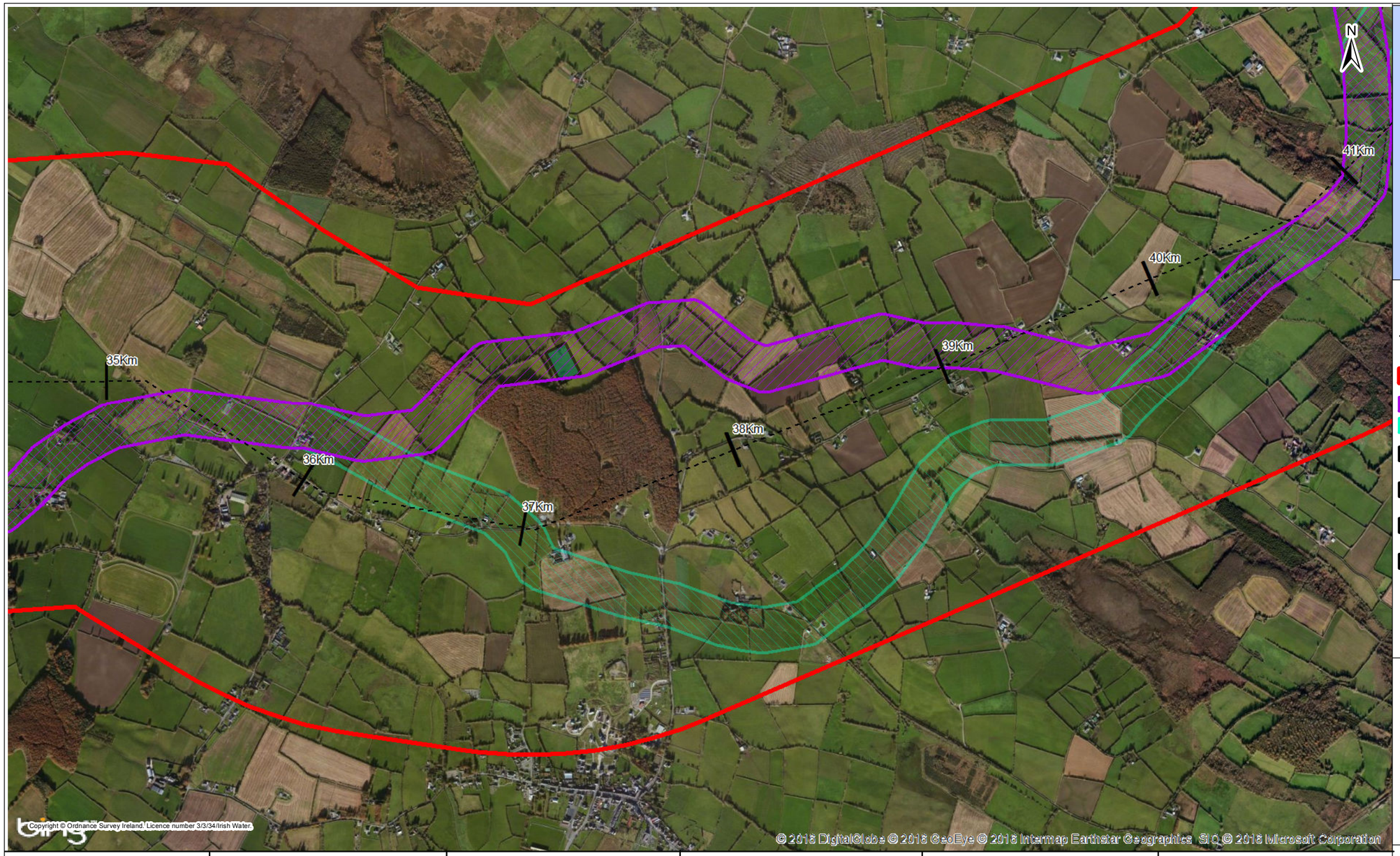
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 30 to 35 km

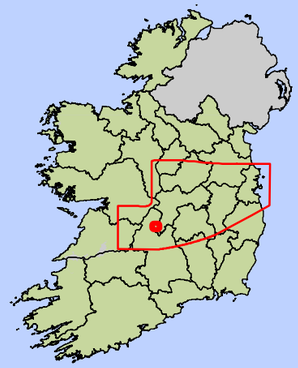
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Drawing No.: 32105801-FOAR-042

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	35 to 36 km	36 to 37 km	37 to 38 km	38 to 39 km	39 to 40 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Engineering: selection of break pressure tank location at higher elevation	Engineering: selection of break pressure tank location at higher elevation	Engineering: selection of break pressure tank location at higher elevation	Engineering: selection of break pressure tank location at higher elevation
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise, stud farm. Ecology: lapwing breeding & wet grassland	Material assets: local enterprise. Traffic: regional road crossing	Material assets: local enterprise. Population: local dwellings. Landscape & Visual: recreational amenity	Landscape & Visual: recreational amenity Cultural Heritage: recorded monuments	Landscape & Visual: recreational amenity Traffic: road crossing

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preferred 200m Pipeline Corridor : 35 to 40 km

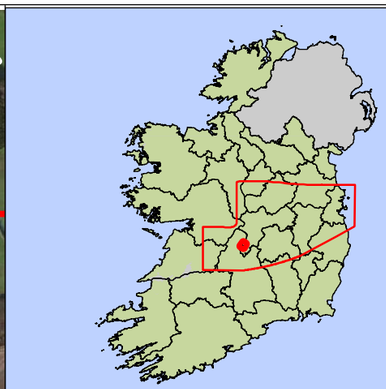
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Drawing No.: 32105801-FOAR-043

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Key

- Centreline of Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-

Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor

Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report

Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	40 to 41 km	41 to 42 km	42 to 43 km	43 to 44 km	44 to 45 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Ecology: Molinia grassland, willow/alder scrub, quaking mire. Potentially corresponding to Annex I complex.	Ecology: Wetlands, for wintering birds, WS recorded. Connectivity corridor	Landscape & Visual: wooded lake and walled garden Water: small lake	Ecology: Cangort Bog NHA and potential bat roost, mature trees
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Landscape & Visual: recreational amenity Traffic: road crossing	Traffic: road crossing Material assets: local enterprise.	Ecology: broadleaved woodland	Ecology: semi-natural woodland. Water: watercourse crossings Traffic: road crossings	Landscape & Visual: recreational amenity Traffic: road crossing

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

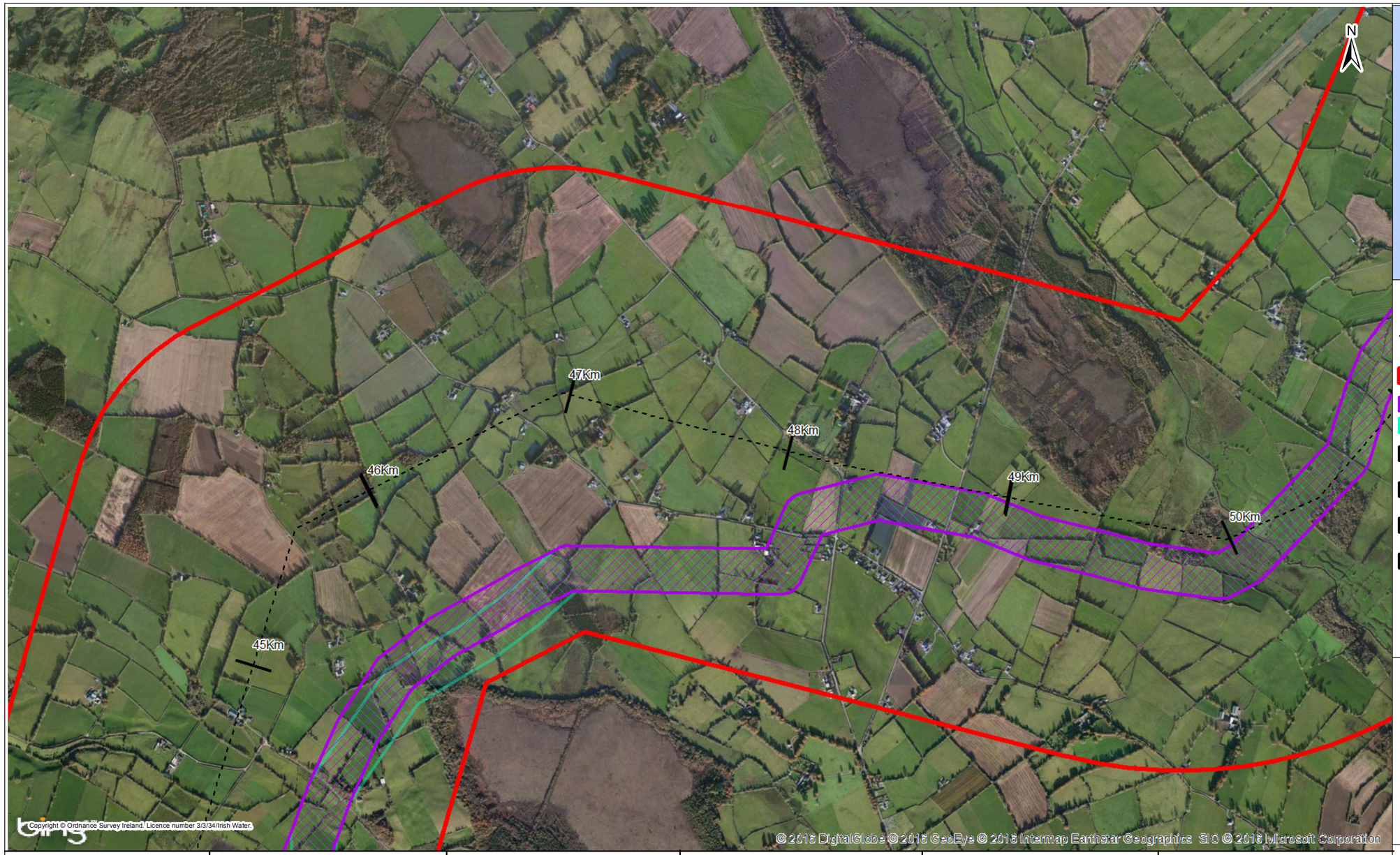
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 40 to 45 km

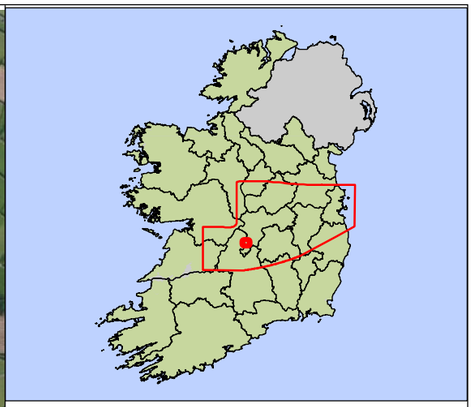
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Drawing No.: 32105801-FOAR-044

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	45 to 46 km	46 to 47 km	47 to 48 km	48 to 49 km	49 to 50 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Ecology: Cangort Bog NHA and potential bat roost, mature trees	Ecology: Cangort Bog NHA and potential bat roost, mature trees	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Cultural Heritage: demesne.	Traffic: road crossing	None currently identified.	None currently identified.	Material assets: local enterprise. Traffic: local road junction

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

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Project: Water Supply Project - Eastern and Midlands Region

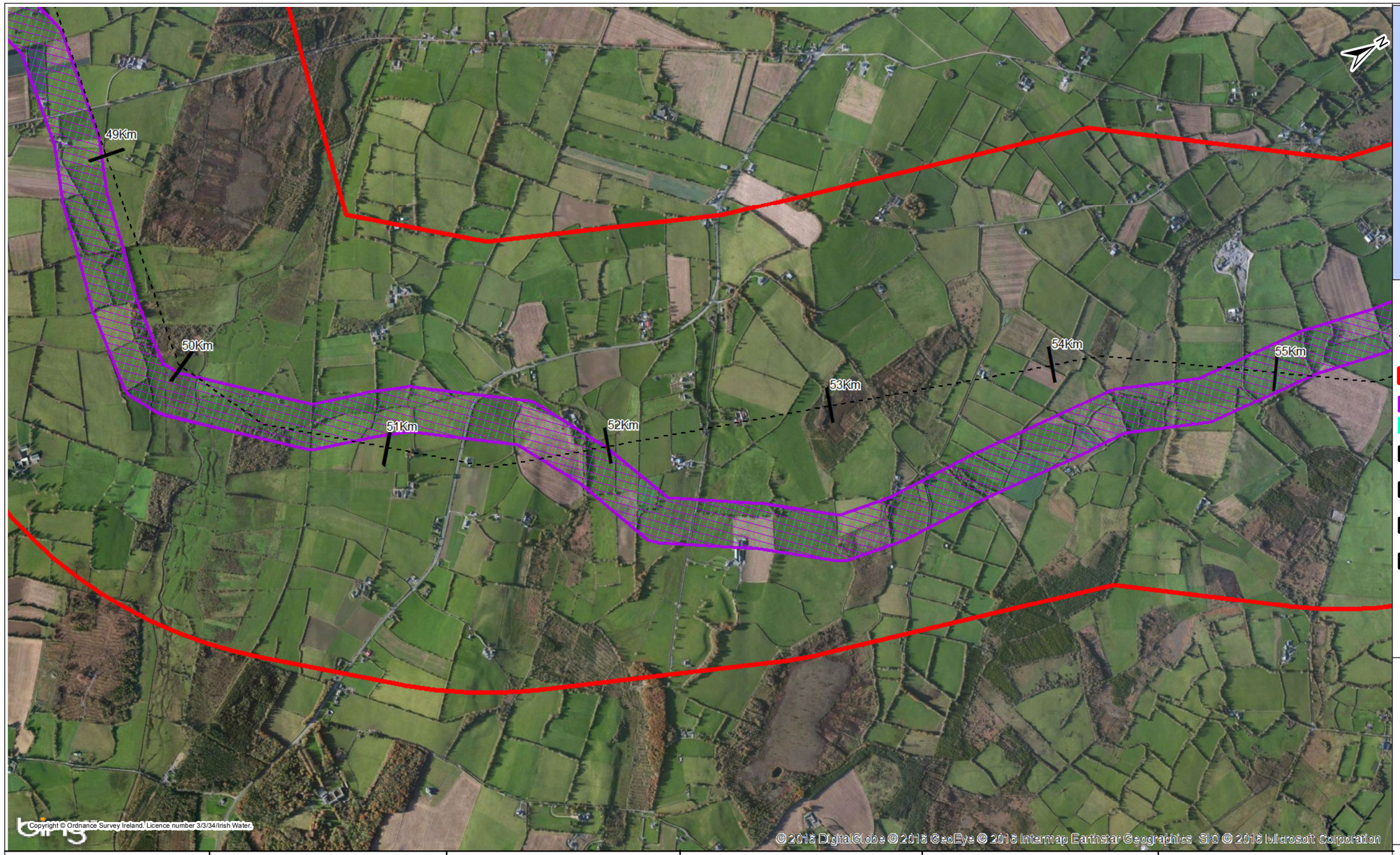
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 45 to 50 km

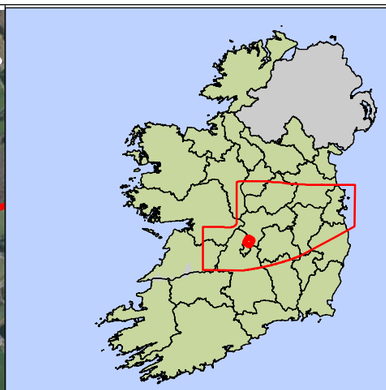
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Drawing No.: 32105801-FOAR-045

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	50 to 51 km	51 to 52 km	52 to 53 km	53 to 54 km	54 to 55 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise.	Soils: Little Brosna river crossing Ecology: broadleaved woodland	Soils: Little Brosna river crossing Ecology: broadleaved woodland Traffic: national secondary road crossing	None currently identified.	Ecology: Pine Martin, bat roost potential

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

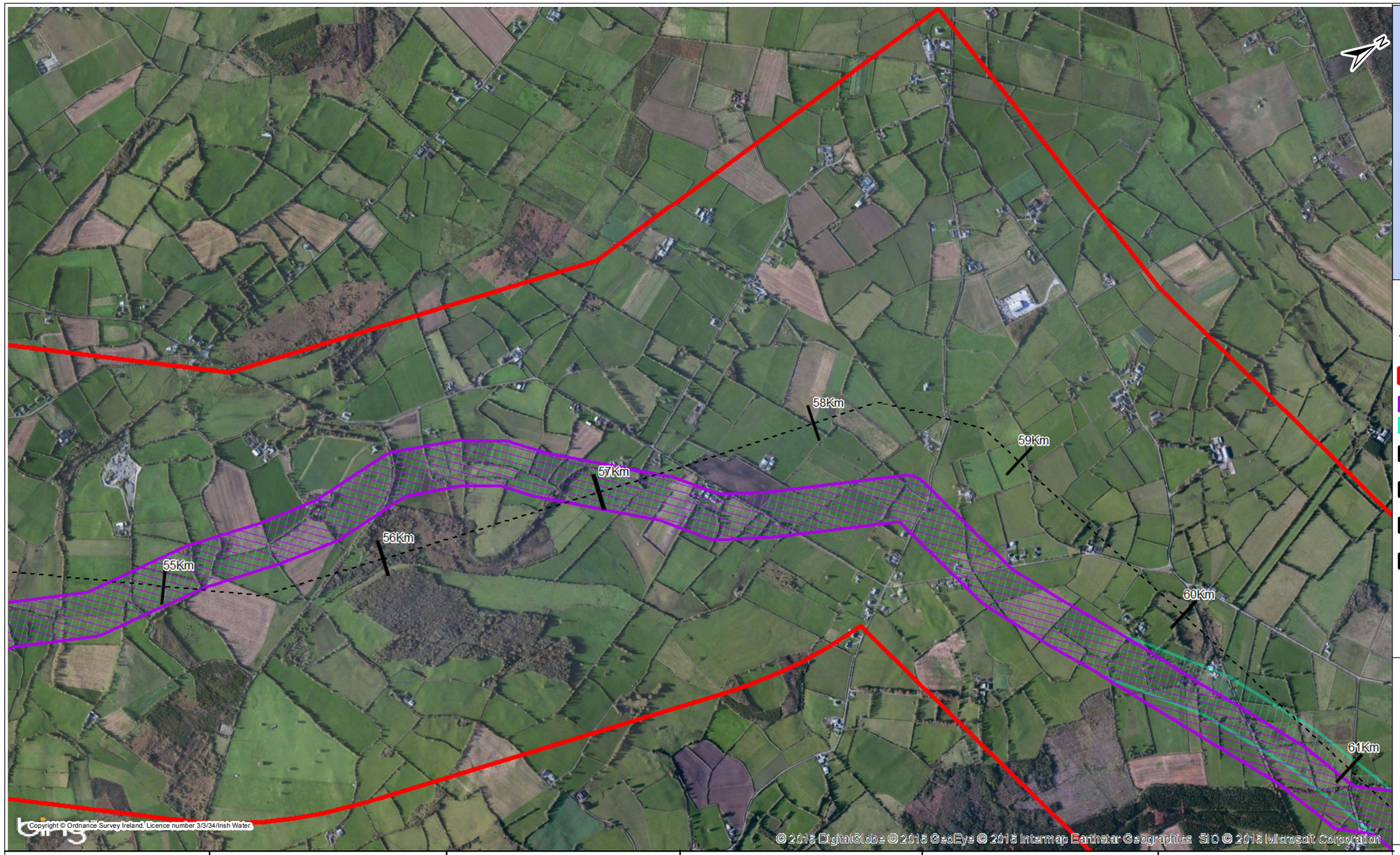
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 50 to 55 km

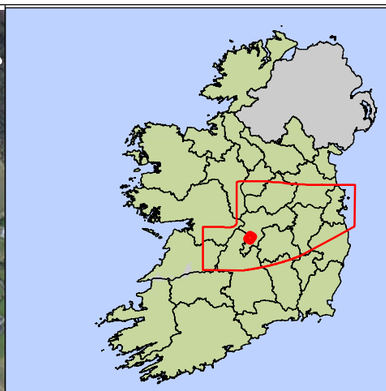
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Drawing No.: 32105801-FOAR-046

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	55 to 56 km	56 to 57 km	57 to 58 km	58 to 59 km	59 to 60 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Soils: Lisduff Fen. Population: local dwellings. Ecology: badger sett, woodland	Soils: Lisduff Fen. Ecology: badger sett.	Soils: Lisduff Fen. Ecology: badger sett.	Material assets: local enterprise. Population: local dwellings.	Material assets: local enterprise.

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

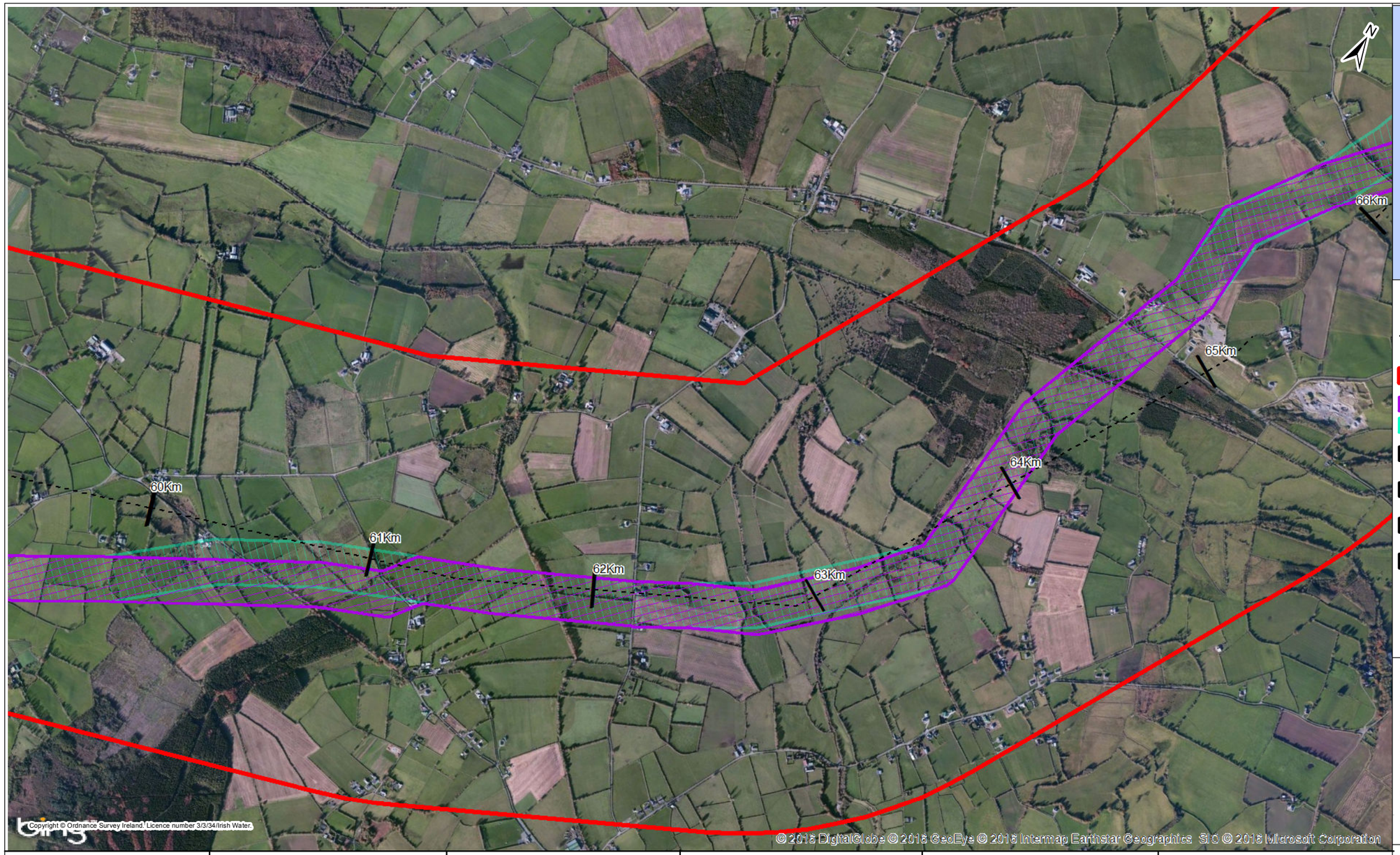
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 55 to 60 km

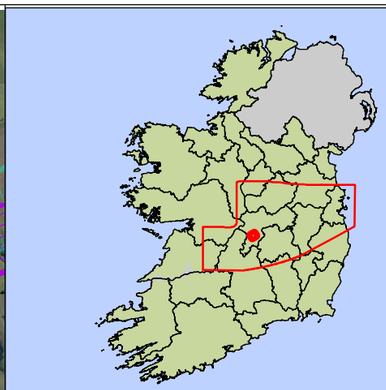
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Drawing No.: 32105801-FOAR-047

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	60 to 61 km	61 to 62 km	62 to 63 km	63 to 64 km	64 to 65 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduced human impact	Population: reduce human impacts	Population: reduced human impact	Population: reduced human impact	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings.	Material assets: local enterprise.	Material assets: local enterprise. Water: watercourse crossings Ecology: otter, crayfish & bat roost potential	Material assets: local enterprise. Ecology: otter, crayfish & bat roost potential	Material assets: local enterprise.

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

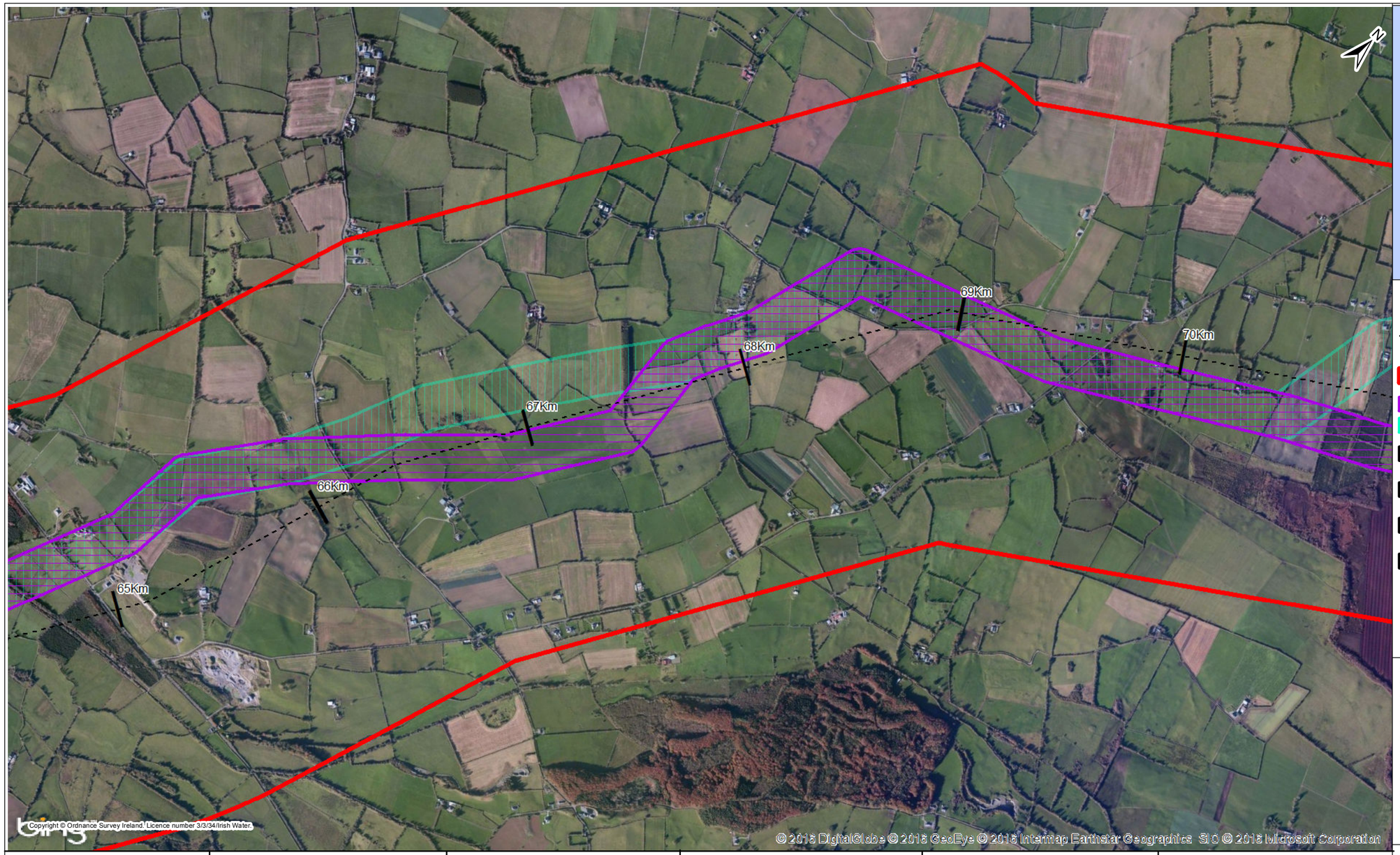
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 60 to 65 km

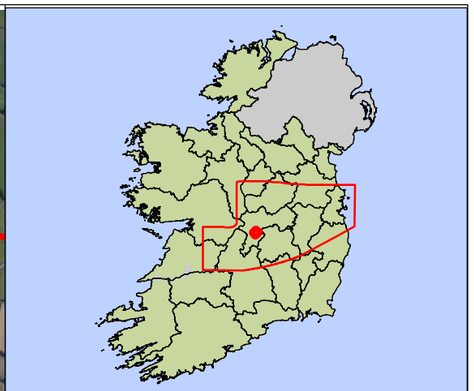
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Drawing No.: 32105801-FOAR-048

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	65 to 66 km	66 to 67 km	67 to 68 km	68 to 69 km	69 to 70 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Ecology: Annex I Fen habitat, potential obstruction of groundwater pathway and mature woodland.	Ecology: Annex I Fen habitat, potential obstruction of groundwater pathway and mature woodland.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	Ecology: broadleaved woodland. Population: local dwellings.	Water: watercourse crossing. Traffic: road crossing	Water: watercourse crossing. Material assets: local enterprise.	Traffic: road crossing

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preferred 200m Pipeline Corridor : 65 to 70 km

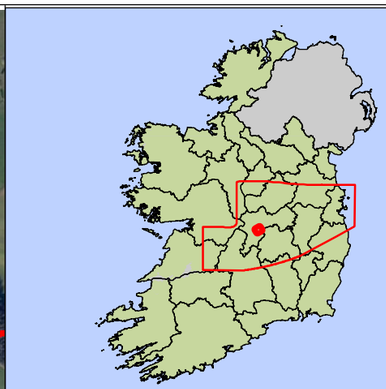
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Drawing No.: 32105801-FOAR-049

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	70 to 71 km	71 to 72 km	72 to 73 km	73 to 74 km	74 to 75 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduced human impact	Population: reduced human impact	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	Ecology: badger sett, mature trees	Ecology: badger sett. Population: local dwellings.	None currently identified.	Ecology: badger sett. Material assets: local enterprise. Water: proximity to watercourse.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

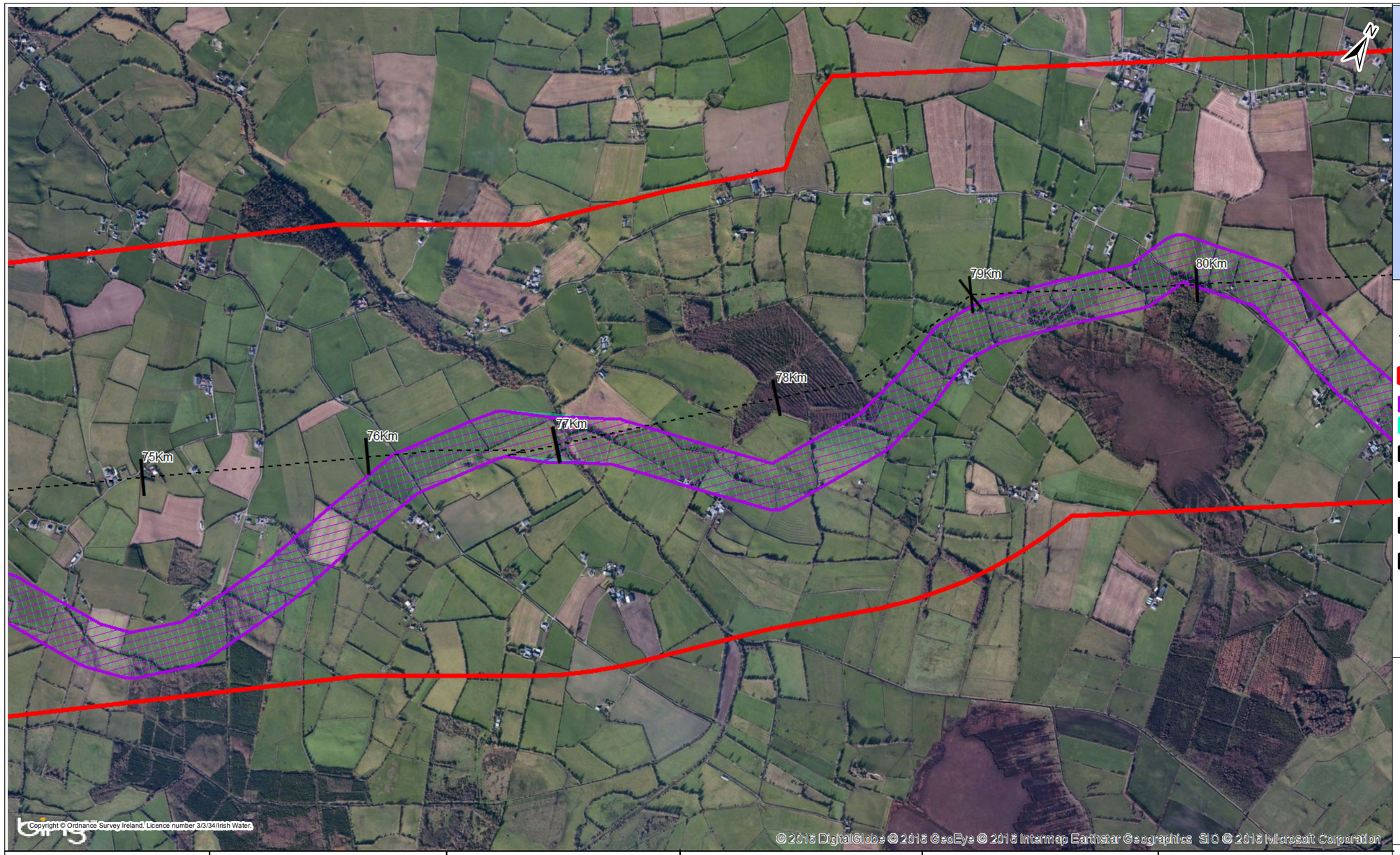
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 70 to 75 km

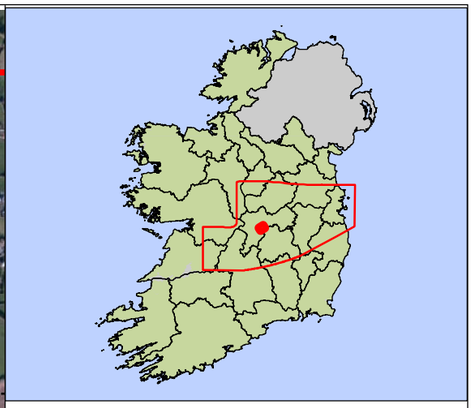
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Drawing No.: 32105801-FOAR-050

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	75 to 76 km	76 to 77 km	77 to 78 km	78 to 79 km	79 to 80 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings.	None currently identified.	Ecology: plantation forestry Material assets: local enterprise.	Material assets: local enterprise. Water: close proximity to watercourse.	Material assets: local enterprise. Tourism: walking trail. Ecology: Silver River (otter, badger sett, crayfish)

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

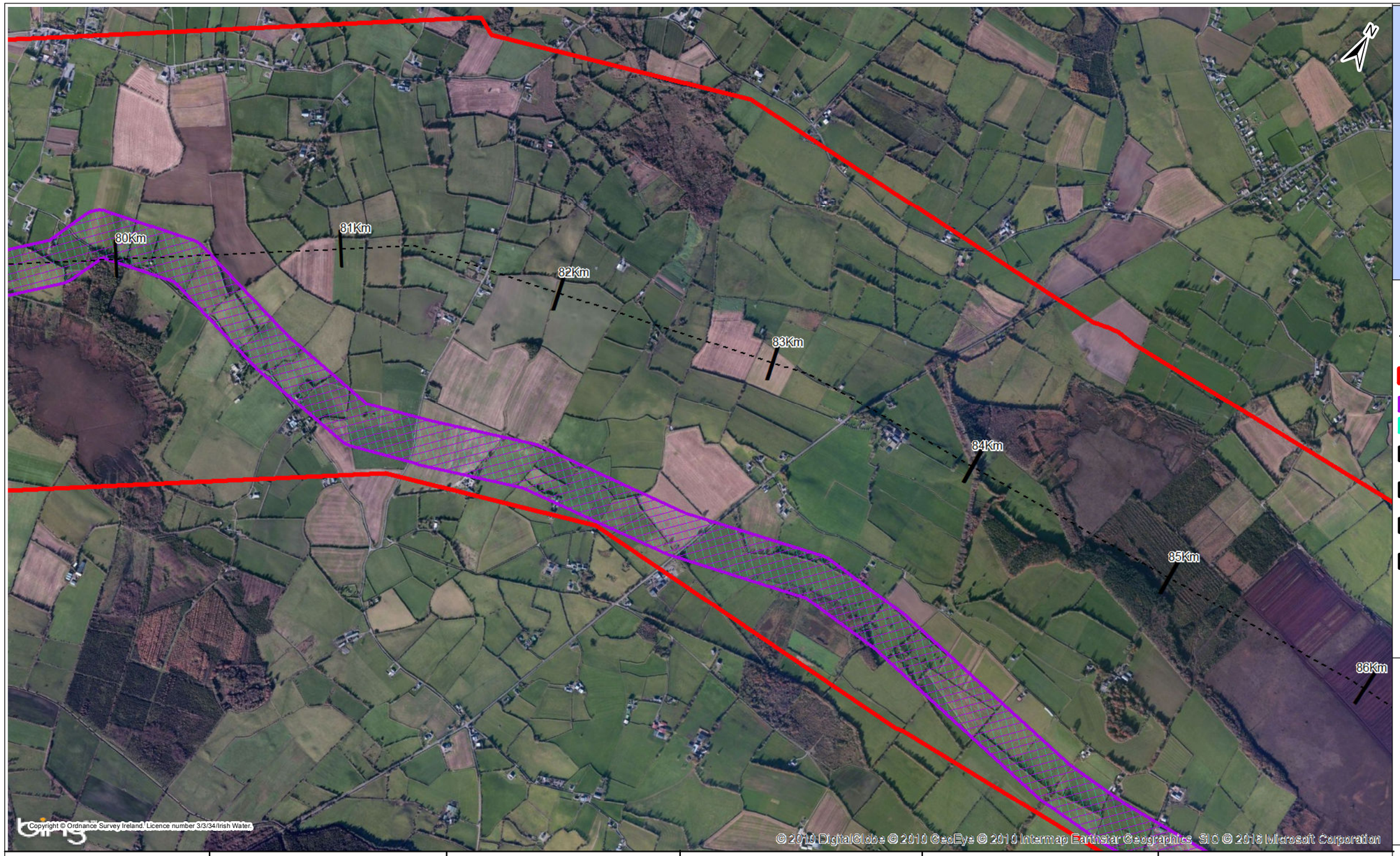
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 75 to 80 km

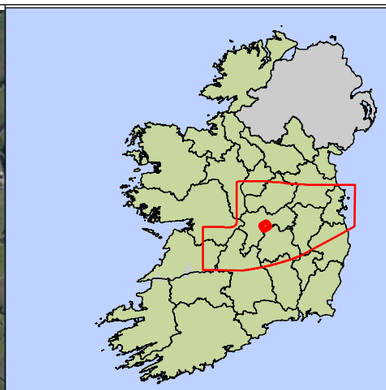
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Drawing No.: 32105801-FOAR-051

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	80 to 81 km	81 to 82 km	82 to 83 km	83 to 84 km	84 to 85 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings. Material assets: local enterprise.	Ecology: badger sett, otter holt & frog Traffic: local road junction	Ecology: spotted flycatcher Population: local dwellings. Traffic: local road junction	Ecology: badger sett, Pine Martin Population: local dwellings. Material assets: local enterprise.	Material assets: local enterprise.

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

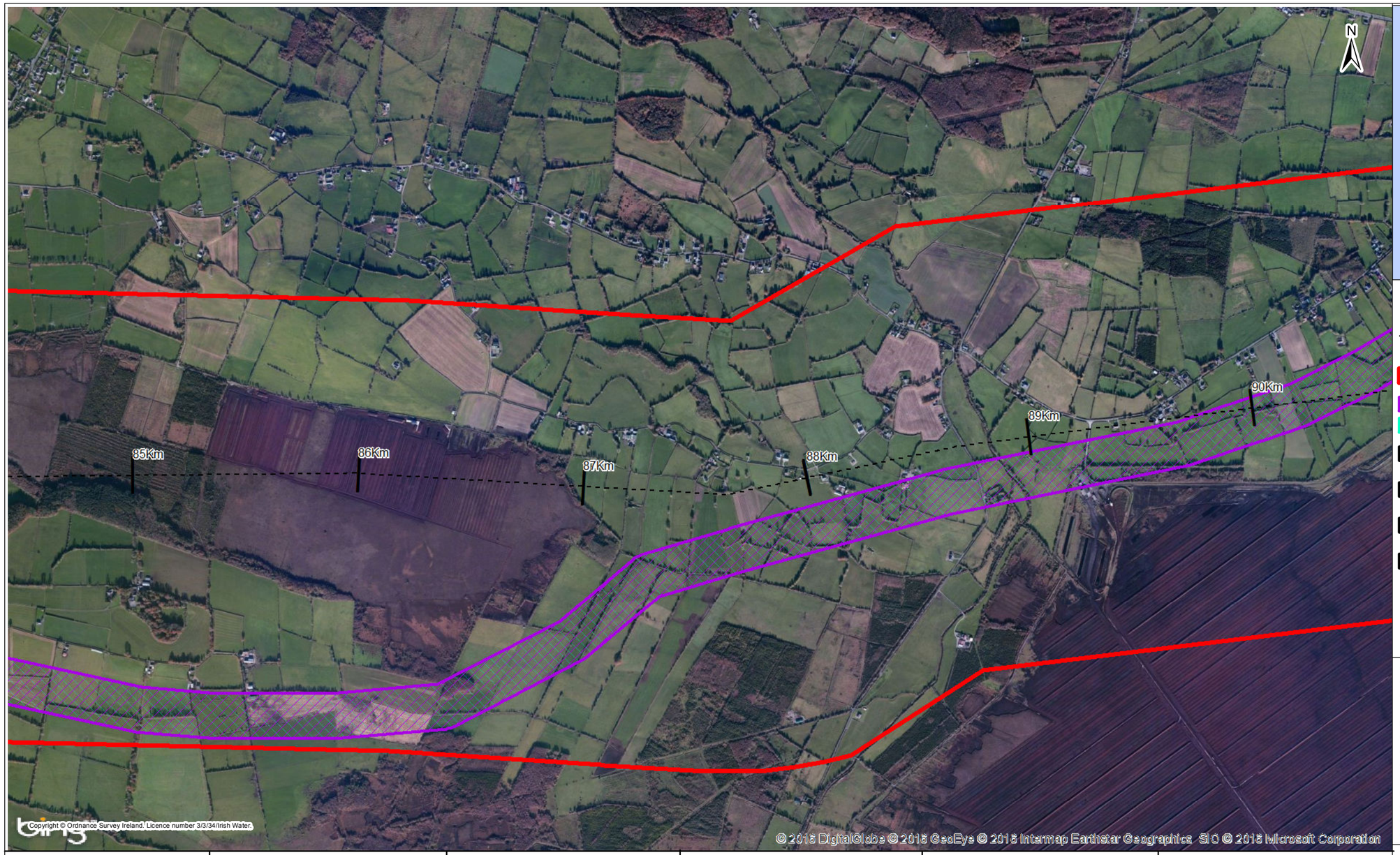
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 80 to 85 km

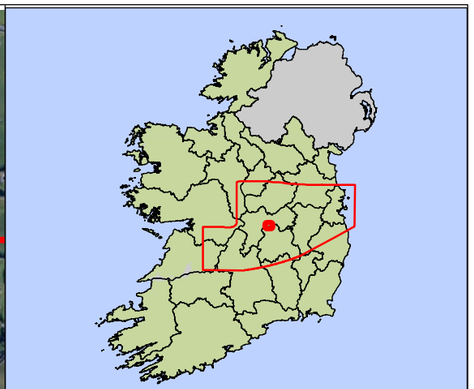
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Drawing No.: 32105801-FOAR-052

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	85 to 86 km	86 to 87 km	87 to 88 km	88 to 89 km	89 to 90 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise.	Ecology: broadleaved woodland. Water: watercourse crossing.	Soils: Annaghmore Fen.	Soils: Annaghmore Fen.	Ecology: birch woodland. Soils: Annaghmore Fen.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preferred 200m Pipeline Corridor : 85 to 90 km

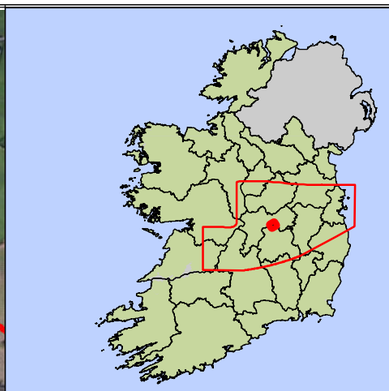
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Drawing No.: 32105801-FOAR-053

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	90 to 91 km	91 to 92 km	92 to 93 km	93 to 94 km	94 to 95 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Water: watercourse crossing. Material assets: local enterprise.	Water: watercourse crossing. Material assets: local enterprise. Population - local dwellings Ecology - bat roost, badger sett.	Material assets: local enterprise.	None currently identified.	Ecology: badger sett. Population: local dwellings.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

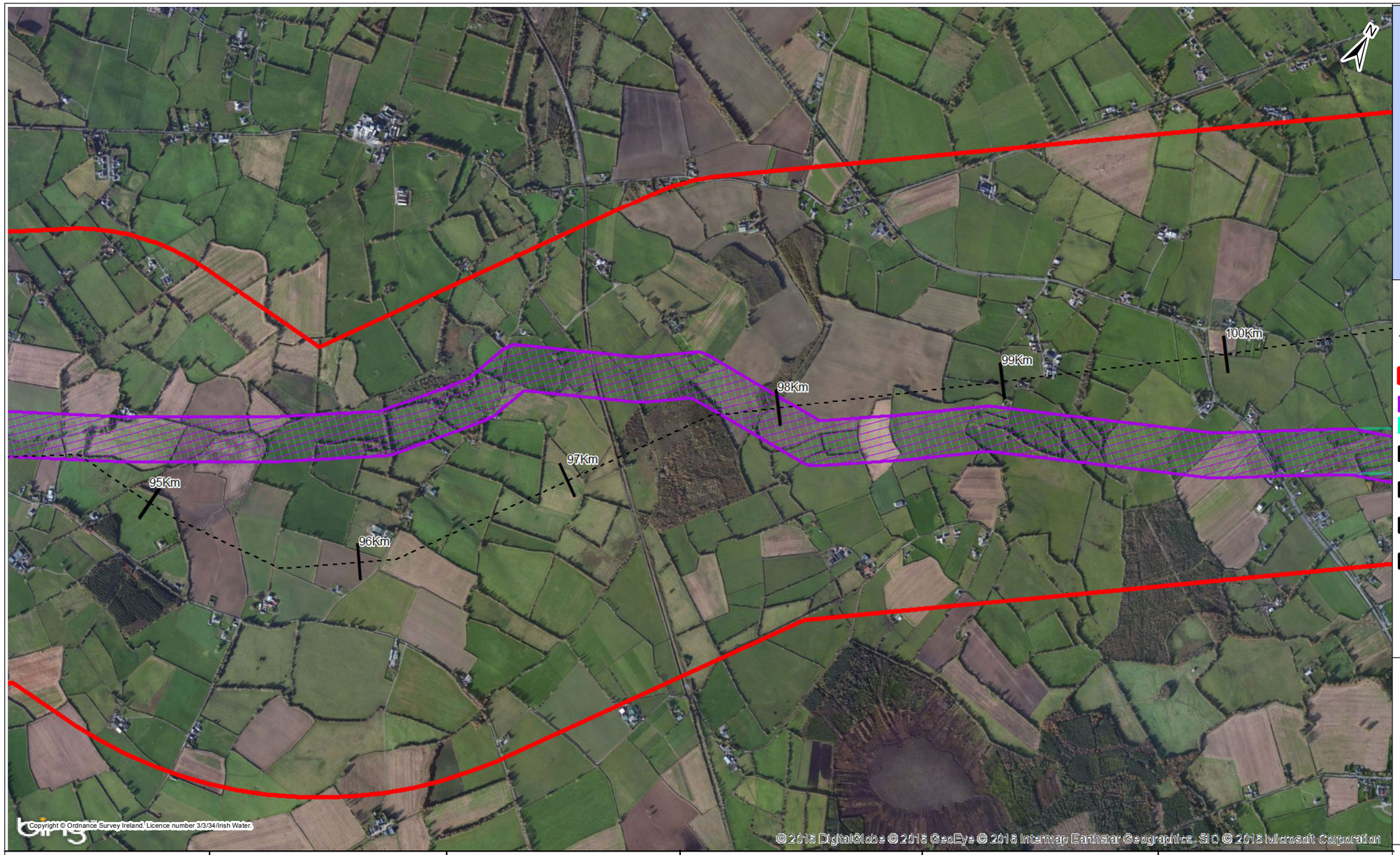
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 90 to 95 km

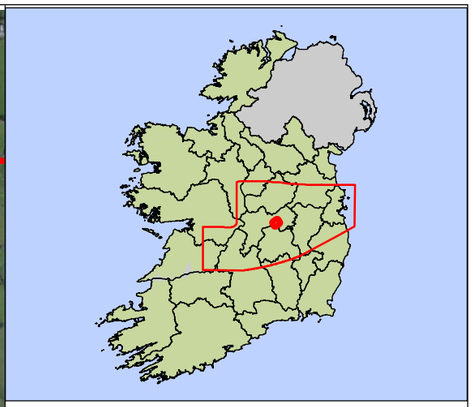
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Drawing No.: 32105801-FOAR-054

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	95 to 96 km	96 to 97 km	97 to 98 km	98 to 99 km	99 to 100 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Water: close proximity to watercourse Traffic: national secondary road crossing	None currently identified.	Soils: Source Protection Zone. Population - local dwellings	None currently identified.	Ecology: Rich fen and Flush Archaeology: moated site Traffic: rail crossing

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

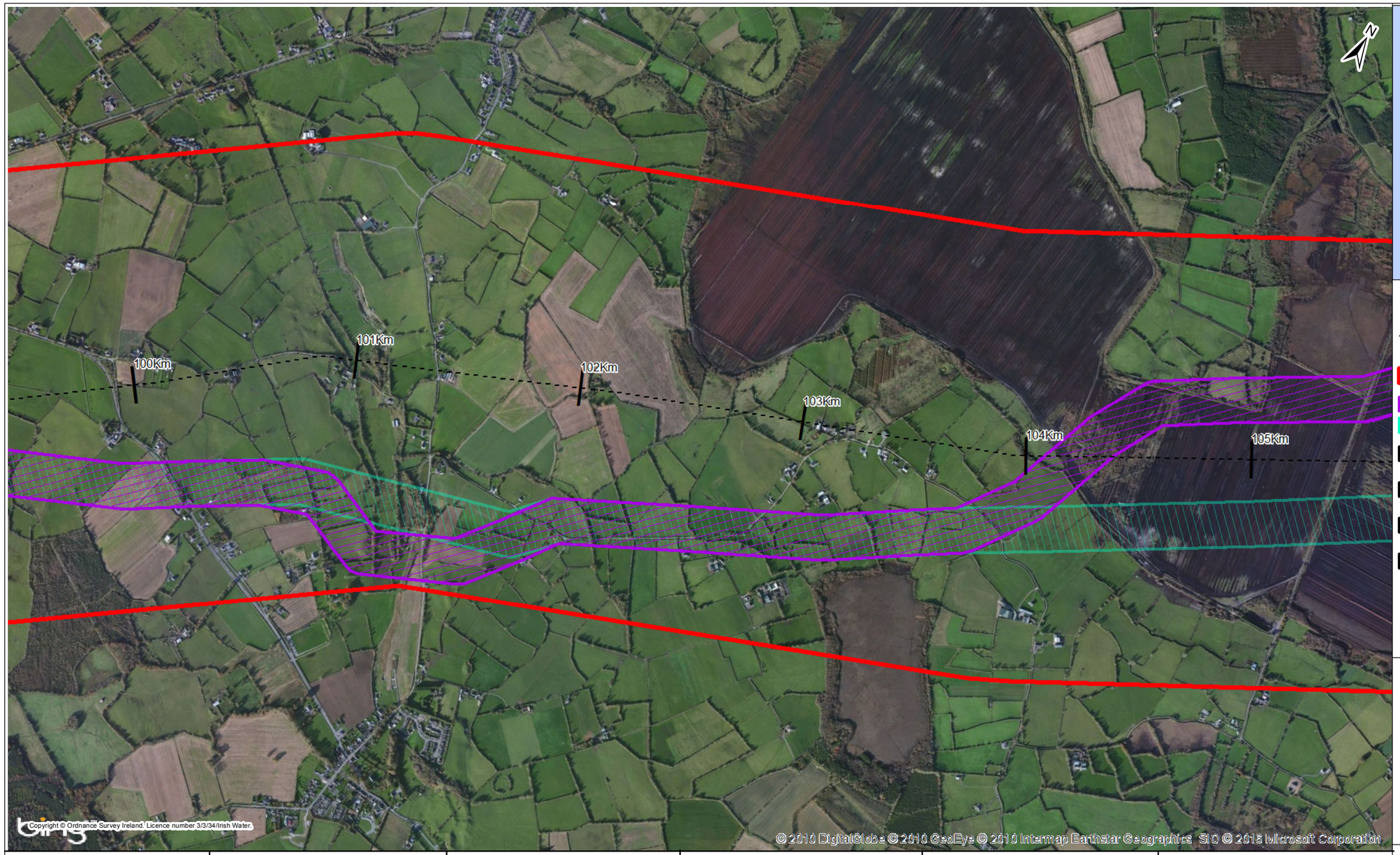
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 95 to 100 km

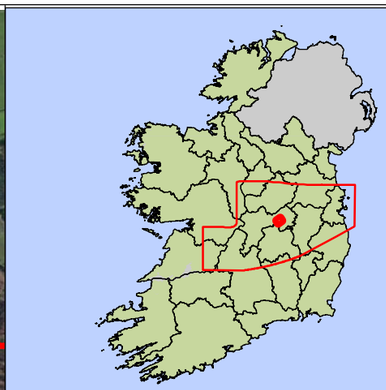
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Drawing No.: 32105801-FOAR-055

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	100 to 101 km	101 to 102 km	102 to 103 km	103 to 104 km	104 to 105 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Ecology: snipe, otter & bat potential, badger sett	No change to route.	No change to route.	Ecology: wetland ponds, raised bog Engineering: windfarm, peat production zones
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: broadleaved woodland.	None currently identified.	None currently identified.	Soils: Source Protection Zone.	Soils: Source Protection Zone. Landscape & Visual: mature trees. Traffic: road crossing.

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

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

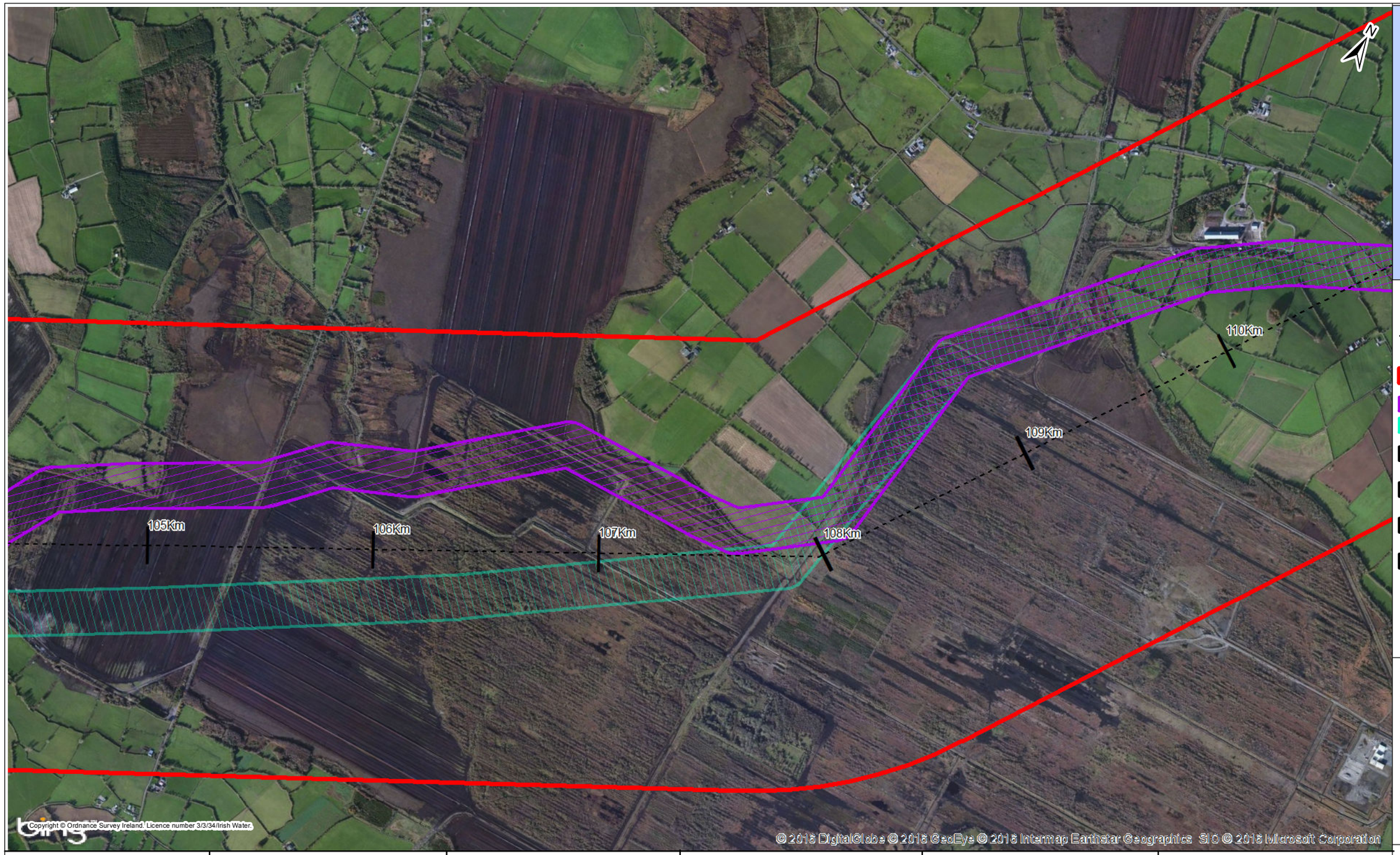
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 100 to 105 km

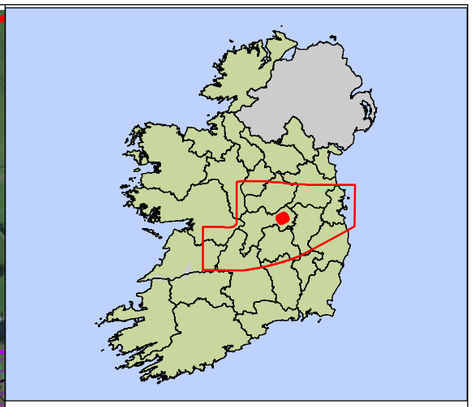
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Drawing No.: 32105801-FOAR-056

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	105 to 106 km	106 to 107 km	107 to 108 km	108 to 109 km	109 to 110 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Ecology: wetland ponds, raised bog Engineering: windfarm, peat production zones	Ecology: wetland ponds, raised bog Engineering: windfarm, peat production zones	Ecology: wetland ponds, raised bog Engineering: windfarm, peat production zones	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	Ecology: raised bog.	Water: close proximity to watercourse	Landscape & Visual: mature trees. Traffic: road crossing.	Traffic: road crossing.

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

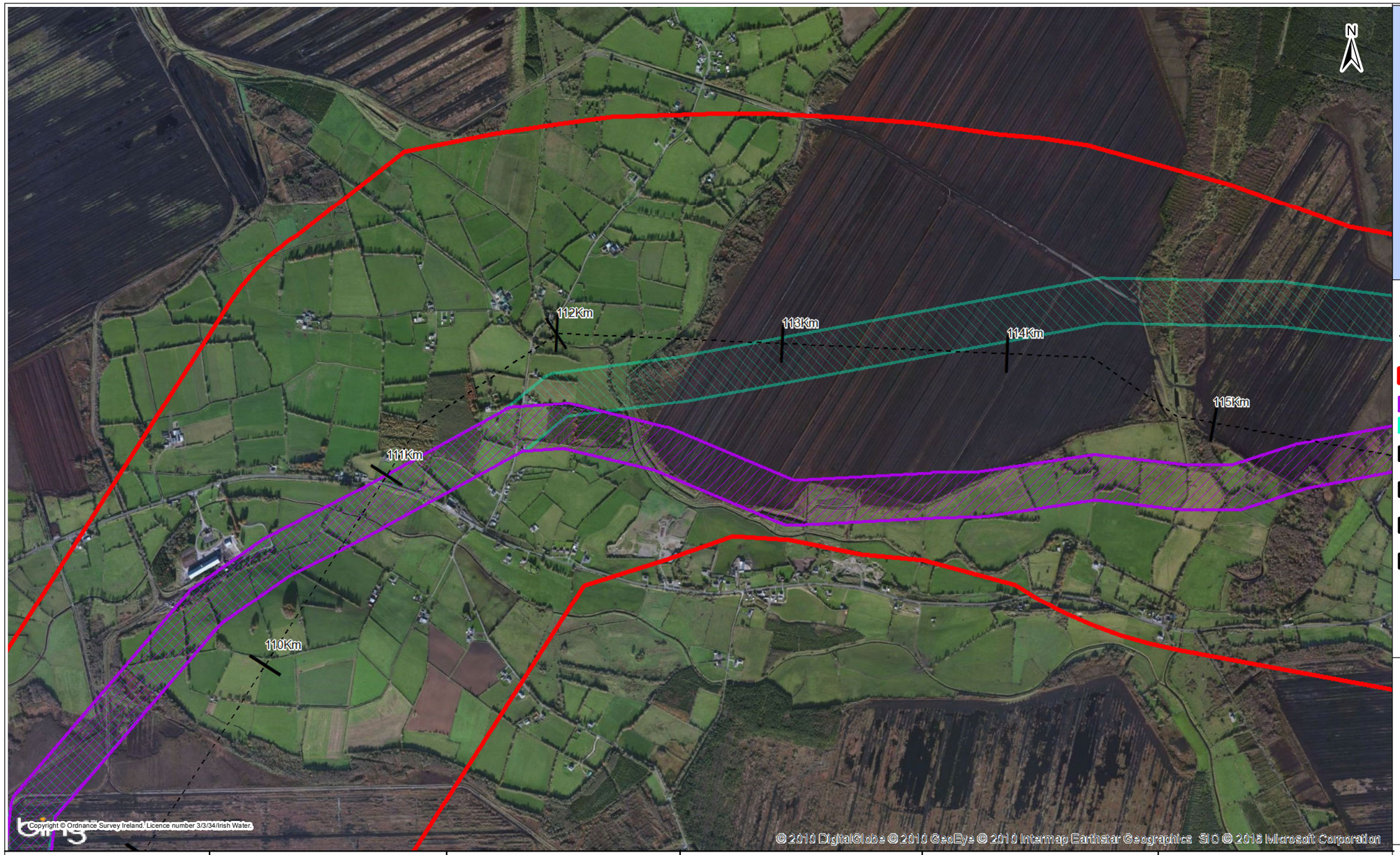
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 105 to 110 km

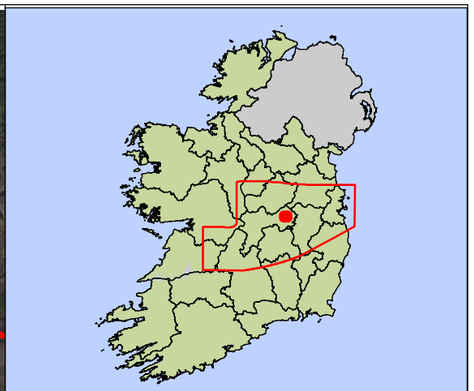
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Drawing No.: 32105801-FOAR-057

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	110 to 111 km	111 to 112 km	112 to 113 km	113 to 114 km	114 to 115 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	Ecology: badger sett	Ecology: heath/bog Soils: intact peat areas.	Ecology: badger sett Cultural Heritage: demesne Soils: intact peat areas.	Water: watercourse crossings. Landscape & Visual: stately home & mature tree lines

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

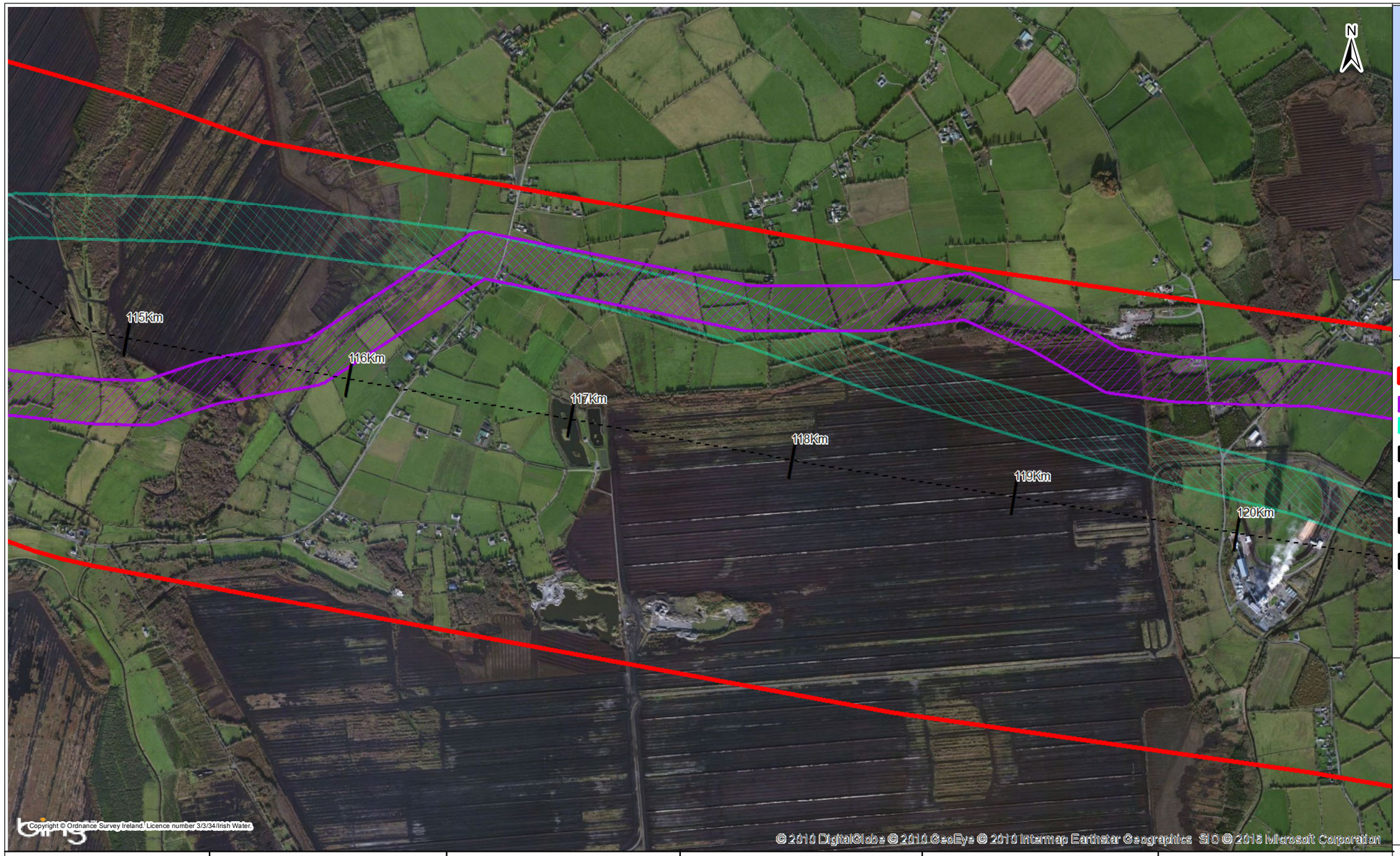
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 110 to 115 km

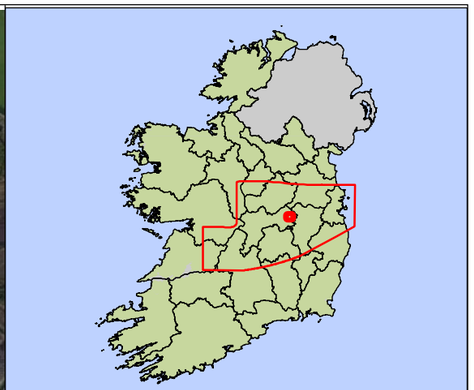
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Drawing No.: 32105801-FOAR-058

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	115 to 116 km	116 to 117 km	117 to 118 km	118 to 119 km	119 to 120 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Engineering: peat production zones	Engineering: peat production zones	Population: reduced human impact	Engineering: peat production zones	Engineering: peat production zones
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	None currently identified.	None currently identified.	Traffic: road crossing	None currently identified.

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

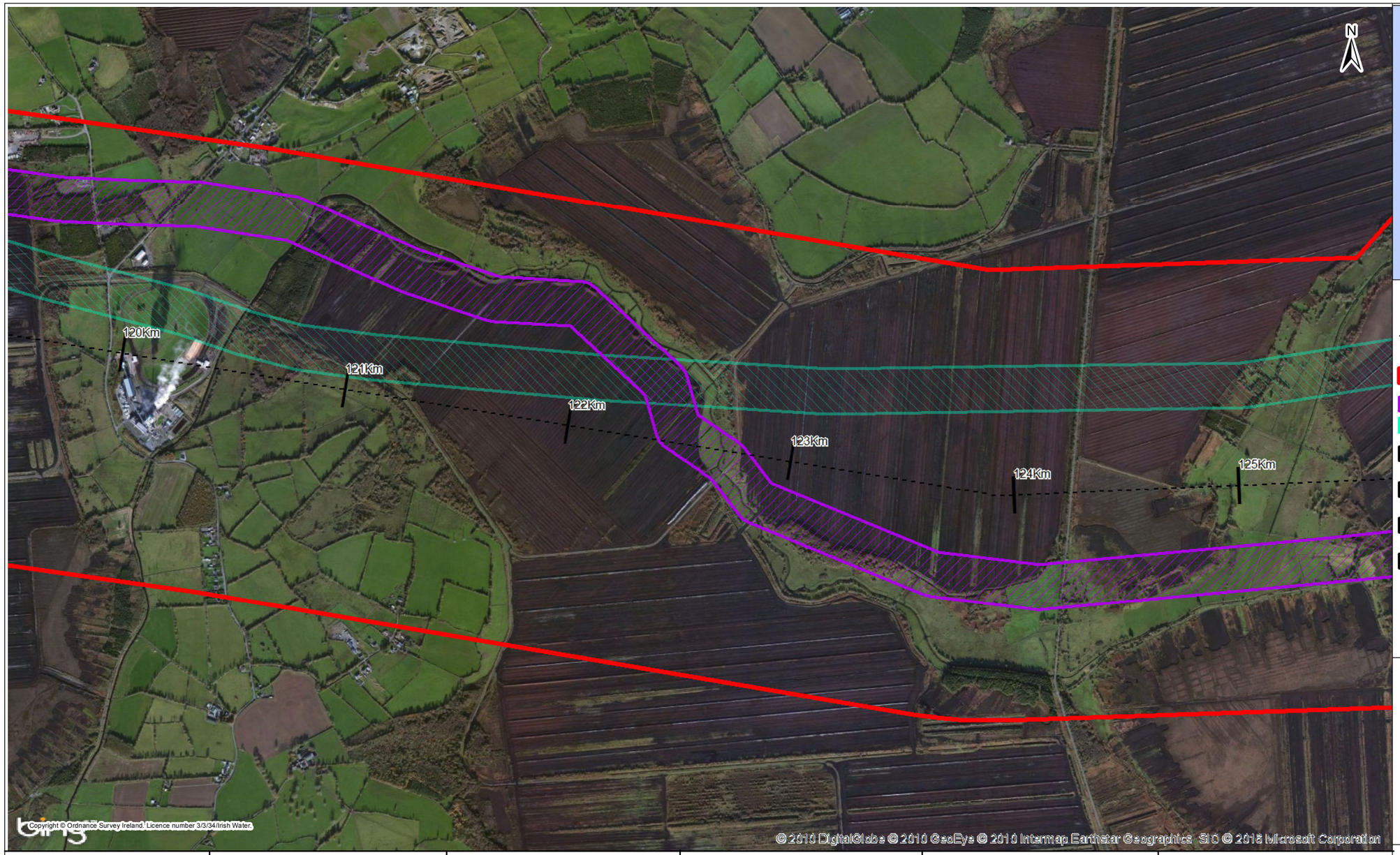
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 115 to 120 km

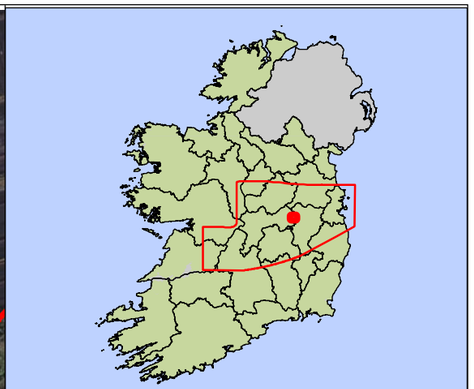
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Drawing No.: 32105801-FOAR-059

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	120 to 121 km	121 to 122 km	122 to 123 km	123 to 124 km	124 to 125 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Engineering: power station	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: badger sett	Ecology: broadleaved woodland	Ecology: habitats Population: local dwellings/ enterprises Traffic: road crossings	Ecology: habitats Population: local dwellings/ enterprises Traffic: road crossings	Ecology: habitats

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

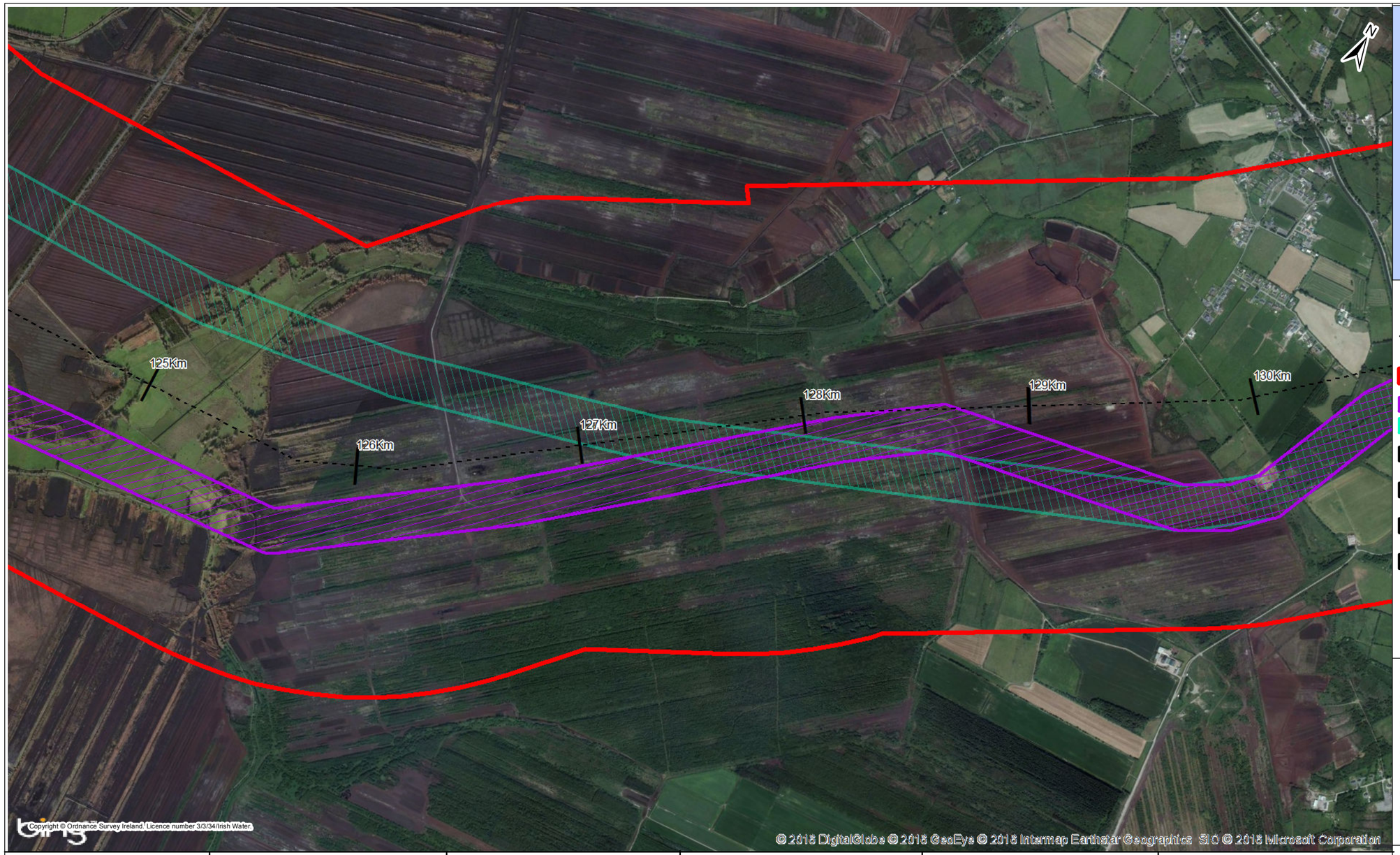
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 120 to 125 km

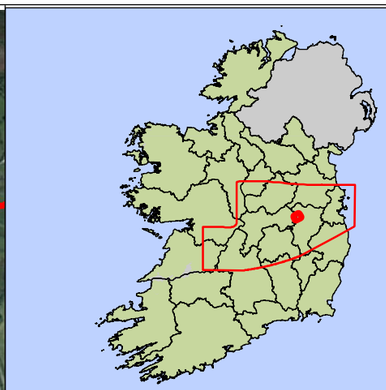
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Drawing No.: 32105801-FOAR-060

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	125 to 126 km	126 to 127 km	127 to 128 km	128 to 129 km	129 to 130 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones	Engineering: peat production zones
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: habitats Traffic: road crossings	Ecology: habitats	Ecology: badger sett & Japanese Knotweed	Ecology: breeding bird sites	Traffic: road crossing

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

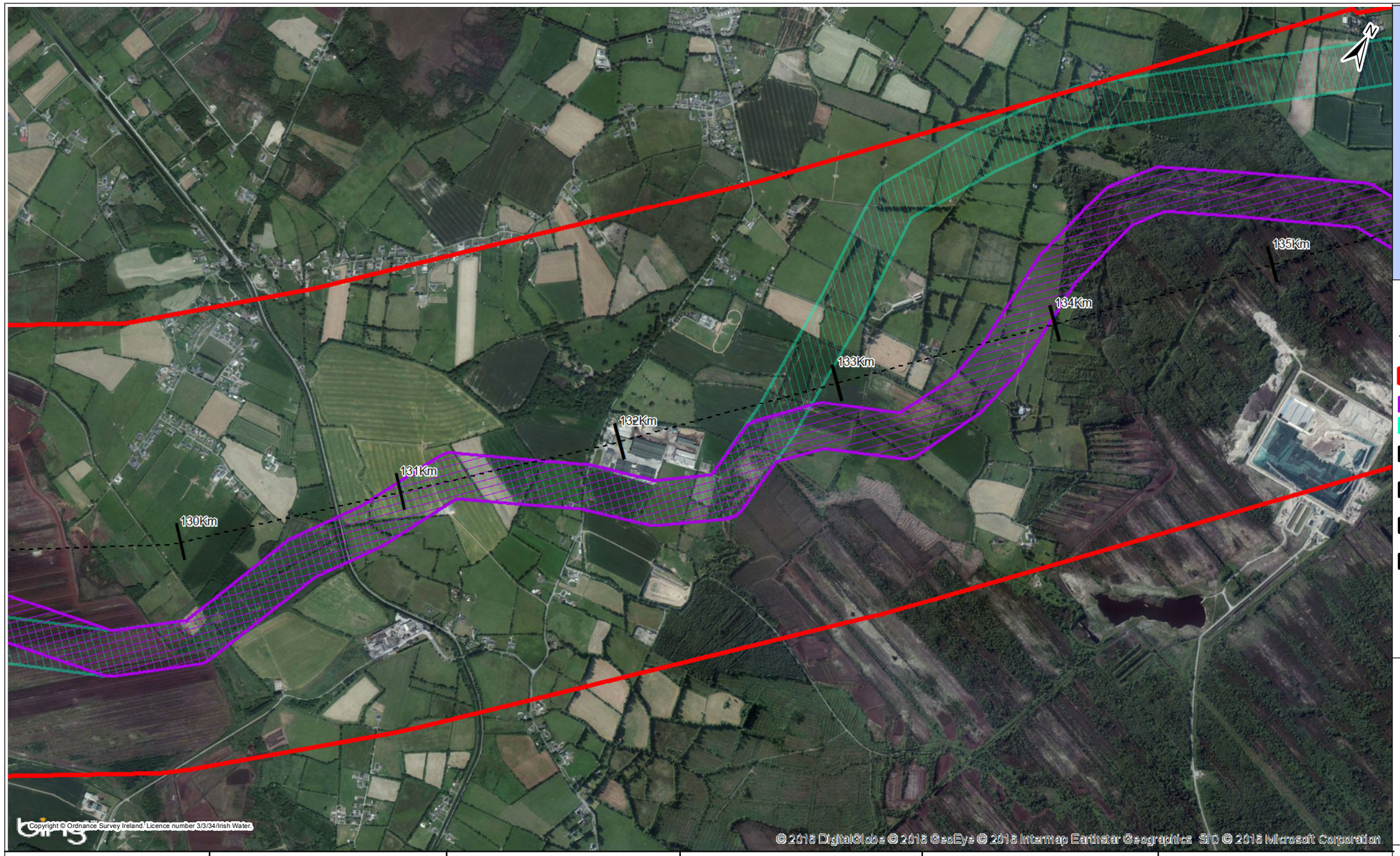
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 125 to 130 km

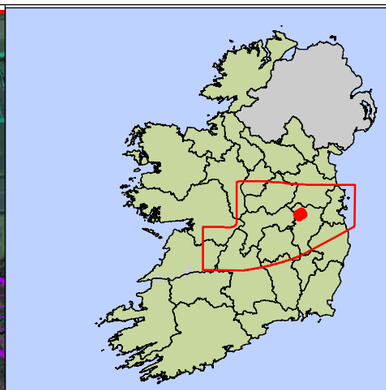
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Drawing No.: 32105801-FOAR-061

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	130 to 131 km	131 to 132 km	132 to 133 km	133 to 134 km	134 to 135 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	None currently identified.	None currently identified.	None currently identified.	Ecology: badger sett Tourism: canal crossing & walking trail

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

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Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

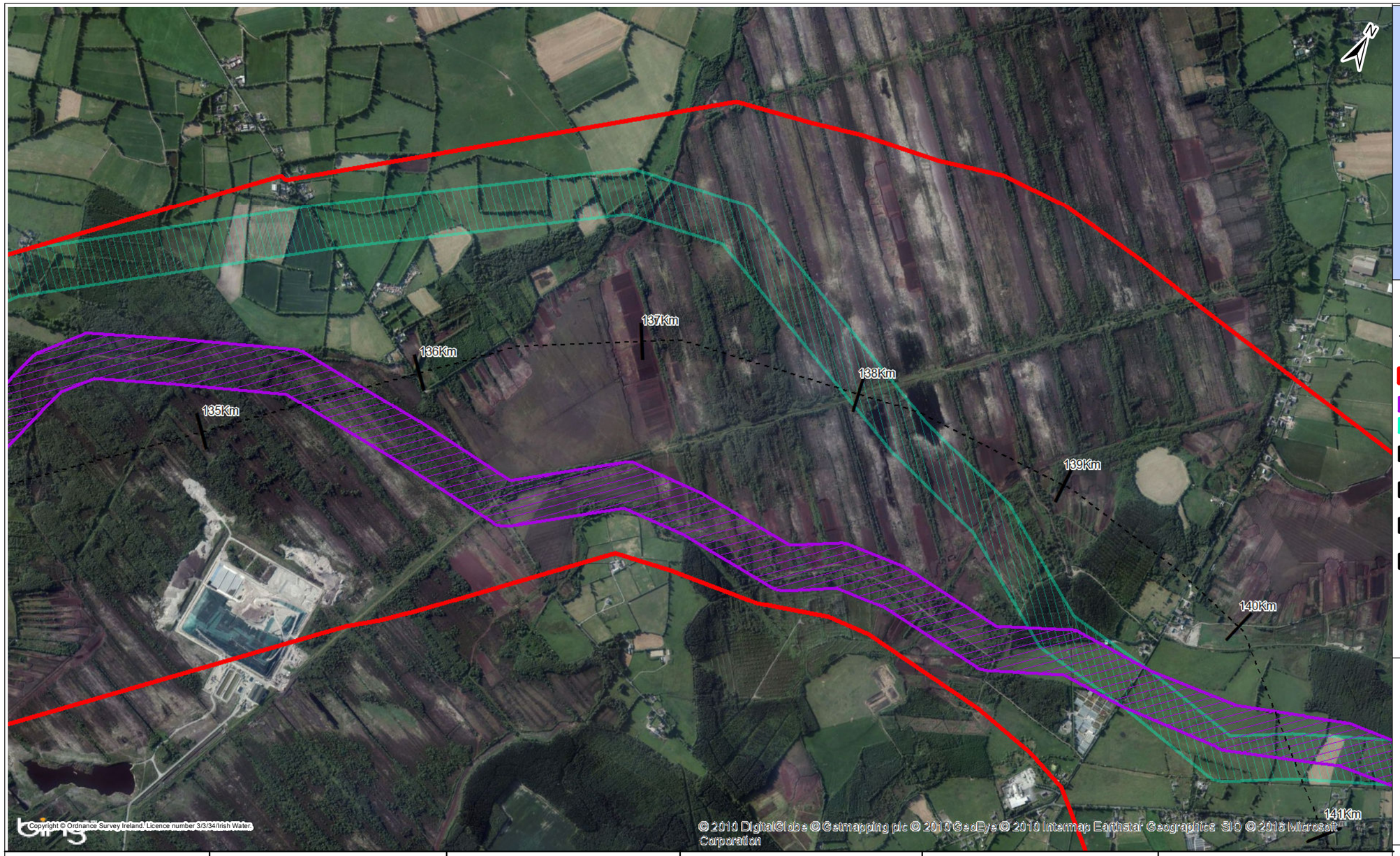
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 130 to 135 km

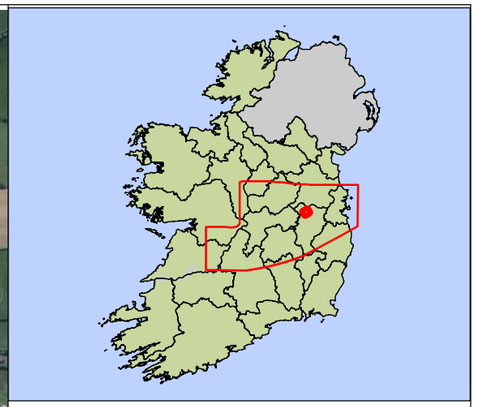
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Drawing No.: 32105801-FOAR-062

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	135 to 136 km	136 to 137 km	137 to 138 km	138 to 139 km	139 to 140 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings.	Population: local dwellings.	Traffic: road crossing	Landscape & Visual: woodland	Landscape & Visual: woodland

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

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Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

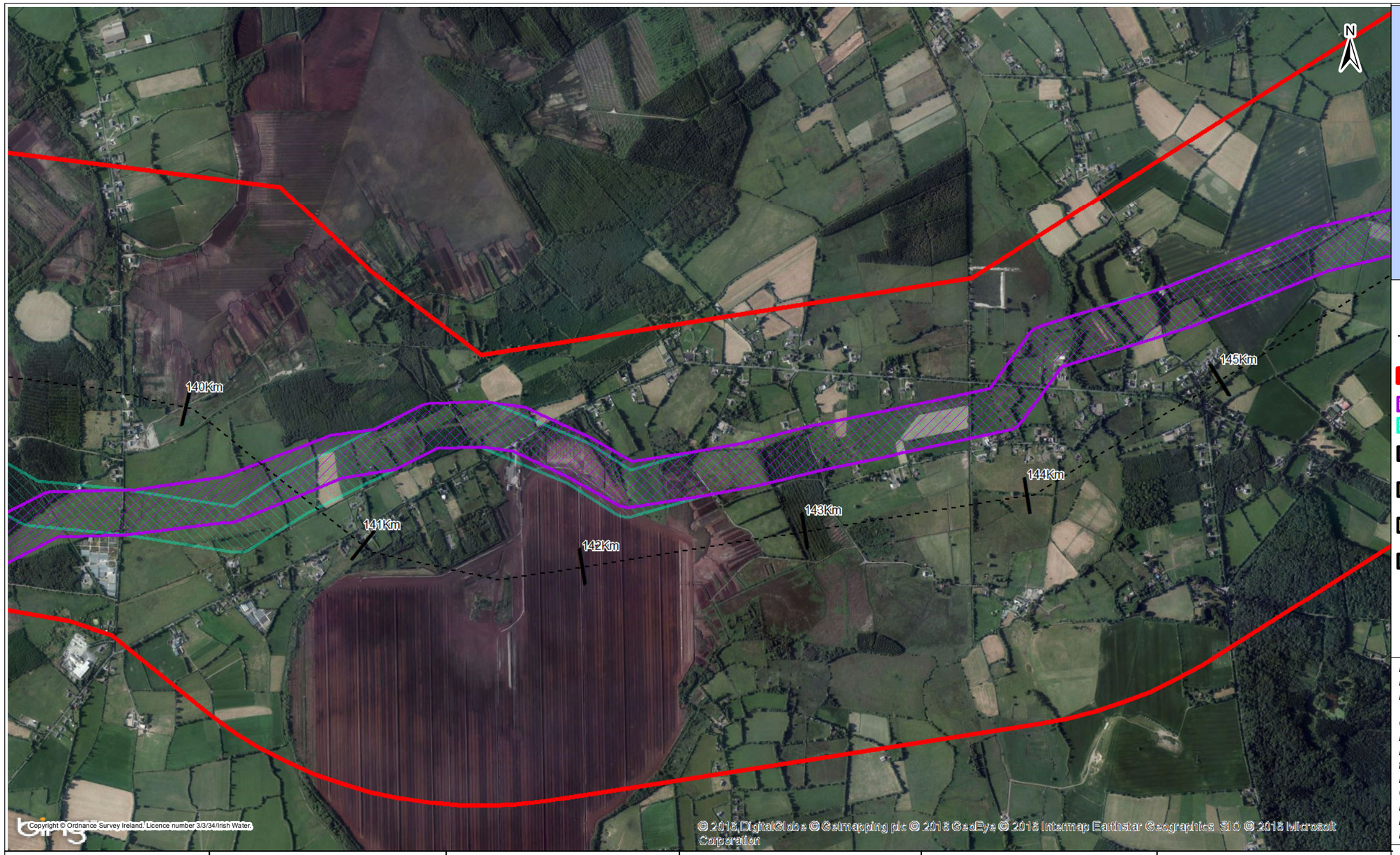
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 135 to 140 km

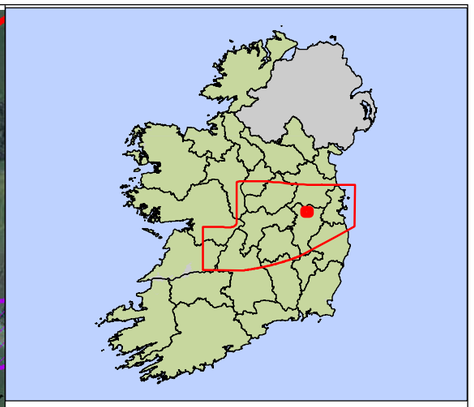
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Drawing No.: 32105801-FOAR-063

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	140 to 141 km	141 to 142 km	142 to 143 km	143 to 144 km	144 to 145 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduced human impact	Population: reduced human impact	Population: reduce human impacts	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: snipe.	Soils: intact peat areas.	Soils: intact peat areas.	None currently identified.	None currently identified.

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

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Project: Water Supply Project - Eastern and Midlands Region

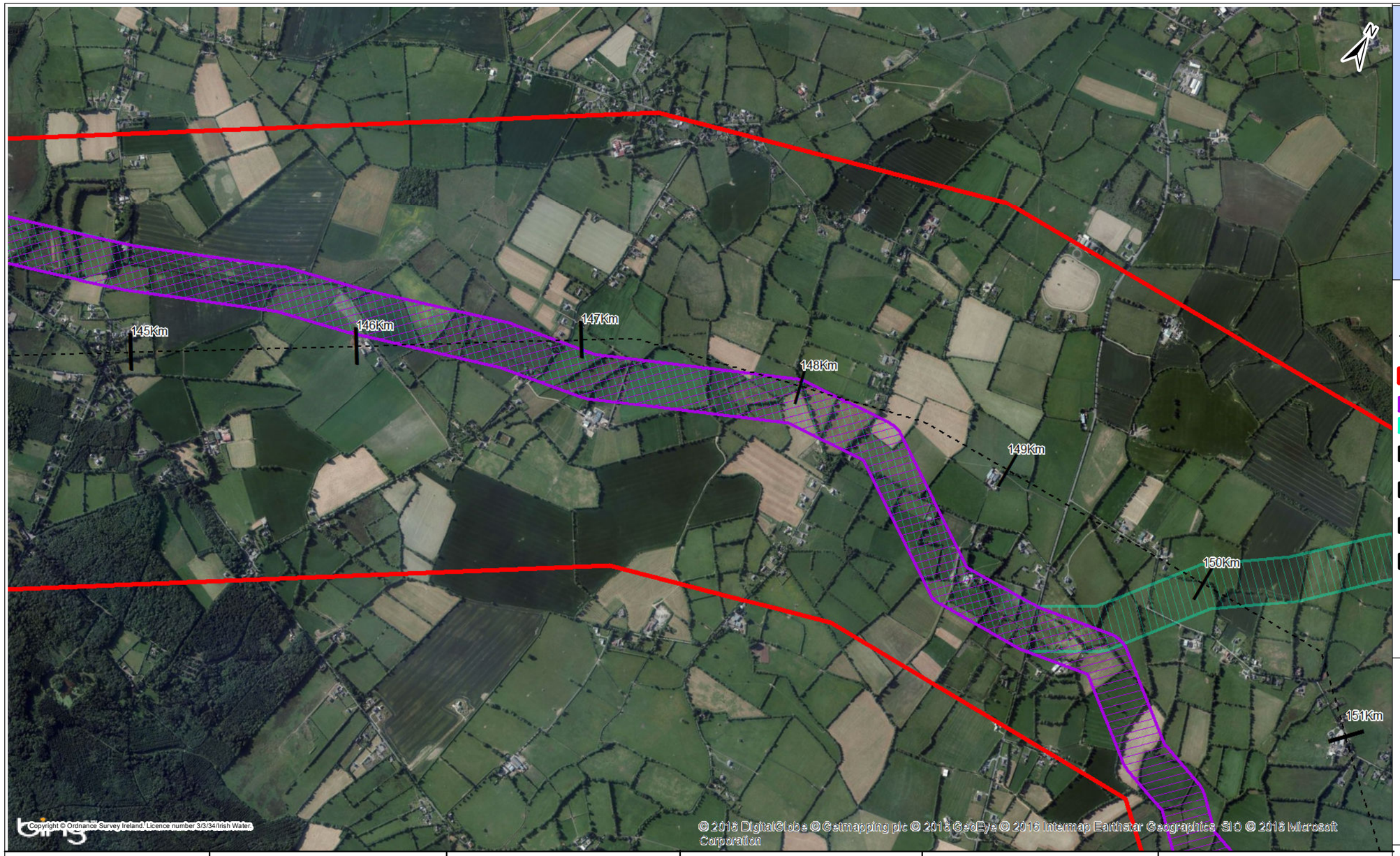
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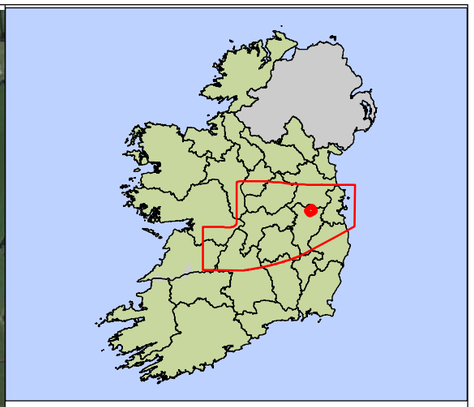
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Drawing No.: 32105801-FOAR-064

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

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

Chainage	145 to 146 km	146 to 147 km	147 to 148 km	148 to 149 km	149 to 150 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	No change to route.	No change to route.	No change to route.	No change to route.	Population: reduce human impacts
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	Ecology: badger sett Water: proximity to watercouse	Ecology: breeding site	Ecology: badger sett and bat roost potential	Landscape & Visual: design landscape Ecology: frog, commuting corridor for bats

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Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preferred 200m Pipeline Corridor : 145 to 150 km

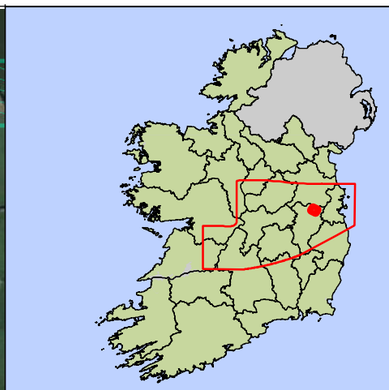
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Drawing No.: 32105801-FOAR-065

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	150 to 151 km	151 to 152 km	152 to 153 km	153 to 154 km	154 to 155 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Material assets: local enterprise.	Material assets: local enterprise. Population: local dwellings.	Material assets: local enterprise. Population: local dwellings.	None currently identified.	Material assets: local enterprise. Water: watercourse crossing.

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

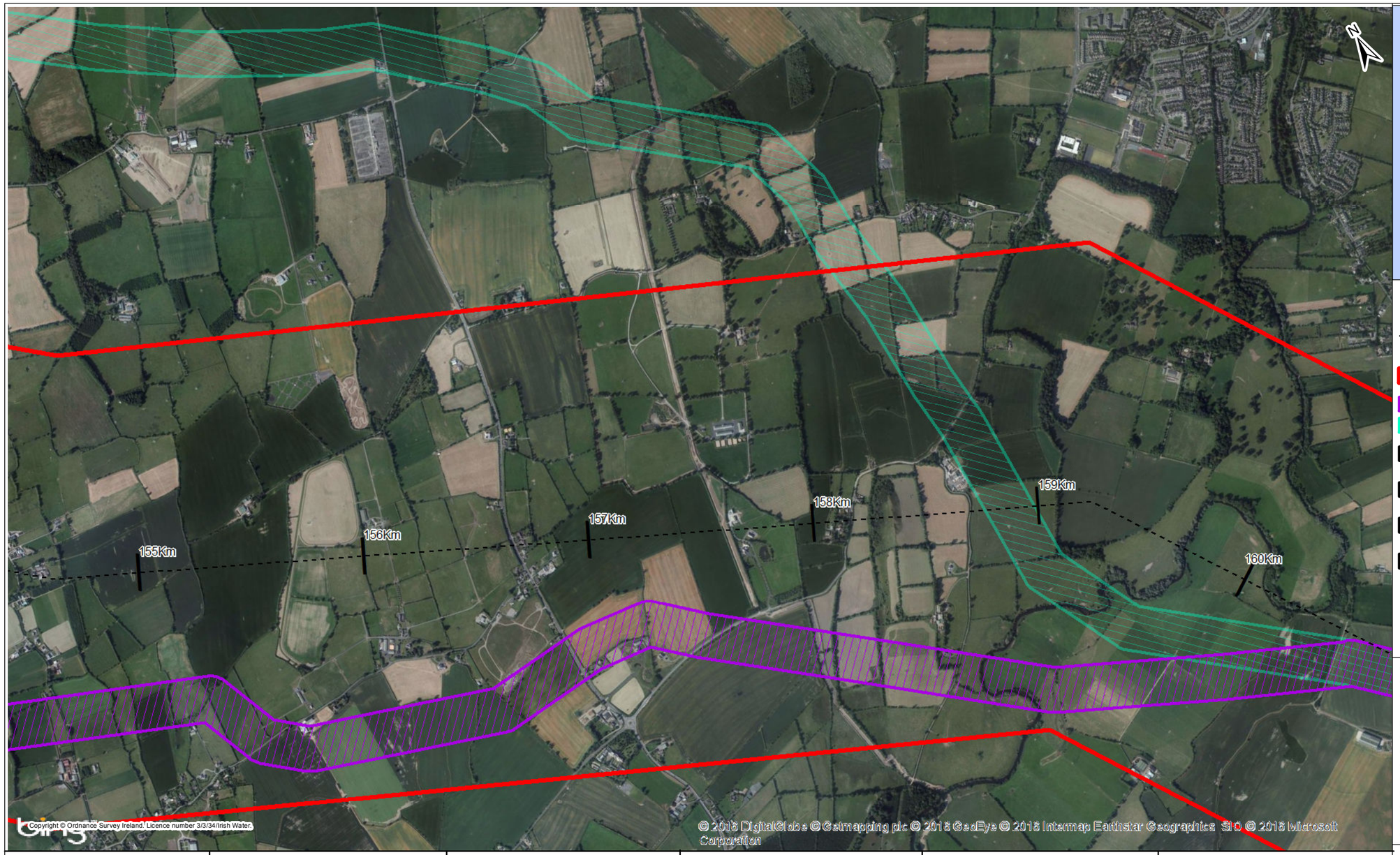
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 150 to 155 km

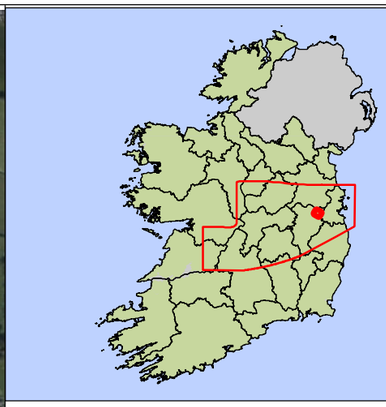
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Drawing No.: 32105801-FOAR-066

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Key

- Centreline of Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	155 to 156 km	156 to 157 km	157 to 158 km	158 to 159 km	159 to 160 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts	Population: reduce human impacts
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Water: watercourse crossing.	Water: watercourse crossing. Landscape & Visual: mature trees Traffic: road crossing	Water: watercourse crossing. Traffic: road crossing	Water: watercourse crossing. Traffic: road crossing	Population: local enterprise. Traffic: road crossing Cultural Heritage: recorded monuments

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

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

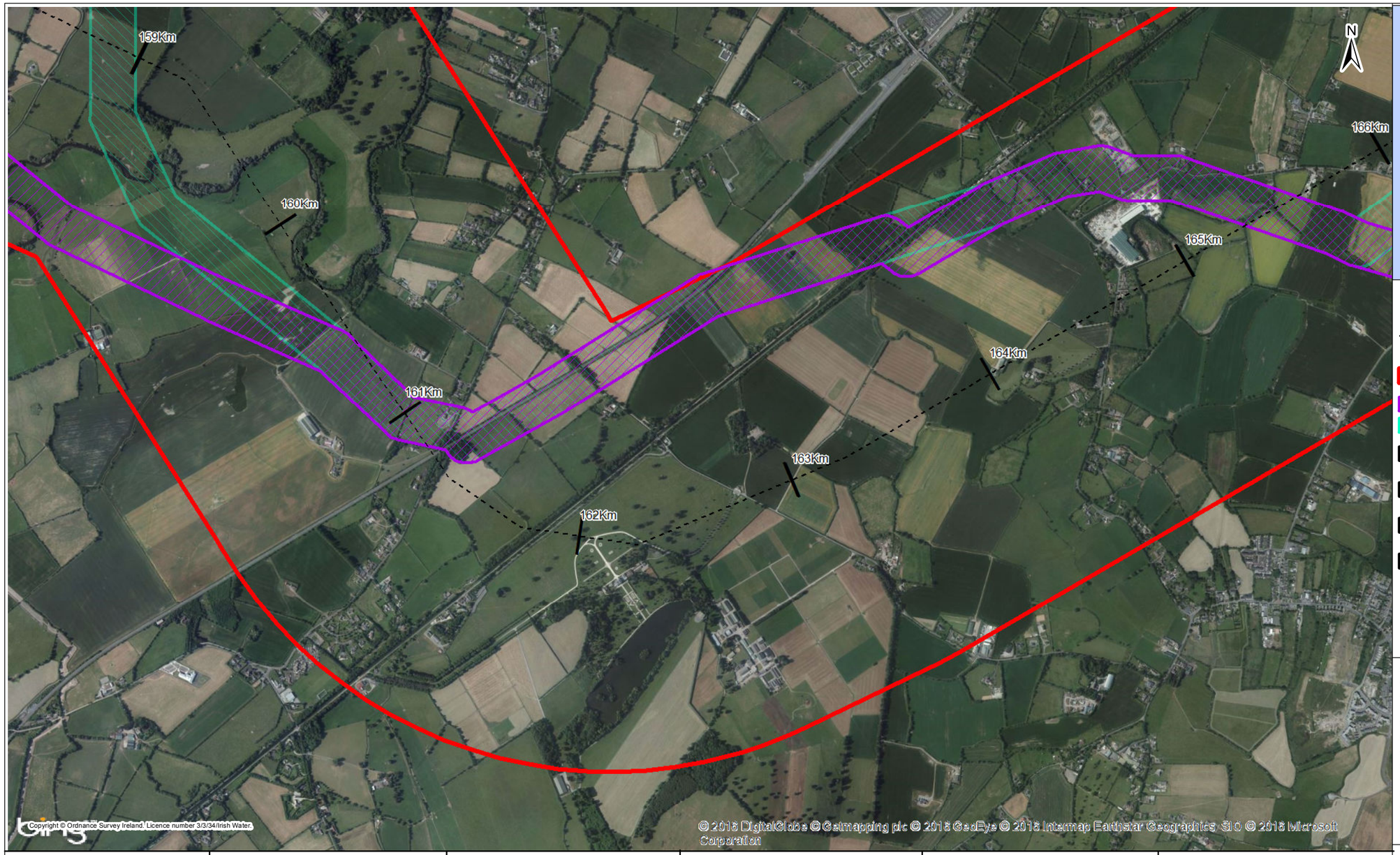
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 155 to 160 km

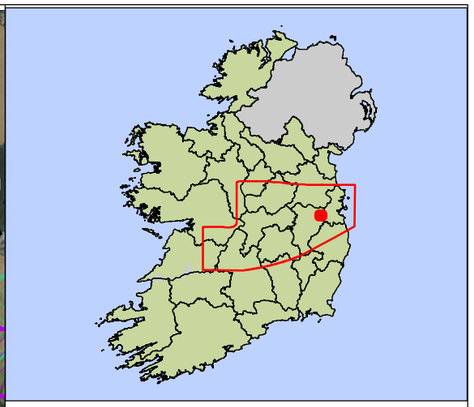
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Drawing No.: 32105801-FOAR-067

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

Chainage	160 to 161 km	161 to 162 km	162 to 163 km	163 to 164 km	164 to 165 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Population: reduce human impacts	Population: reduce human impacts	No change to route.	No change to route.	No change to route.
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	None currently identified.	None currently identified.	Water: watercourse crossing.	Traffic: road crossing	Water: watercourse crossing.

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

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Project: Water Supply Project - Eastern and Midlands Region

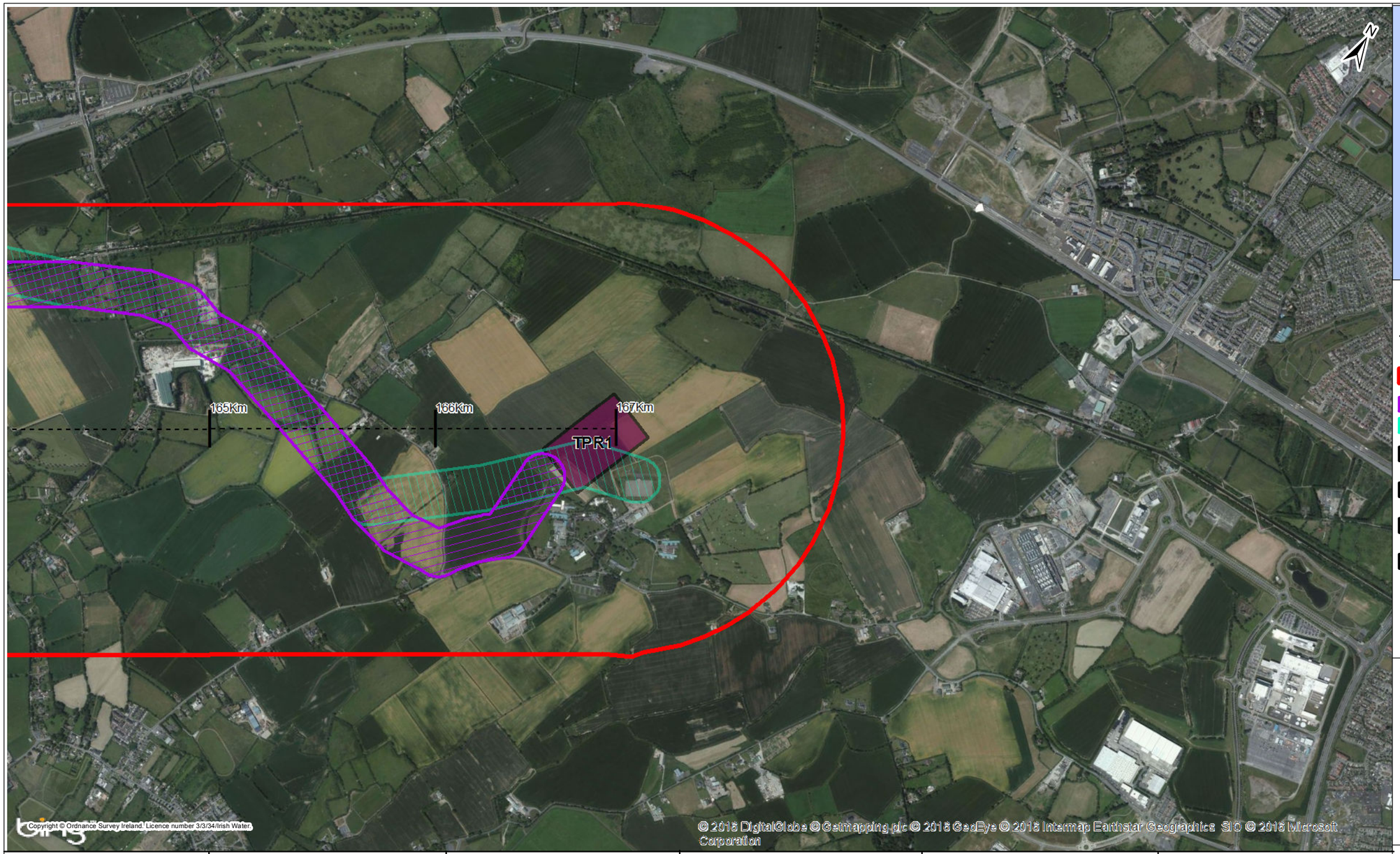
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 160 to 165 km

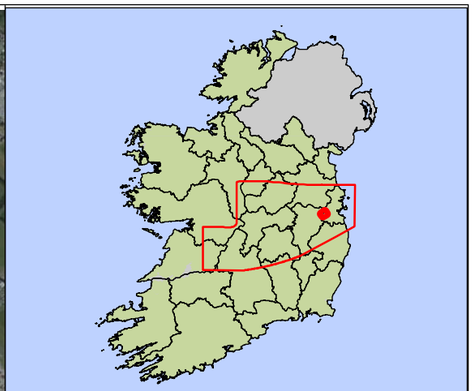
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Drawing No.: 32105801-FOAR-068

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 Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

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

Chainage	165 to 166 km	166 to 167 km	167 to 168 km	168 to 169 km	169 to 170 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor	Engineering: route adjusted to better integrate with other client projects	Engineering: route adjusted to better integrate with other client projects			
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Ecology: Liffey corridor. Riparian habitat & Otter & Craytish Ecology: watercourse crossing Soils: oxbox lake. Traffic: rail crossing	Soils: oxbox lake.	Ecology: broadleaved woodland. Population: local dwellings.	None currently identified.	Ecology: Grand Canal crossing

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

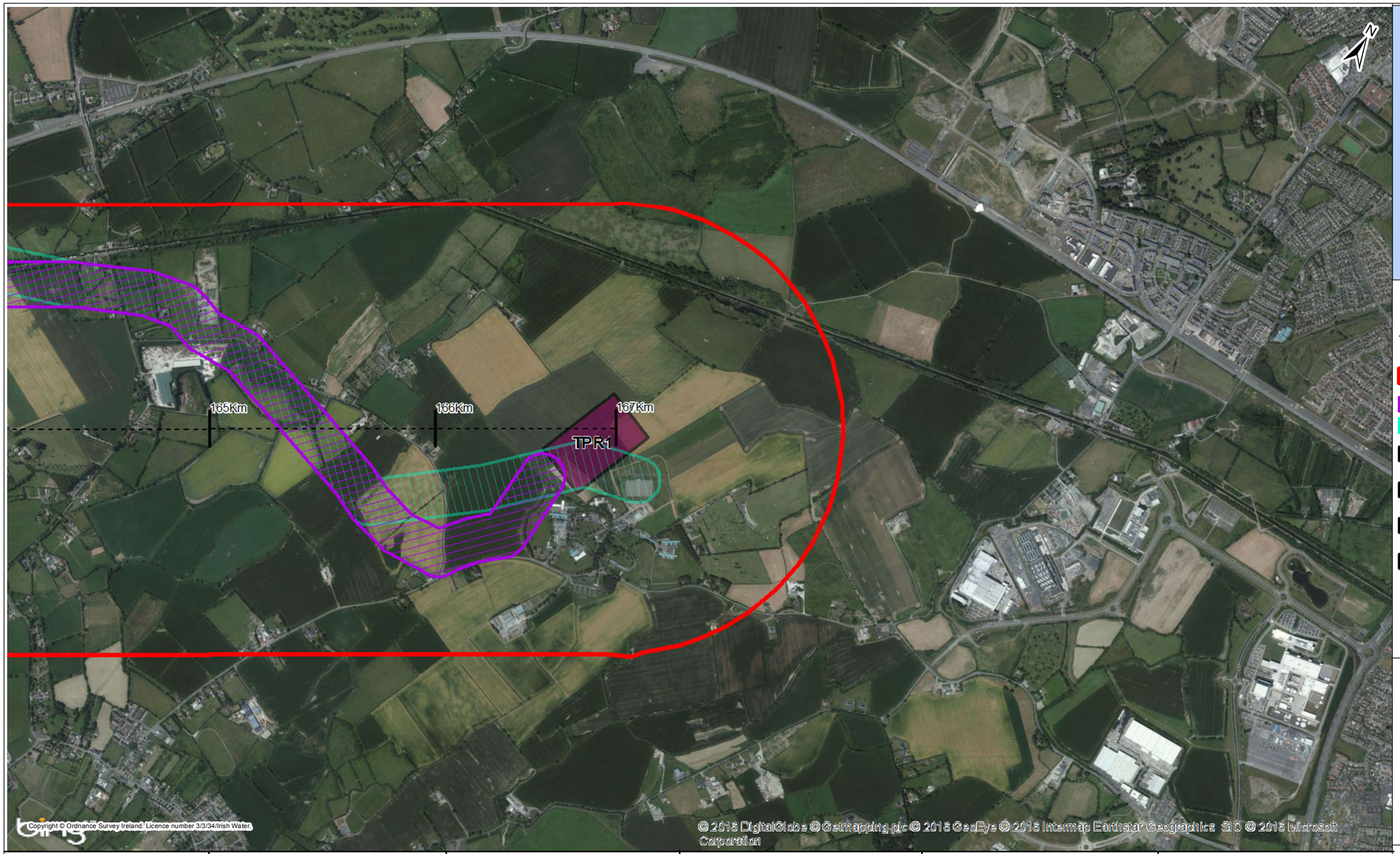
Drawing Title: Identification of Preferred 200m Pipeline Corridor : 165 to 170 km

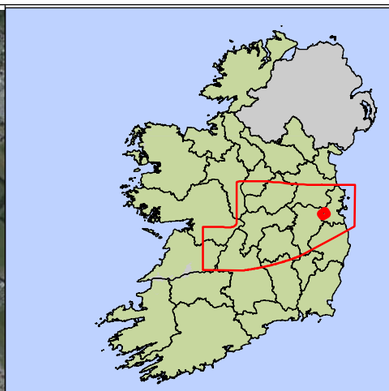
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Drawing No.: 32105801-FOAR-069

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Key

- Centreline of Preferred Route Corridor
- Preferred Route Corridor (Generally 2km)
- Preferred 200m Pipeline Corridor
- Preliminary 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Notes :-
Note 1 - Whilst the Preferred 200m Pipeline Corridor Represents the Least Constrained Route for a Pipeline There are a Number of Constraints Within it. These are Considered in the Identification of an Indicative 50m Pipeline Corridor
Note 2 - An Indicative 50m Pipeline Corridor is Shown in the FOAR Main Report
Note 3 - Chainage Refers to Preferred 200m Pipeline Corridor and Not the Centreline of the Preferred Route Corridor (Generally 2km). The Preferred 200m Pipeline Corridor Chainage is Shown in the FOAR Main Report

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

Chainage	170 to 171 km	171 to 172 km	172 to 173 km	173 to 174 km	174 to 175 km
Feedback From Environmental Surveys Defining Preferred 200m Pipeline Corridor					
Residual Constraints within Preferred 200m Pipeline Corridor (See Note 3)	Population: local dwellings.	None currently identified.	None currently identified.	Population: local dwellings.	

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Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Identification of Preferred 200m Pipeline Corridor : 170 to 175km

Drawing Status: **For Issue**

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Drawing No.: 32105801-FOAR-070

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Tionscadal Soláthair Uisce
Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1 Annex D) FOAR, Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Document no: 32105801/EIARA3.1
Version: Final

December 2025

Uisce Éireann
Irish Water

Jacobs

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Schedule of Drawings

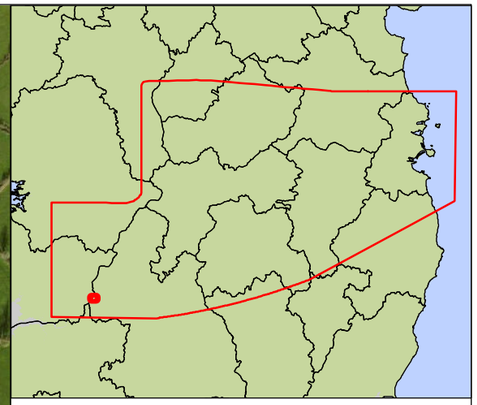
Annex D: Preferred 200m Pipeline Corridor & Indicative 50m Pipeline

	Corridor	
Drawing No.	**Title**	**Map**
32105801-FOAR-100	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	1 of 90
32105801-FOAR-101	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	2 of 90
32105801-FOAR-102	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	3 of 90
32105801-FOAR-103	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	4 of 90
32105801-FOAR-104	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	5 of 90
32105801-FOAR-105	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	6 of 90
32105801-FOAR-106	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	7 of 90
32105801-FOAR-107	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	8 of 90
32105801-FOAR-108	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	9 of 90
32105801-FOAR-109	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	10 of 90
32105801-FOAR-110	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	11 of 90
32105801-FOAR-111	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	12 of 90
32105801-FOAR-112	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	13 of 90
32105801-FOAR-113	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	14 of 90
32105801-FOAR-114	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	15 of 90
32105801-FOAR-115	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	16 of 90
32105801-FOAR-116	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	17 of 90
32105801-FOAR-117	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	18 of 90
32105801-FOAR-118	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	19 of 90
32105801-FOAR-119	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	20 of 90
32105801-FOAR-120	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	21 of 90
32105801-FOAR-121	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	22 of 90
32105801-FOAR-122	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	23 of 90
32105801-FOAR-123	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	24 of 90
32105801-FOAR-124	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	25 of 90
32105801-FOAR-125	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	26 of 90
32105801-FOAR-126	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	27 of 90

Drawing No.	Title	Map
32105801-FOAR-127	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	28 of 90
32105801-FOAR-128	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	29 of 90
32105801-FOAR-129	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	30 of 90
32105801-FOAR-130	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	31 of 90
32105801-FOAR-131	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	32 of 90
32105801-FOAR-132	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	33 of 90
32105801-FOAR-133	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	34 of 90
32105801-FOAR-134	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	35 of 90
32105801-FOAR-135	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	36 of 90
32105801-FOAR-136	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	37 of 90
32105801-FOAR-137	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	38 of 90
32105801-FOAR-138	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	39 of 90
32105801-FOAR-139	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	40 of 90
32105801-FOAR-140	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	41 of 90
32105801-FOAR-141	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	42 of 90
32105801-FOAR-142	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	43 of 90
32105801-FOAR-143	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	44 of 90
32105801-FOAR-144	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	45 of 90
32105801-FOAR-145	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	46 of 90
32105801-FOAR-146	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	47 of 90
32105801-FOAR-147	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	48 of 90
32105801-FOAR-148	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	49 of 90
32105801-FOAR-149	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	50 of 90
32105801-FOAR-150	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	51 of 90
32105801-FOAR-151	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	52 of 90
32105801-FOAR-152	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	53 of 90
32105801-FOAR-153	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	54 of 90
32105801-FOAR-154	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	55 of 90
32105801-FOAR-155	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	56 of 90
32105801-FOAR-156	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	57 of 90
32105801-FOAR-157	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	58 of 90
32105801-FOAR-158	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	59 of 90

Drawing No.	Title	Map
32105801-FOAR-159	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	60 of 90
32105801-FOAR-160	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	61 of 90
32105801-FOAR-161	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	62 of 90
32105801-FOAR-162	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	63 of 90
32105801-FOAR-163	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	64 of 90
32105801-FOAR-164	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	65 of 90
32105801-FOAR-165	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	66 of 90
32105801-FOAR-166	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	67 of 90
32105801-FOAR-167	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	68 of 90
32105801-FOAR-168	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	69 of 90
32105801-FOAR-169	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	70 of 90
32105801-FOAR-170	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	71 of 90
32105801-FOAR-171	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	72 of 90
32105801-FOAR-172	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	73 of 90
32105801-FOAR-173	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	74 of 90
32105801-FOAR-174	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	75 of 90
32105801-FOAR-175	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	76 of 90
32105801-FOAR-176	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	77 of 90
32105801-FOAR-177	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	78 of 90
32105801-FOAR-178	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	79 of 90
32105801-FOAR-179	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	80 of 90
32105801-FOAR-180	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	81 of 90
32105801-FOAR-181	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	82 of 90
32105801-FOAR-182	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	83 of 90
32105801-FOAR-183	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	84 of 90
32105801-FOAR-184	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	85 of 90
32105801-FOAR-185	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	86 of 90
32105801-FOAR-186	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	87 of 90
32105801-FOAR-187	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	88 of 90
32105801-FOAR-188	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	89 of 90
32105801-FOAR-189	Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor	90 of 90





Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

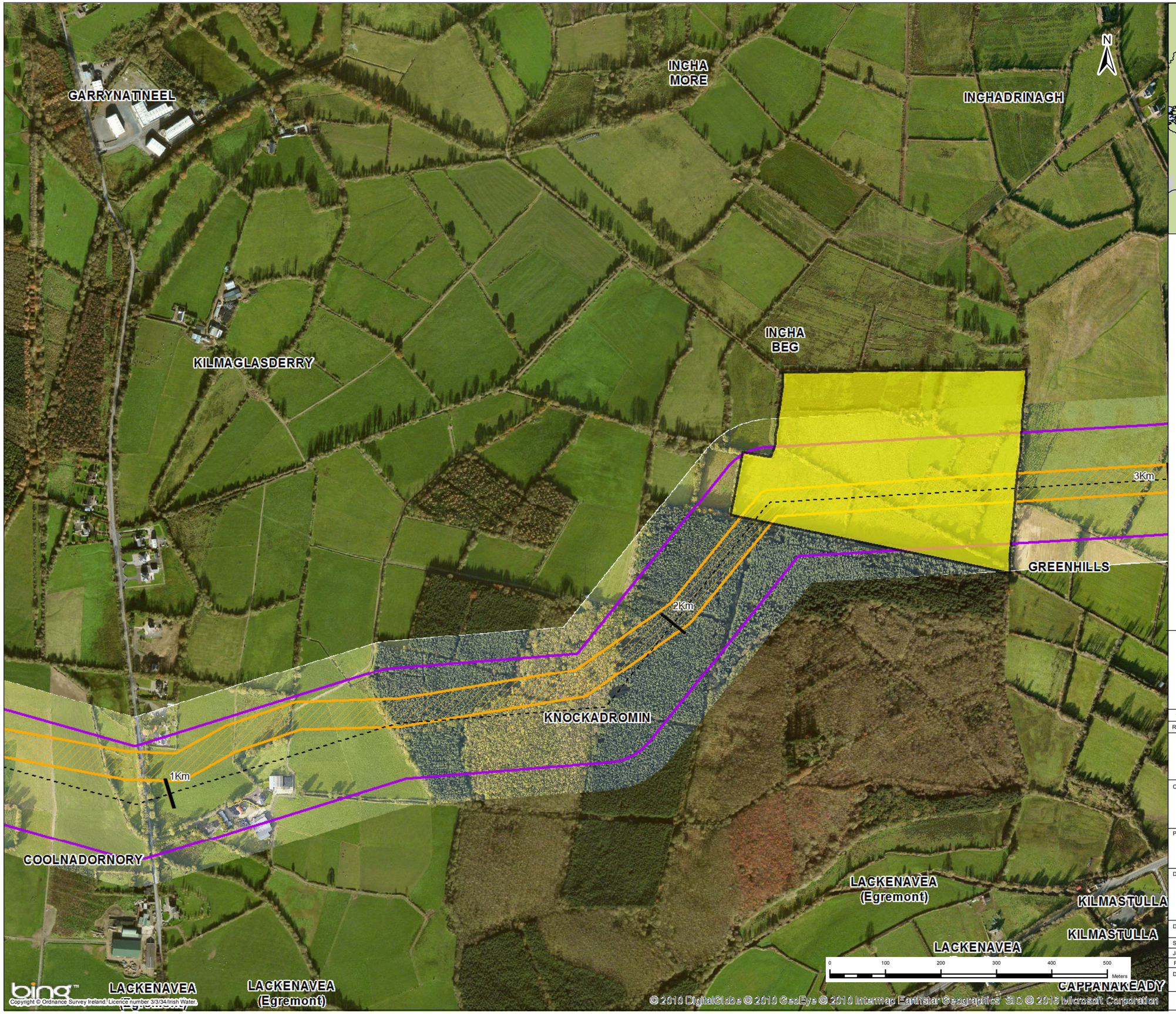
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

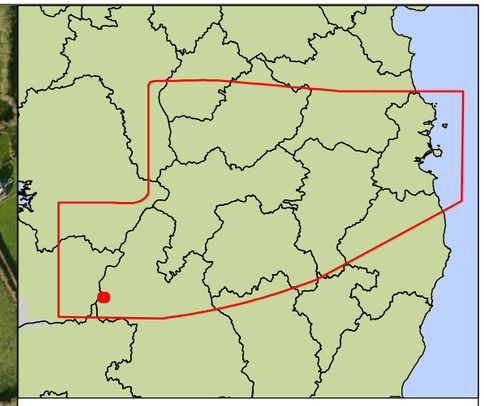
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Drawing No. 32105801-FOAR-100

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

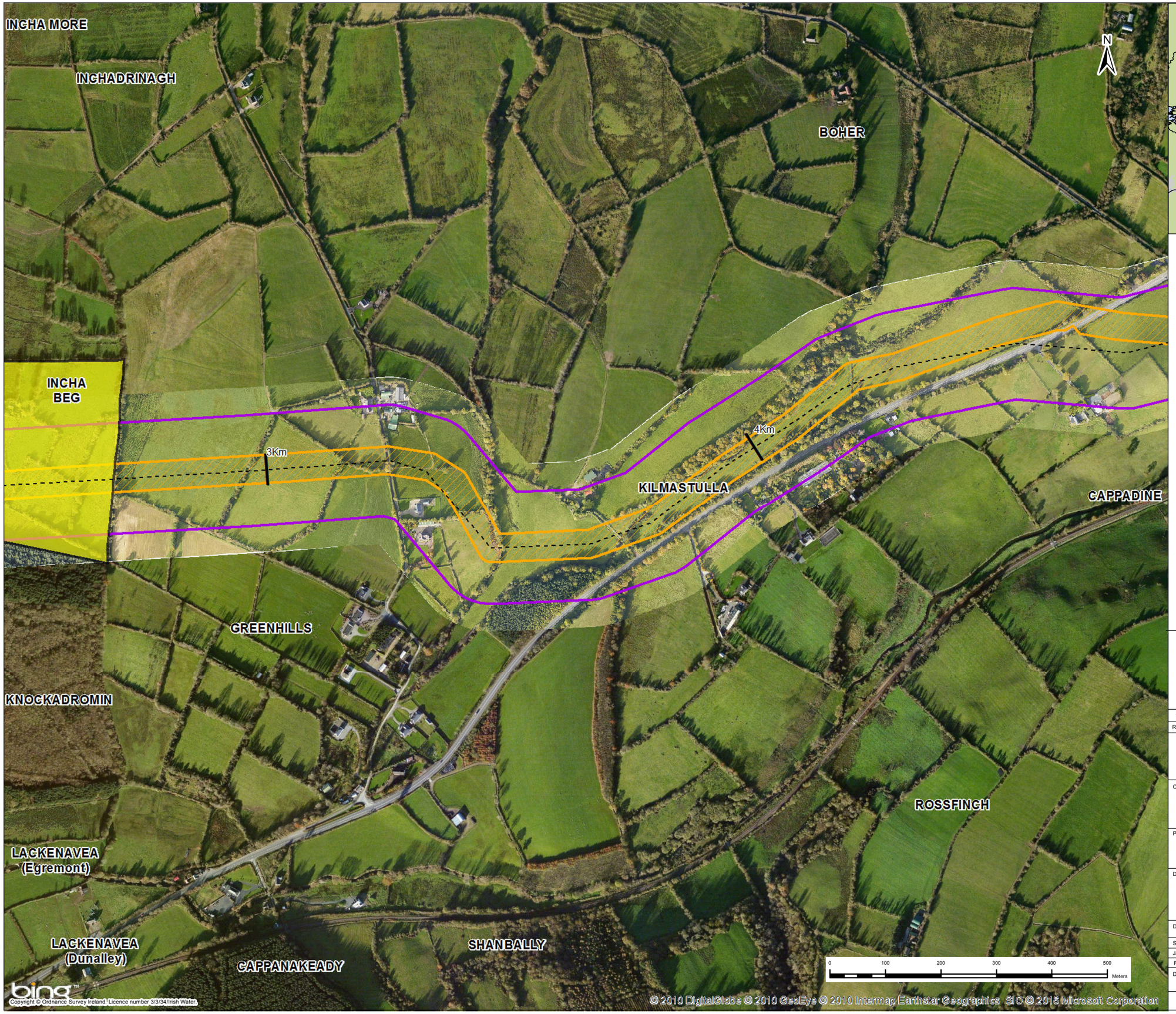
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

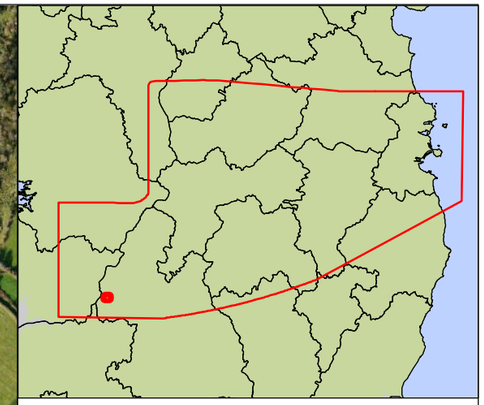
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Drawing No. 32105801-FOAR-101

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

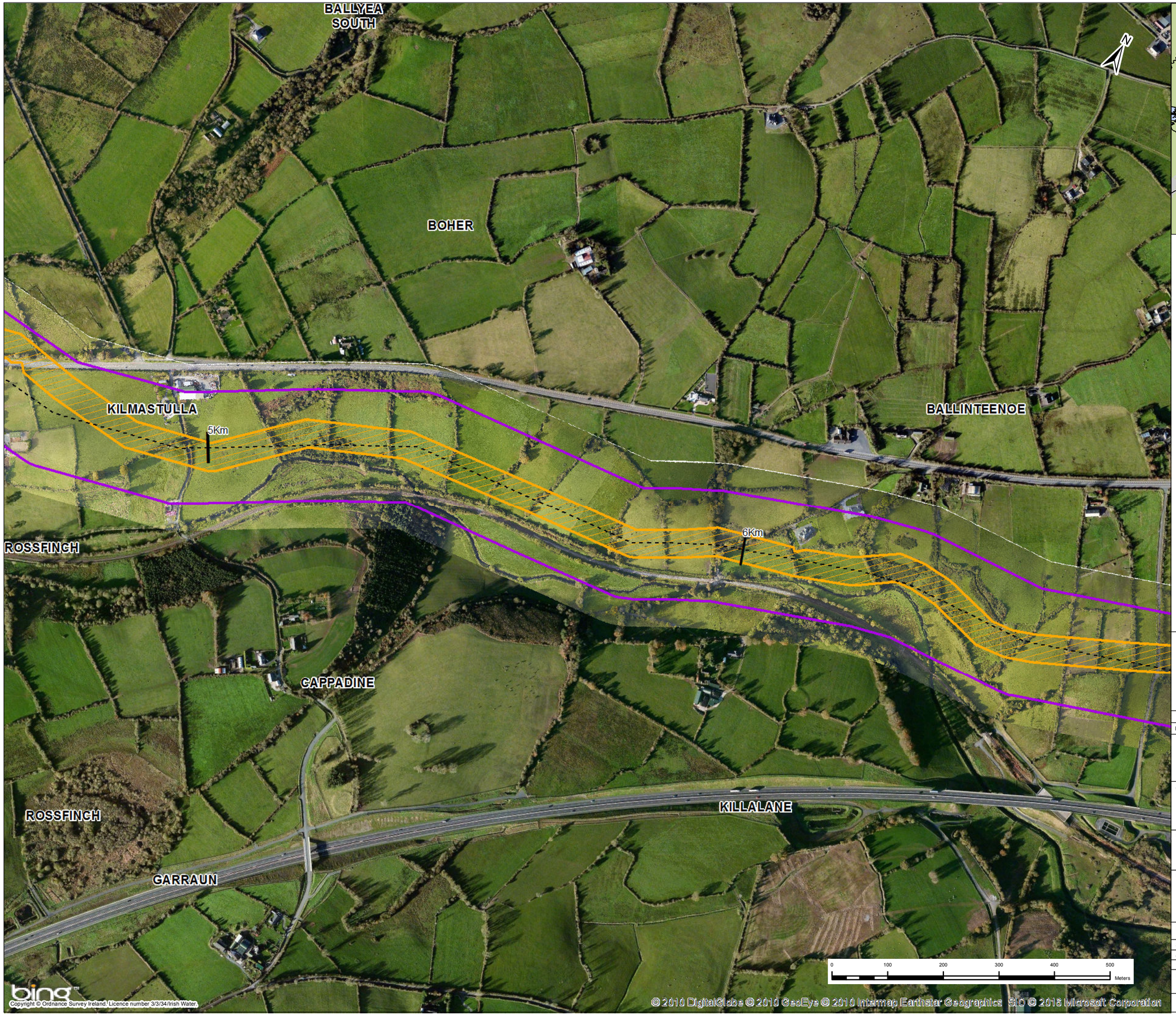
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

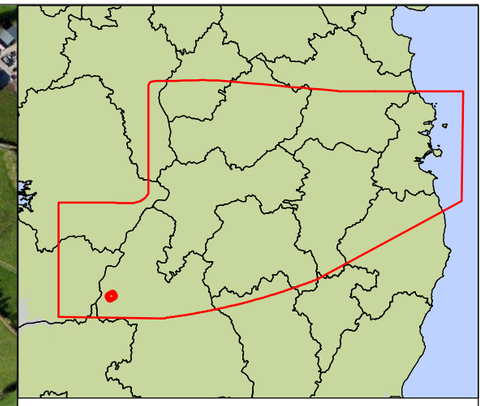
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Drawing No. 32105801-FOAR-102

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

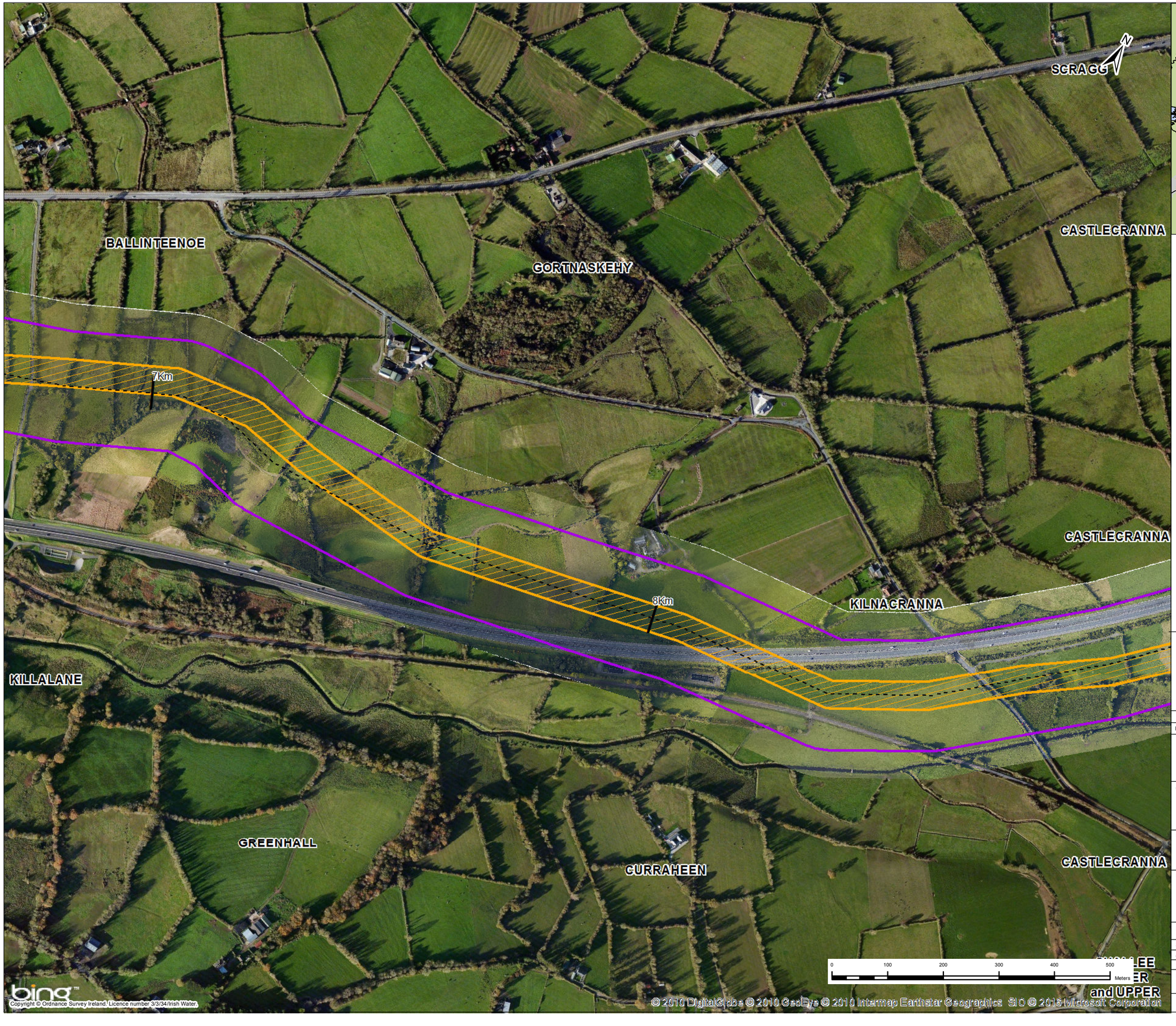
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

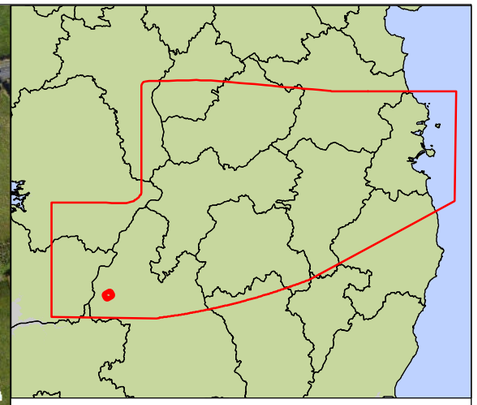
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Drawing No. 32105801-FOAR-103

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN
Patrick J. Tobin & Co. Ltd.

Client
UISCE ÉIREANN / IRISH WATER

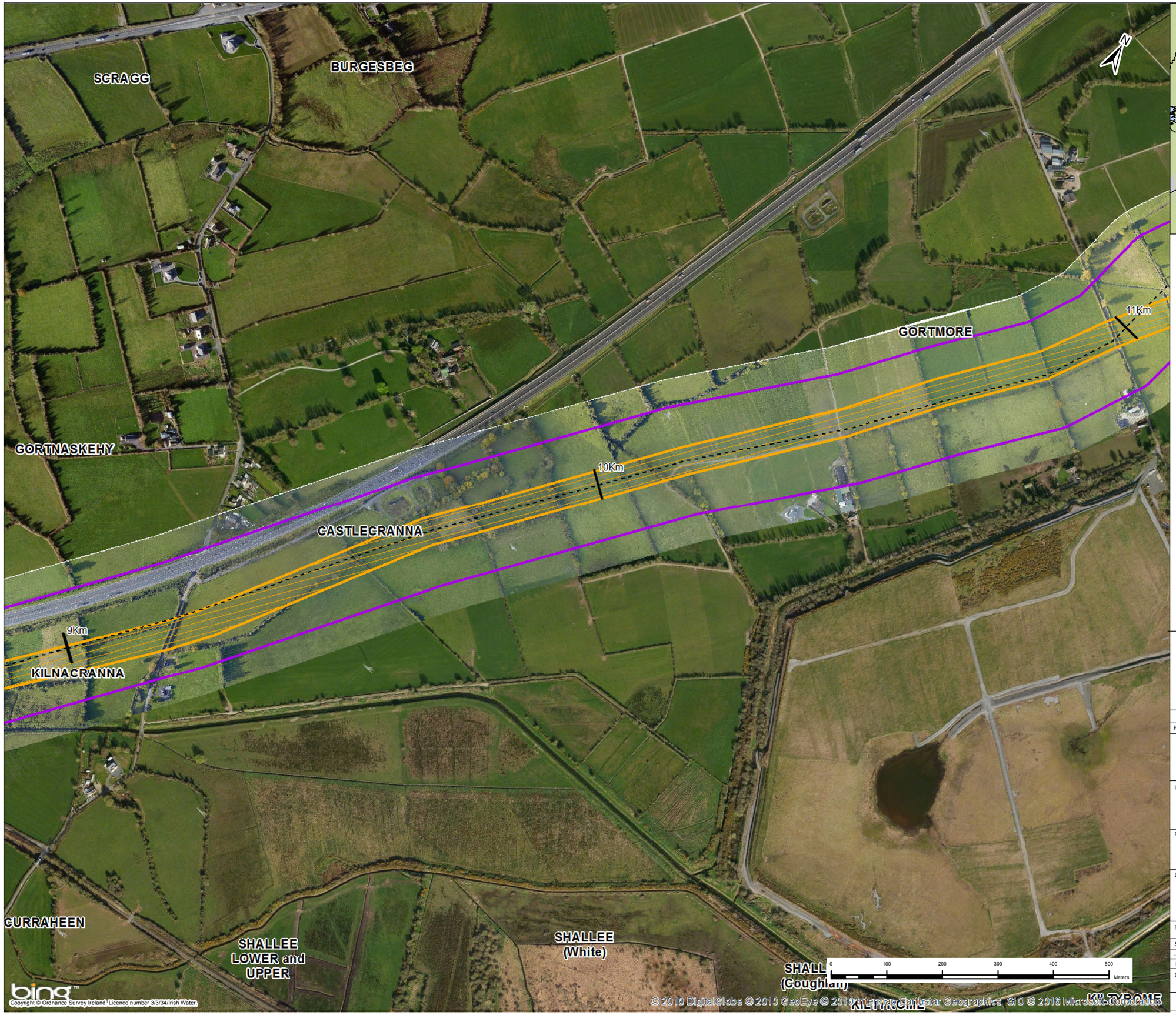
Project
Water Supply Project - Eastern and Midlands Region

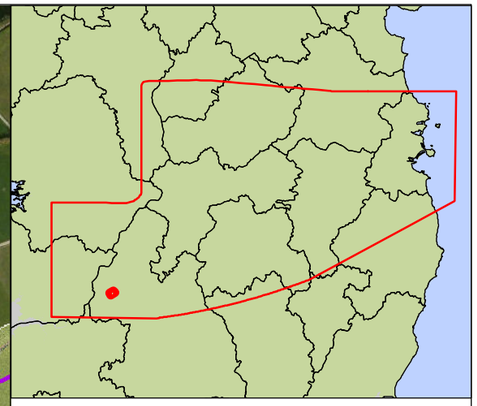
Drawing Title
Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status: **For Issue**

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Drawing No.	32105801-FOAR-104		

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

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TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

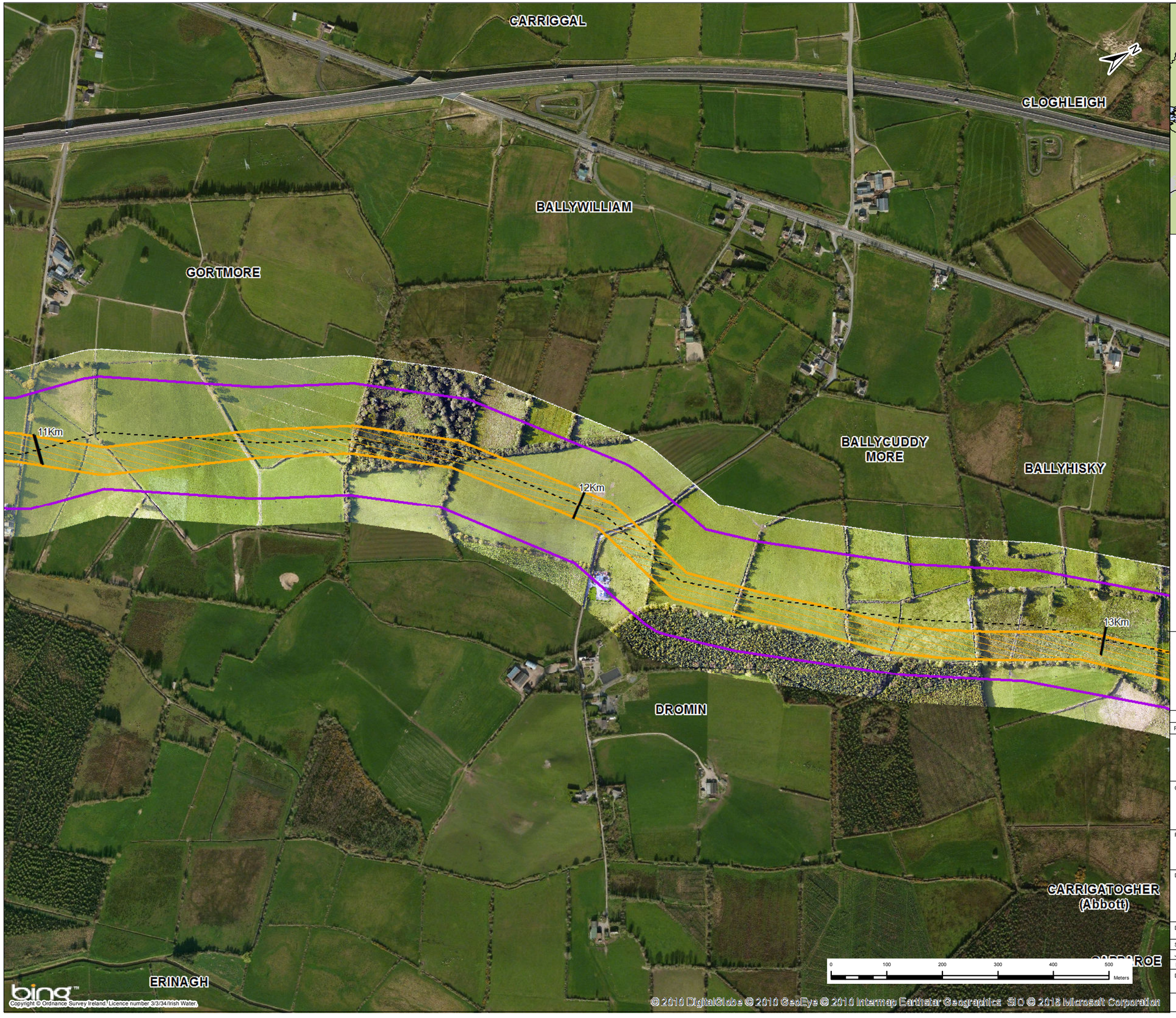
Project: Water Supply Project - Eastern and Midlands Region

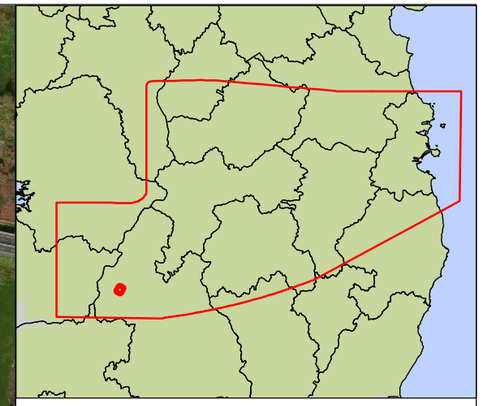
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
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Drawing No. 32105801-FOAR-105

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

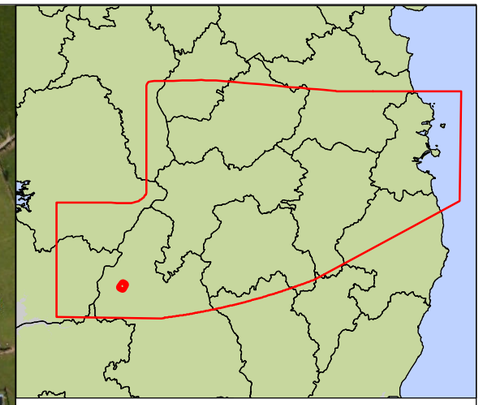
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status: **For Issue**

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Drawing No.: 32105801-FOAR-106

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.



BALLYHISKY
CARRIGATOGHER (Ryan)
CARRIGATOGHER (Harding)
Carrigatogher
CARRIGATOGHER (Abbott)
DROMIN
14Km
15Km
CARRIGATOGHER BOG (Harding)
PART OF CARRIGATOGHER (Abbott)
CARRIGATOGHER BOG (Abbott)
CARRIGATOGHER BOG (Ryan)
PART OF CARRIGATOGHER (Ryan)
PART OF CARRIGATOGHER (Harding)
LISHEENAGLOONTA
CAPPAROE
MONAROAN
0 100 200 300 400 500 Meters
bing™
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Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

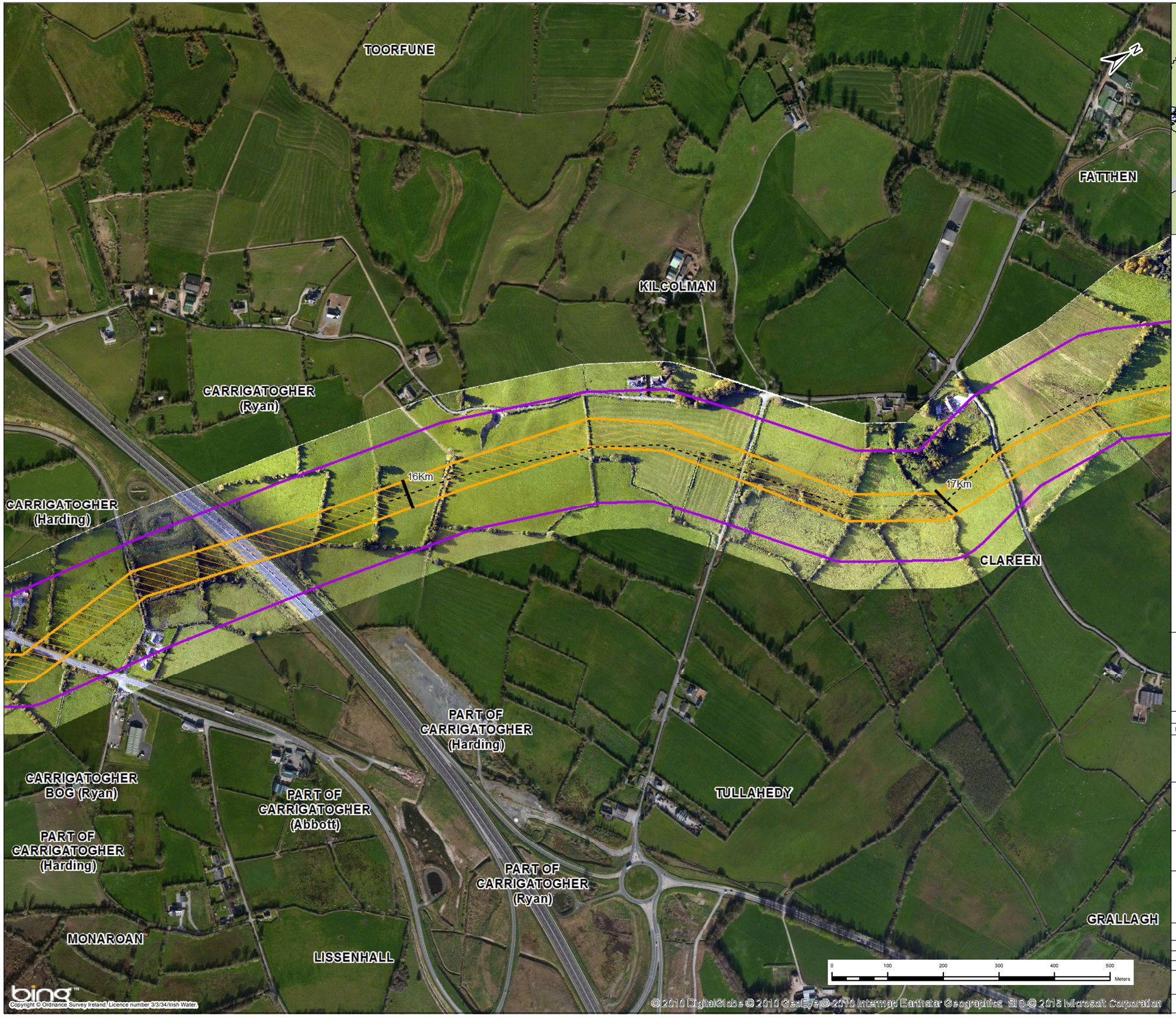
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

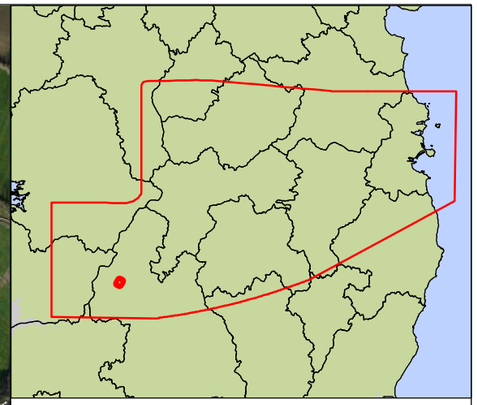
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Drawing No. 32105801-FOAR-107

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

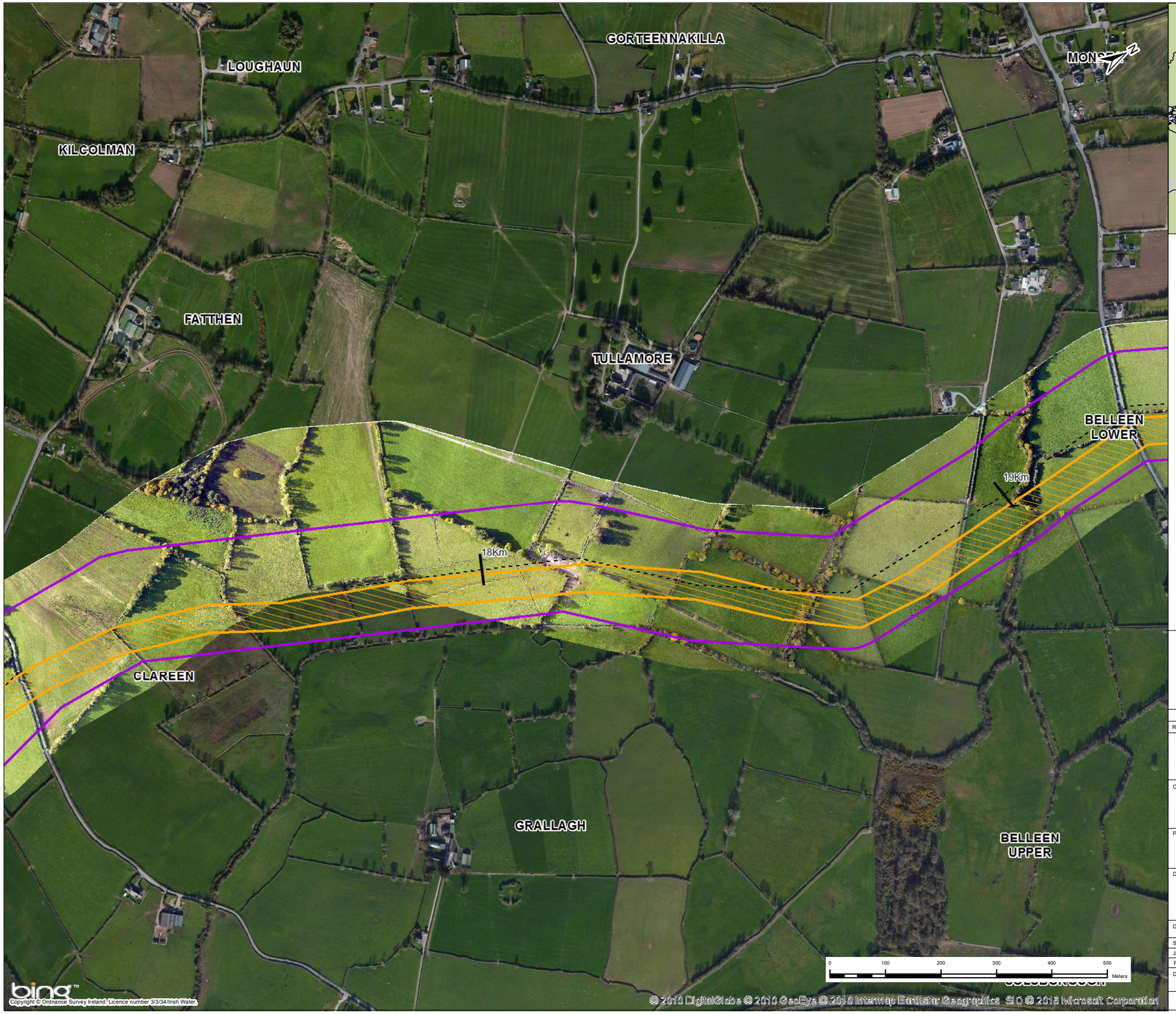
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

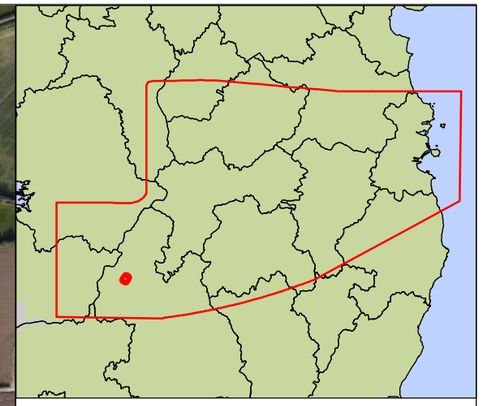
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Drawing No. 32105801-FOAR-108

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

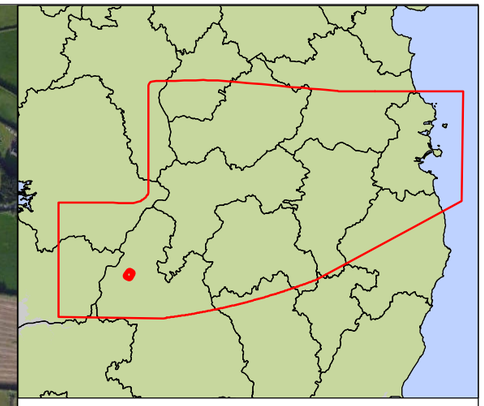
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Drawing No. 32105801-FOAR-109

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

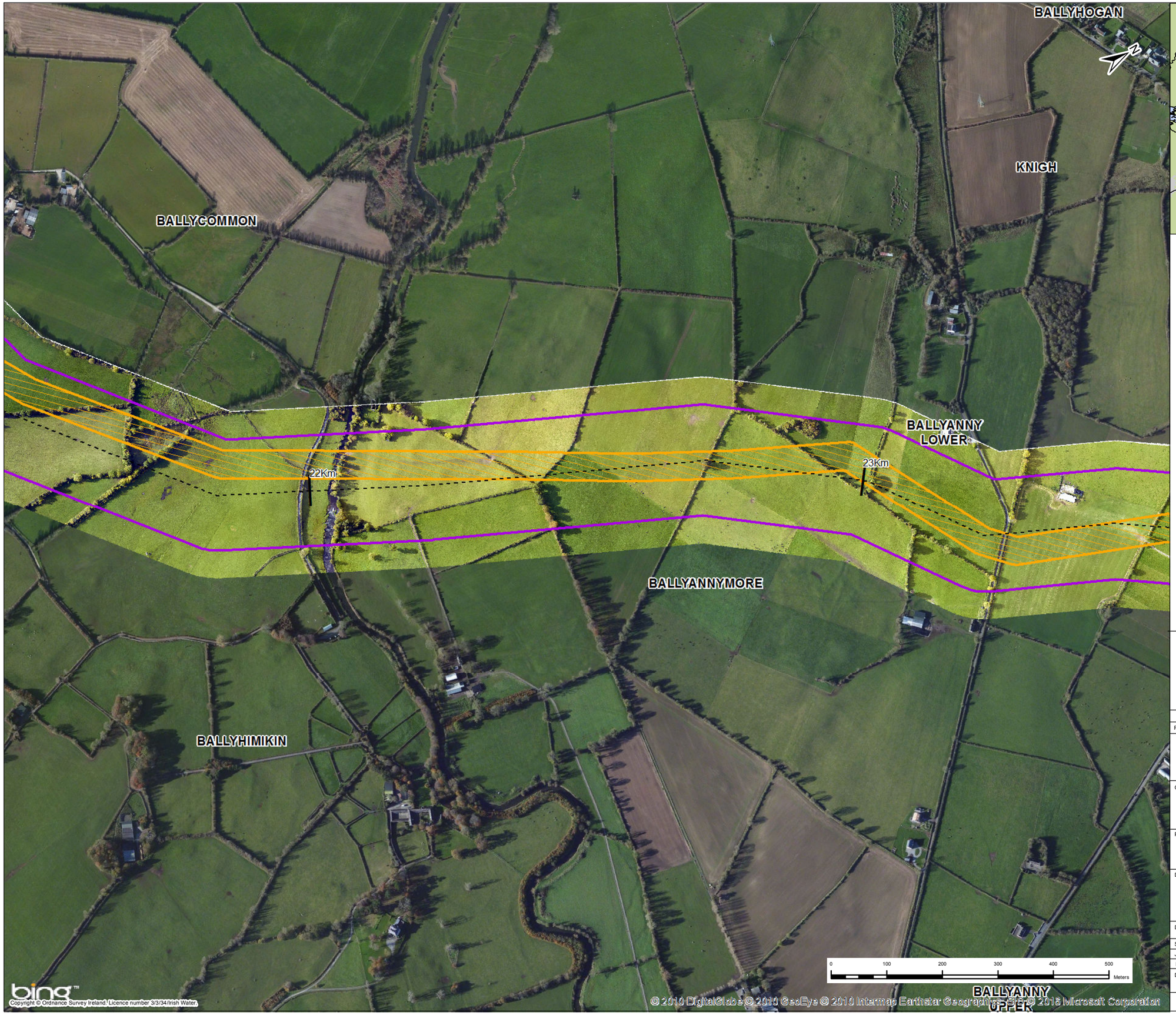
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

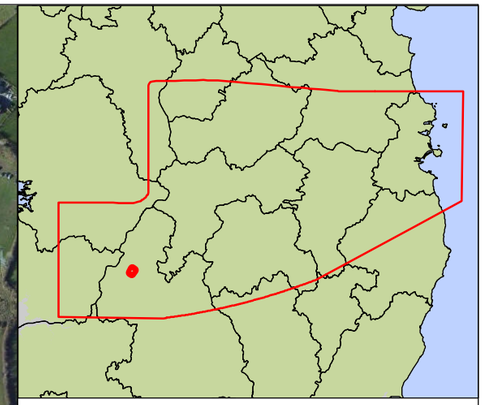
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Drawing No. 32105801-FOAR-110

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

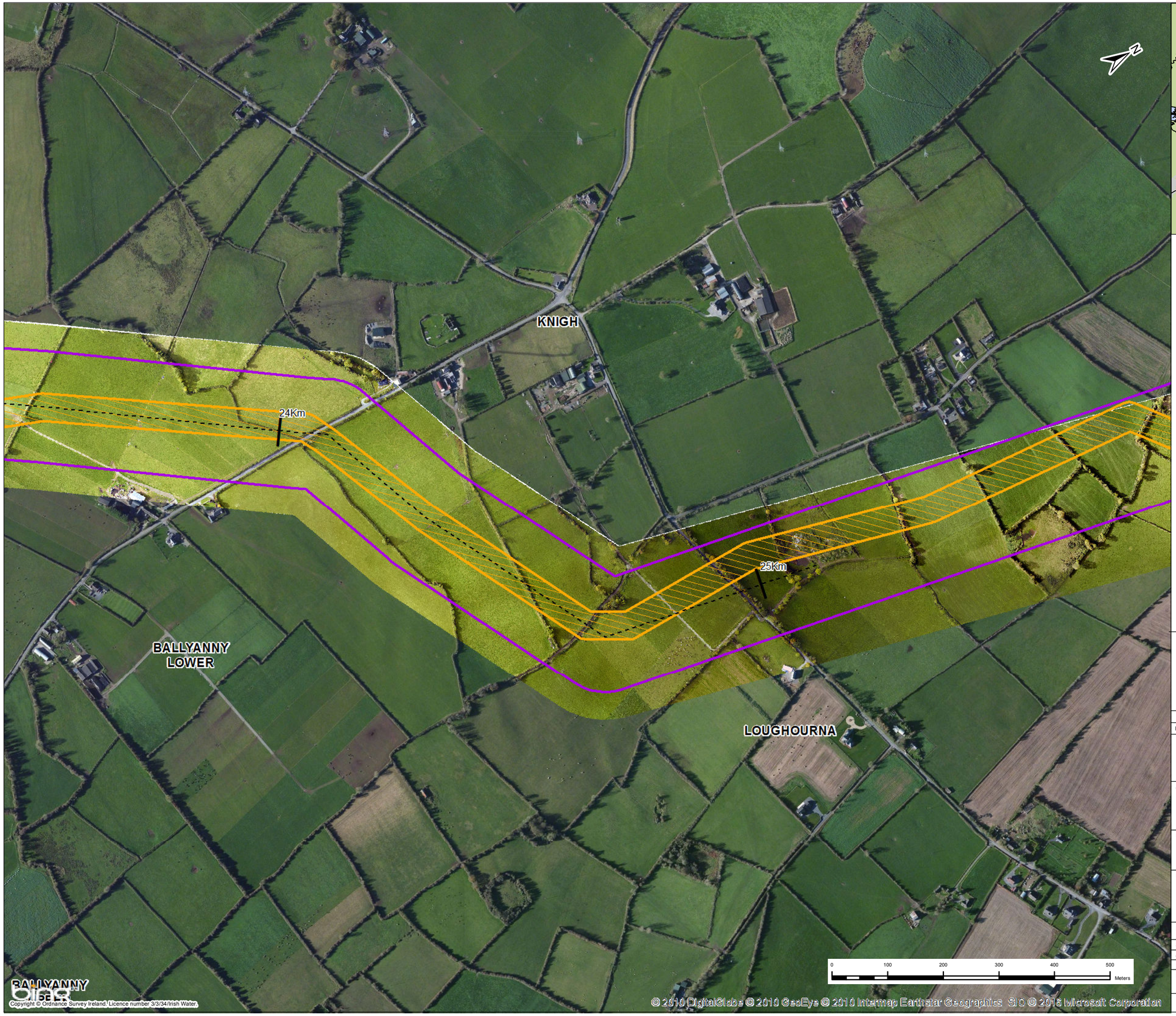
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

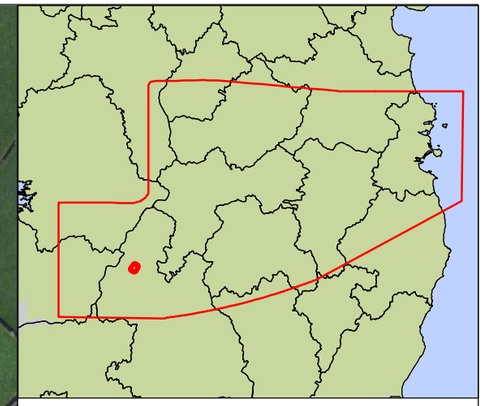
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-111

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

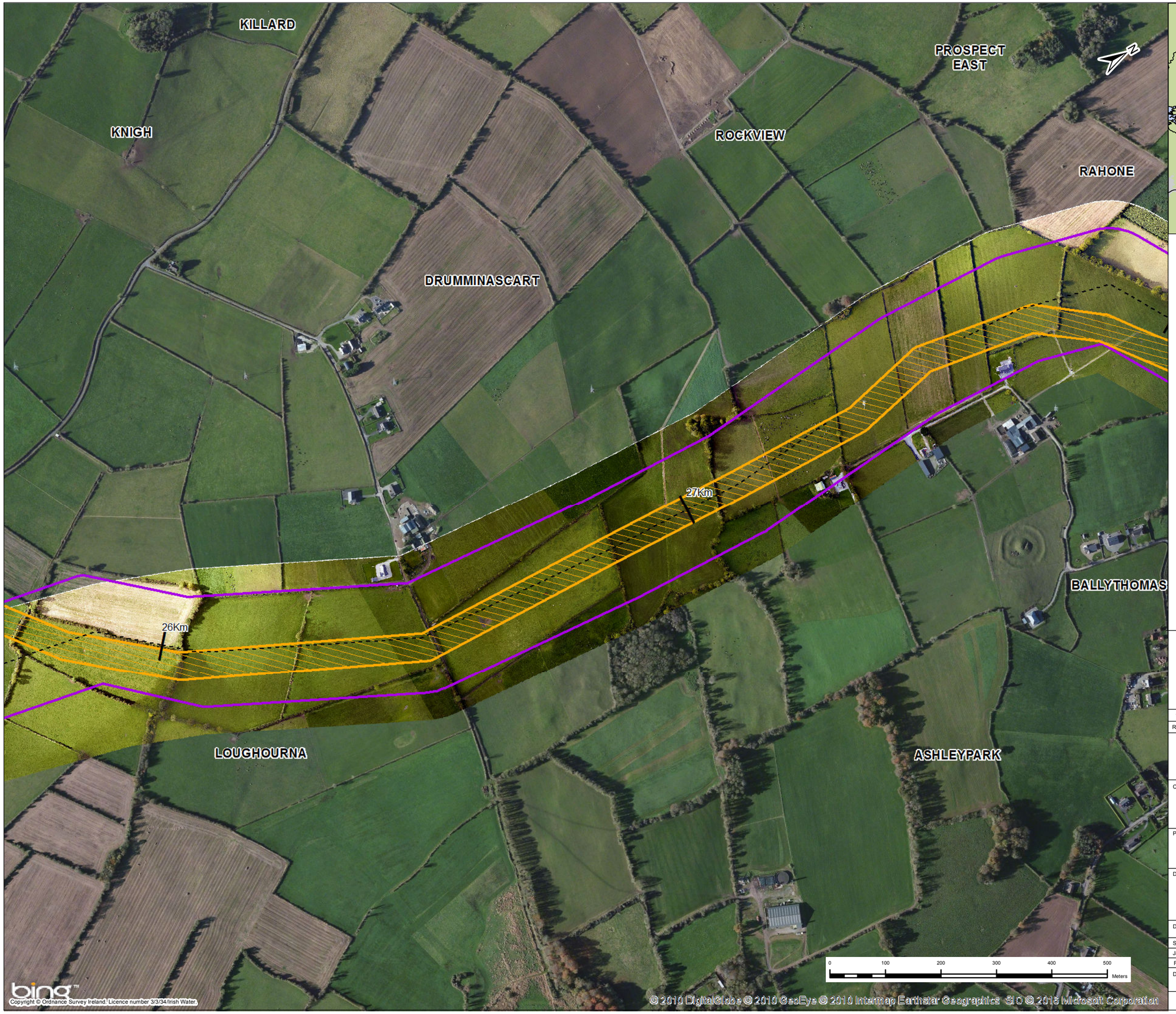
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

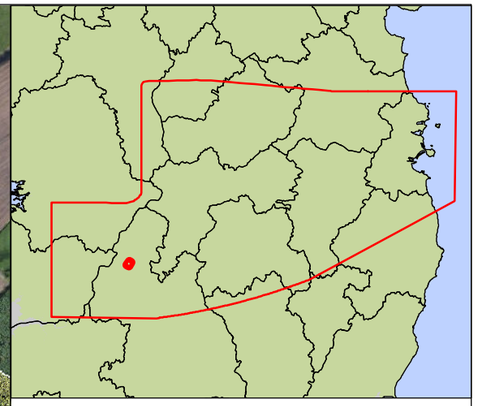
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DBO\05 Tasks\05_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-112

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

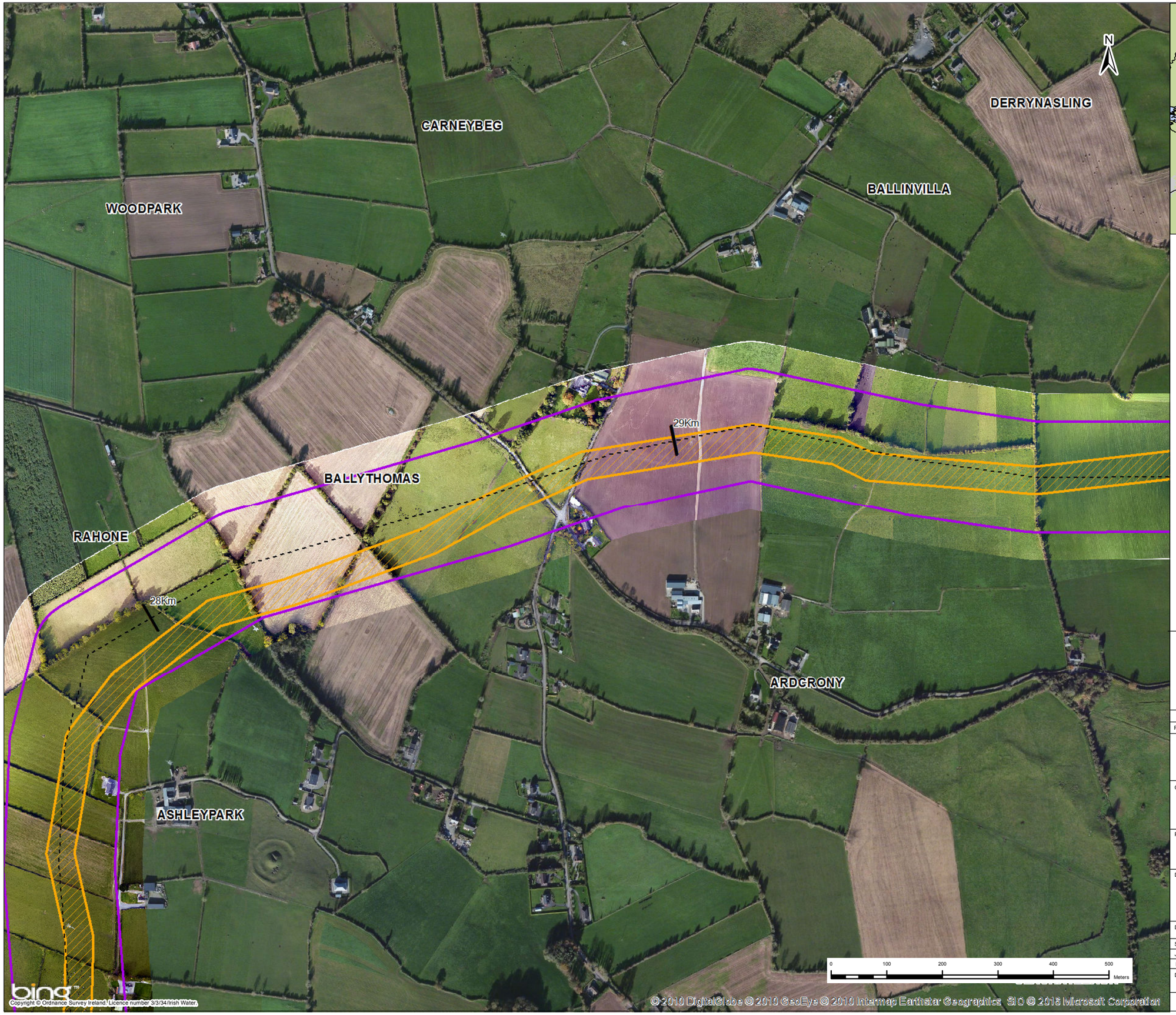
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

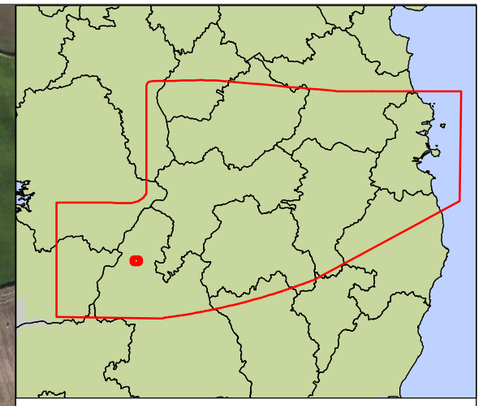
Drawing Status: **For Issue**

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Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-113

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

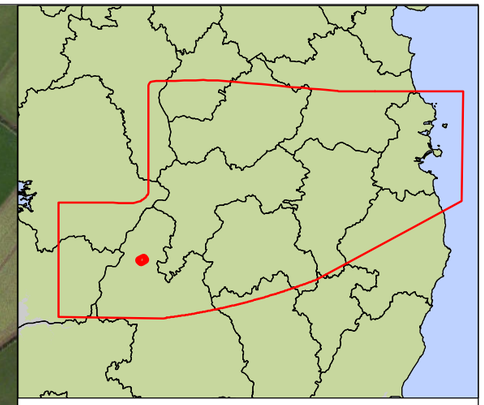
Drawing Status: **For Issue**

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Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-114

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

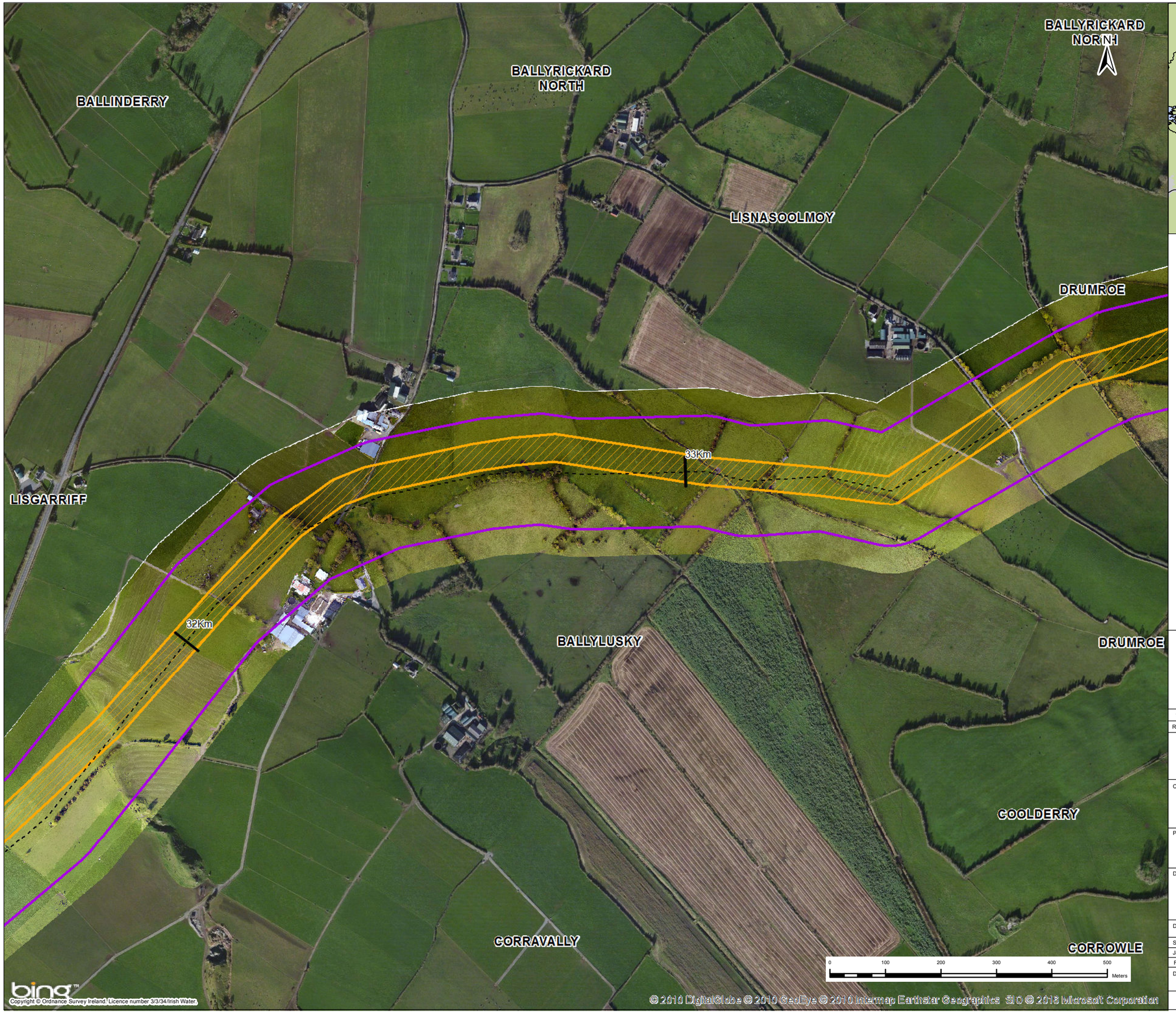
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

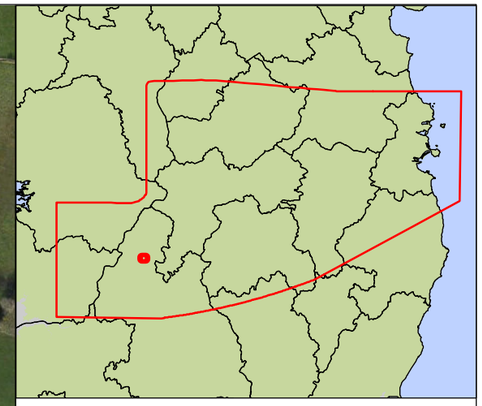
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-115

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

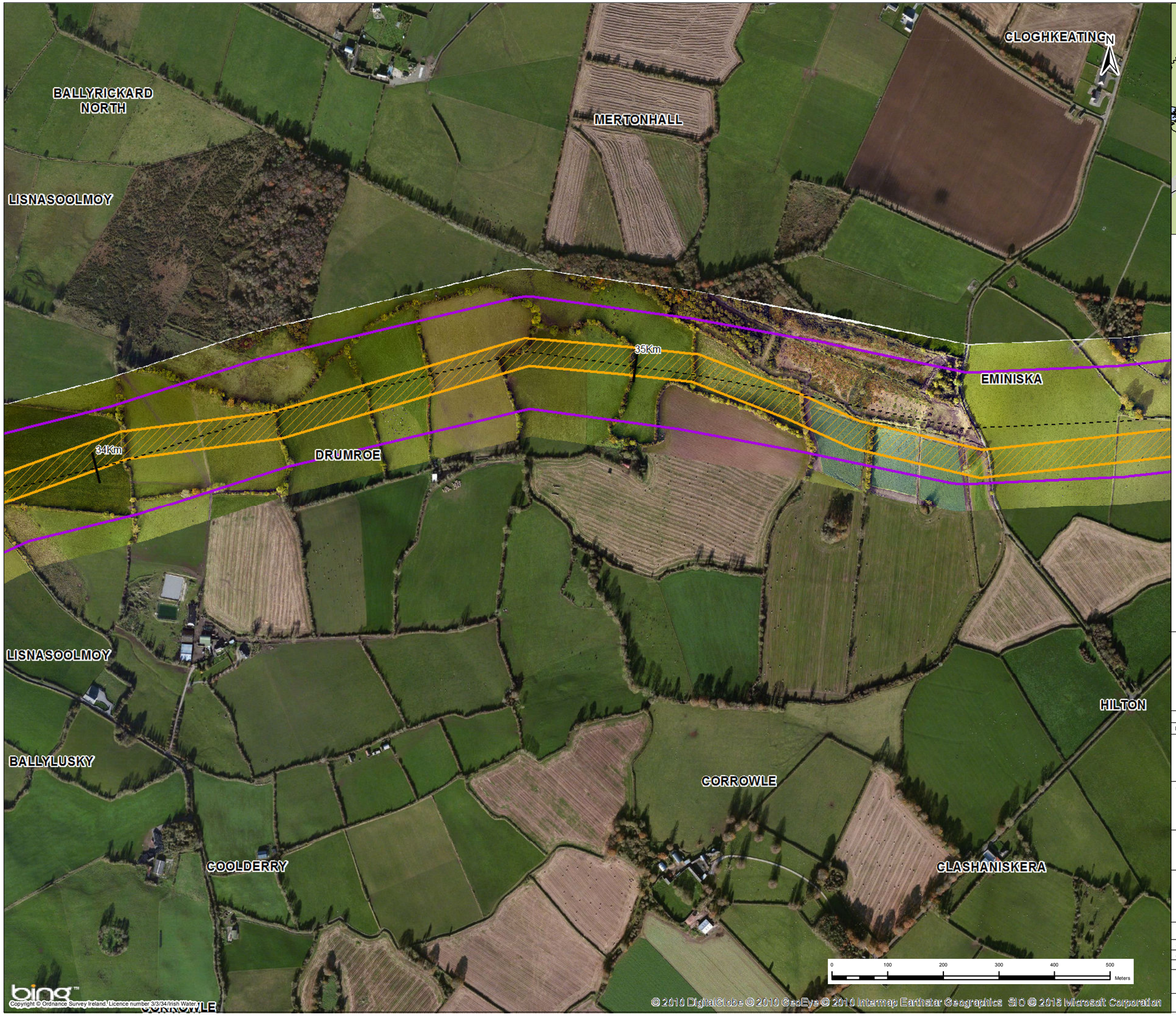
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

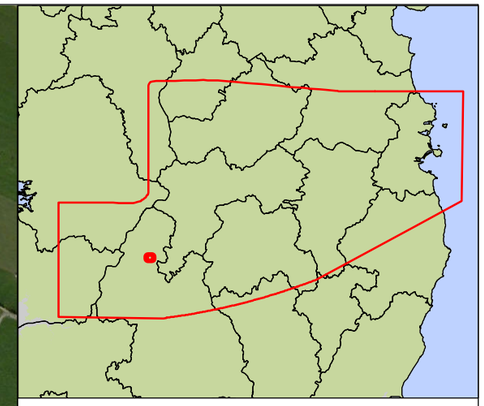
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 - WSP-DRGS Tarbert_Moanbrack Mapping\50m Corridor Maps.mxd		

Drawing No.: 32105801-FOAR-116

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

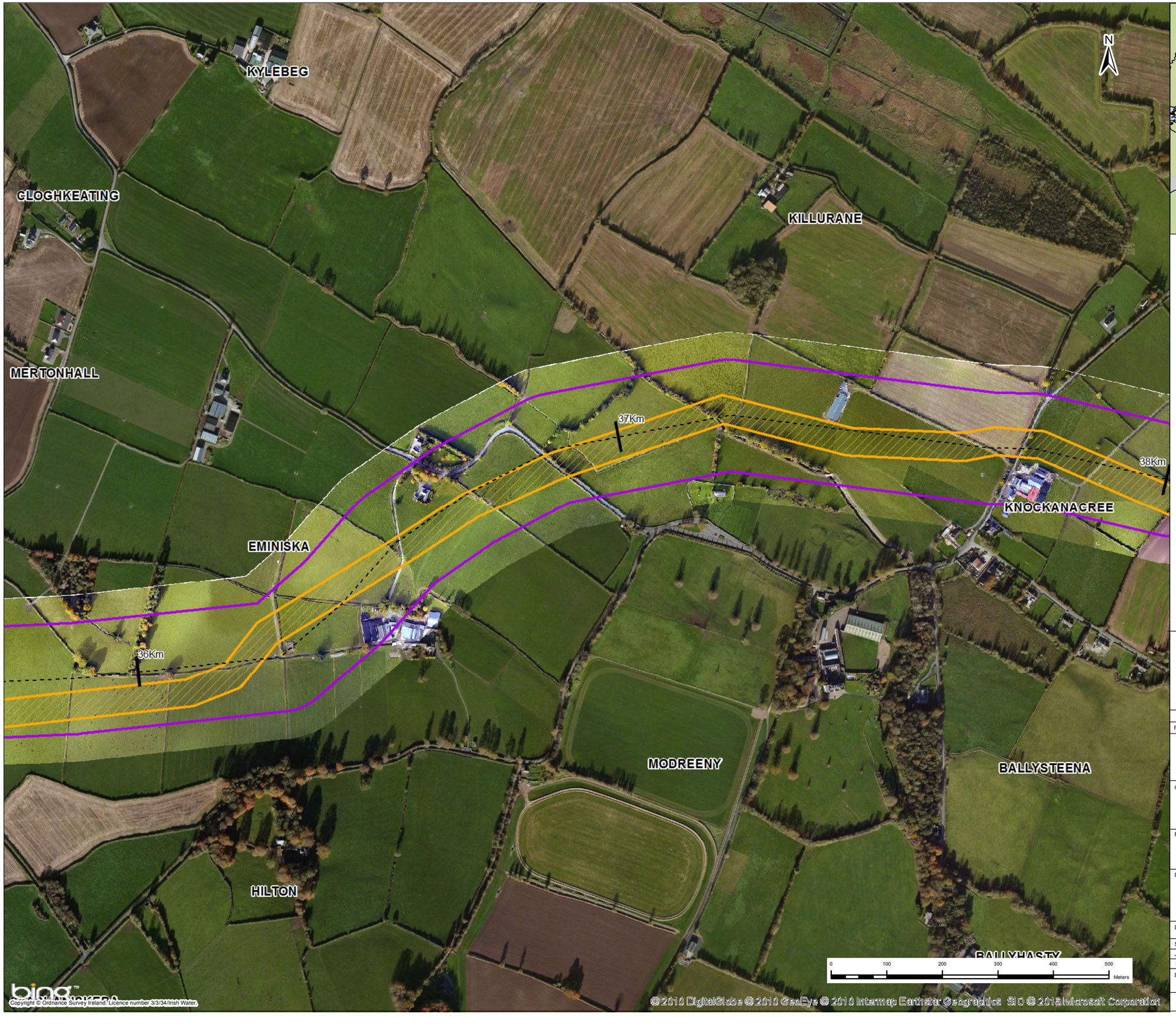
Project: Water Supply Project - Eastern and Midlands Region

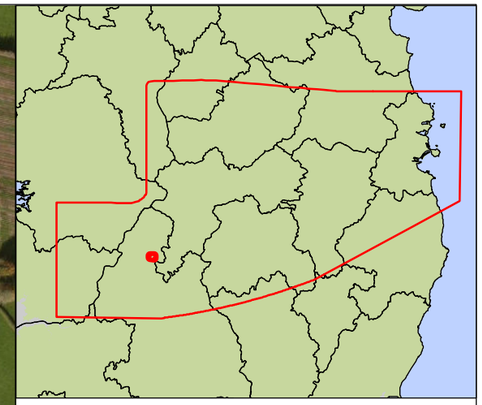
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
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Filepath	G:\JOBS\32105801 - WSP-DRGB Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-117

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

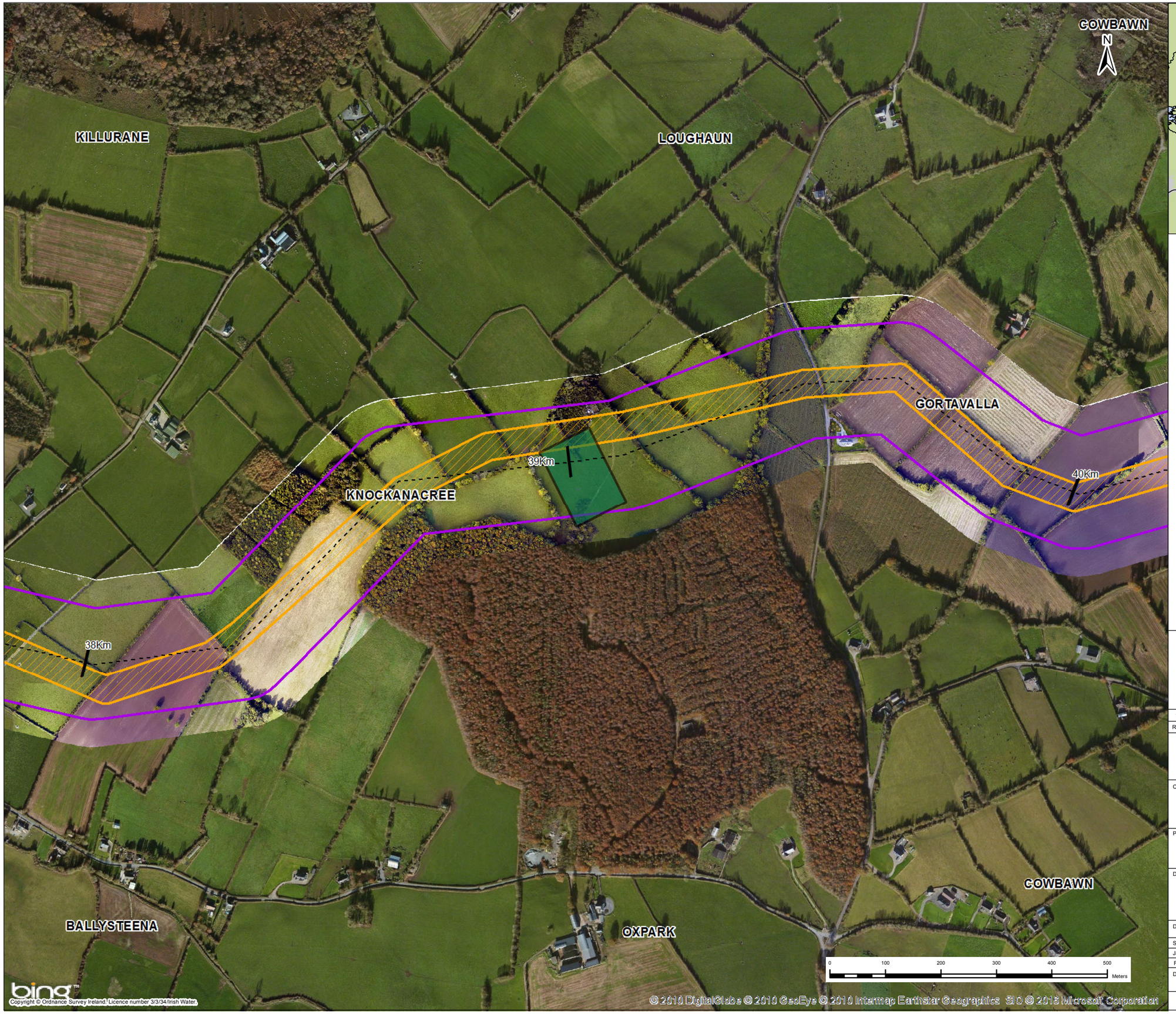
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

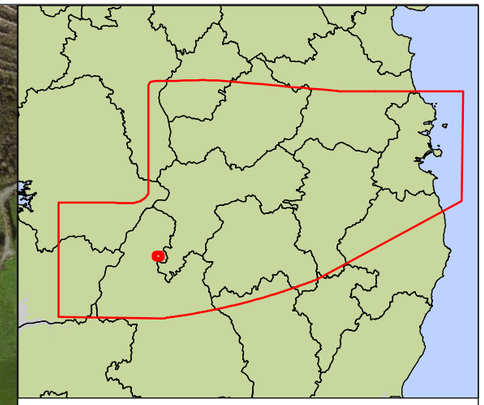
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Issue\Route Mapping\Drn Corridor Maps.mxd		

Drawing No. 32105801-FOAR-118

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

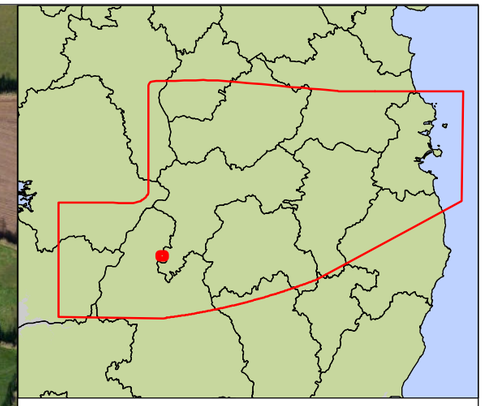
Drawing Status: **For Issue**

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Drawing No.: 32105801-FOAR-119

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN
Patrick J. Tobin & Co. Ltd.

Client
UISCE EIREANN / IRISH WATER

Project
Water Supply Project - Eastern and Midlands Region

Drawing Title
Preferred 200m Pipeline Corridor
and Indicative 50m Pipeline Corridor

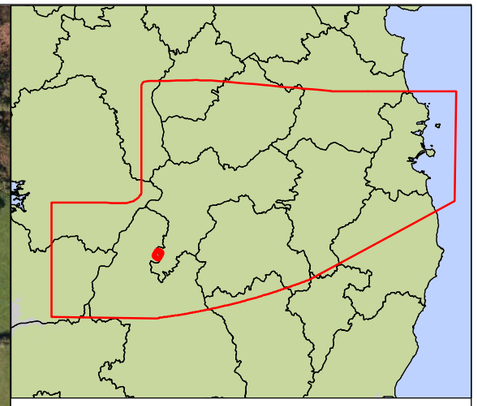
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Iris Art Route Mapping\50m Corridor Maps.mxd		

Drawing No.
32105801-FOAR-120

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

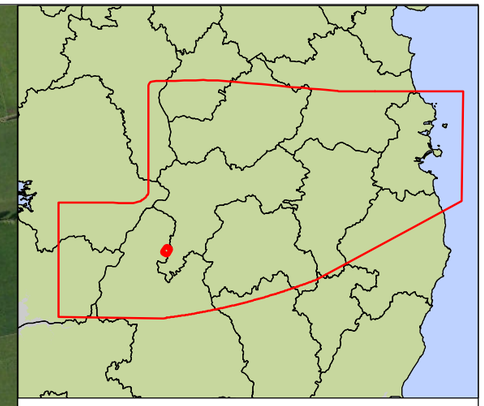
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-121

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

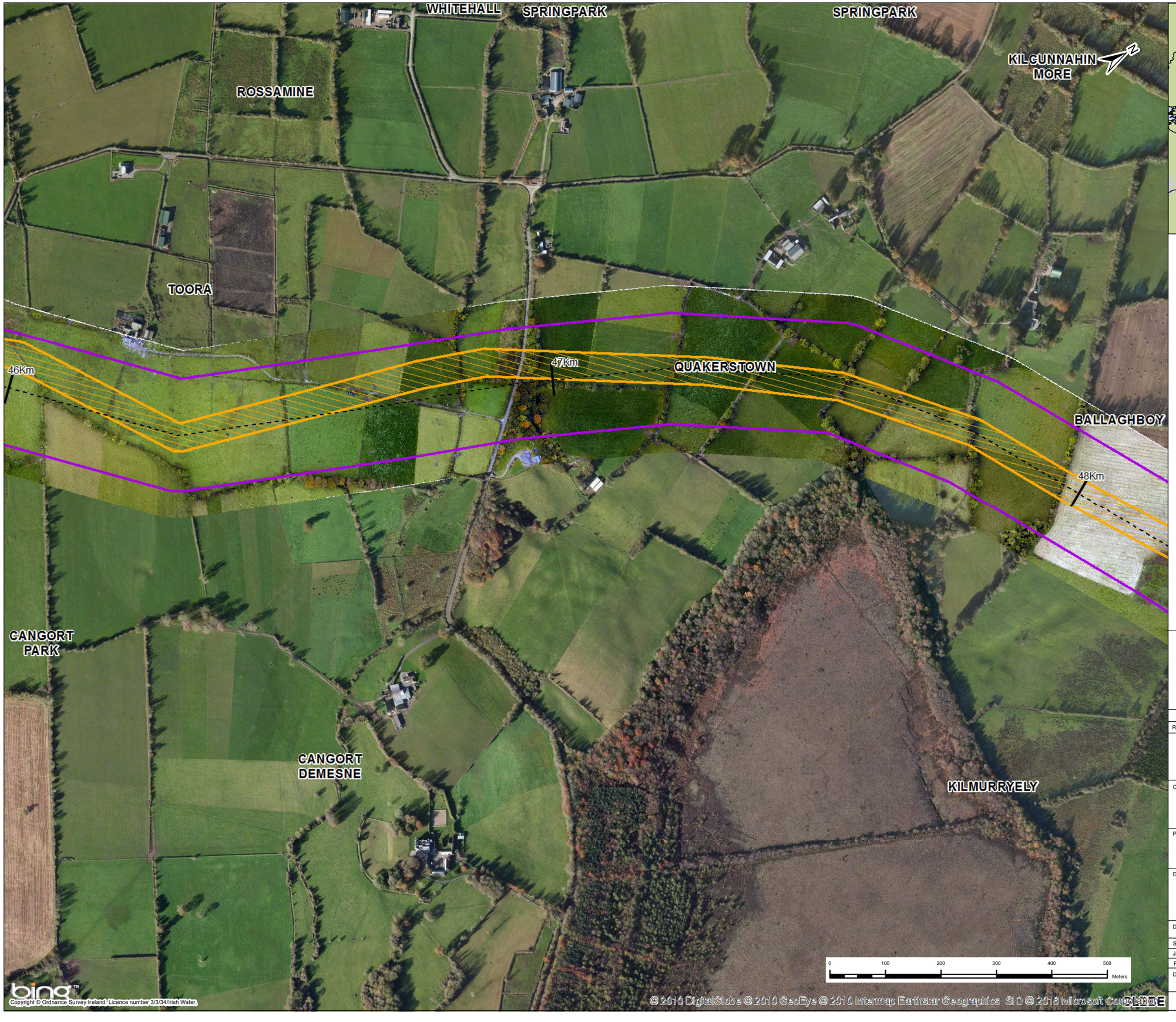
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

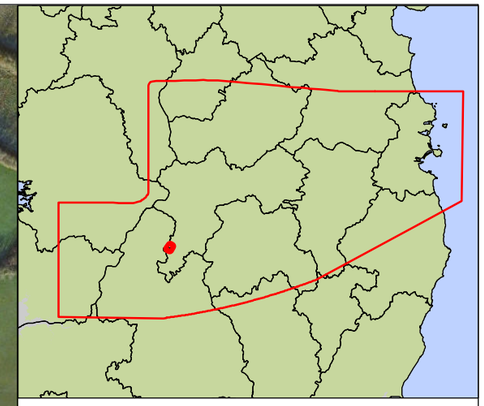
Drawing Status: **For Issue**

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Filepath	G:\IRISH\32105801 - WSP-DRIGS Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No.: 32105801-FOAR-122

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

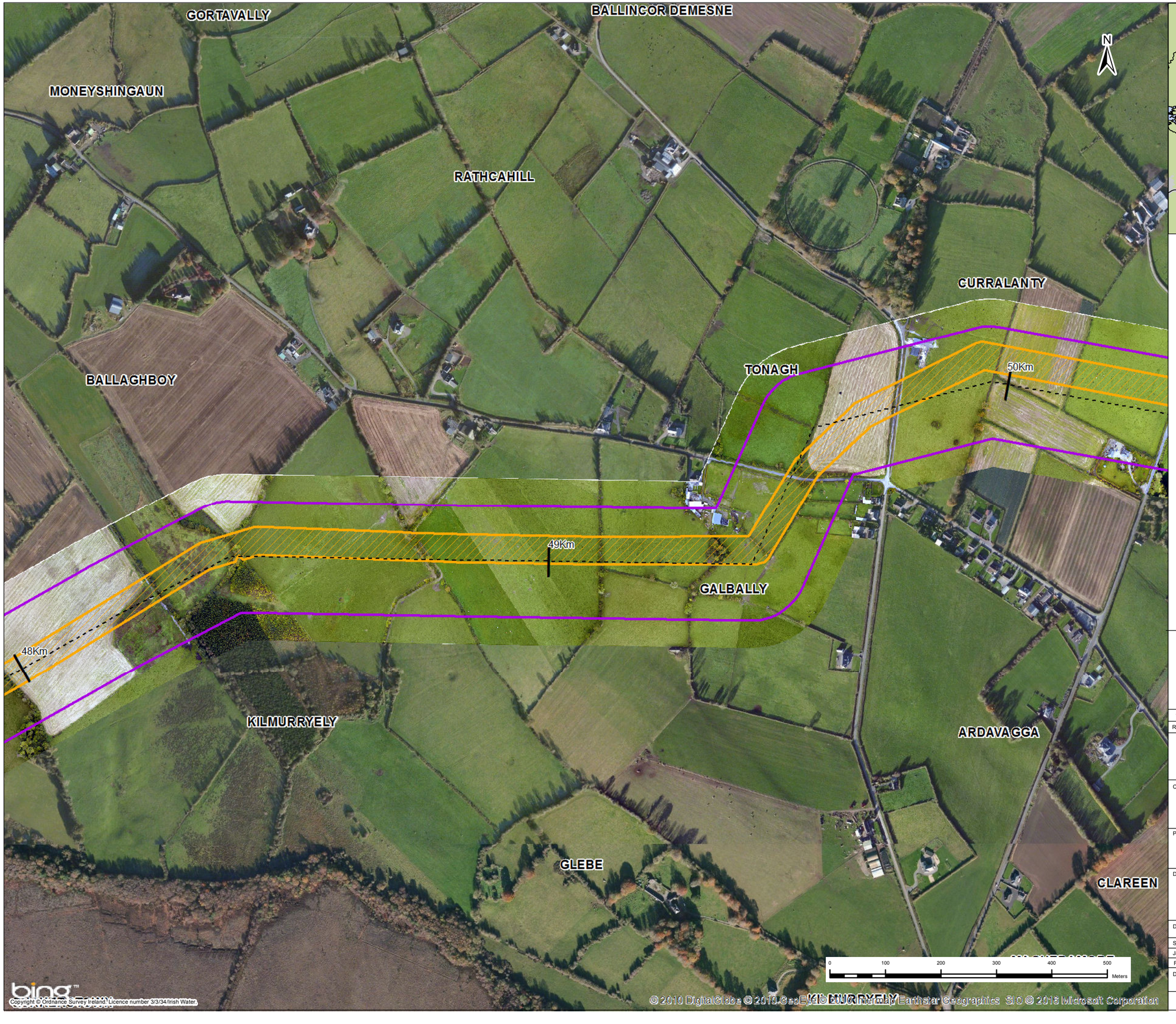
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

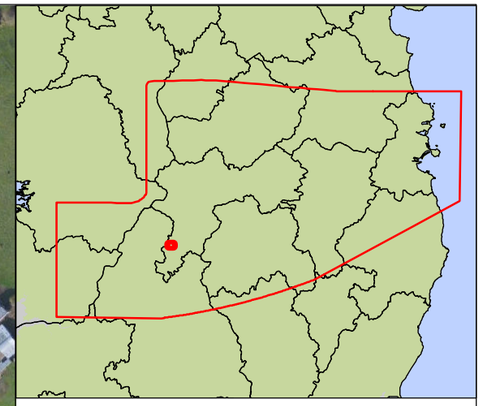
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
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Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-123

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

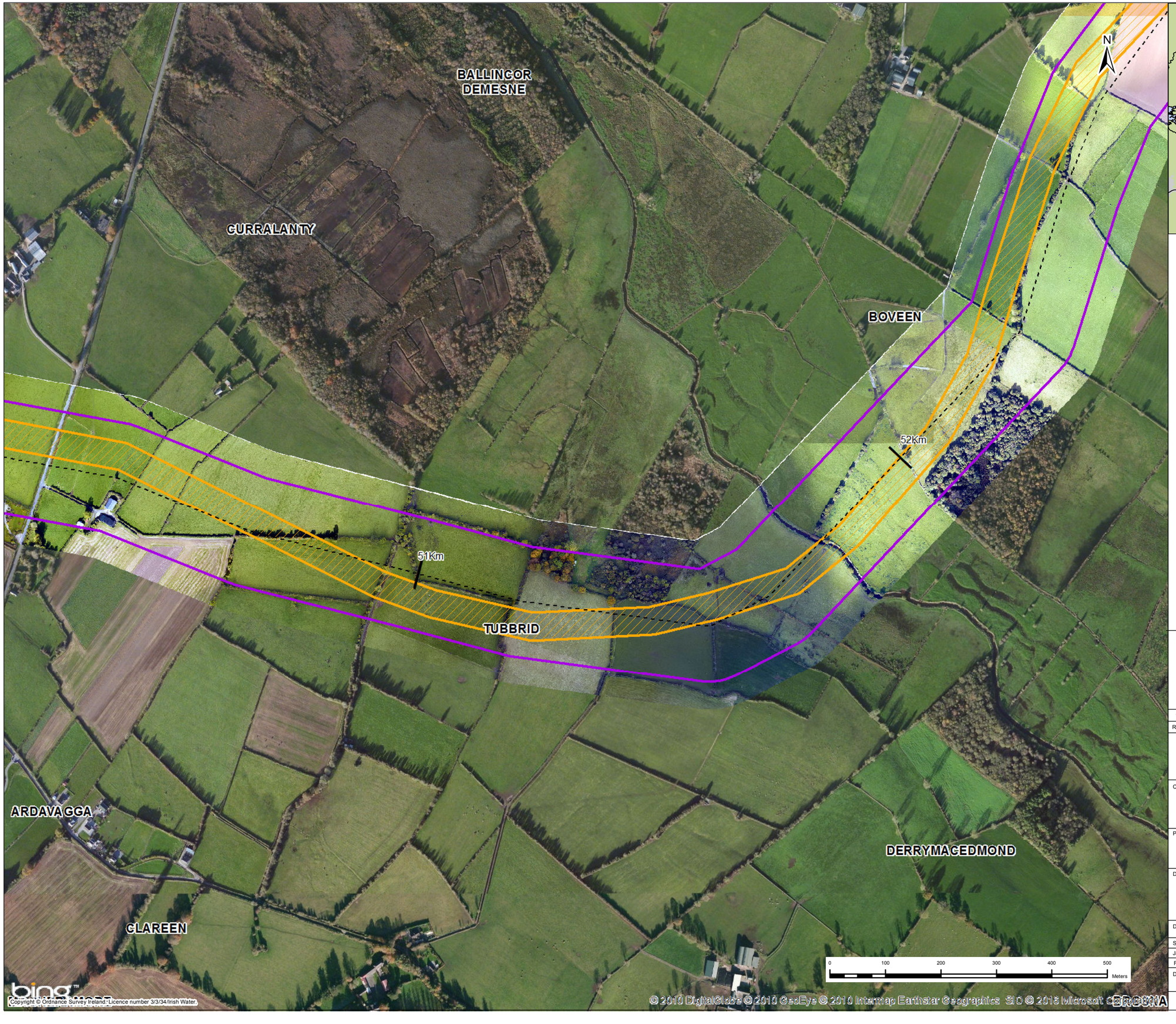
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

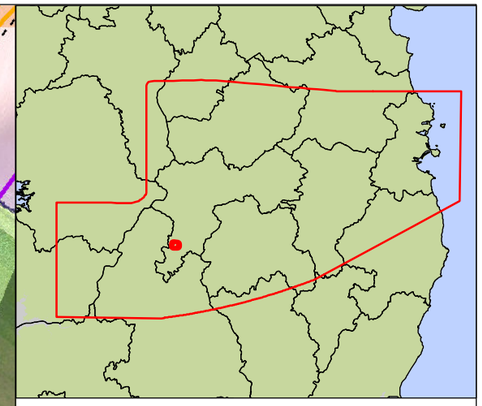
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-124

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

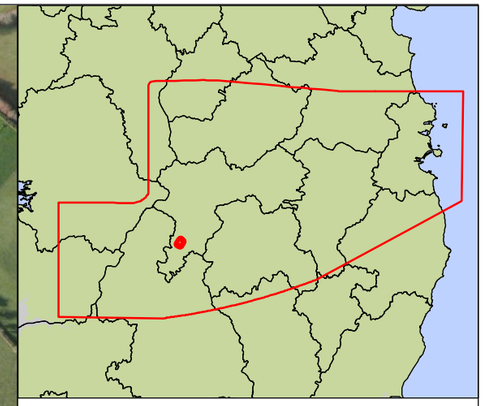
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Iss.de\Raw Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-125

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

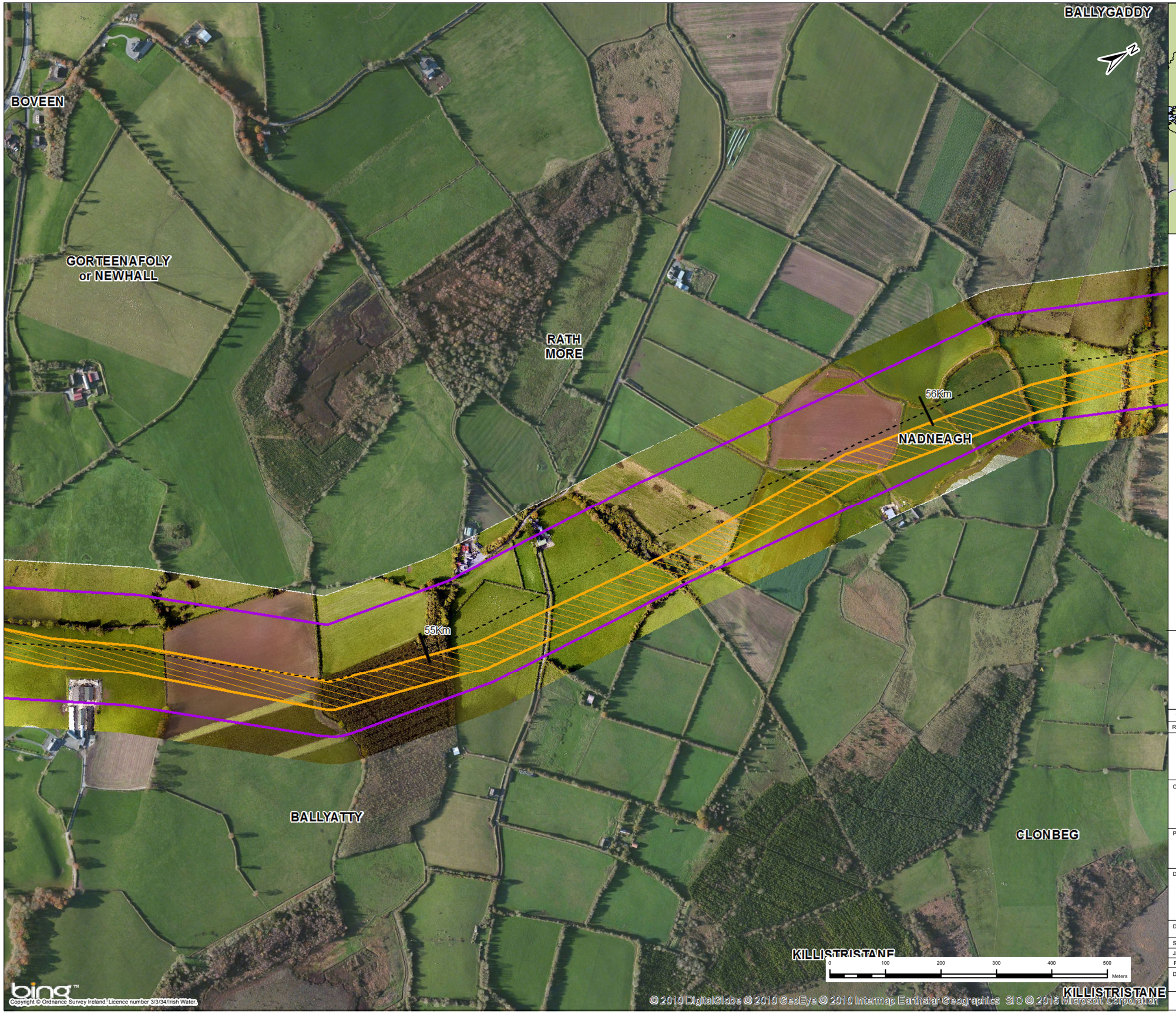
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

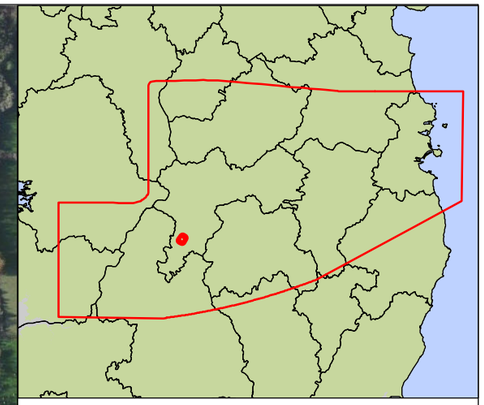
Drawing Status: **For Issue**

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Filepath	G:\IRG\IS\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-126

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

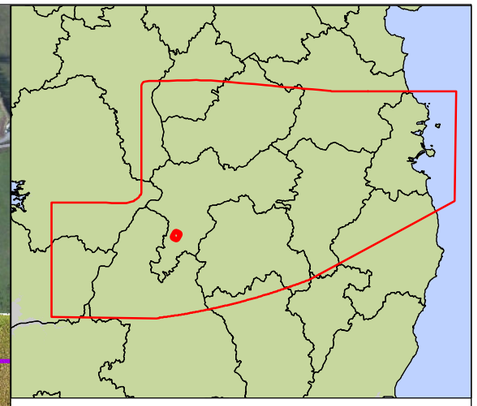
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-127

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

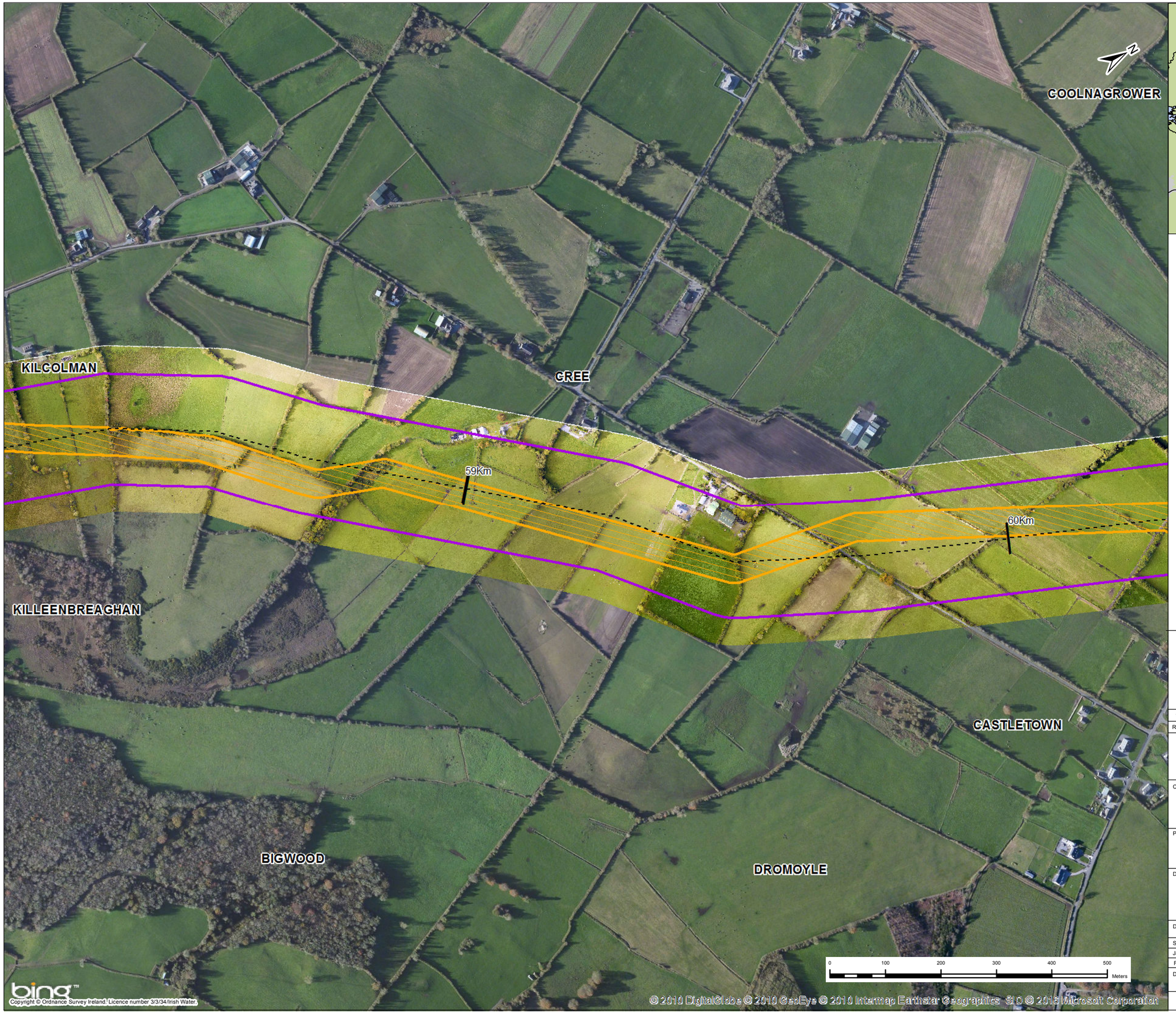
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

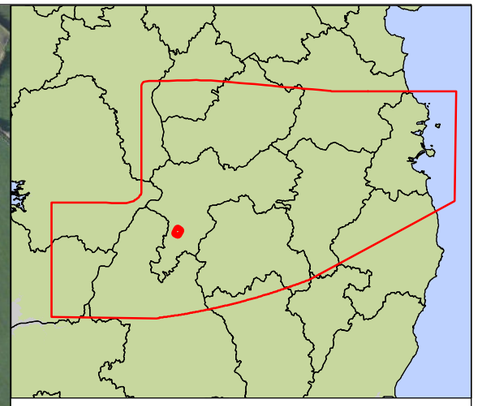
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DBO\05 Tasks\5_Mxd\Route Mapping\Rm Corridor Maps.mxd		

Drawing No. 32105801-FOAR-128

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client

UISCE ÉIREANN - IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Preferred 200m Pipeline Corridor
and Indicative 50m Pipeline Corridor

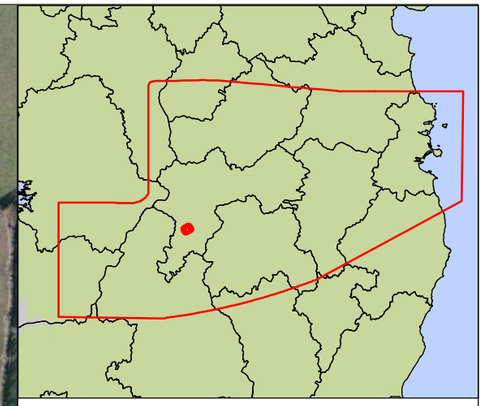
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-ORGS Tarbert_Midd\Route Mapping\50m Corridor Maps.mxd		

Drawing No.
32105801-FOAR-129

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

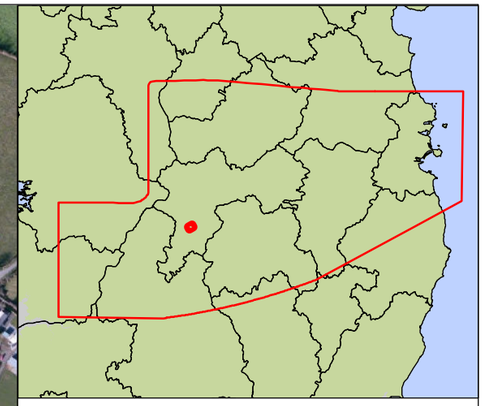
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
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Filepath	G:\IRG\IS\32105801 - WSP-DRG\5 Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-130

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

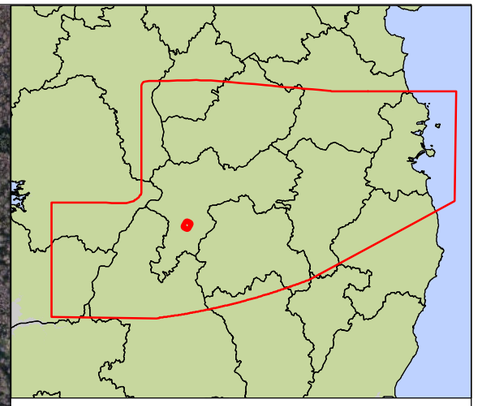
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DRGS Tasks\5_Iss.de\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-131

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

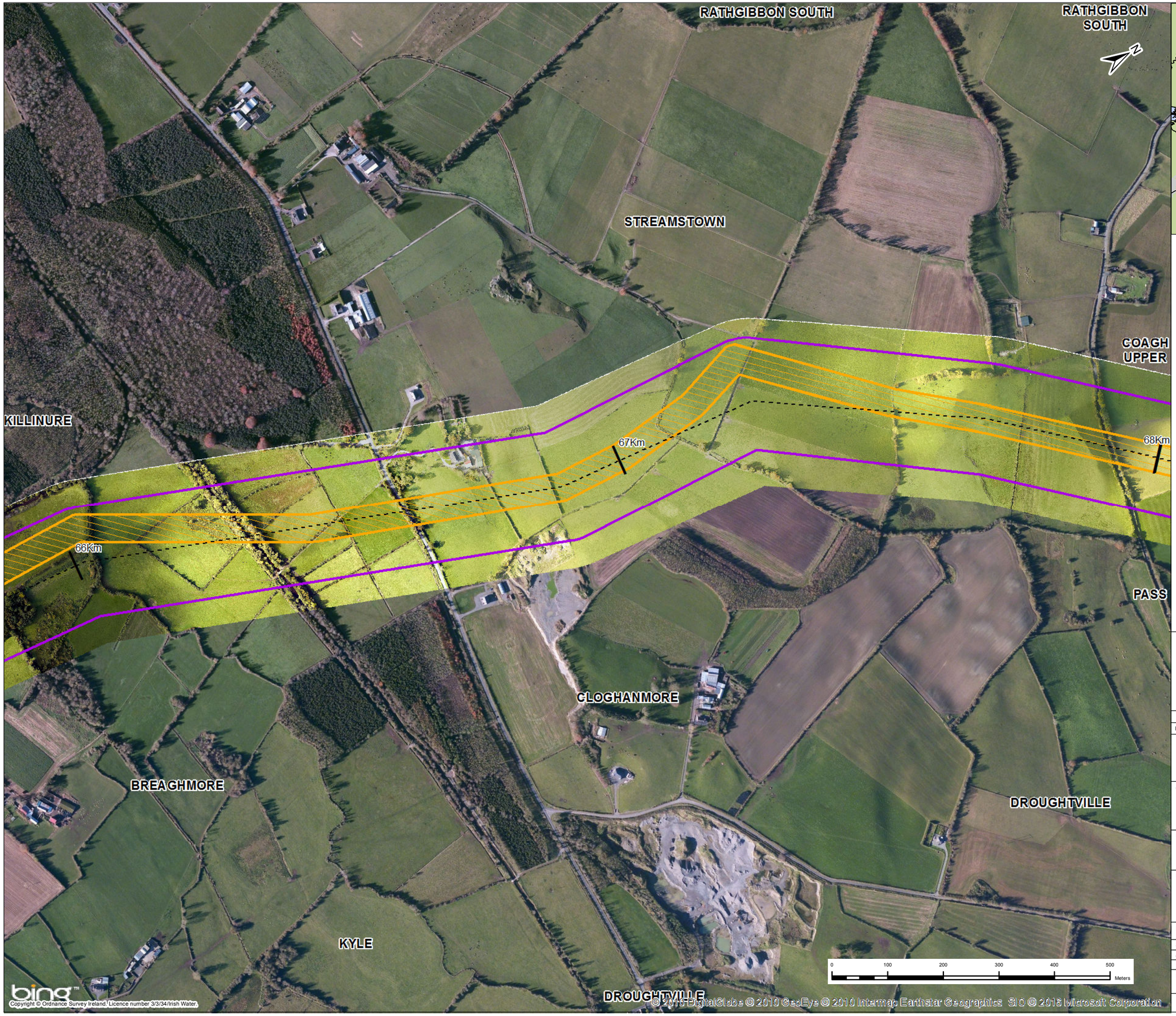
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

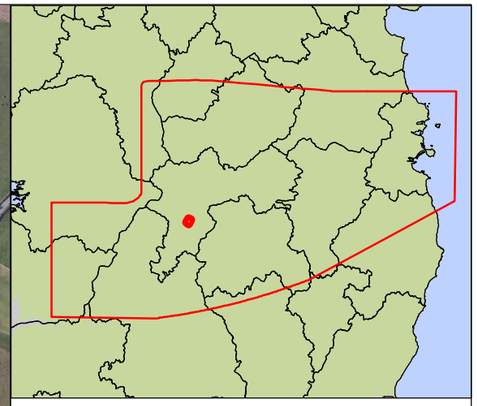
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-132

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

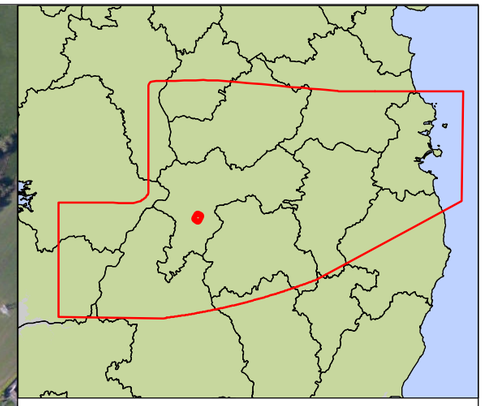
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
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Drawing No. 32105801-FOAR-133

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

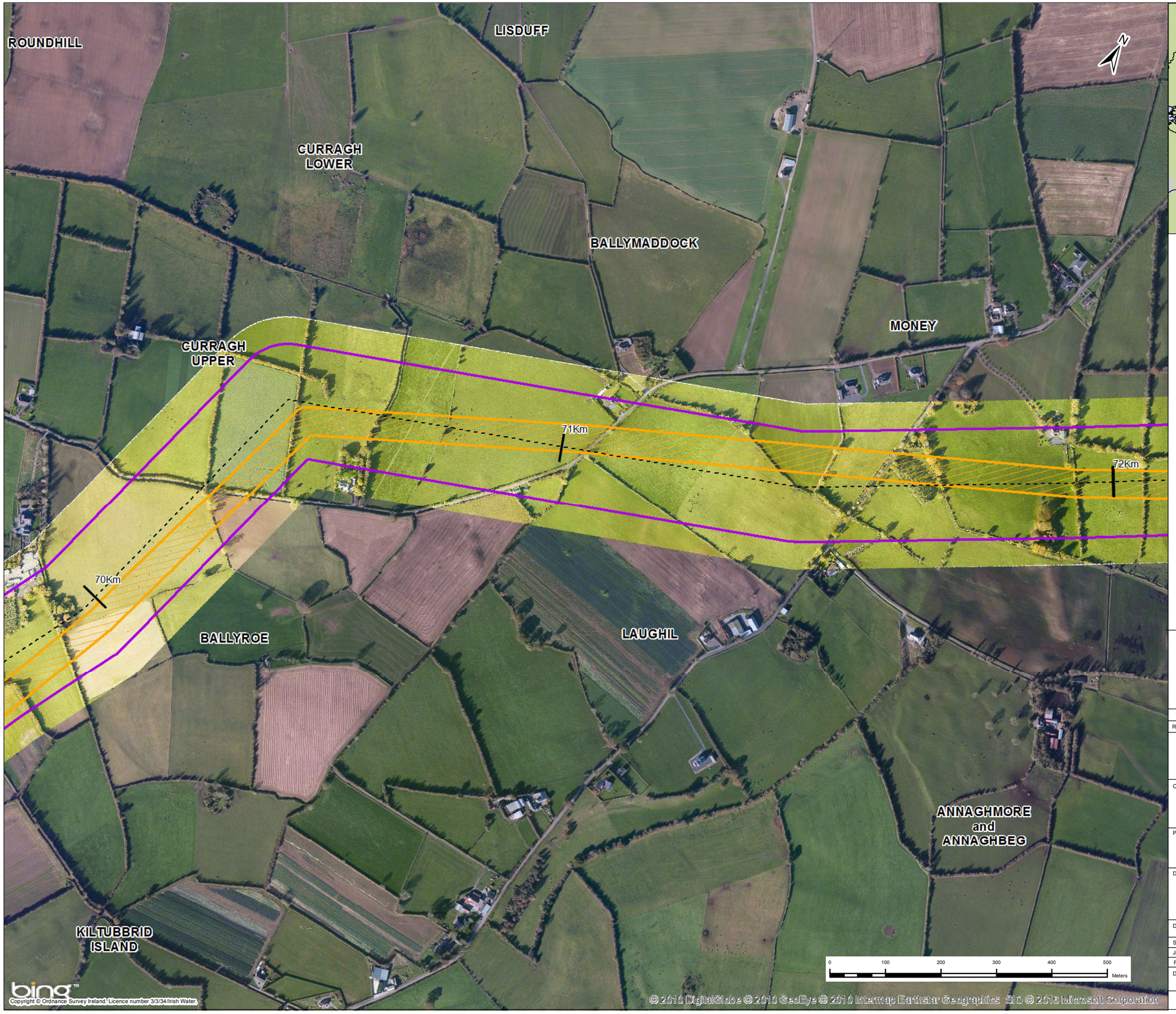
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

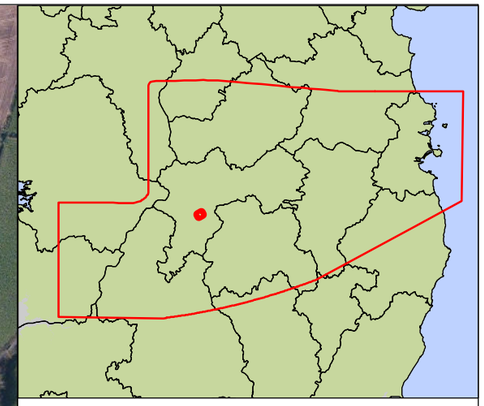
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-134

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

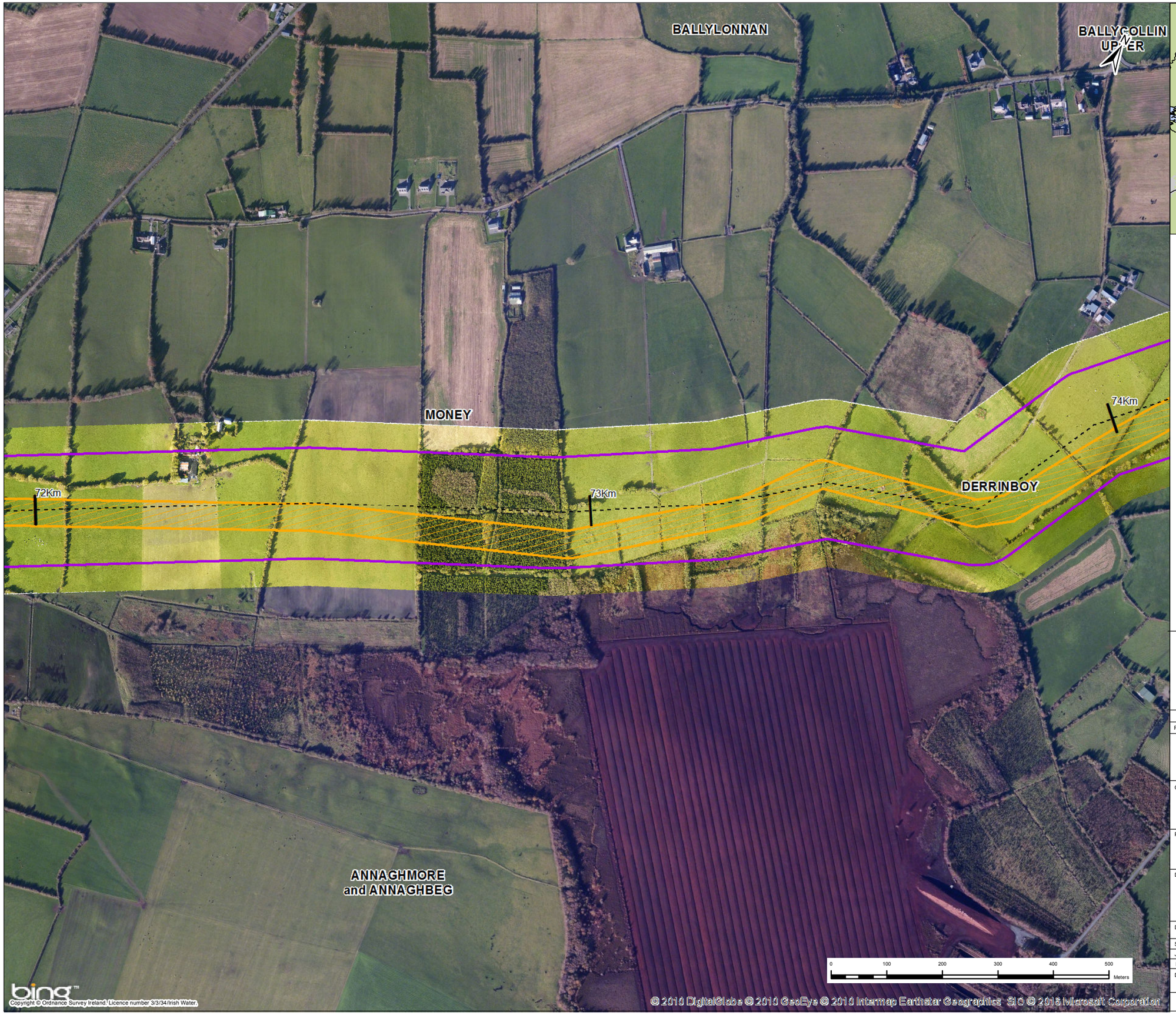
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

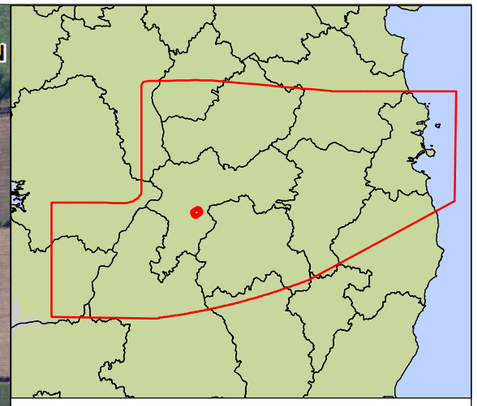
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGB Tarbert_Moneilhaw Mapping\50m Corridor Mask.mxd		

Drawing No.: 32105801-FOAR-135

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

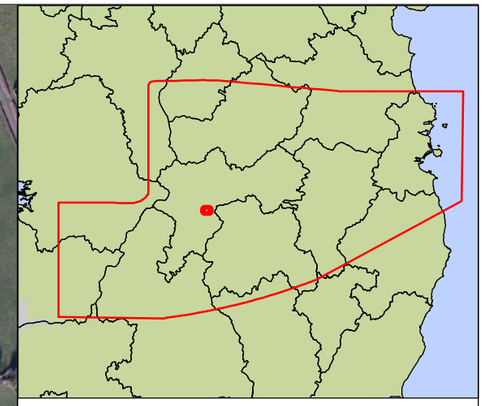
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Iris\4-Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-136

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

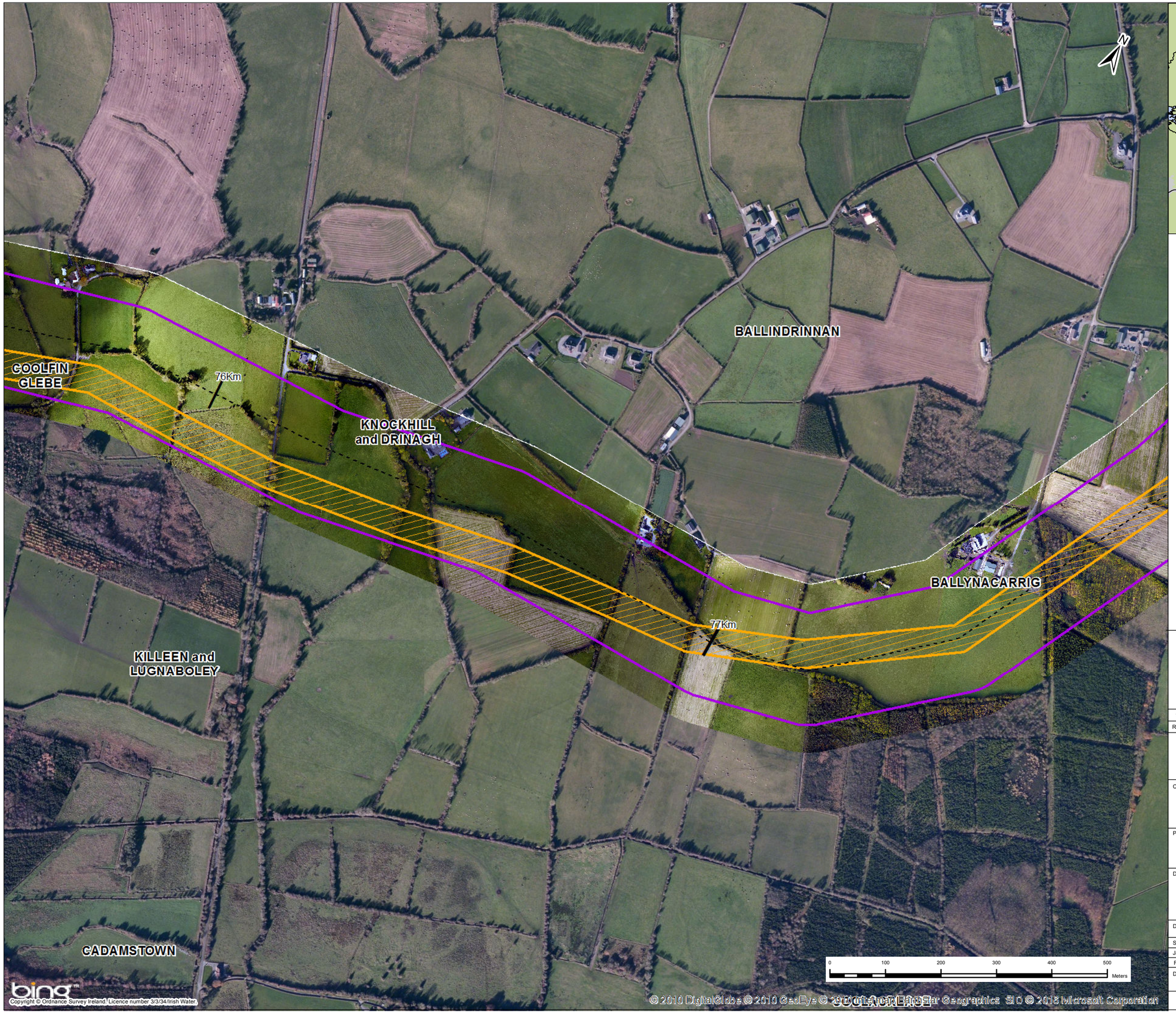
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

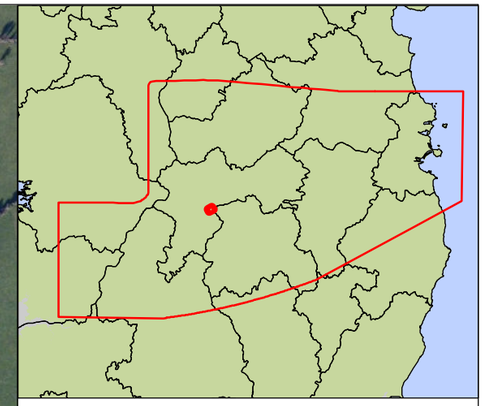
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-137

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

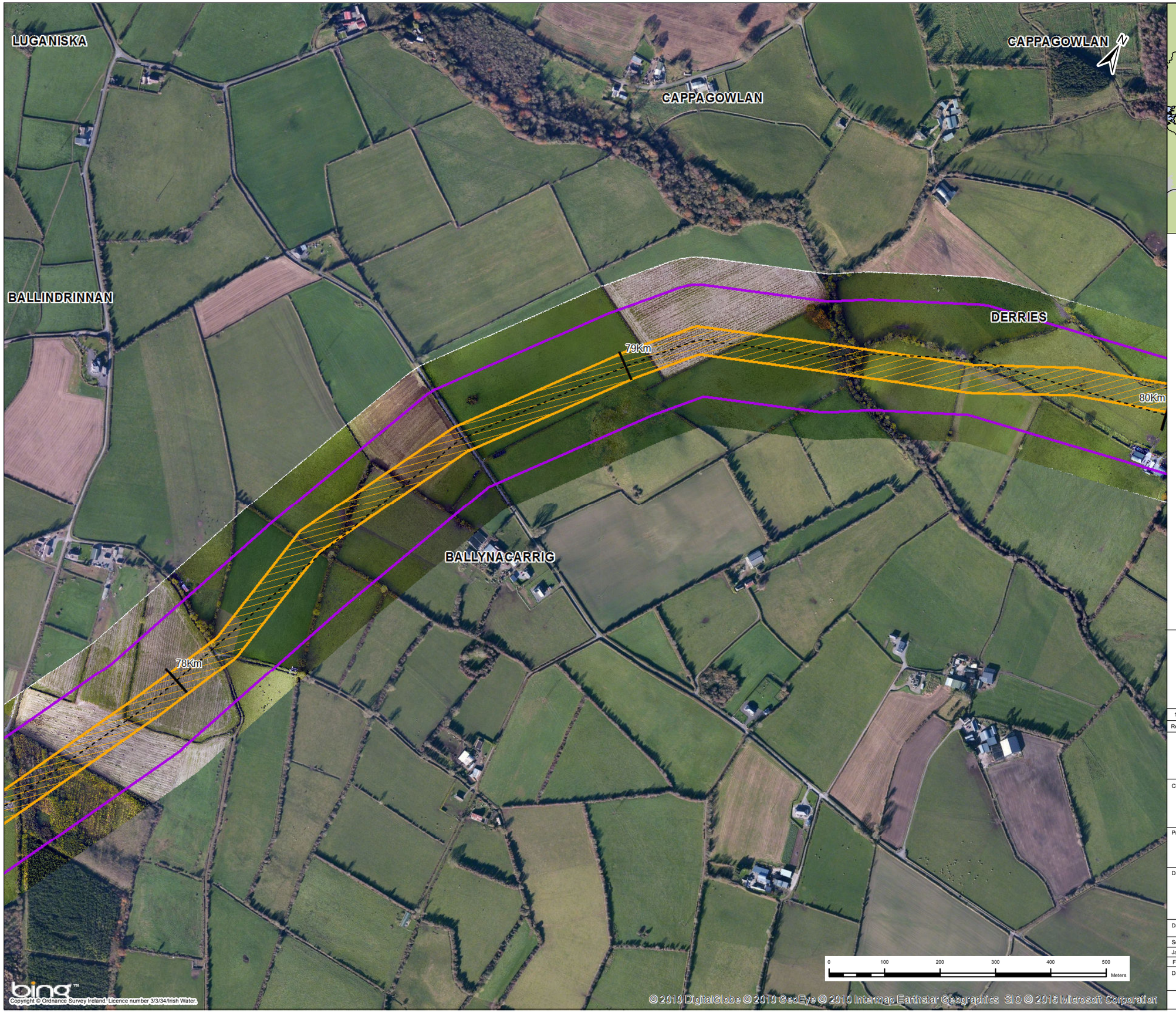
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

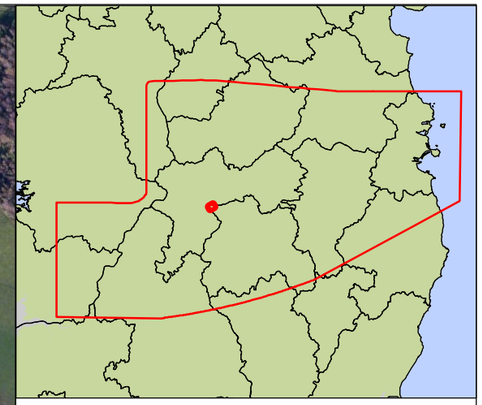
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-138

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

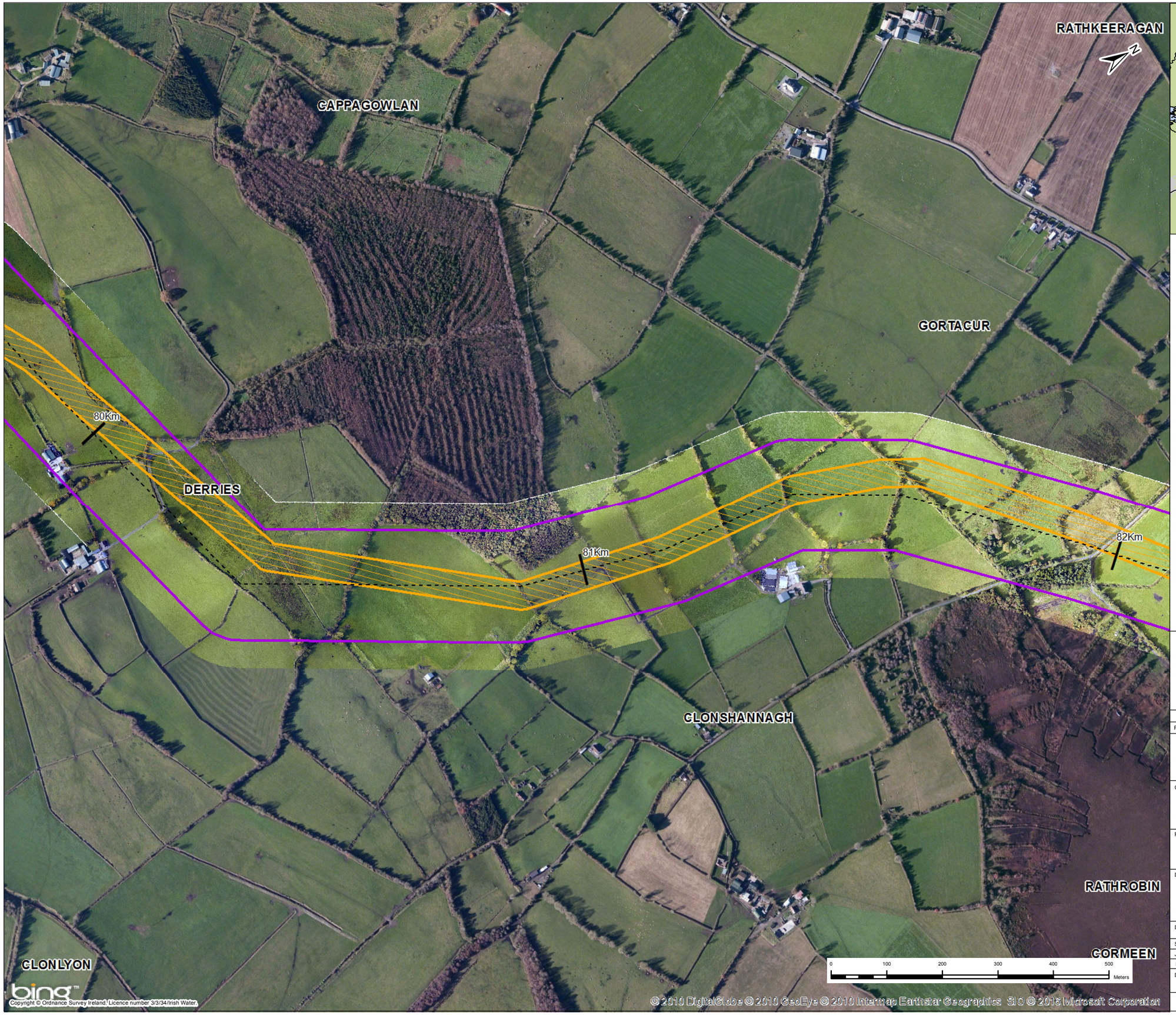
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

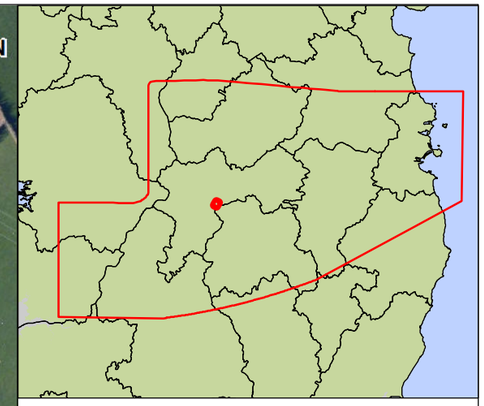
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-139

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

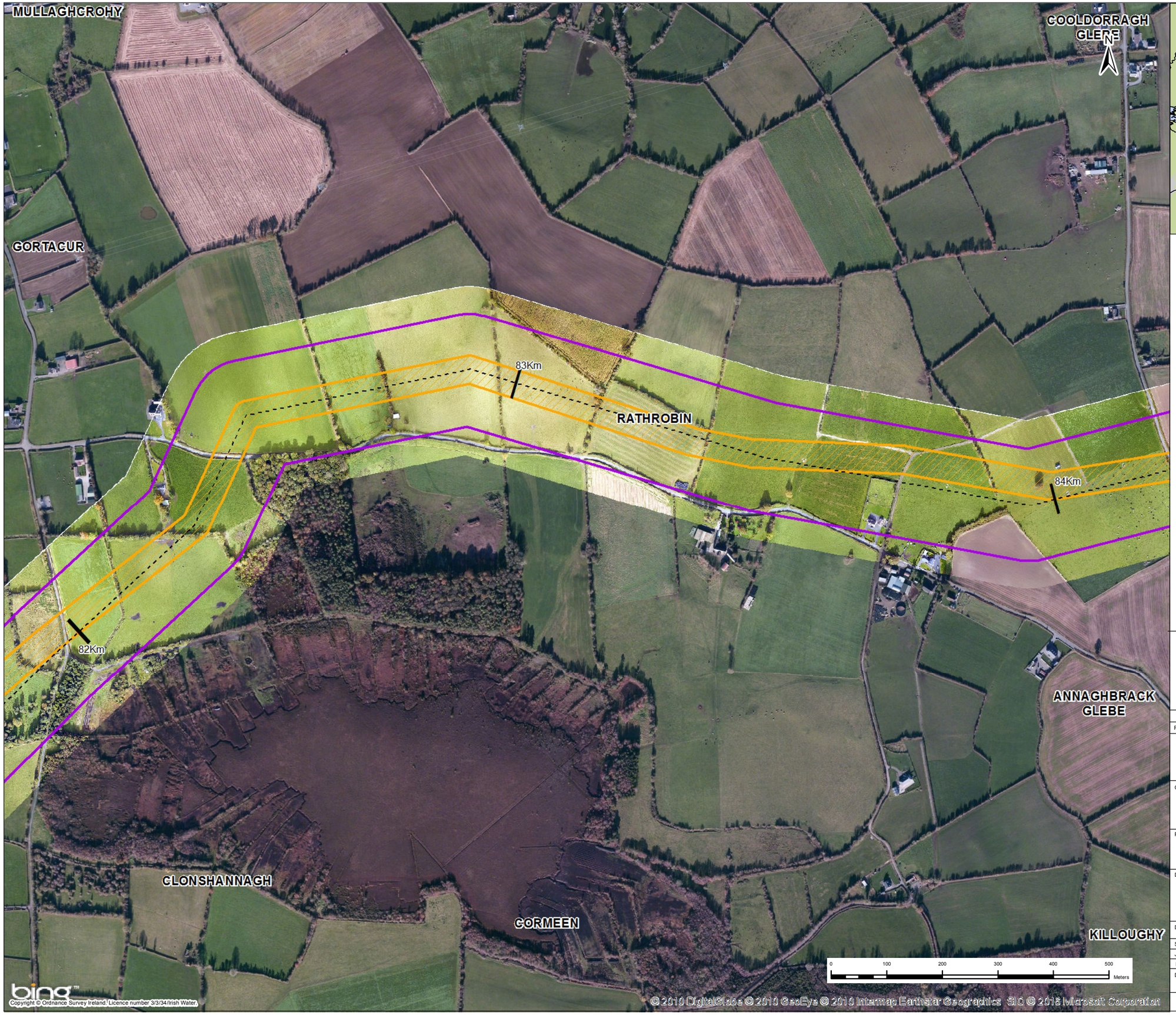
Project: Water Supply Project - Eastern and Midlands Region

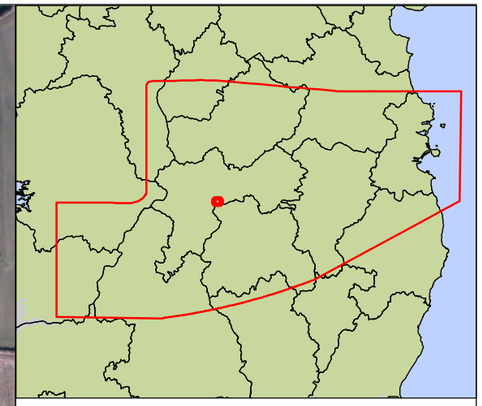
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	For Issue		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRE\32105801 - WSP-DIR\GIS Tasks\5_Mxds\Route Mapping\Rte Corridor Maps.mxd		

Drawing No. 32105801-FOAR-140

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

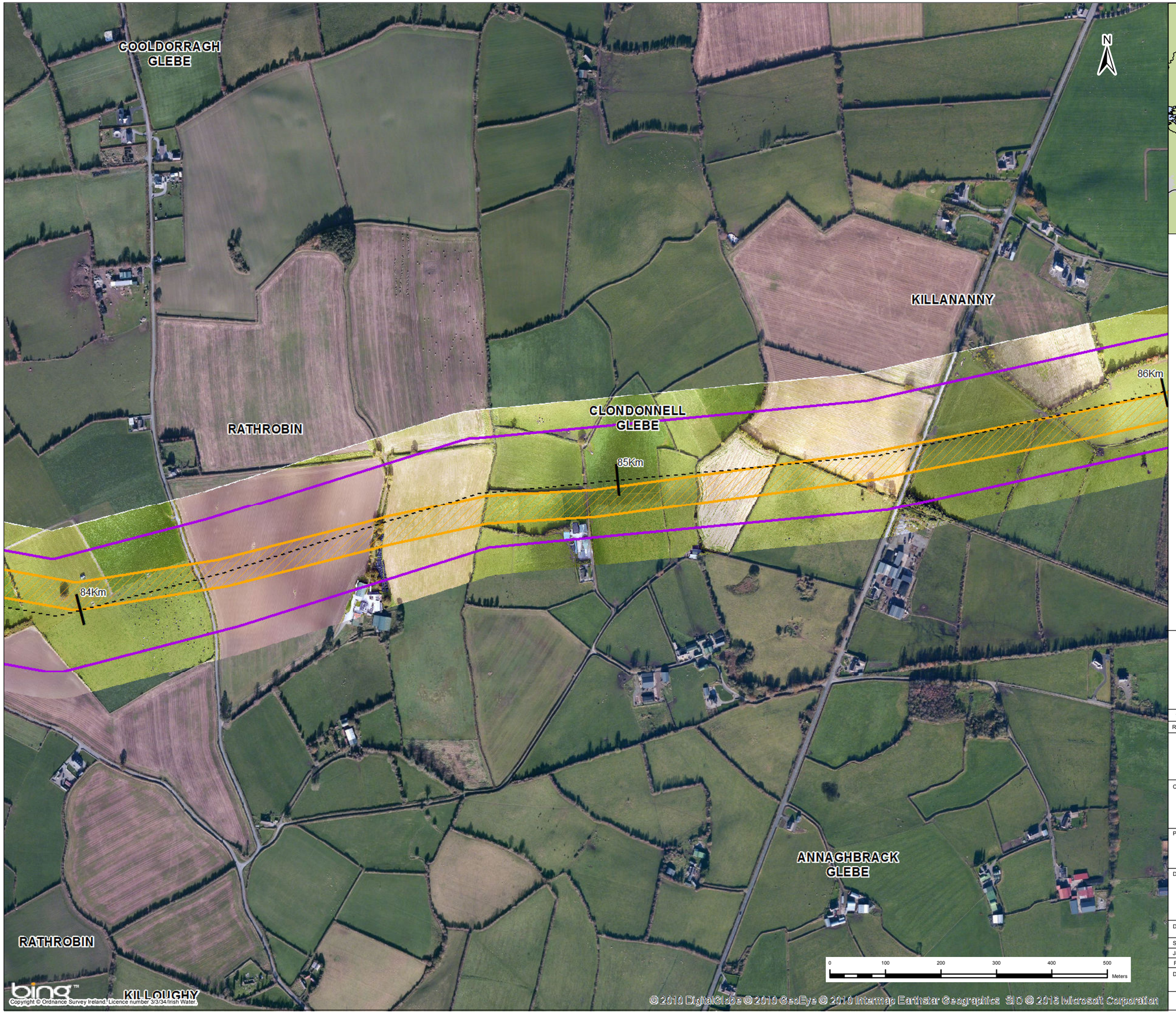
Project: Water Supply Project - Eastern and Midlands Region

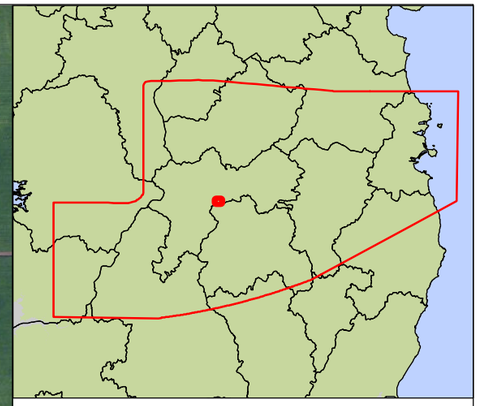
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\SG32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-141

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

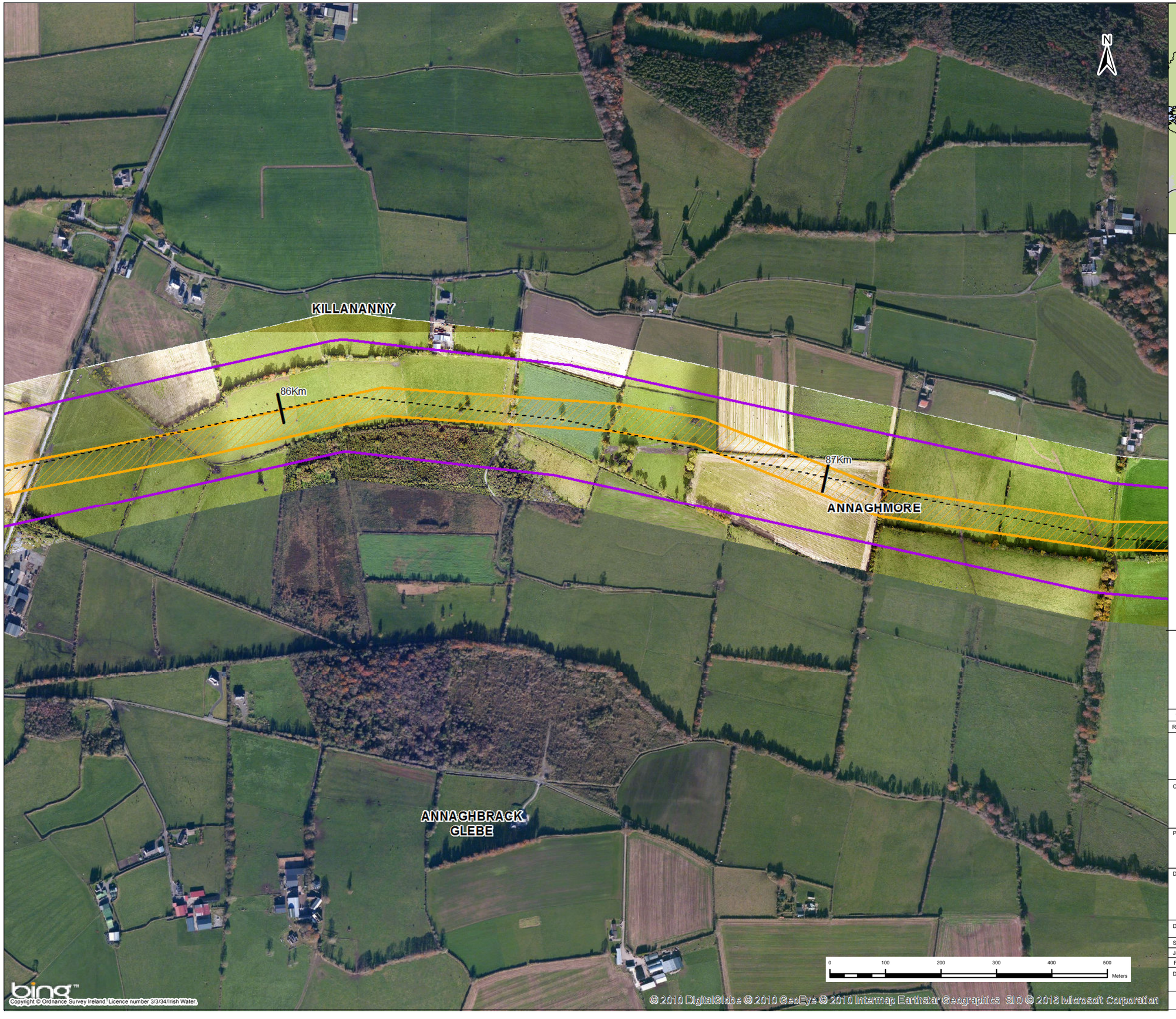
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

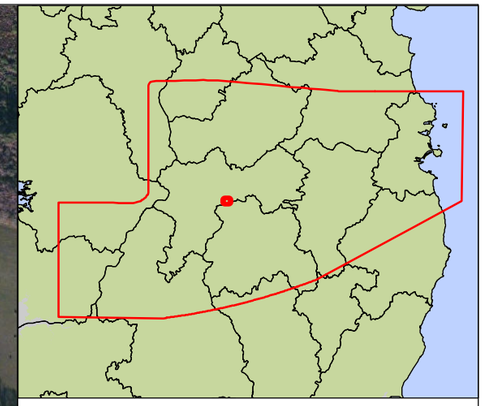
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S\32105801 - WSP-DIR\GIS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No.: 32105801-FOAR-142

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

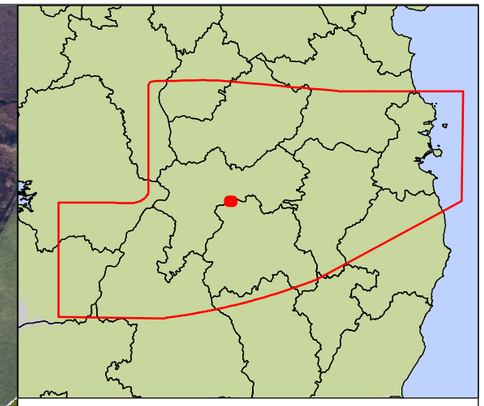
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S32105801 - WSP-DRGS Tasks\5_Mx-tb\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-143

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

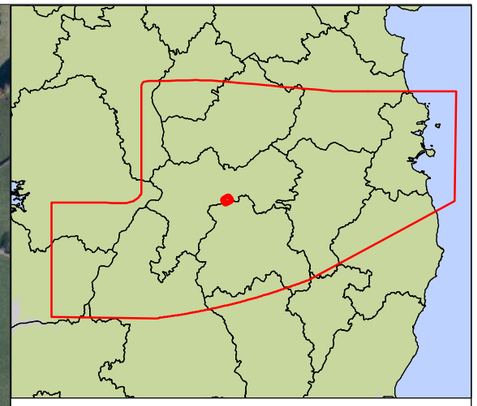
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JN\32\105801 - WSP-DRGS\ Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-144

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

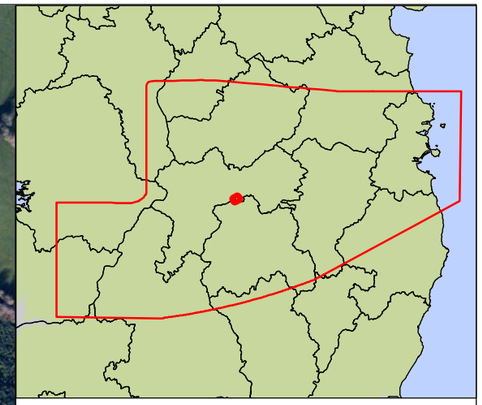
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-145

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

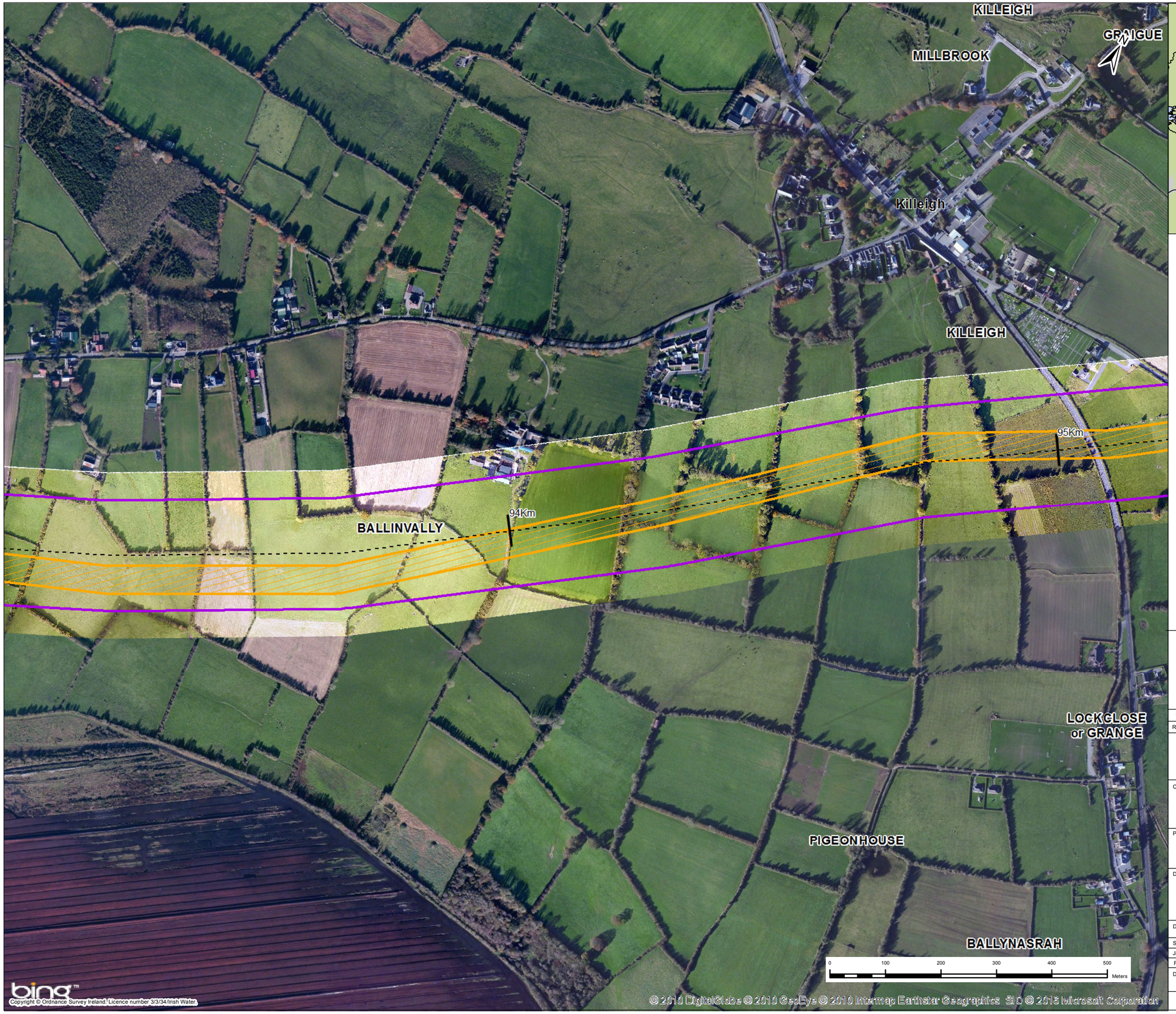
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

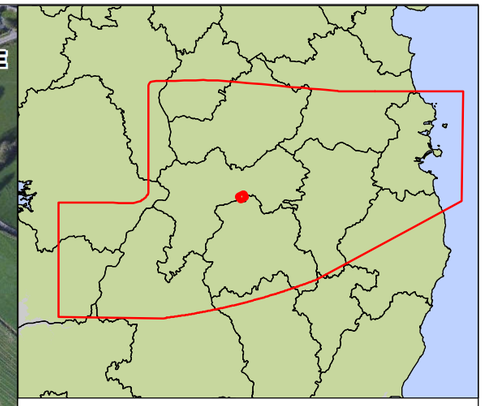
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S\32105801 - WSP-DRG\S Tasks\S_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-146

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Patrick J. Tobin & Co. Ltd.

Client

UISCE ÉIREANN IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Preferred 200m Pipeline Corridor
and Indicative 50m Pipeline Corridor

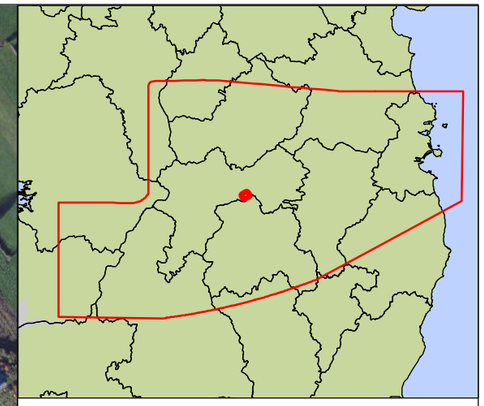
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGB Tarrett_Model\Route Mapping\50m Corridor Mask.mxd		

Drawing No.
32105801-FOAR-147

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

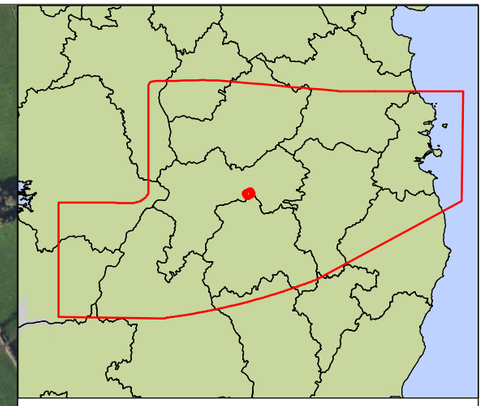
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No.: 32105801-FOAR-148

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

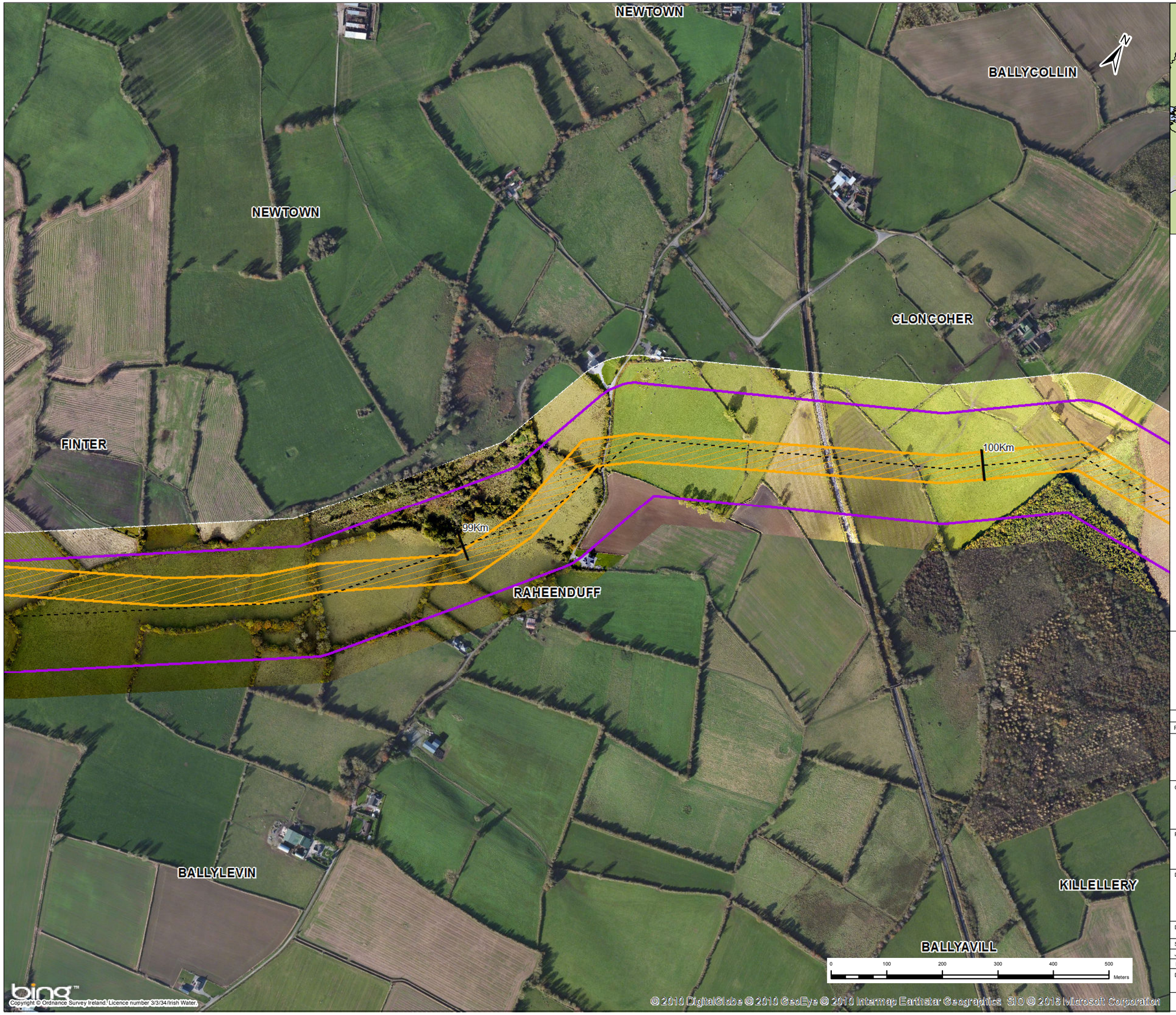
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

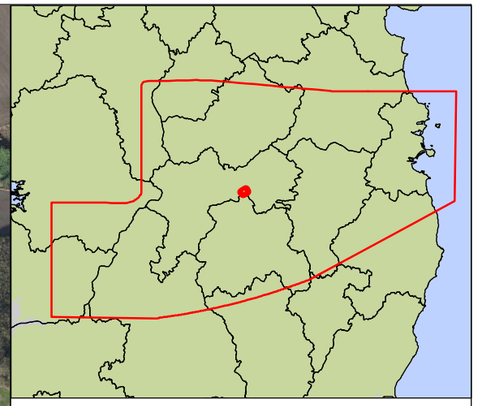
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-149

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

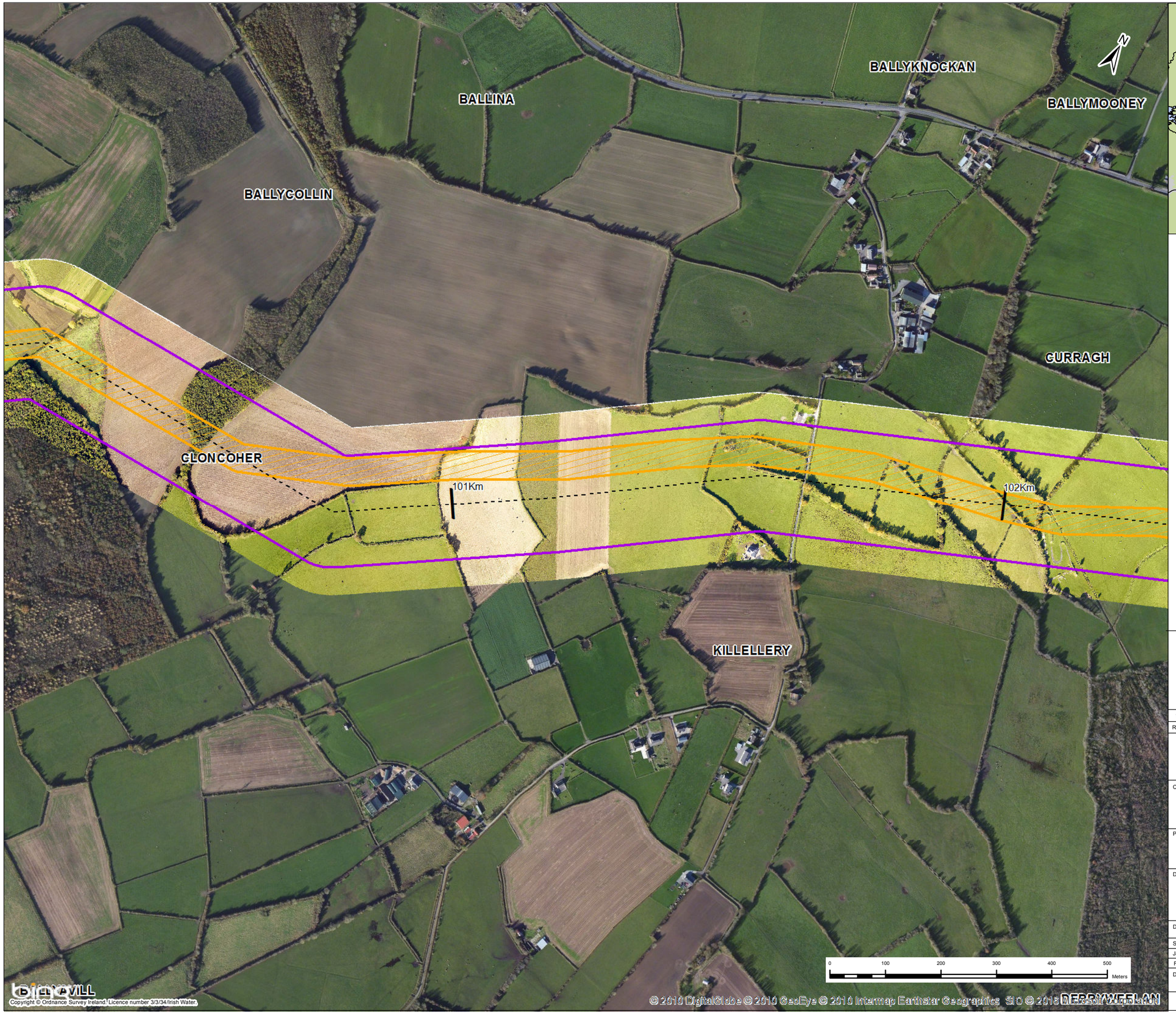
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

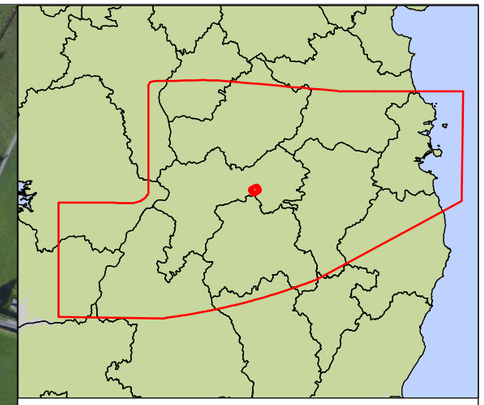
Drawing Status: **For Issue**

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Drawing No. 32105801-FOAR-150

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

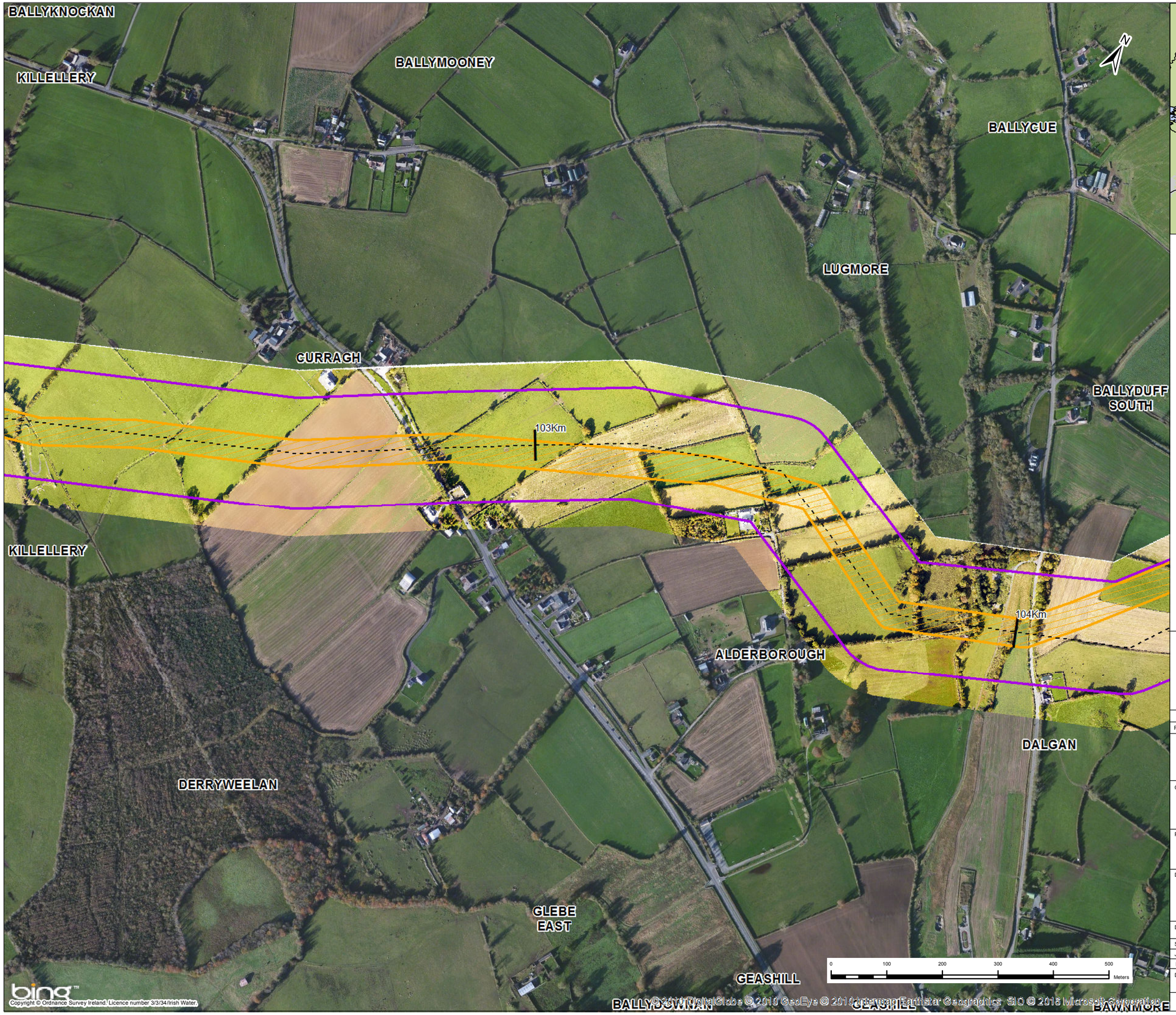
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

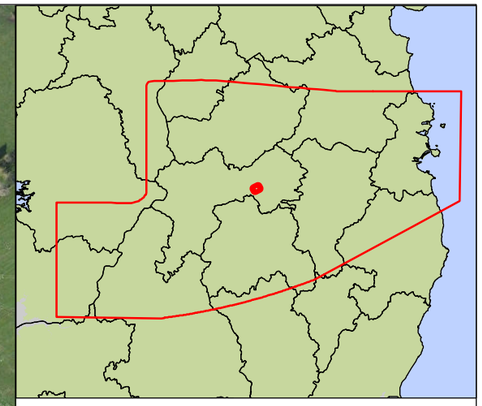
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DRGS Tasks\5_Iss.de\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-151

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

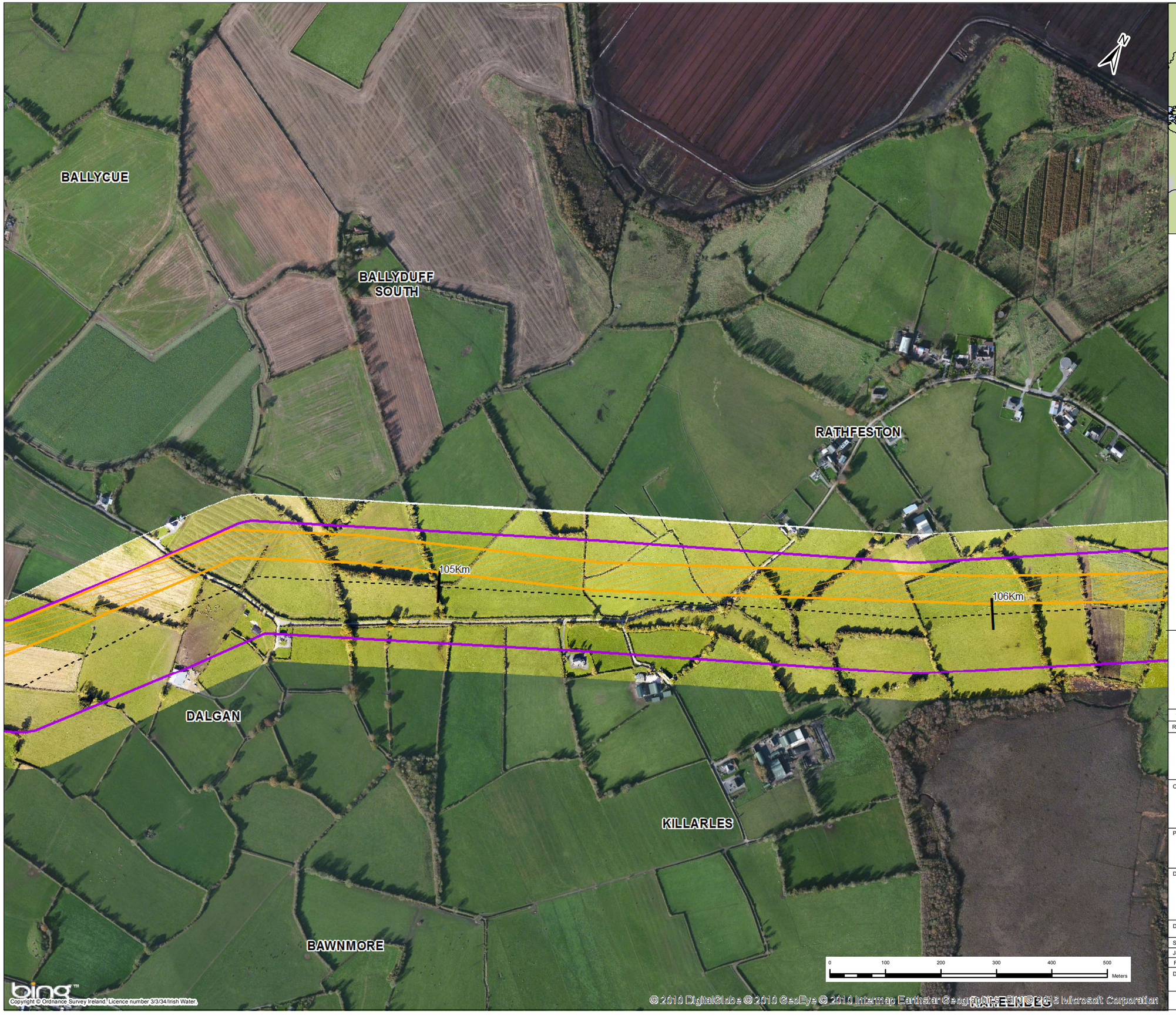
Client: UISCE ÉIREANN : IRISH WATER

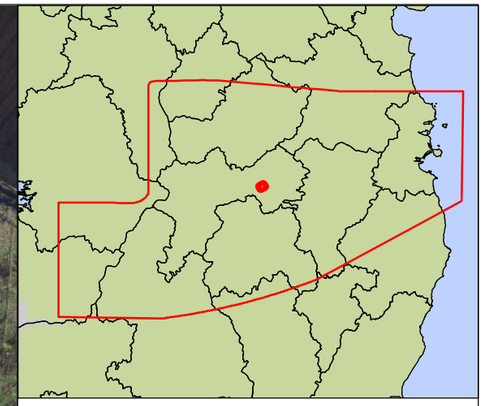
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\IS\32105801 - WSP-DRGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		
Drawing No.	32105801-FOAR-152		

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

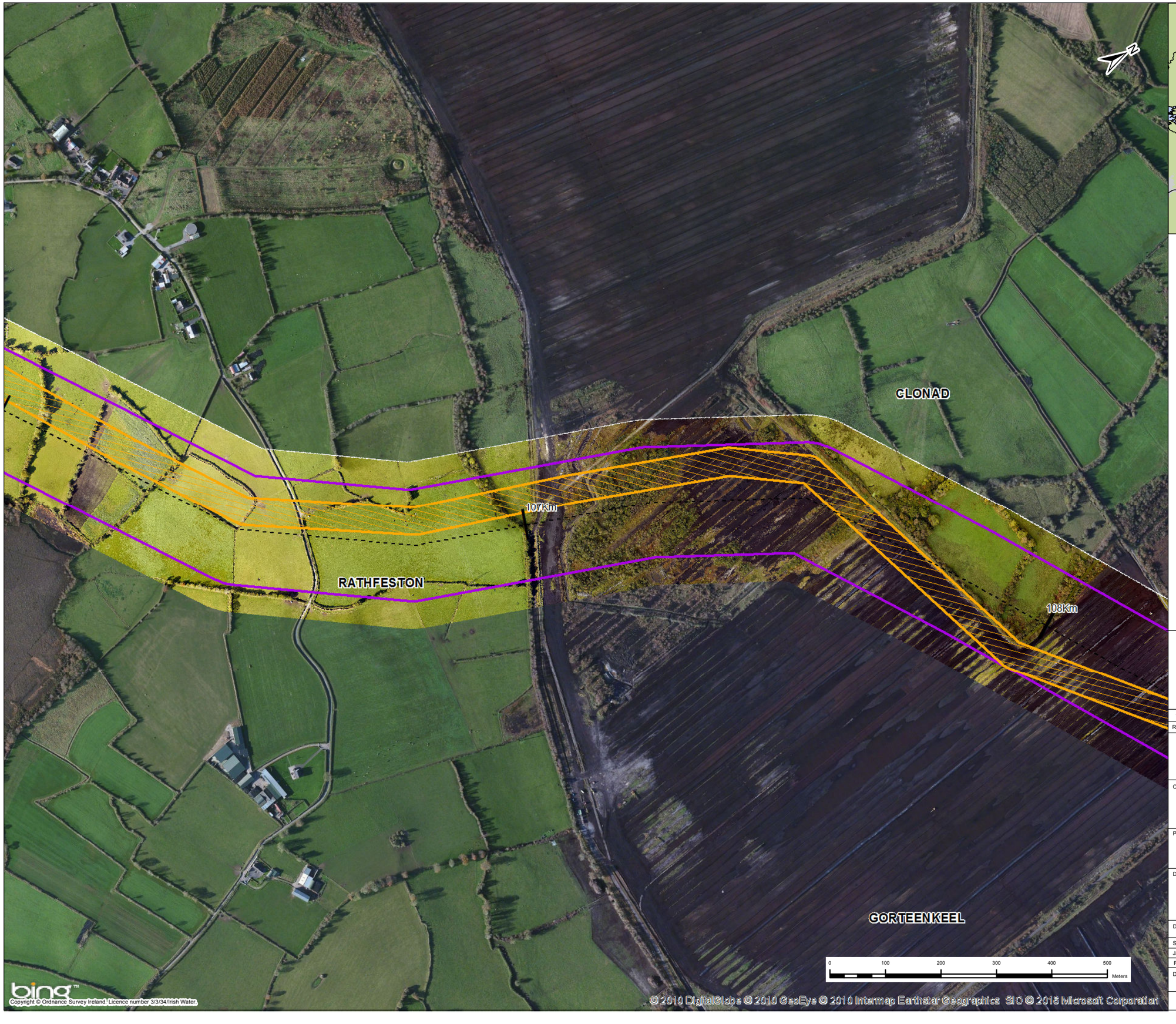
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

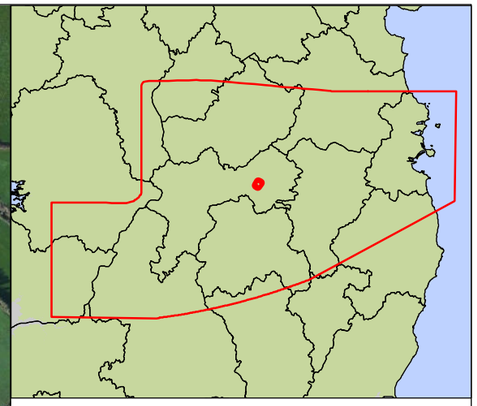
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Models\Route Mapping\Dtm Corridor Maps.mxd		

Drawing No. 32105801-FOAR-153

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

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Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

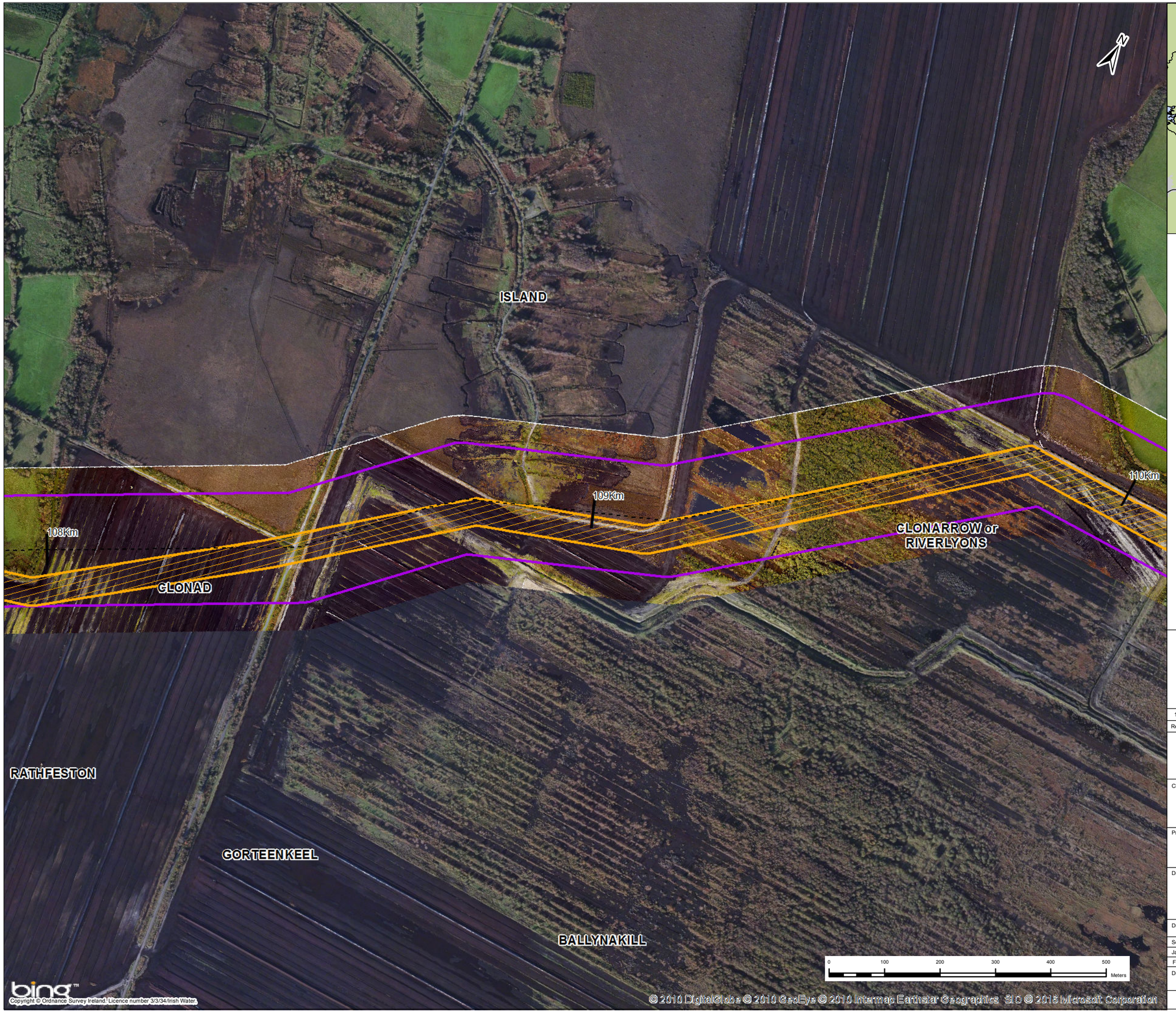
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

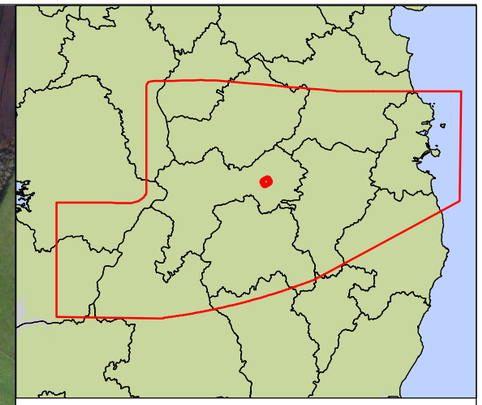
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-154

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

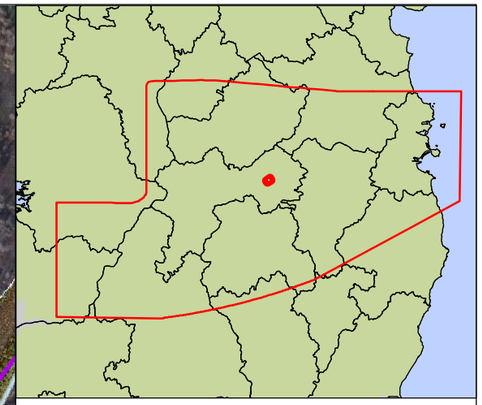
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRE\GIS\32105801 - WSP-EMGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-155

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

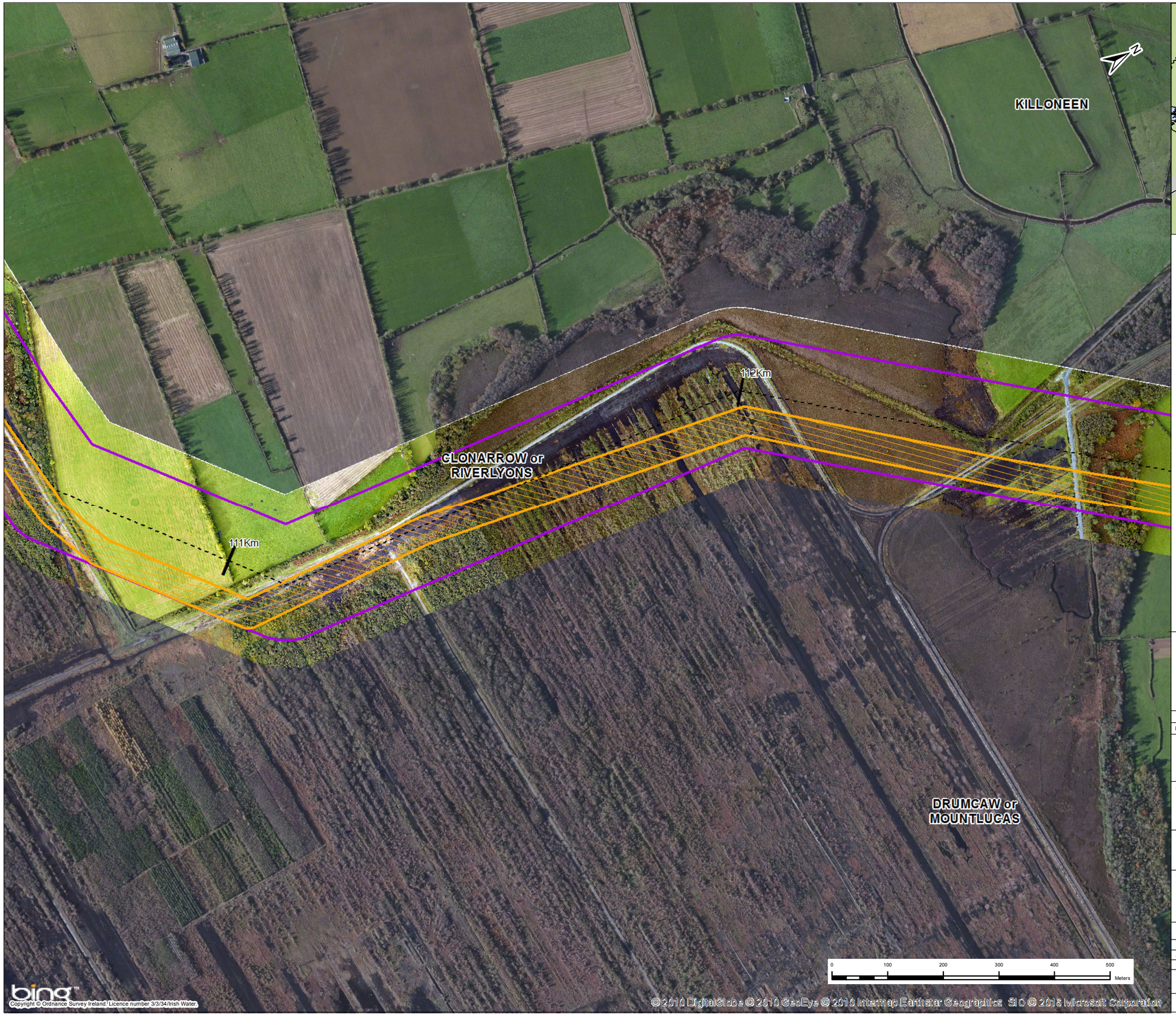
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

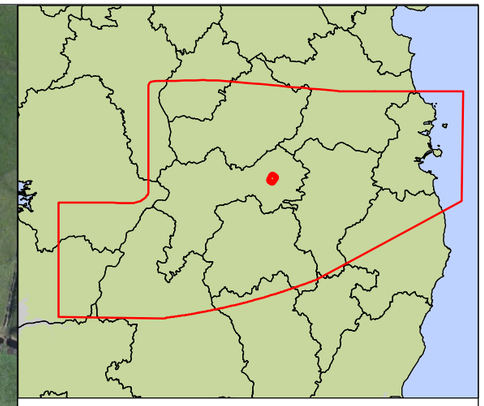
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DBO\05 Tasks\05_Mx-Brd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-156

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

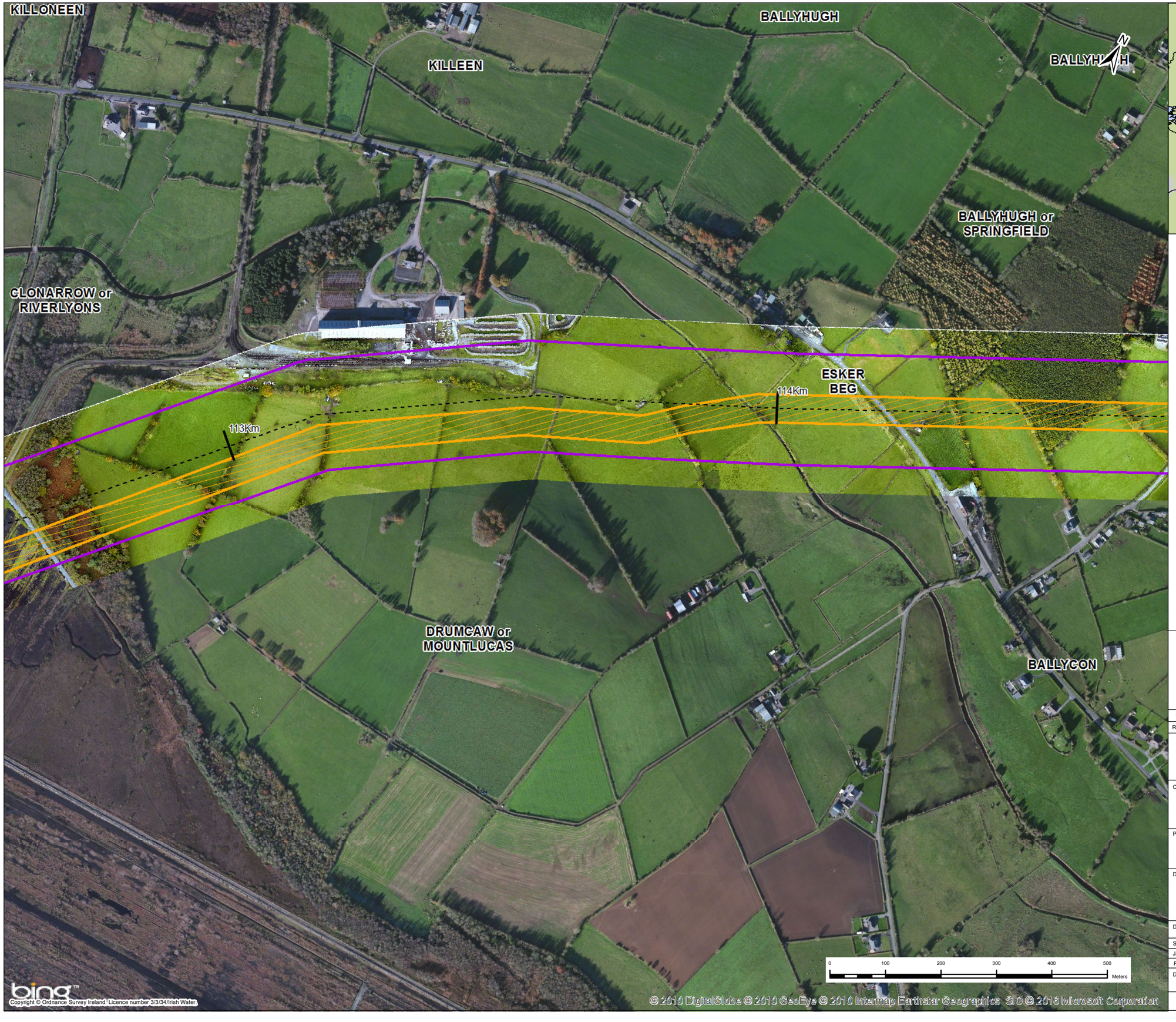
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

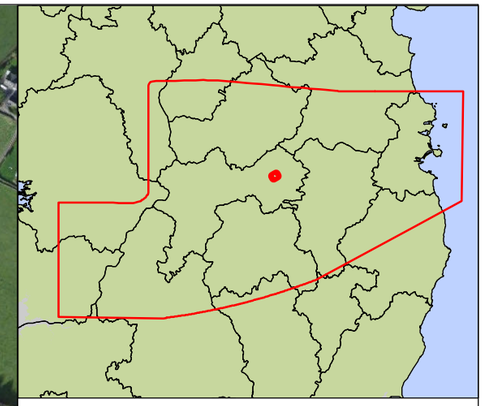
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DIRG\6 Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-157

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

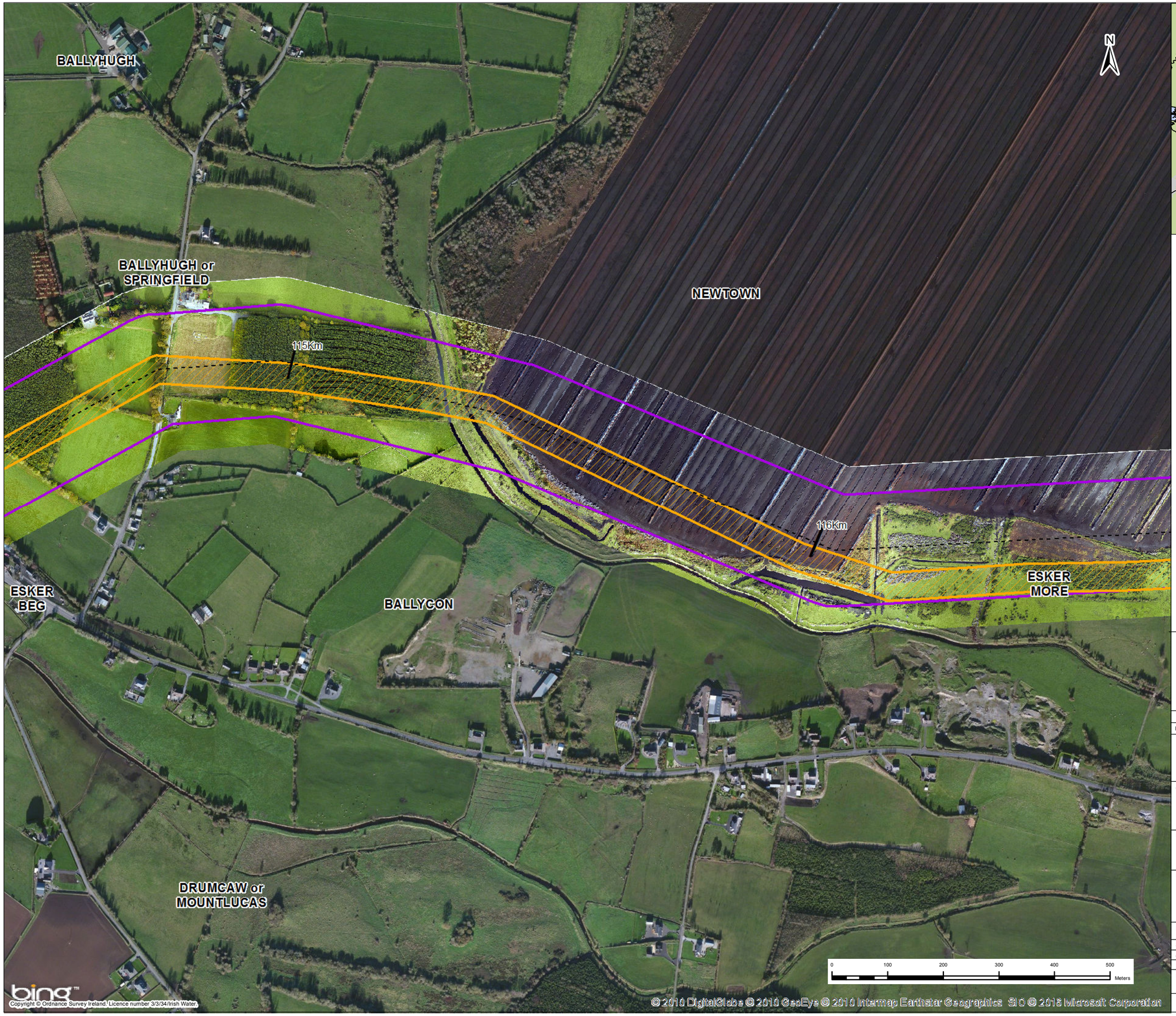
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

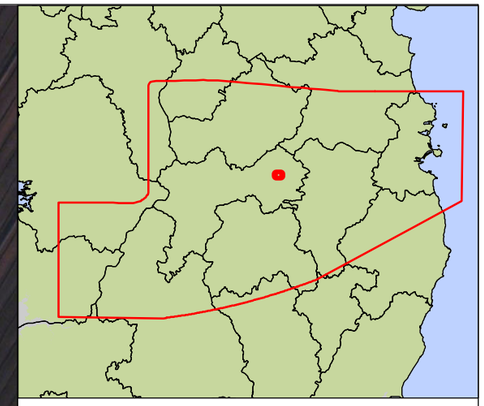
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DRGS Tasks\5_Iss.de\Raw Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-158

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

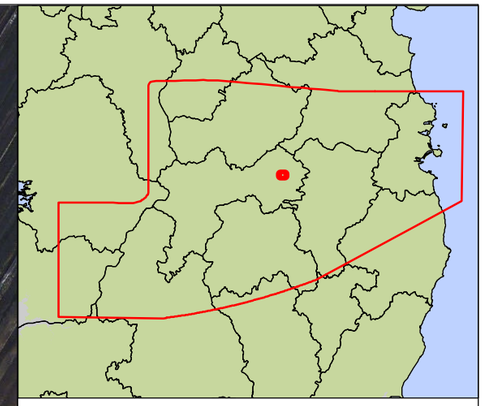
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-ORGS Tender\5_Mxd+Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-159

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client

UISCE ÉIREANN IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

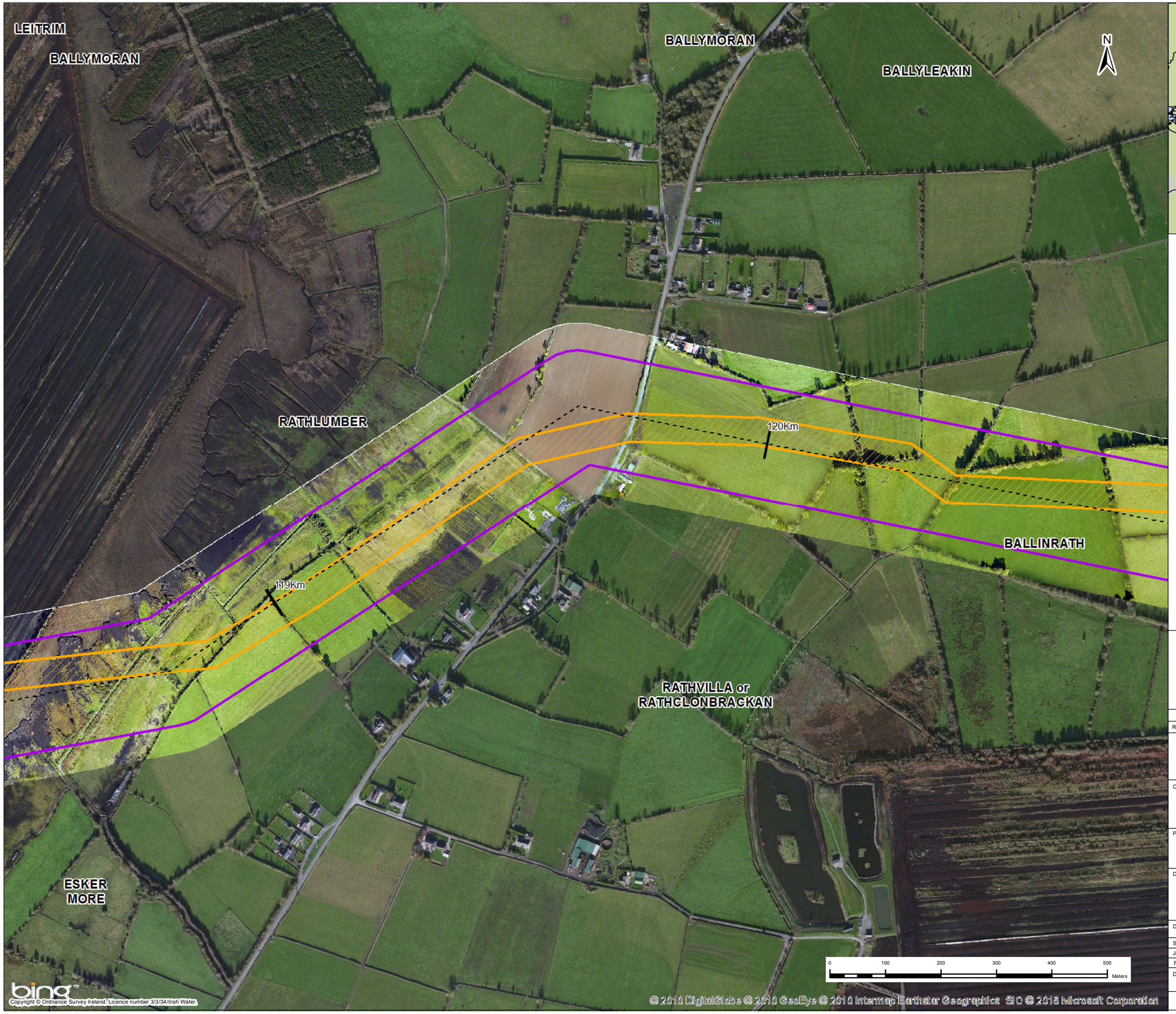
Preferred 200m Pipeline Corridor
and Indicative 50m Pipeline Corridor

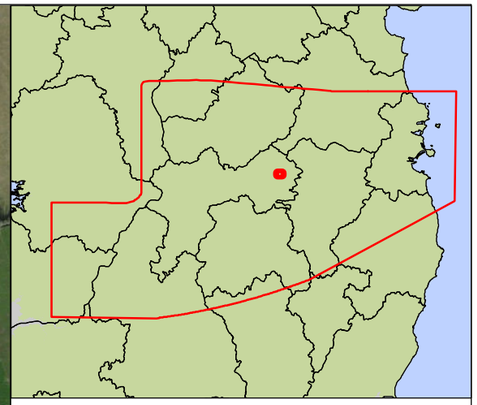
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGB Tarbert_Mullingar\Route Mapping\50m Corridor Maps.mxd		

Drawing No.
32105801-FOAR-160

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client

UISCE ÉIREANN : IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Preferred 200m Pipeline Corridor
and Indicative 50m Pipeline Corridor

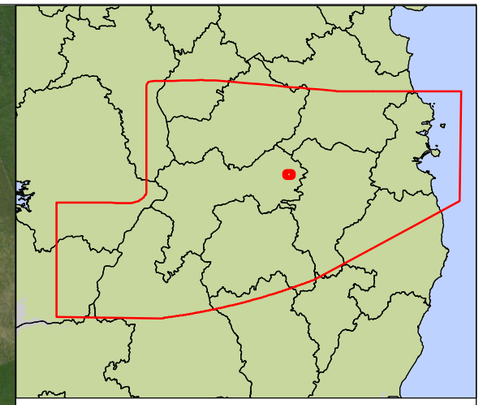
Drawing Status **For Issue**

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Drawing No. 32105801-FOAR-161

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS
TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

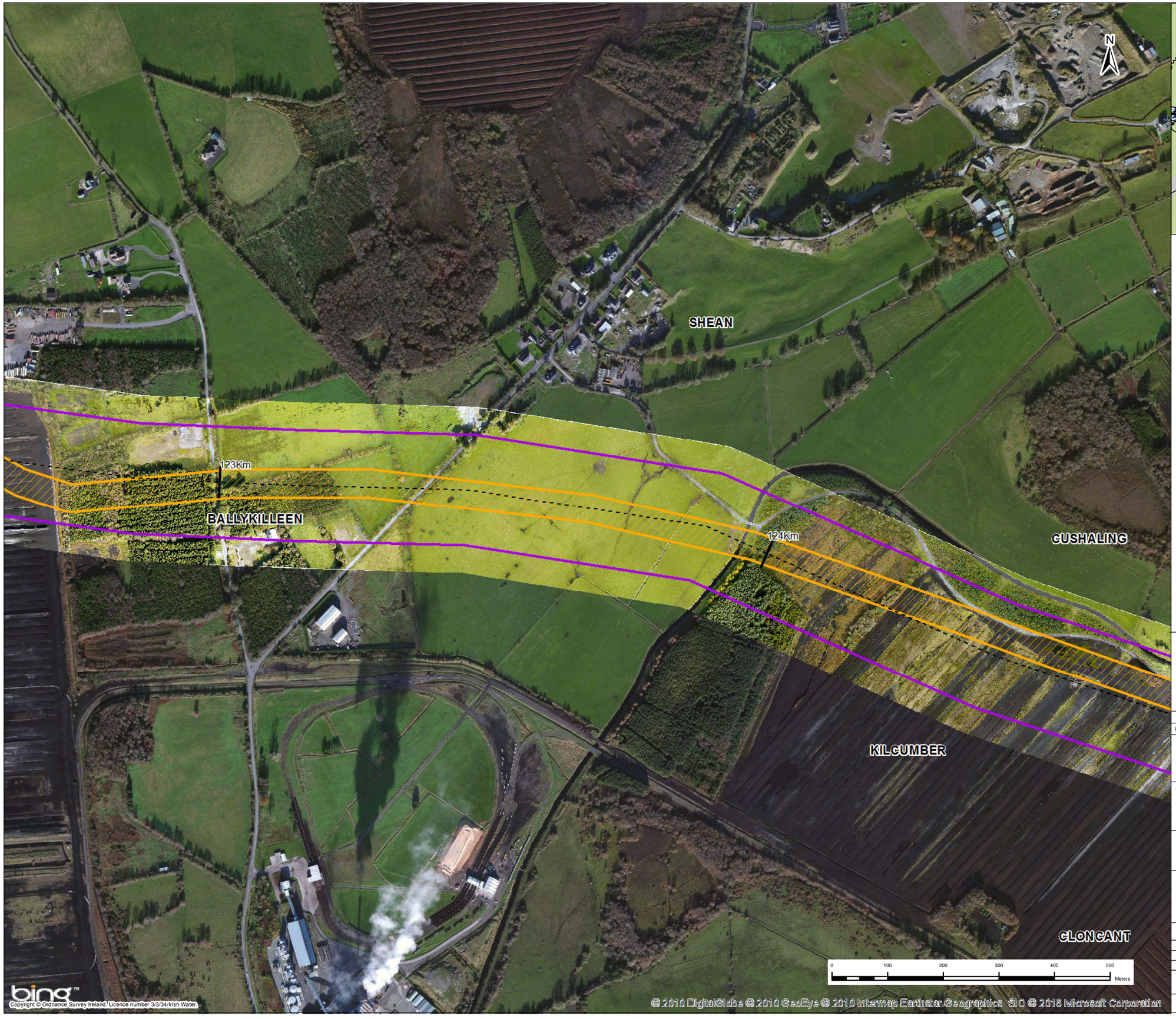
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

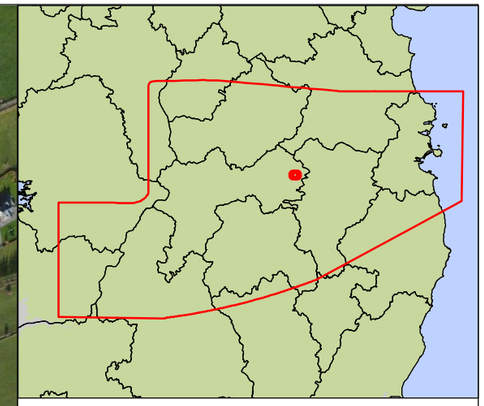
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-162

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

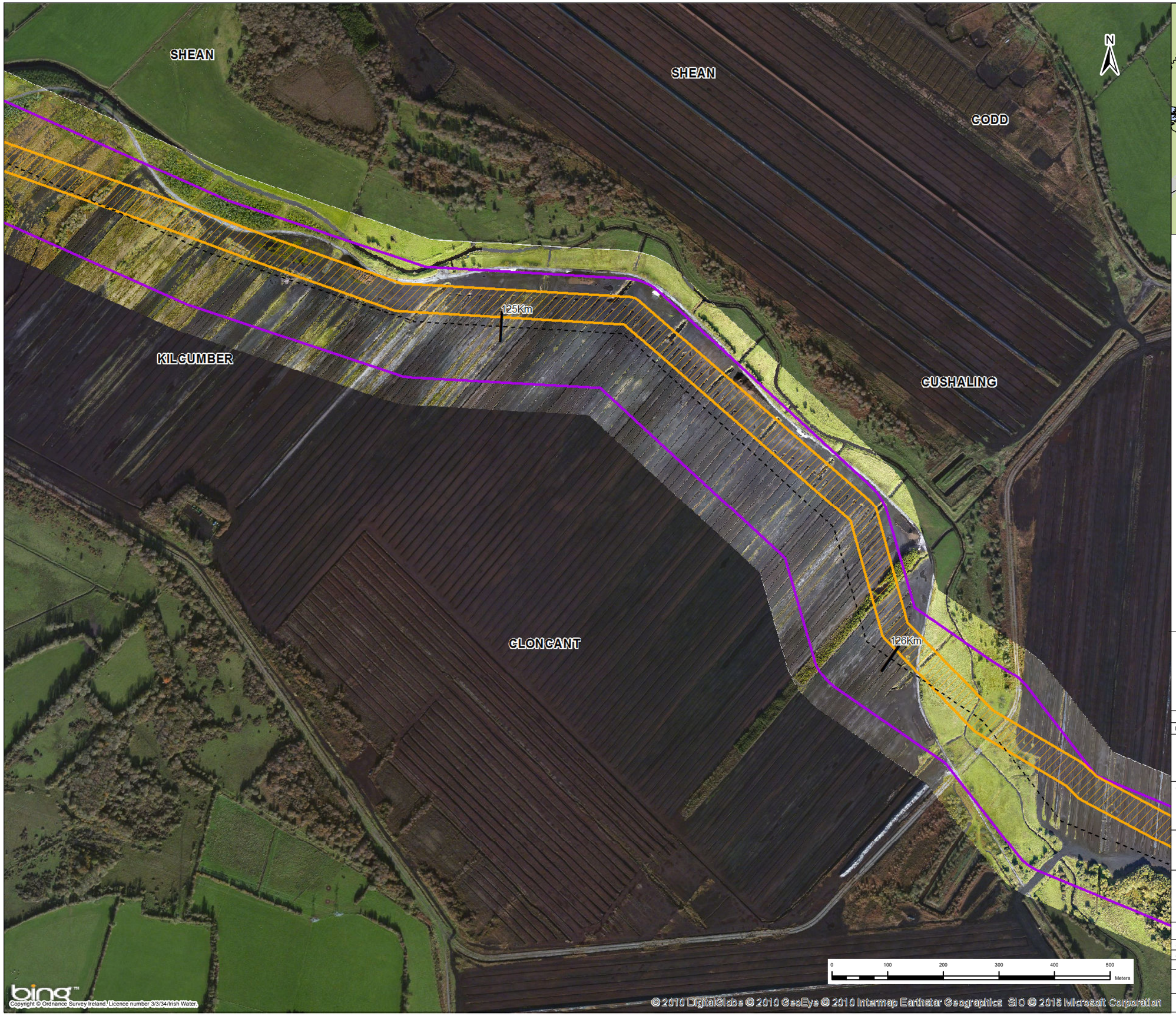
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

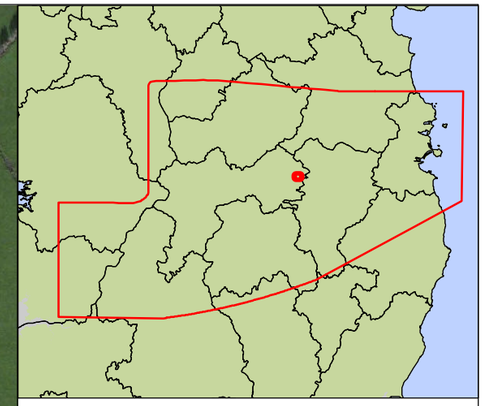
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S\32105801 - WSP-DIRGIS Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-163

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

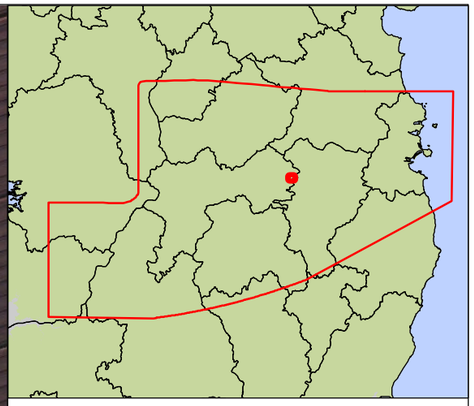
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S\32105801 - WSP-DRGS Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-164

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

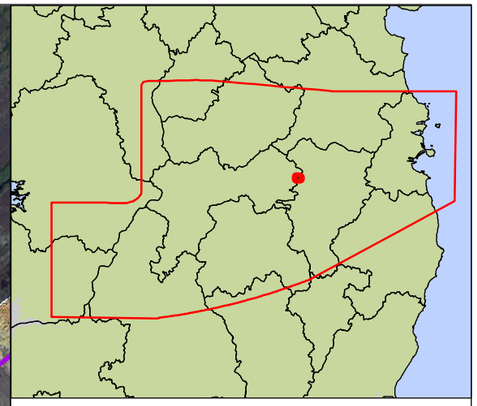
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRGS Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-165

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

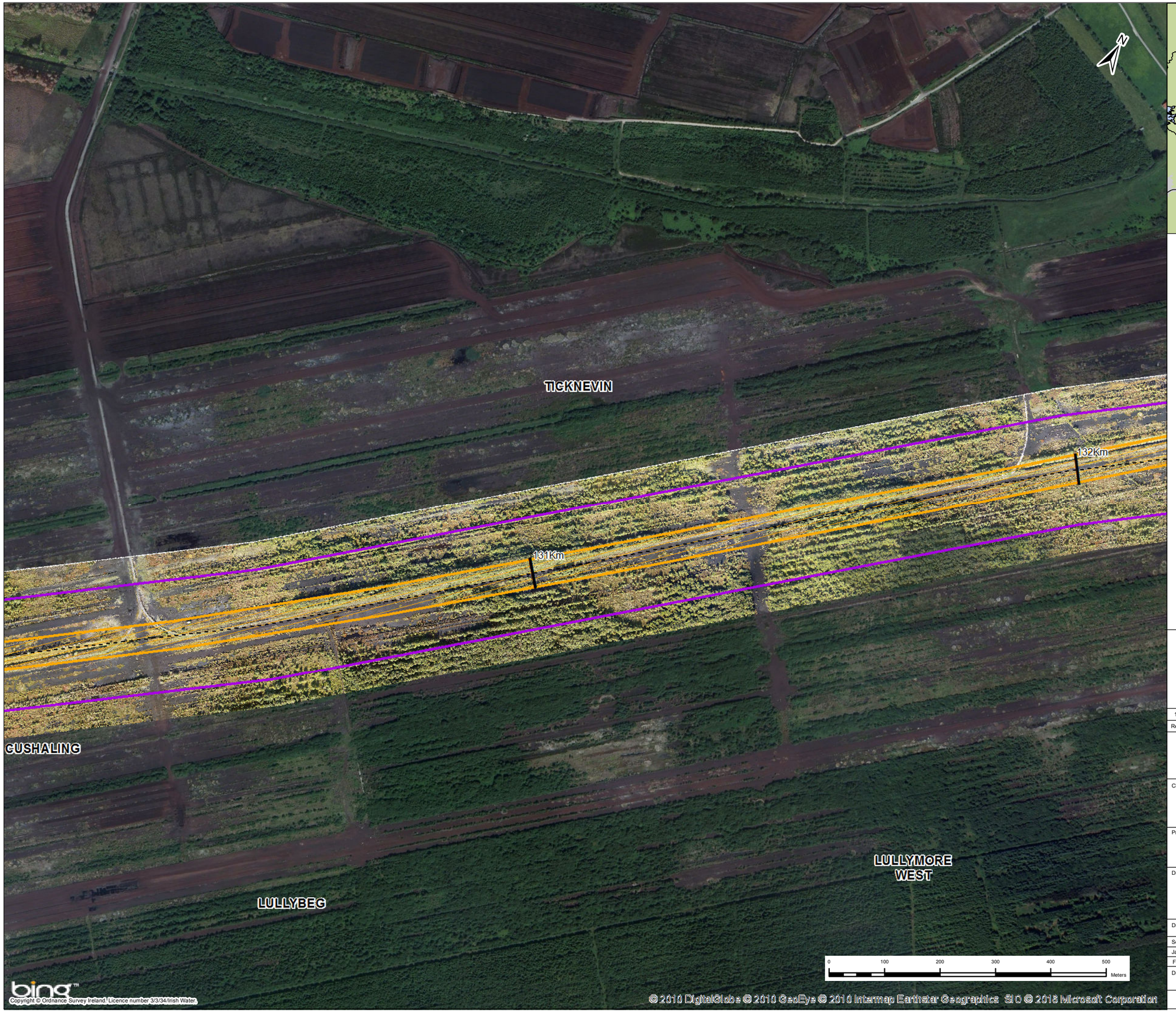
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

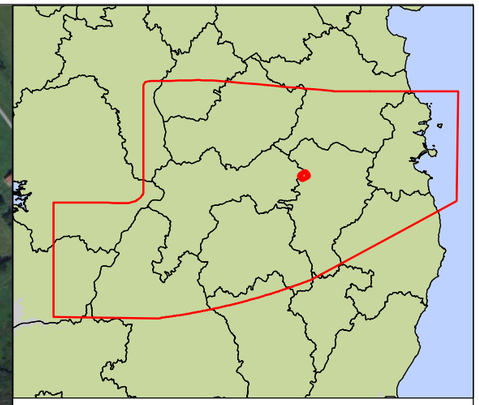
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRGS Tasks\5_Model\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-166

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE EIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

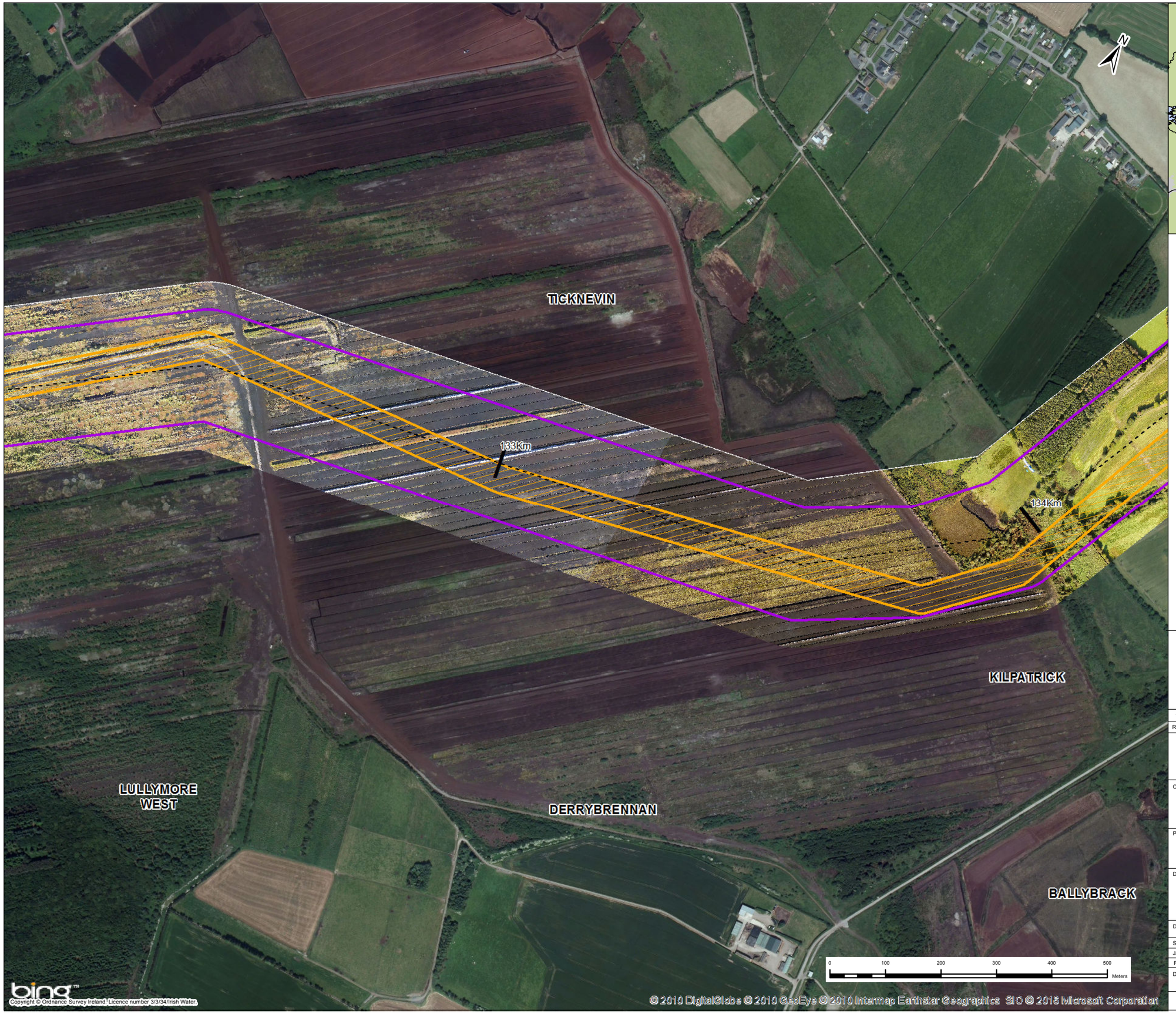
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

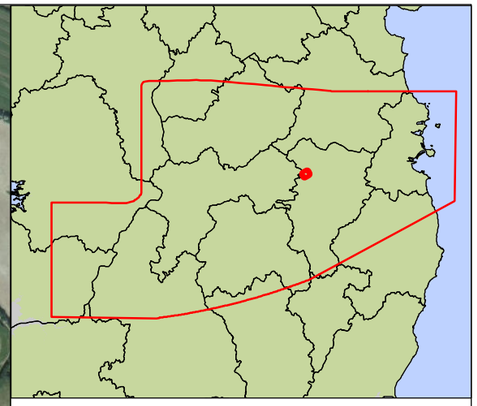
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DRGS Tasks\5_Iss.de\Raw Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-167

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

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Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

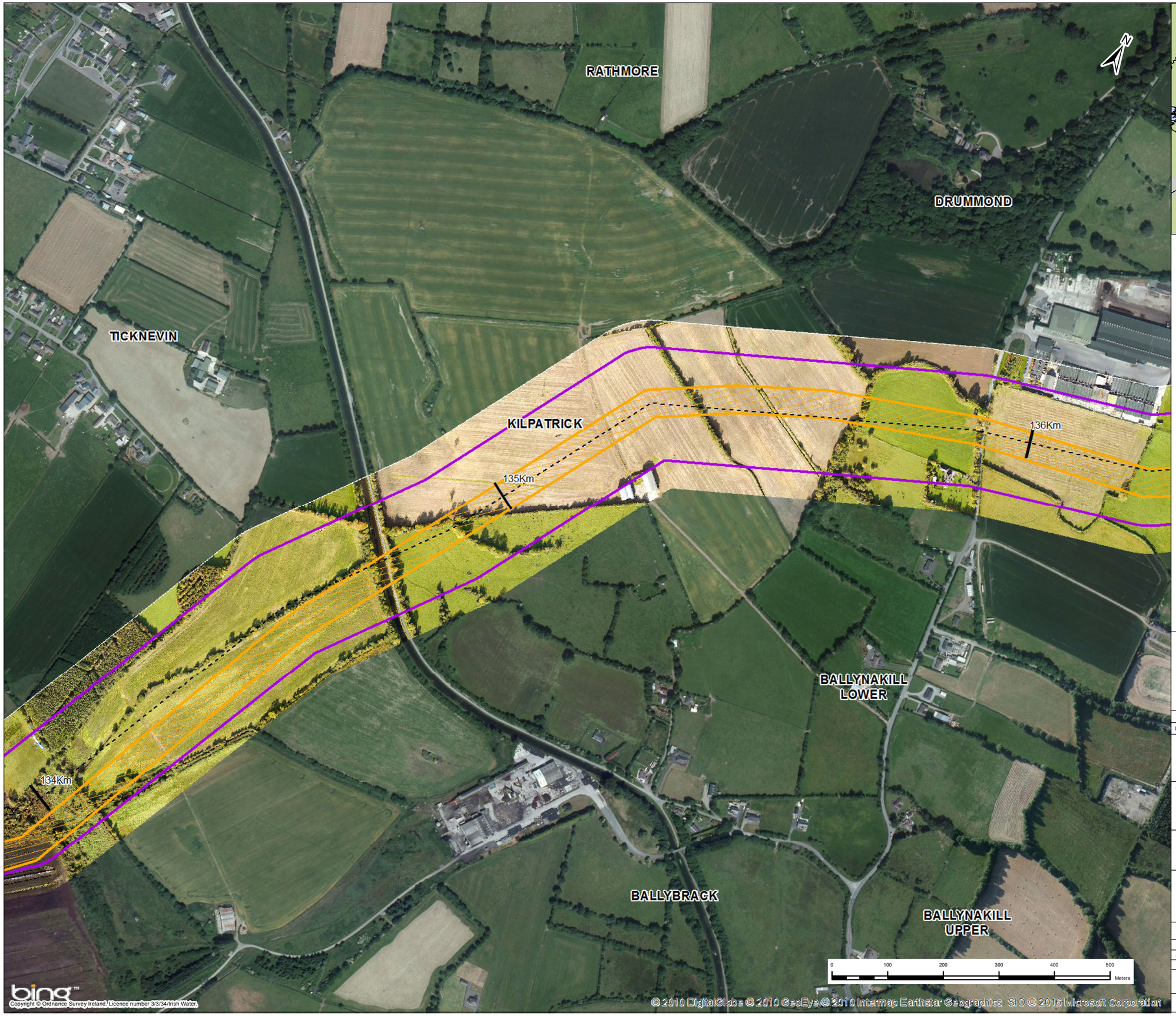
Project: Water Supply Project - Eastern and Midlands Region

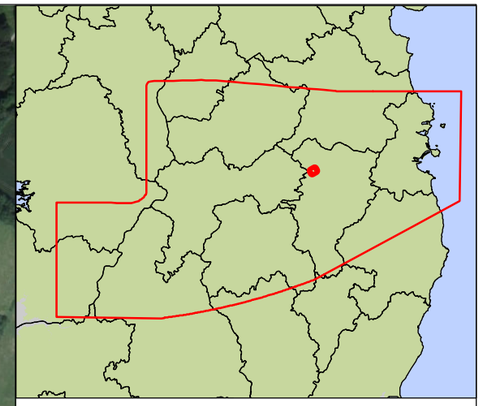
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\IRG32105801 - WSP-DIR\GIS Tasks\5_Mxds\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-168

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

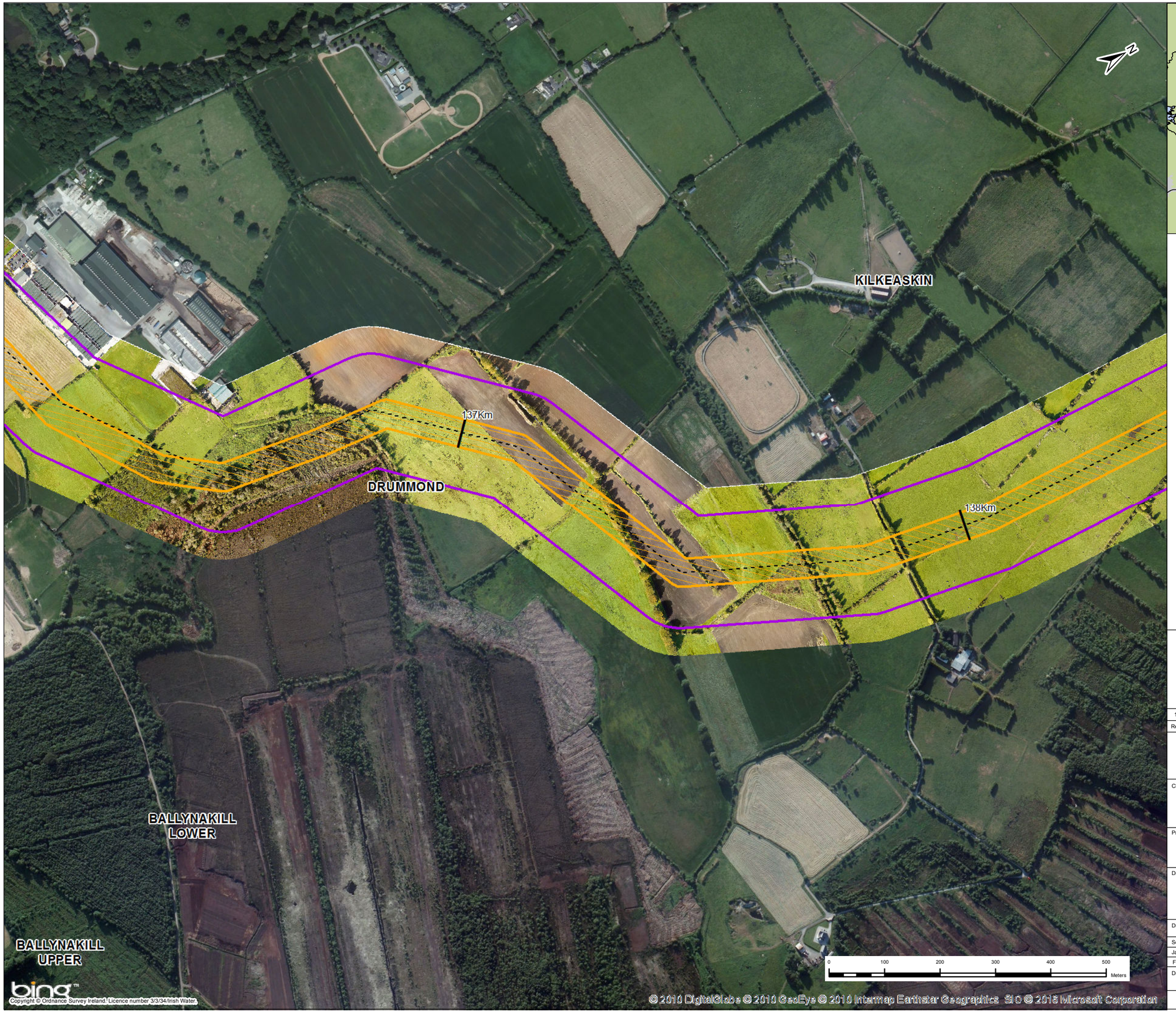
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

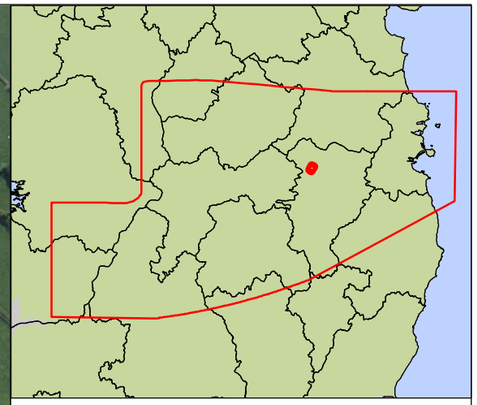
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGS Tasks\5_Media\Route Mapping\50m Corridor Maps.mxd		

Drawing No.: 32105801-FOAR-169

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

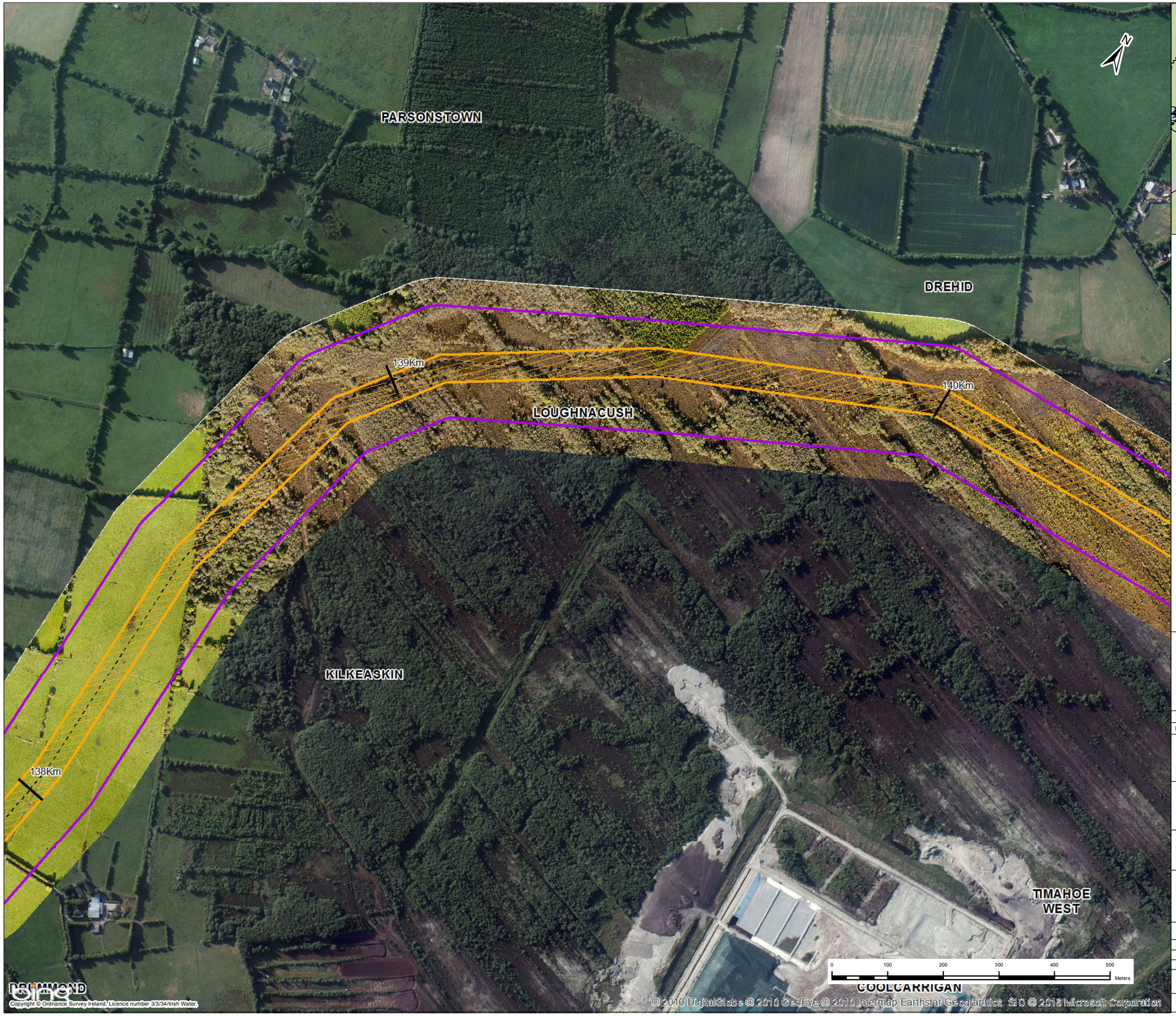
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

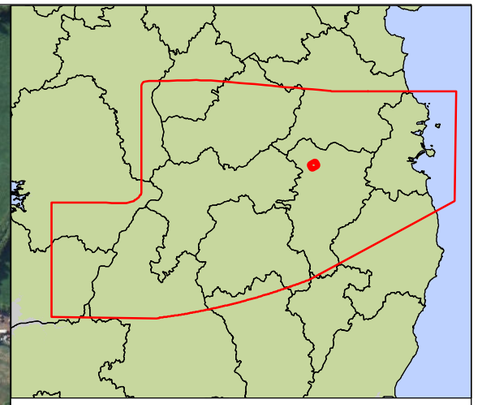
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Issue\Raw Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-170

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

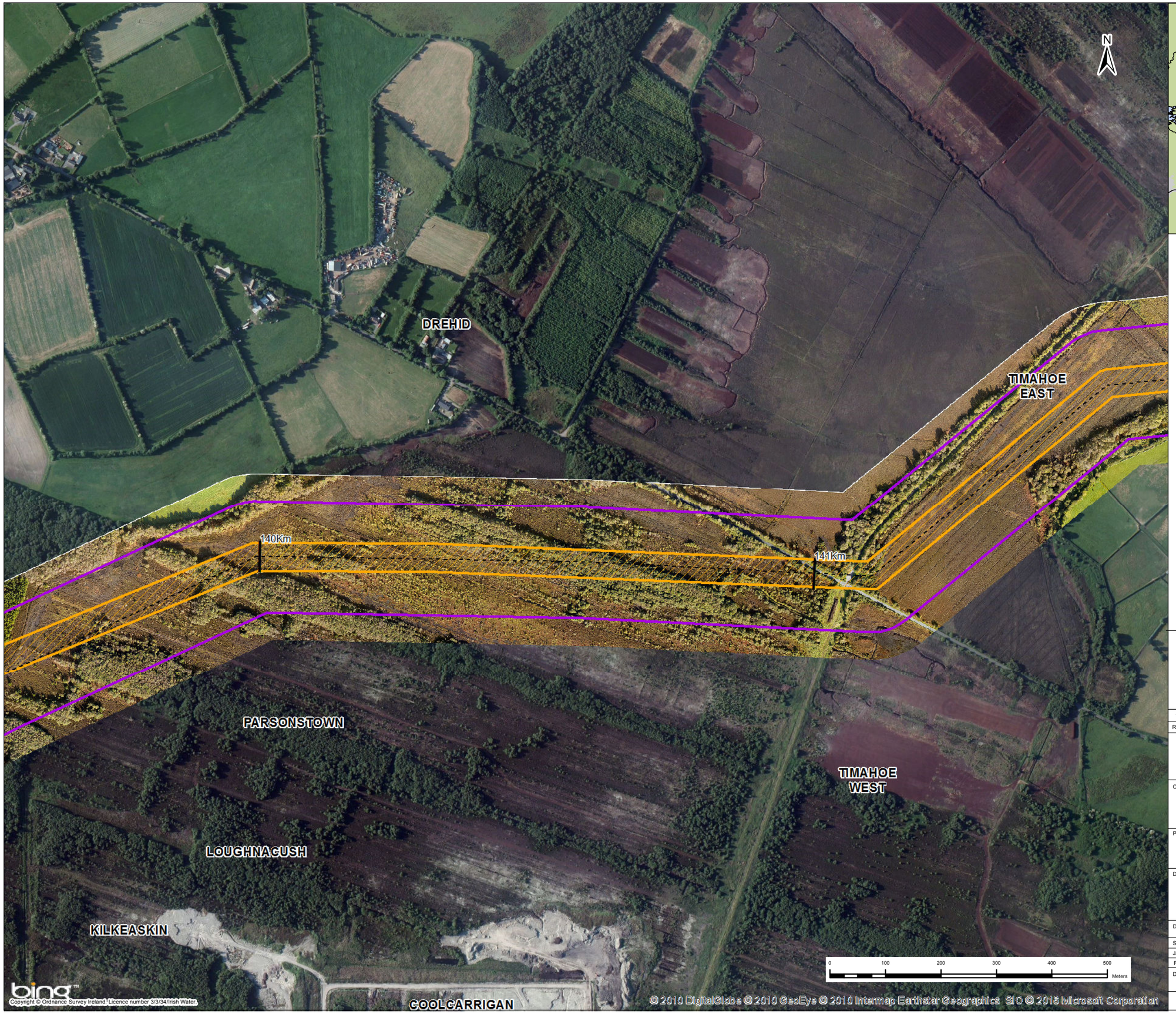
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

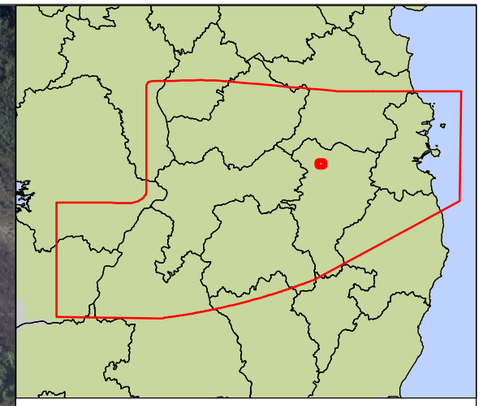
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRGIS\32105801 - WSP-DIRGIS Tasks\5_Mxds\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-171

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

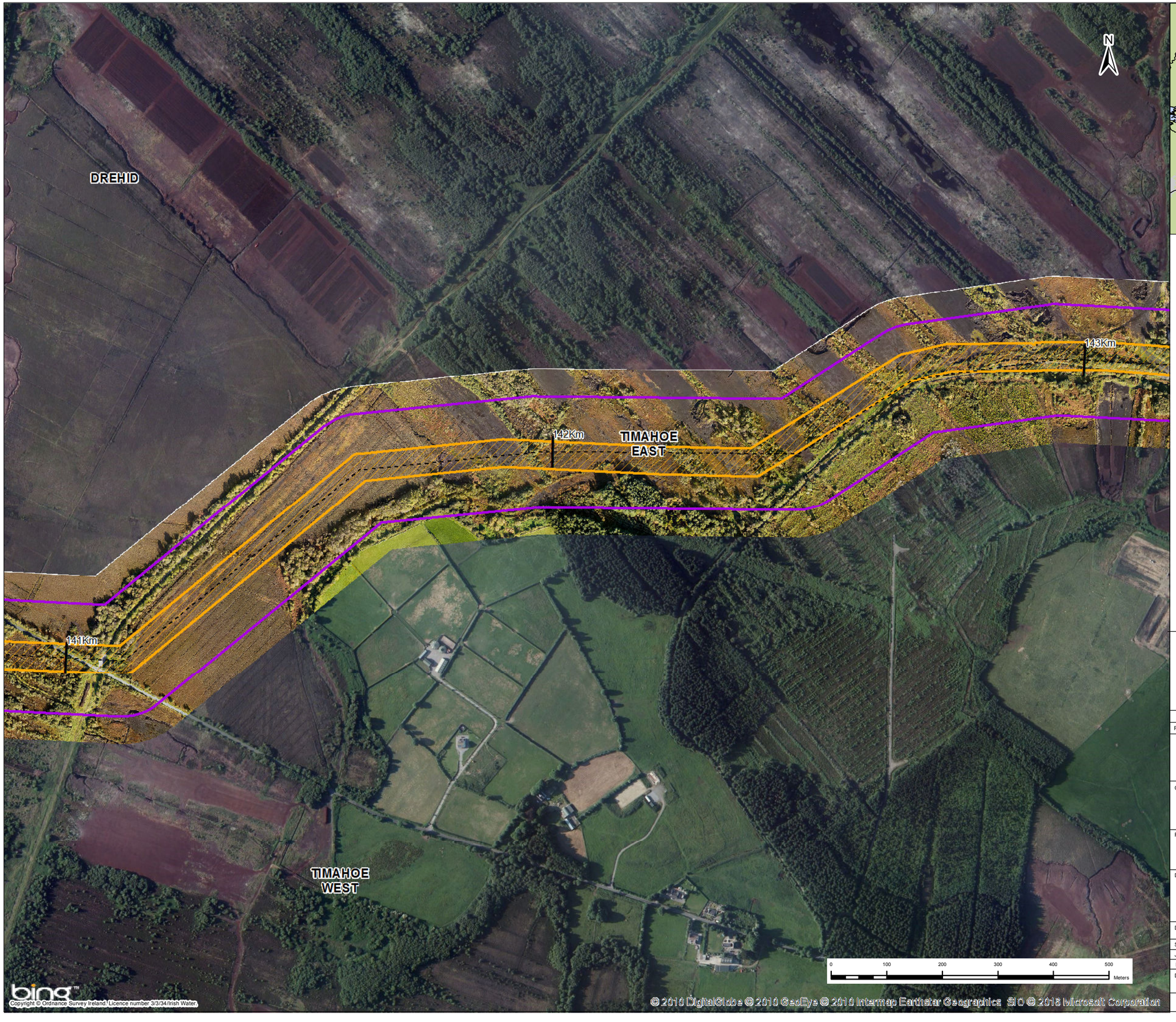
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

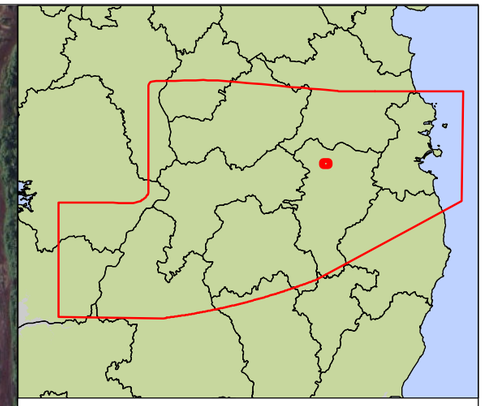
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DIRGS Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-172

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

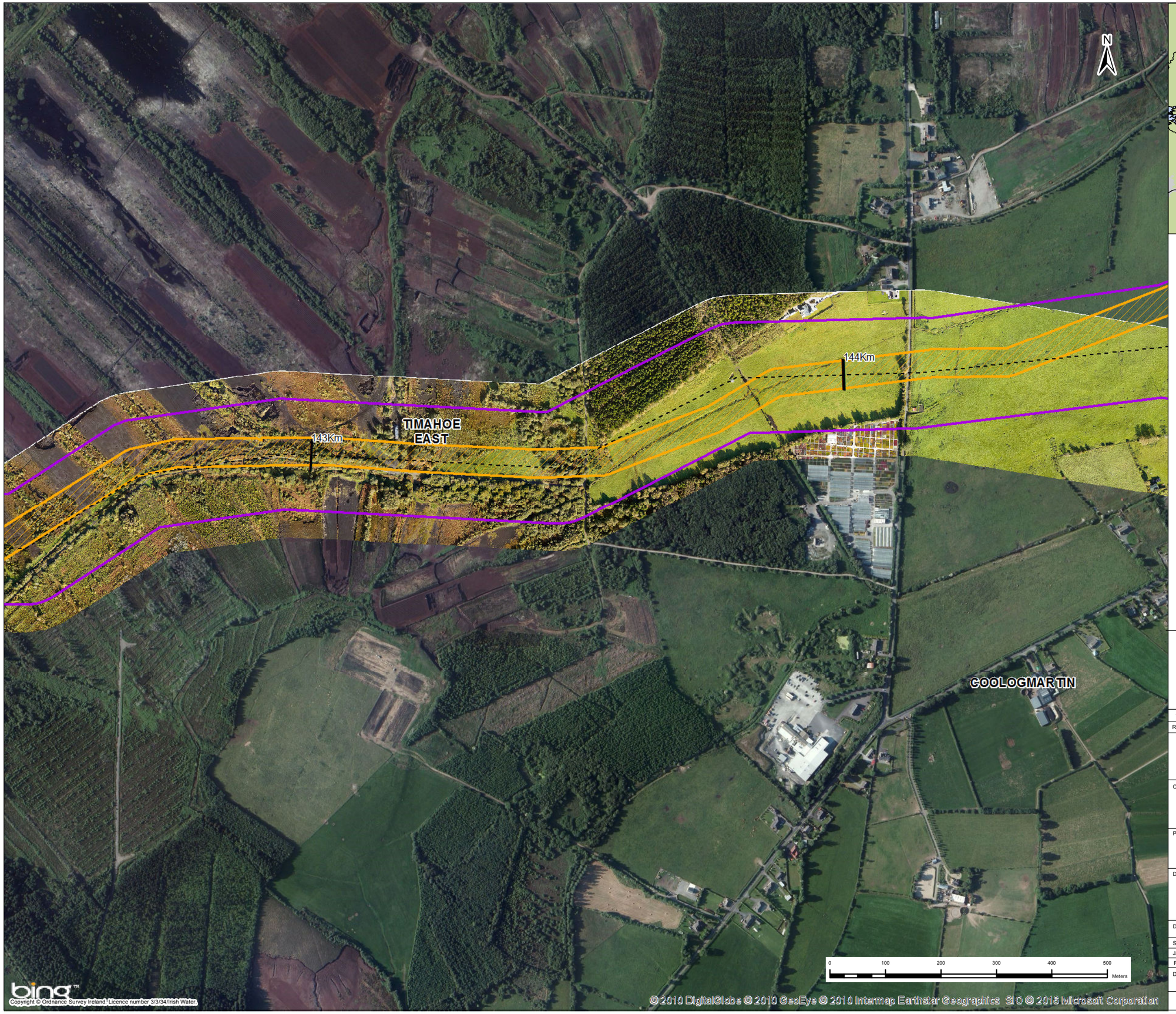
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

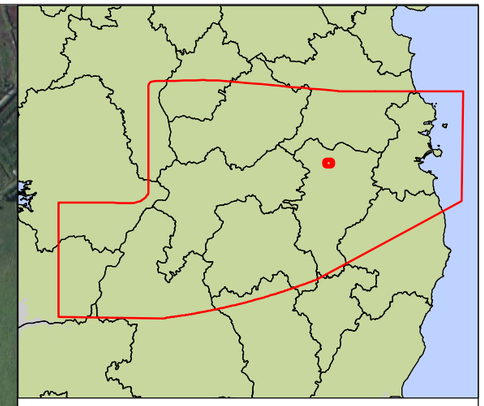
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\IS\32105801 - WSP-DRGS Tasks\5_Mxds\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-173

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

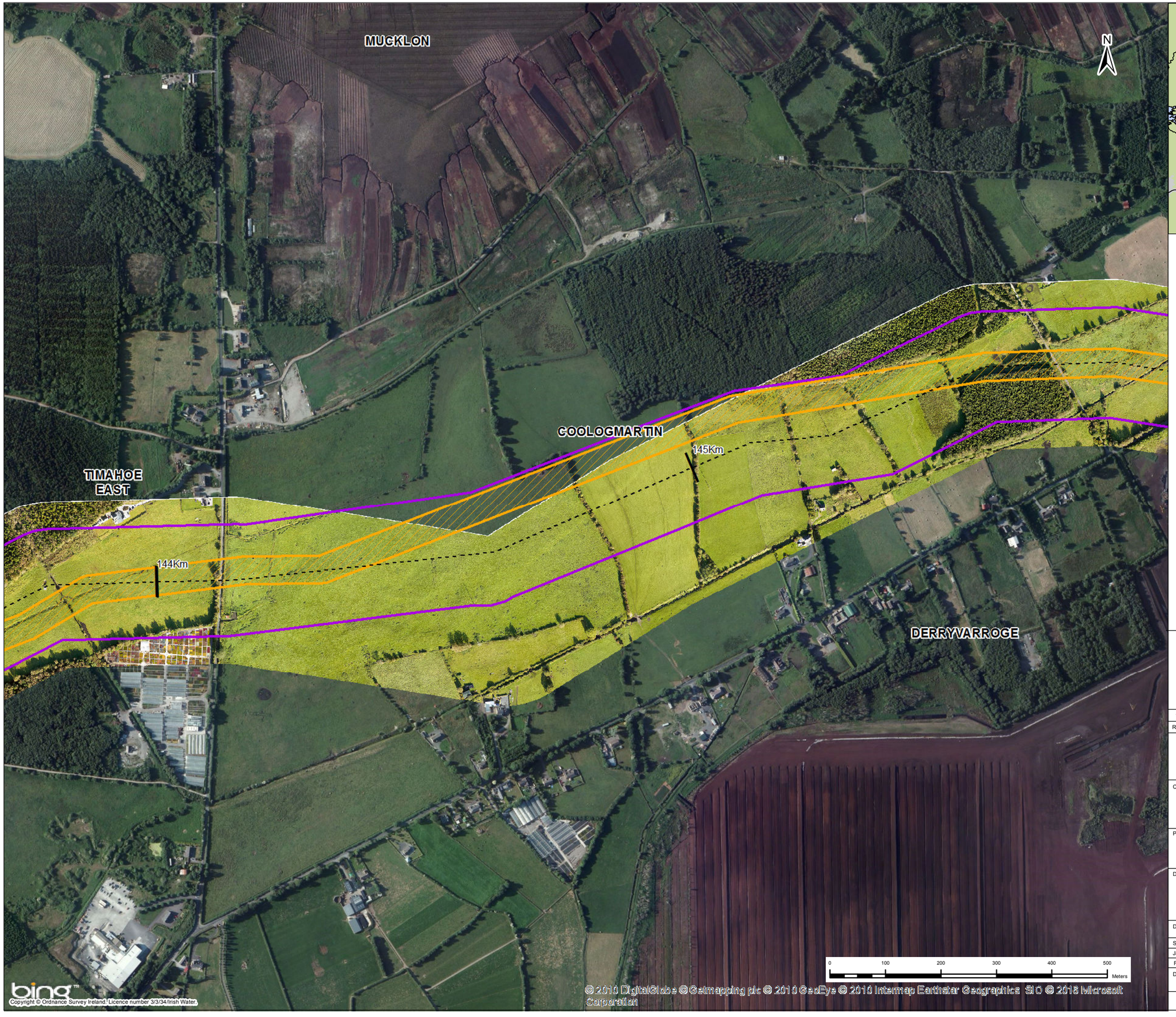
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

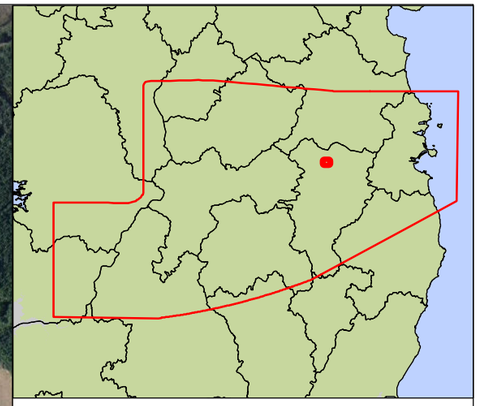
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\32105801 - WSP-DRG\5 Tasks\5_Mode\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-174

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

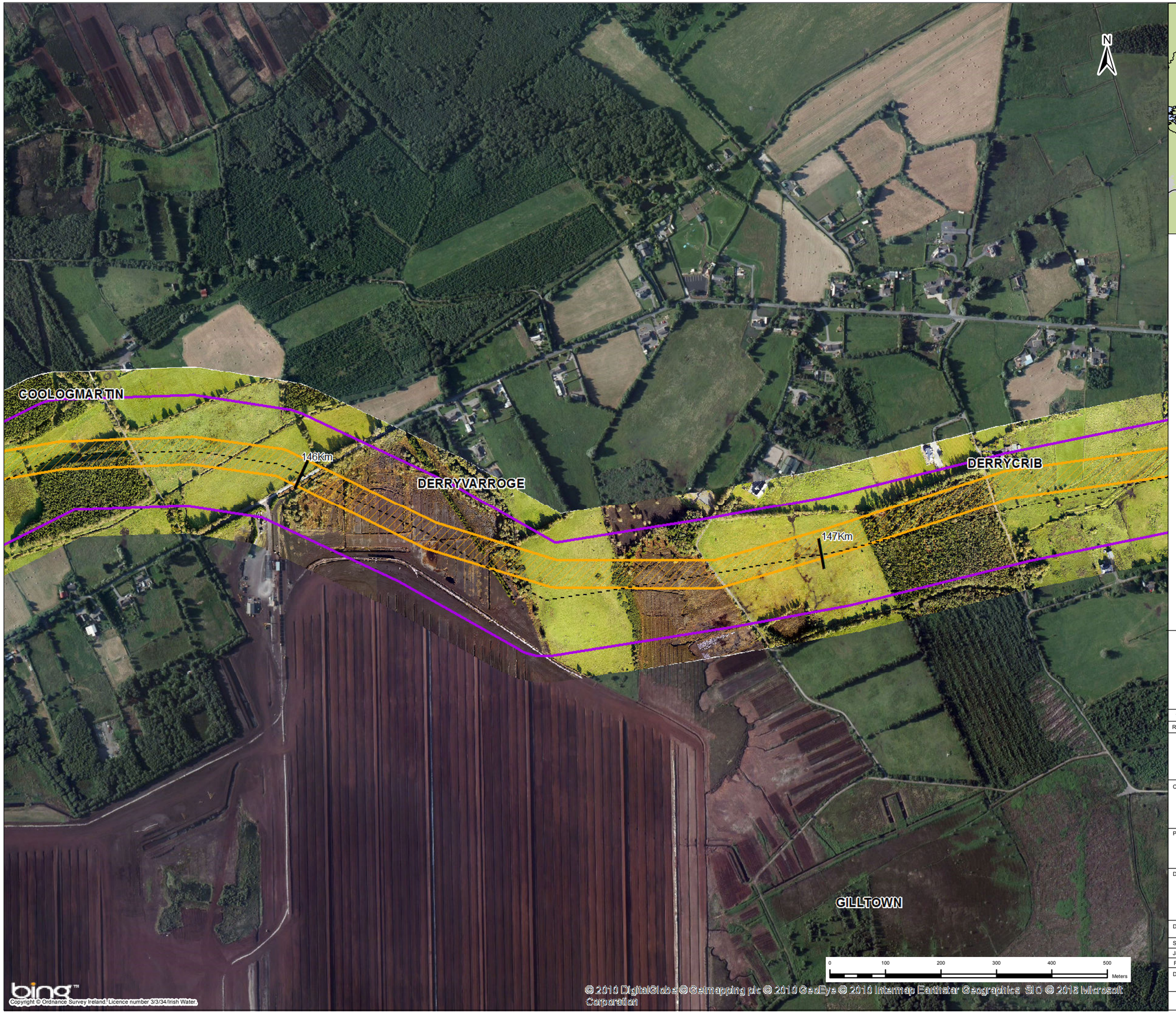
Client: UISCE ÉIREANN / IRISH WATER

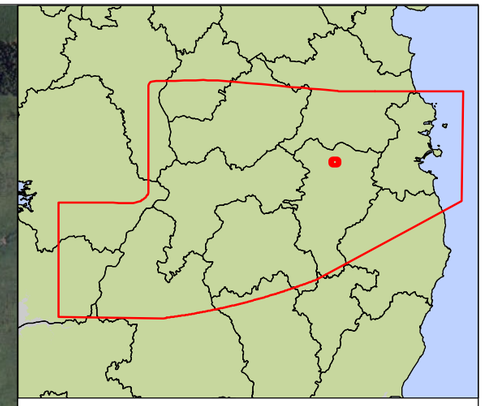
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	**For Issue**		
Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGS\8 Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		
Drawing No.	32105801-FOAR-175		

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS® TOBIN Patrick J. Tobin & Co. Ltd.

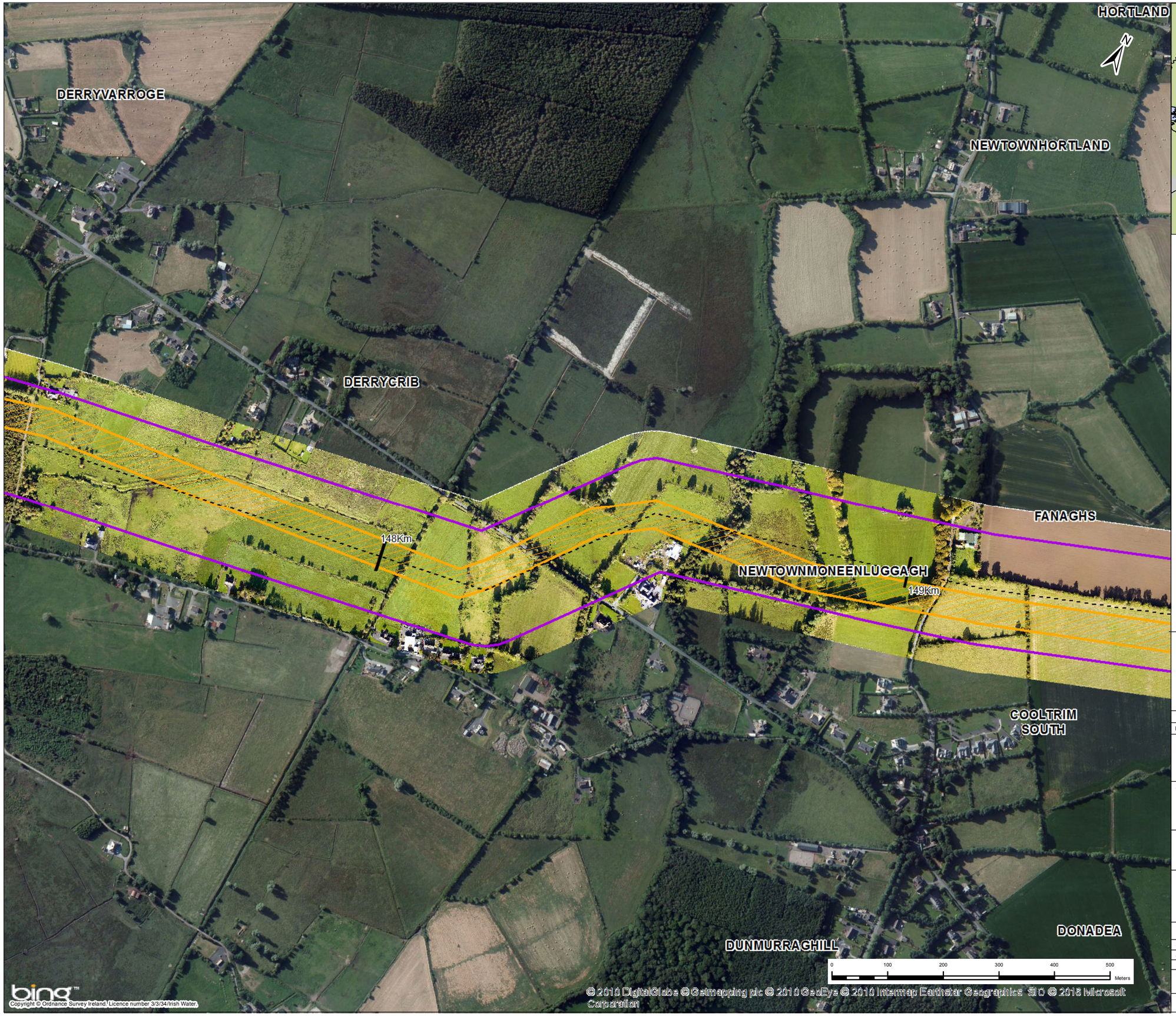
Client: UISCE ÉIREANN / IRISH WATER

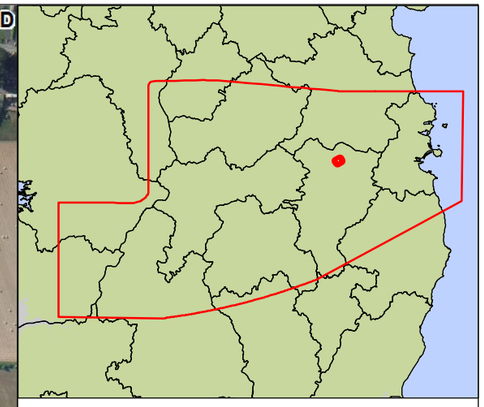
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status	For Issue		
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Filepath	G:\IRE\32105801 - WSP-DRIGB Tasks\5_Mxd\Route Mapping\50m Corridor Maps.mxd		
Drawing No.	32105801-FOAR-176		

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS | TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN / IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

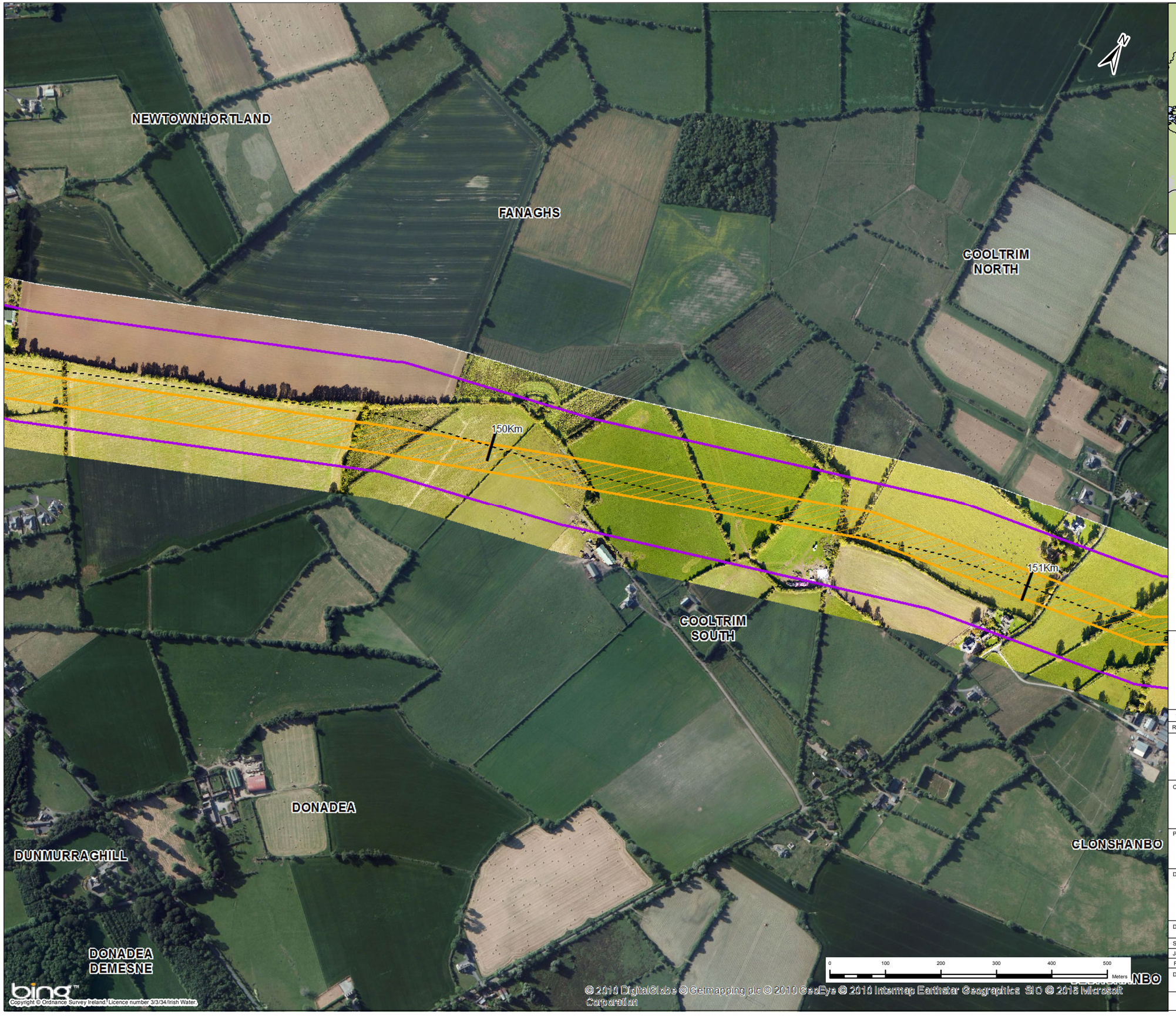
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

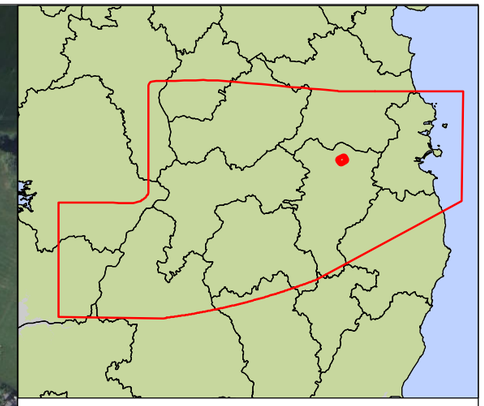
Drawing Status: **For Issue**

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Filepath	G:\IRE\32105801 - WSP-DIRGIS Tasks\5_Mxds\Route Mapping\Rte Corridor Maps.mxd		

Drawing No. 32105801-FOAR-177

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
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Drawing No. 32105801-FOAR-178

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.

KILMAGORROGE

BELGARD

BALLYBRACK

BALLYLOUGHAN

N

152Km

AGHAFULLIM

153Km

COOLTRIM NORTH

FARRANADUM

BALTRACEY

COOLTRIM SOUTH

CLONSHANBO

DONADEA

PART OF FARRANADUM

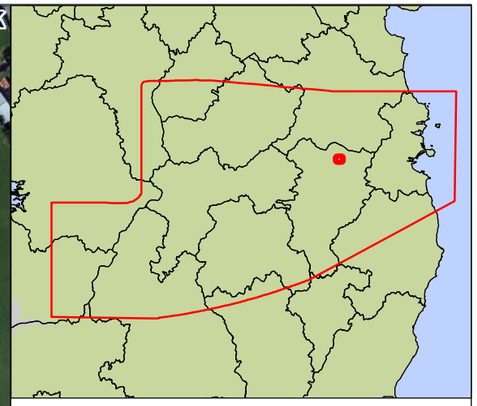
BALTRACEY

0 100 200 300 400 500 Meters

bing™

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Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client

UISCE ÉIREANN IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status: **For Issue**

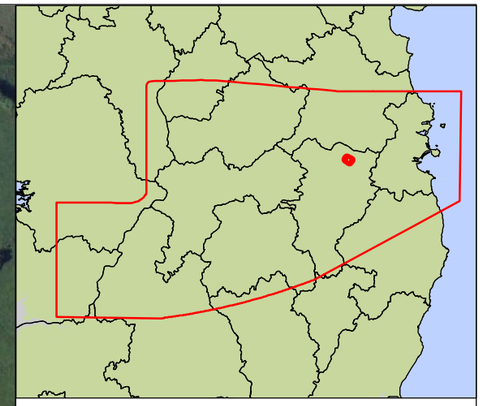
Scale @A3	1:6,500		DO NOT SCALE
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Drawing No.

32105801-FOAR-179

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

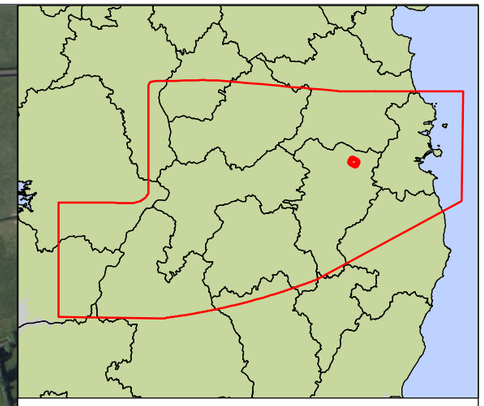
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Drawing No. 32105801-FOAR-180

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

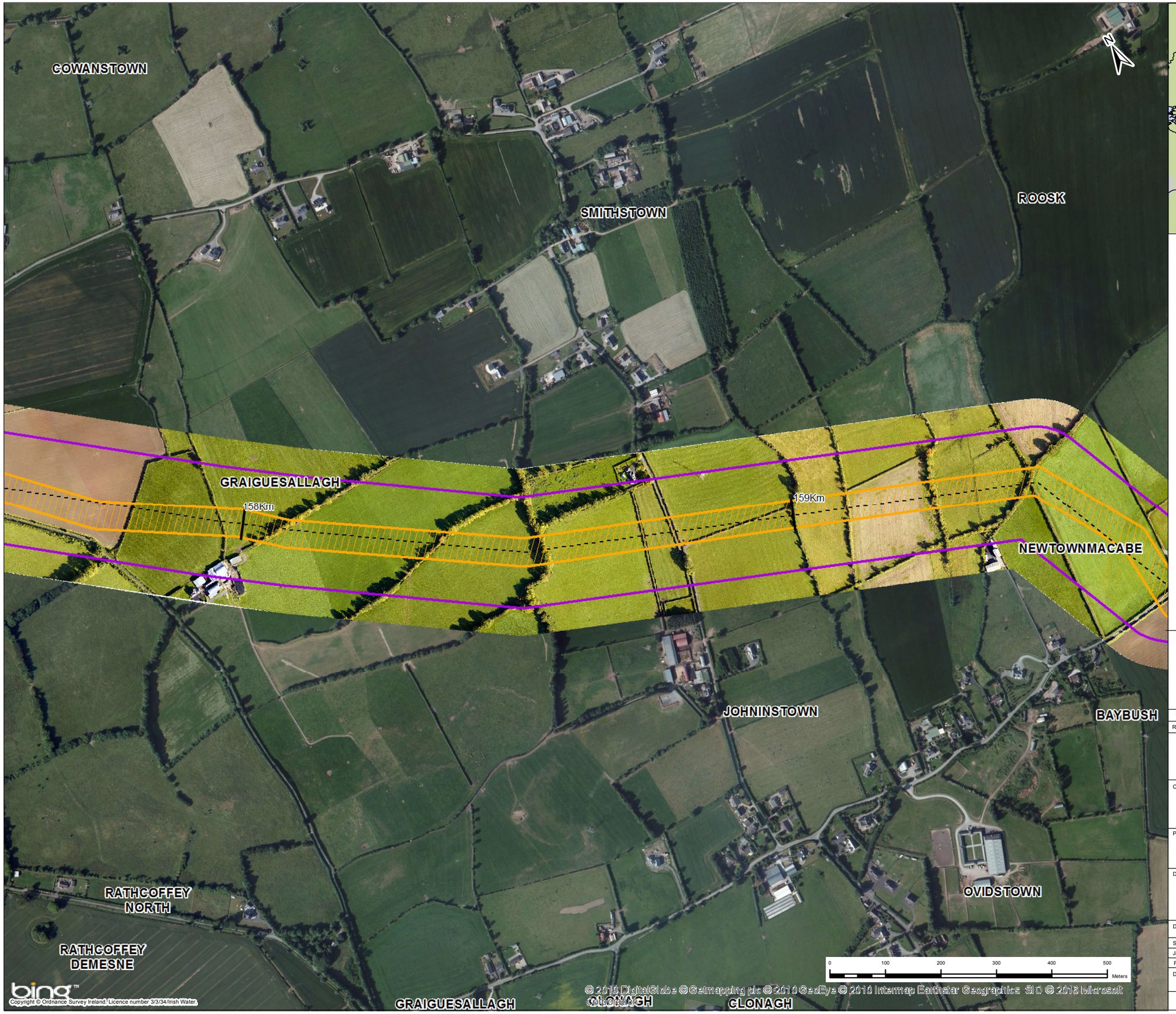
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

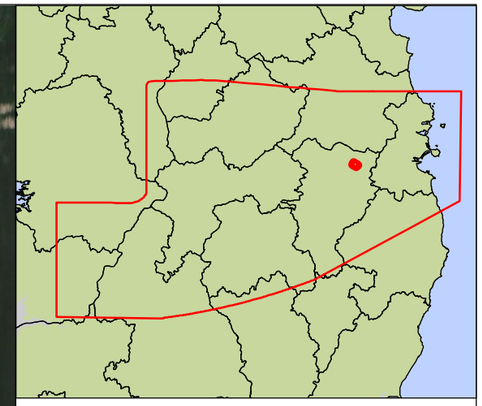
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Drawing No. 32105801-FOAR-181

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

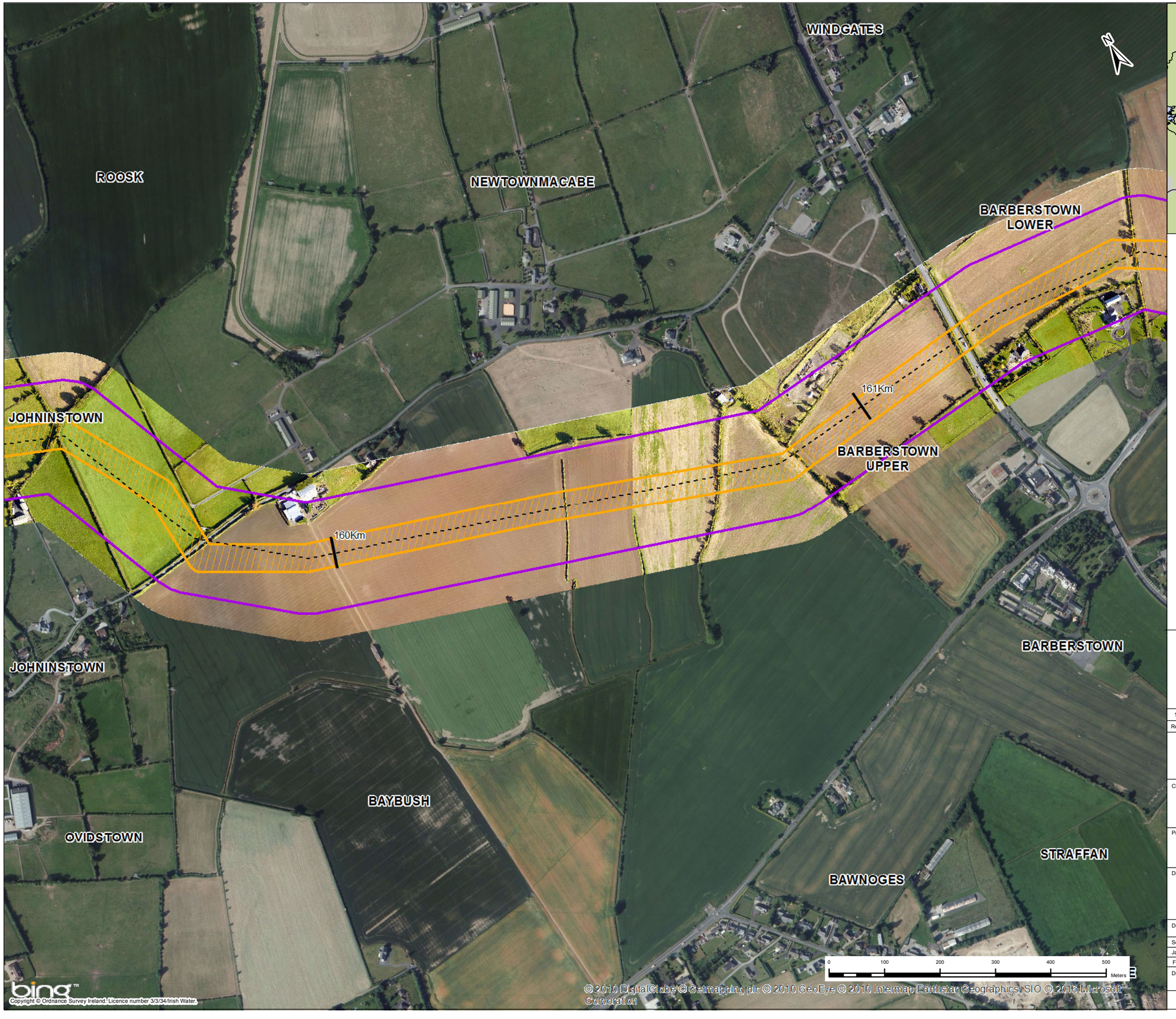
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

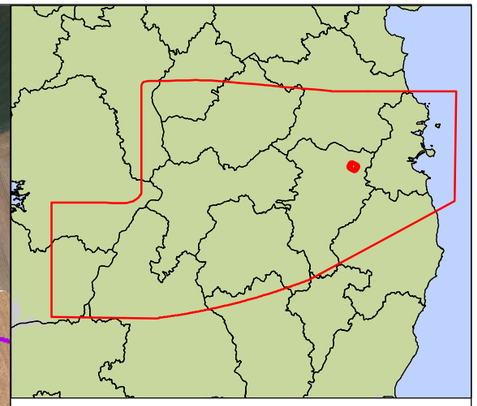
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGS Tender\5_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-182

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

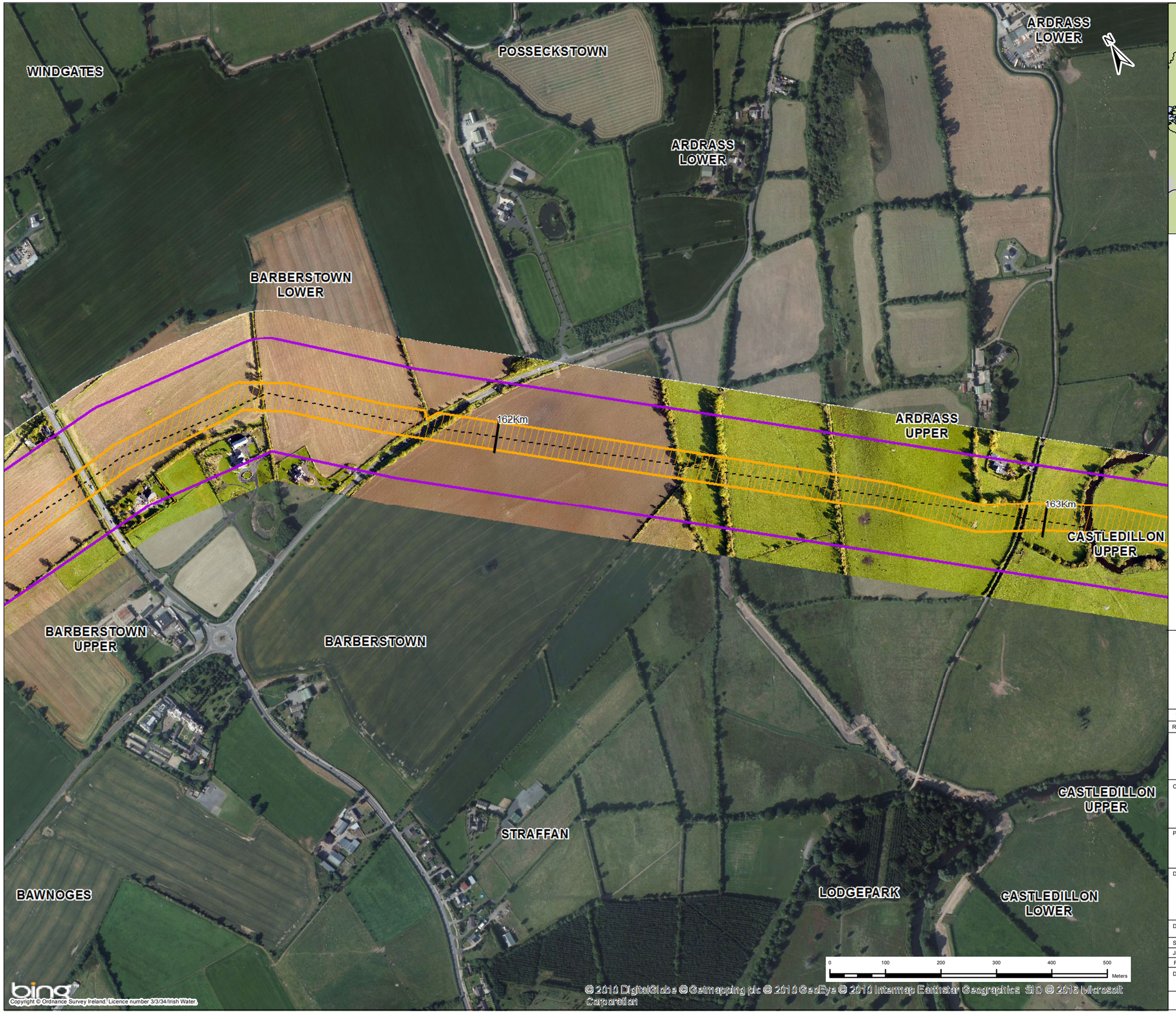
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

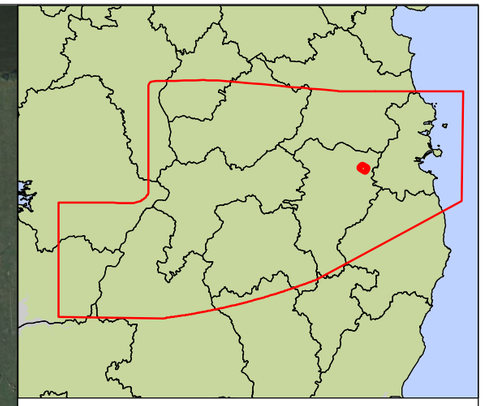
Drawing Status: **For Issue**

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Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\JOBS\32105801 - WSP-DRGB Tankill_Ikerdrin\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-183

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN : IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

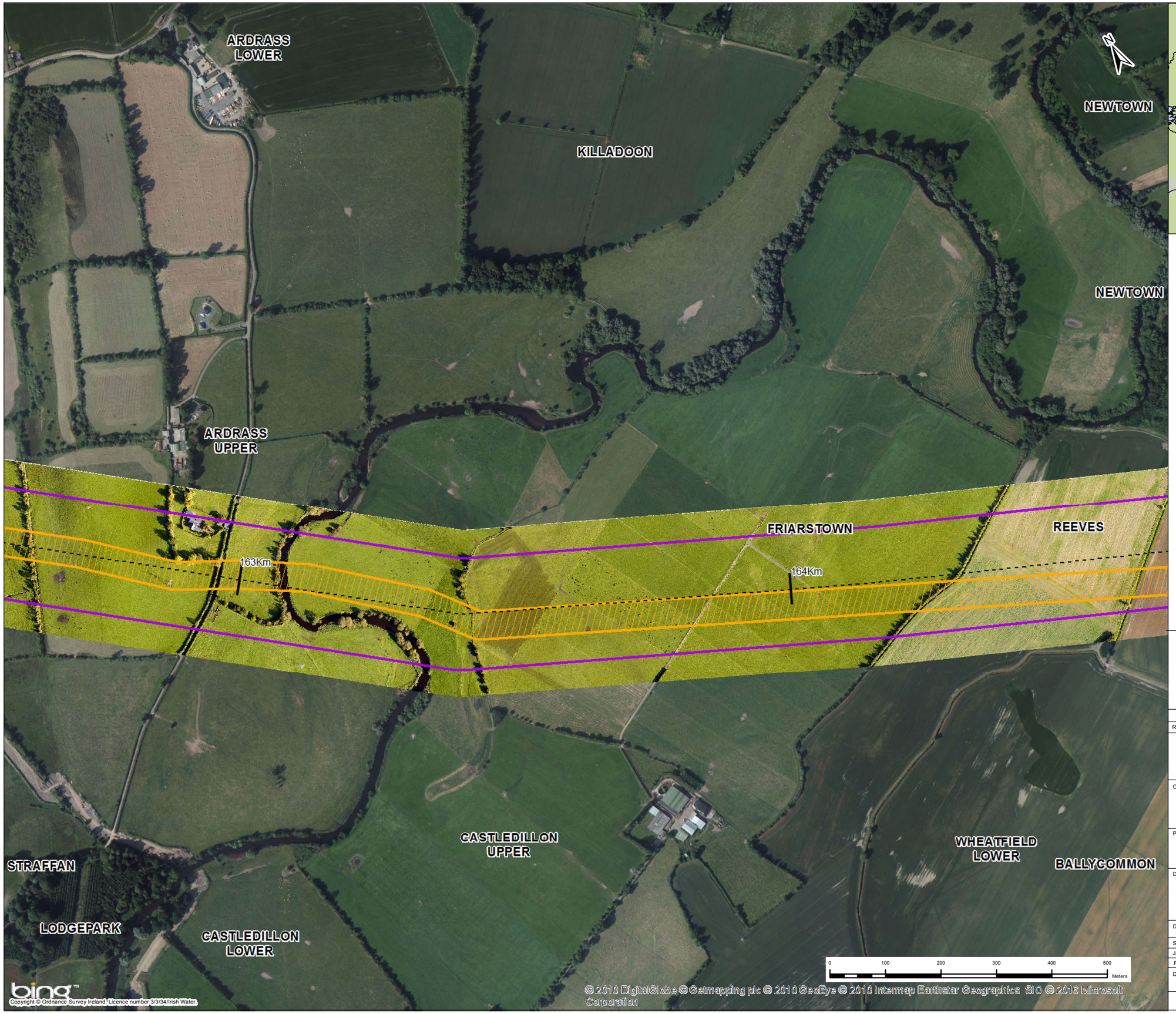
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

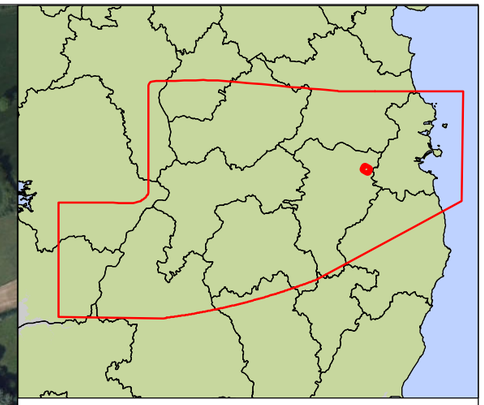
Drawing Status: **For Issue**

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Filepath	G:\JOBS\32105801 WSP-DAGS Tasks\5_Models\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-184

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN - IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

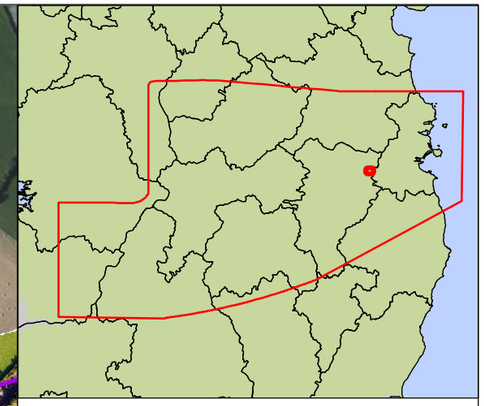
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
Jacobs No.	32105801	Client No.	WSP1
Filepath	G:\IRG\S32105801 - WSP-DIRGS Tasks\S_Mxd\Route Mapping\50m Corridor Maps.mxd		

Drawing No. 32105801-FOAR-185

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 Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS

TOBIN
Patrick J. Tobin & Co. Ltd.

Client
UISCE ÉIREANN - IRISH WATER

Project
Water Supply Project - Eastern and Midlands Region

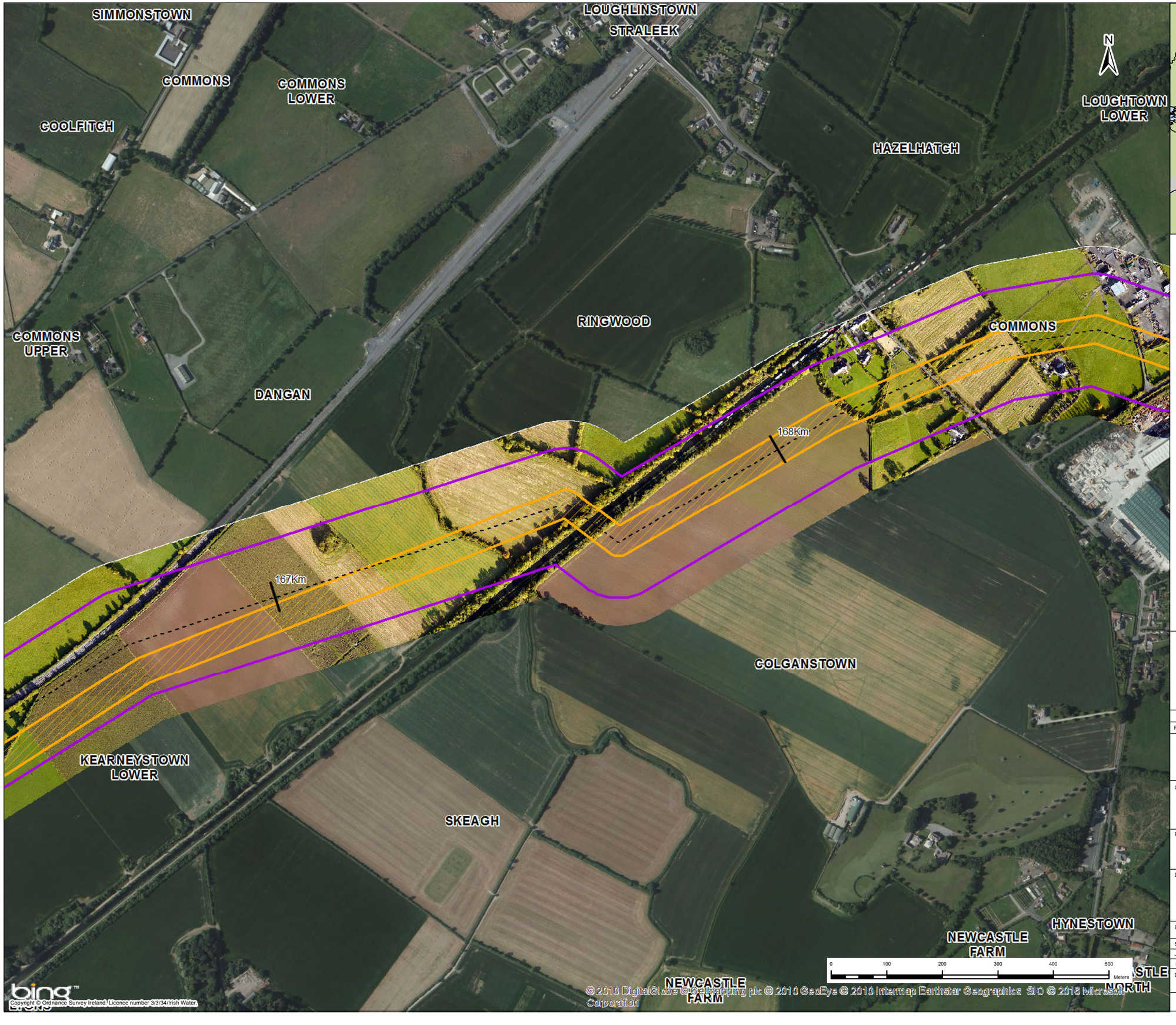
Drawing Title
Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

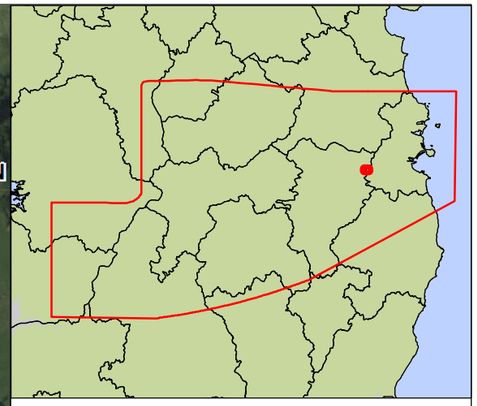
Drawing Status: **For Issue**

Scale @A3	1:6,500		DO NOT SCALE
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Drawing No.
32105801-FOAR-186

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Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

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Client: UISCE ÉIREANN : IRISH WATER

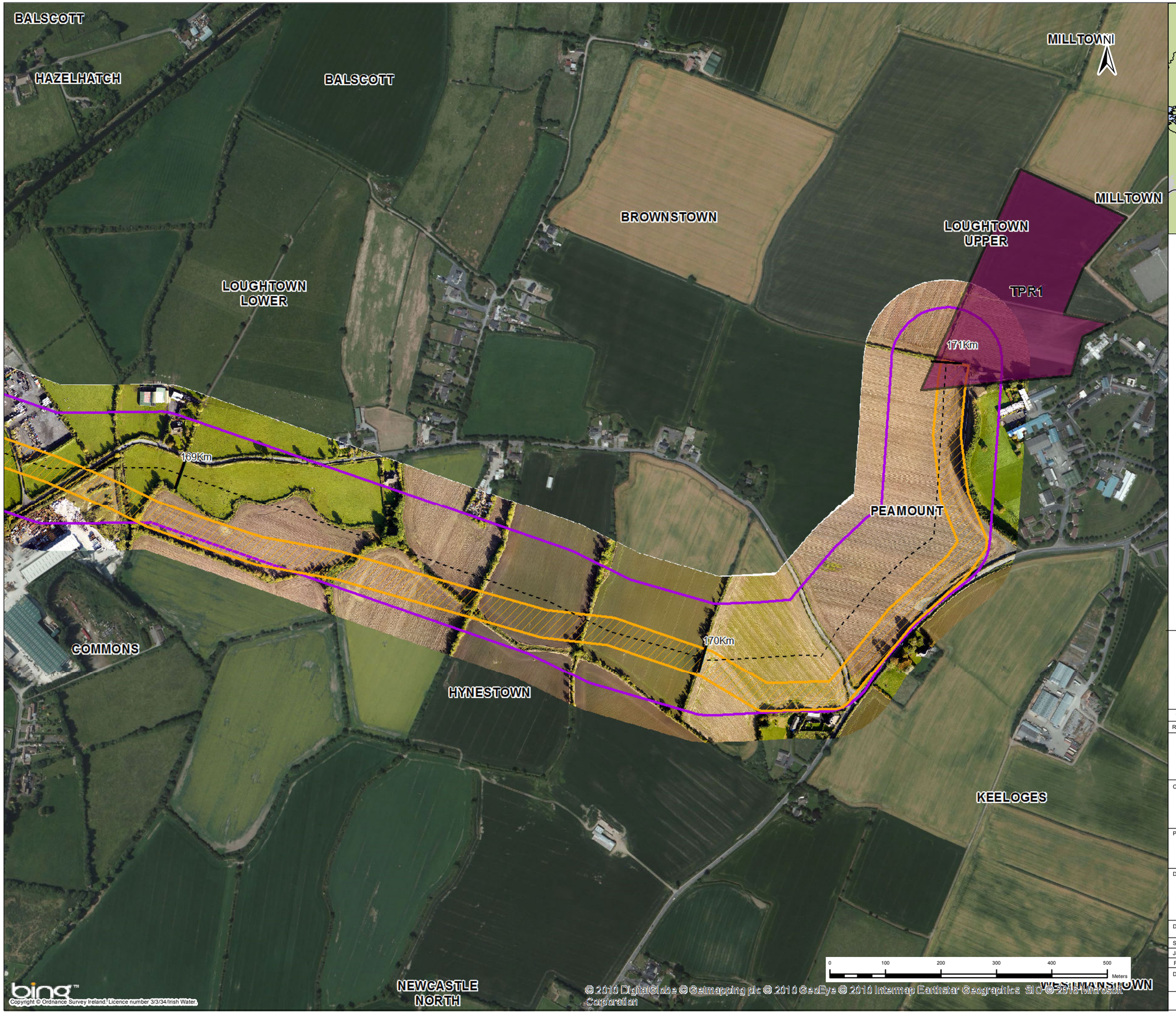
Project: Water Supply Project - Eastern and Midlands Region

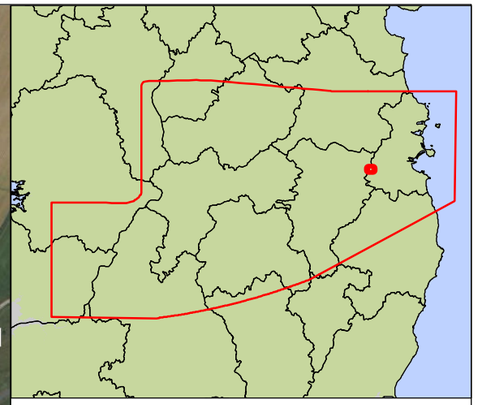
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Drawing Status	**For Issue**		
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Drawing No. 32105801-FOAR-187

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Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
1	03/11/2016	For Issue	PW	CK	DS	MG

JACOBS TOBIN Patrick J. Tobin & Co. Ltd.

Client: UISCE ÉIREANN · IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

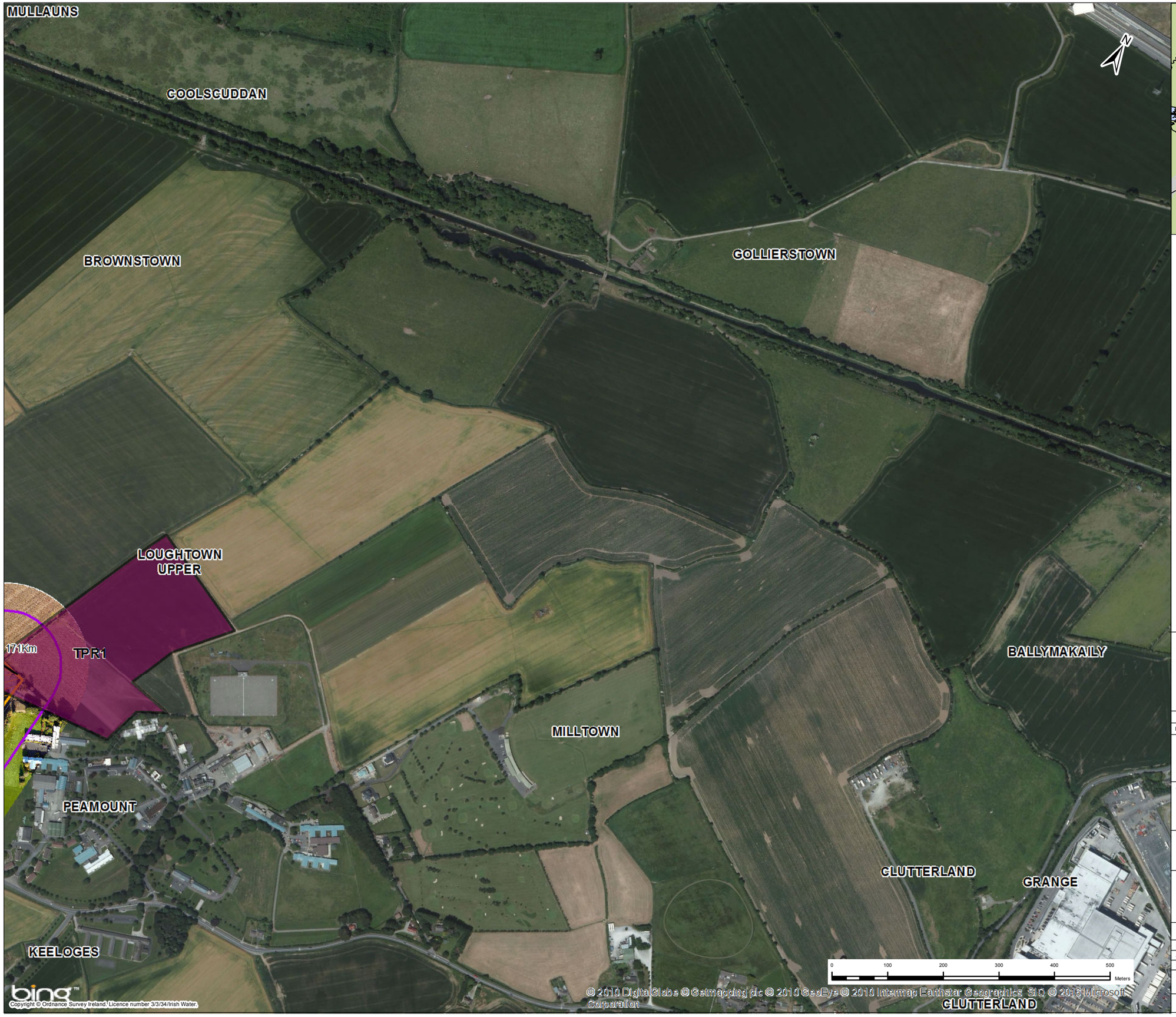
Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

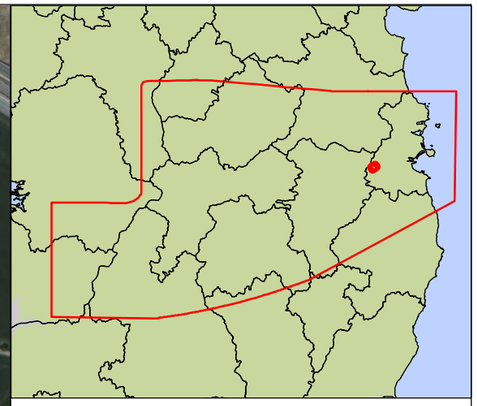
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Drawing No. 32105801-FOAR-188

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Key

- Centreline of Preferred 200m Pipeline Corridor
- Indicative 50m Pipeline Corridor
- Preferred 200m Pipeline Corridor
- Least Constrained Termination Point Reservoir Site
- Least Constrained Raw Water Abstraction Site
- Least Constrained Water Treatment Plant Site
- Least Constrained Break Pressure Tank Site

Note :-
The Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor Have Been Determined Following an Iterative Process to Define the Least Constrained Pipe Alignment : Refer to Appendix I

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Client: UISCE ÉIREANN IRISH WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred 200m Pipeline Corridor and Indicative 50m Pipeline Corridor

Drawing Status: **For Issue**

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Drawing No.: 32105801-FOAR-189

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Tionscadal Soláthair Uisce
Water Supply Project

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix A3.1 Annex E) Re-route Request Mapbook

Document no: 32105801/EIARA3.1
Version: Final

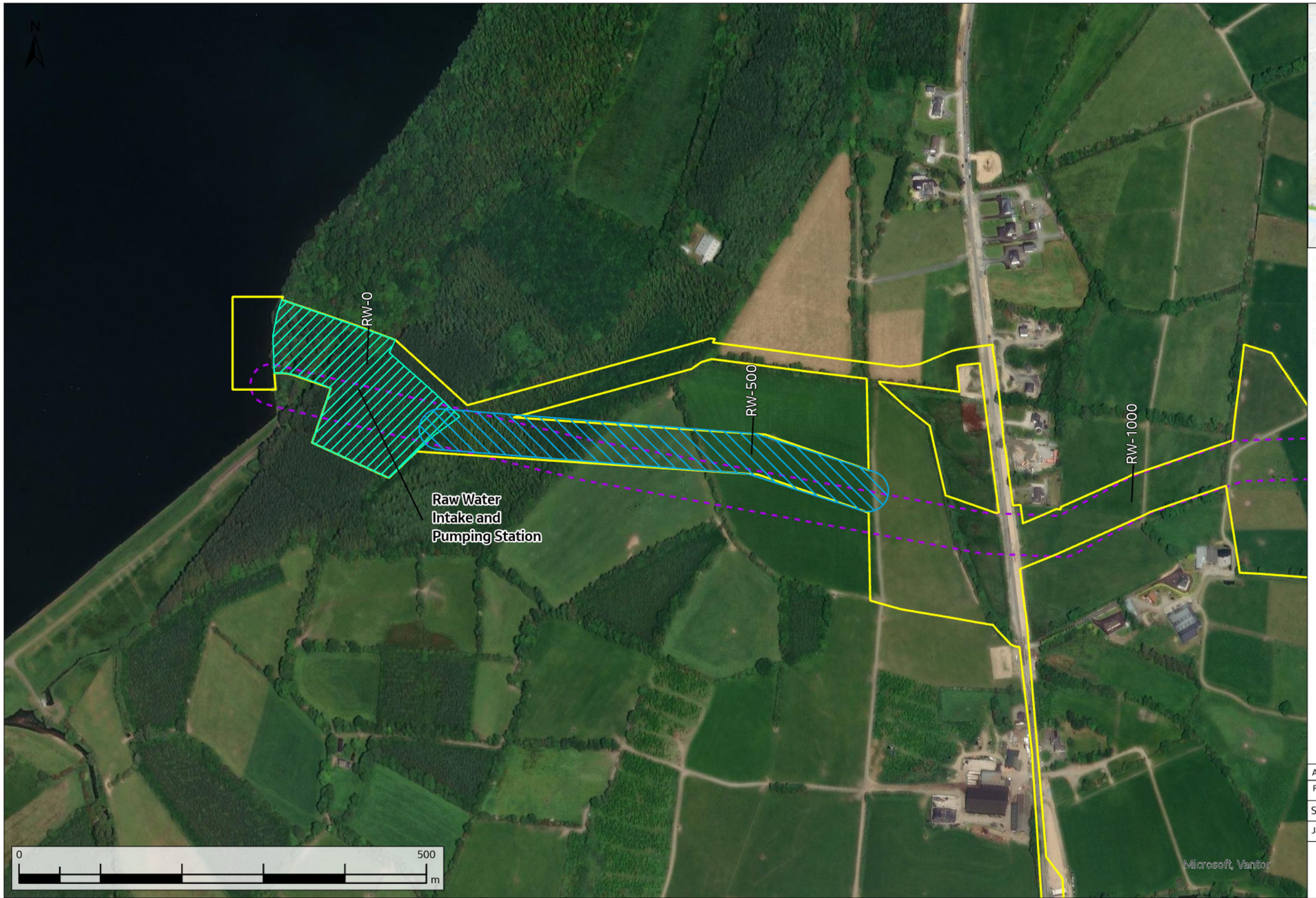
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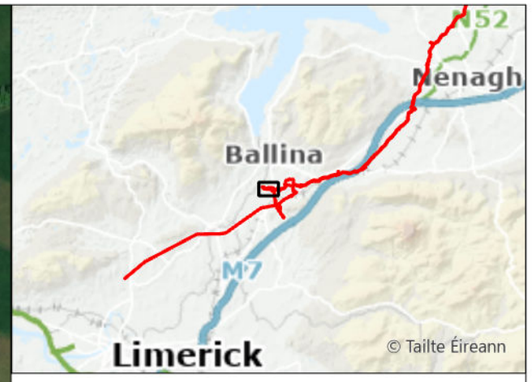
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Irish Water

Jacobs

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width
- Raw Water Intake and Pumping Station

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL001 RW-500	Technical Reroute Request - Alignment amendment to the north due to improved topography in order to facilitate construction works.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Drawing Title: REROUTE MAPPING

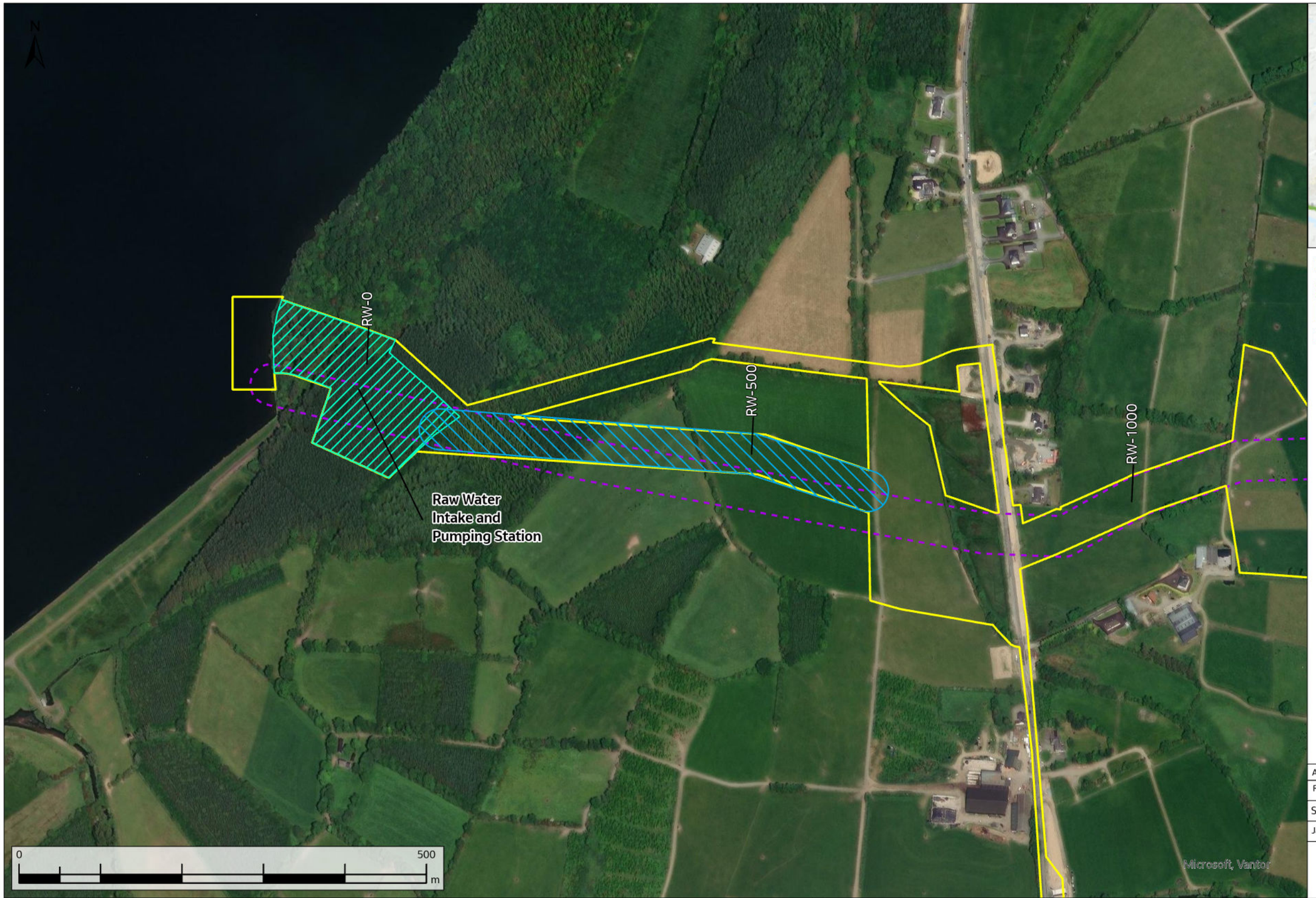
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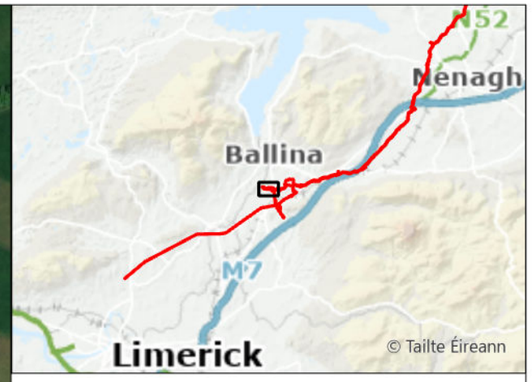
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FIGURE 1

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width
- Raw Water Intake and Pumping Station

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL002 RW-500	Technical Reroute Request - Alignment amendment to the north due to improved topography in order to facilitate construction works.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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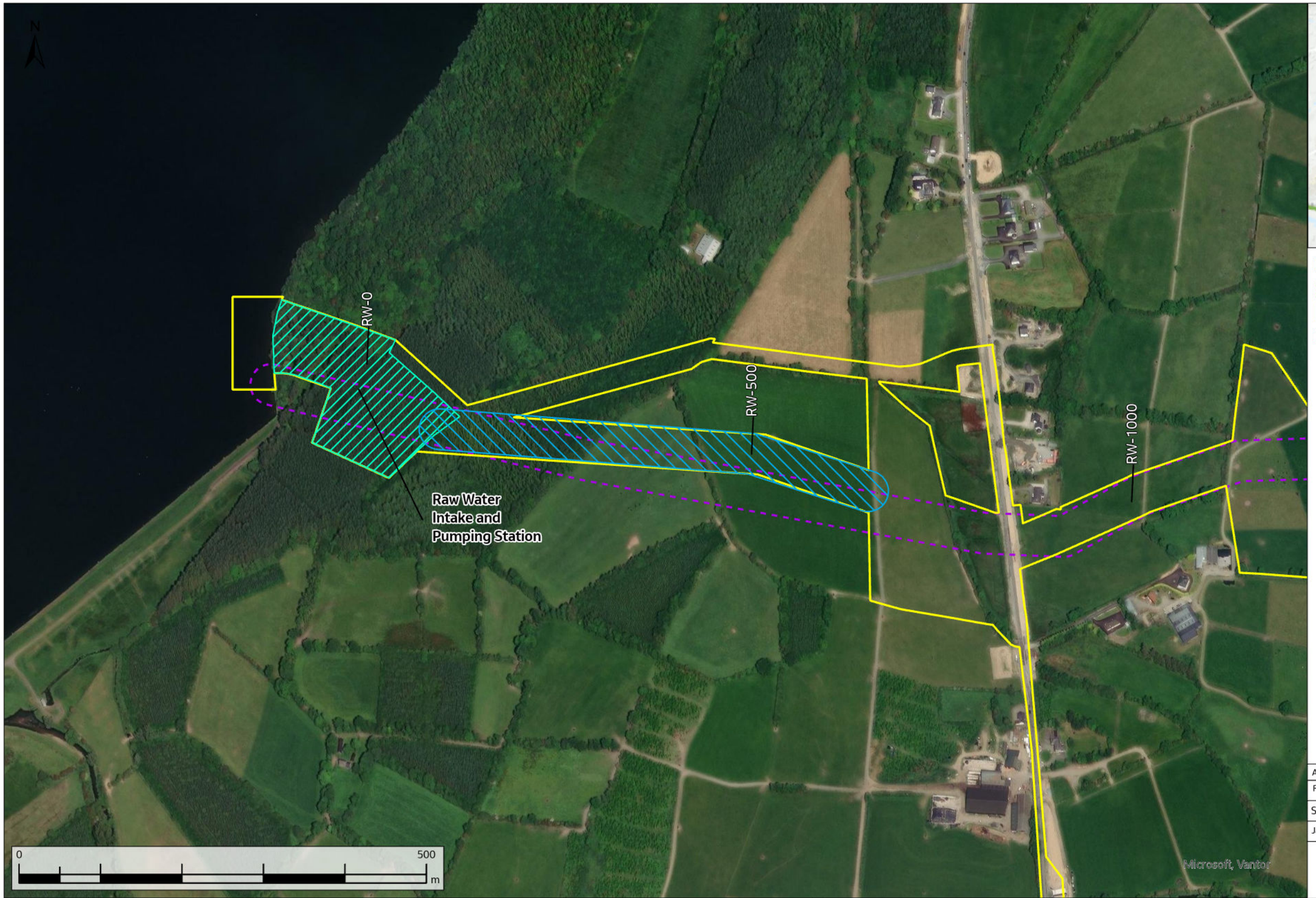
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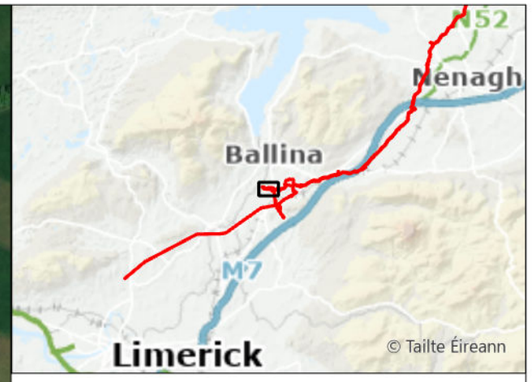
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FIGURE 2

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width
- Raw Water Intake and Pumping Station

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL003 RW-500	Technical Reroute Request - Alignment amendment to the north due to improved topography in order to facilitate construction works.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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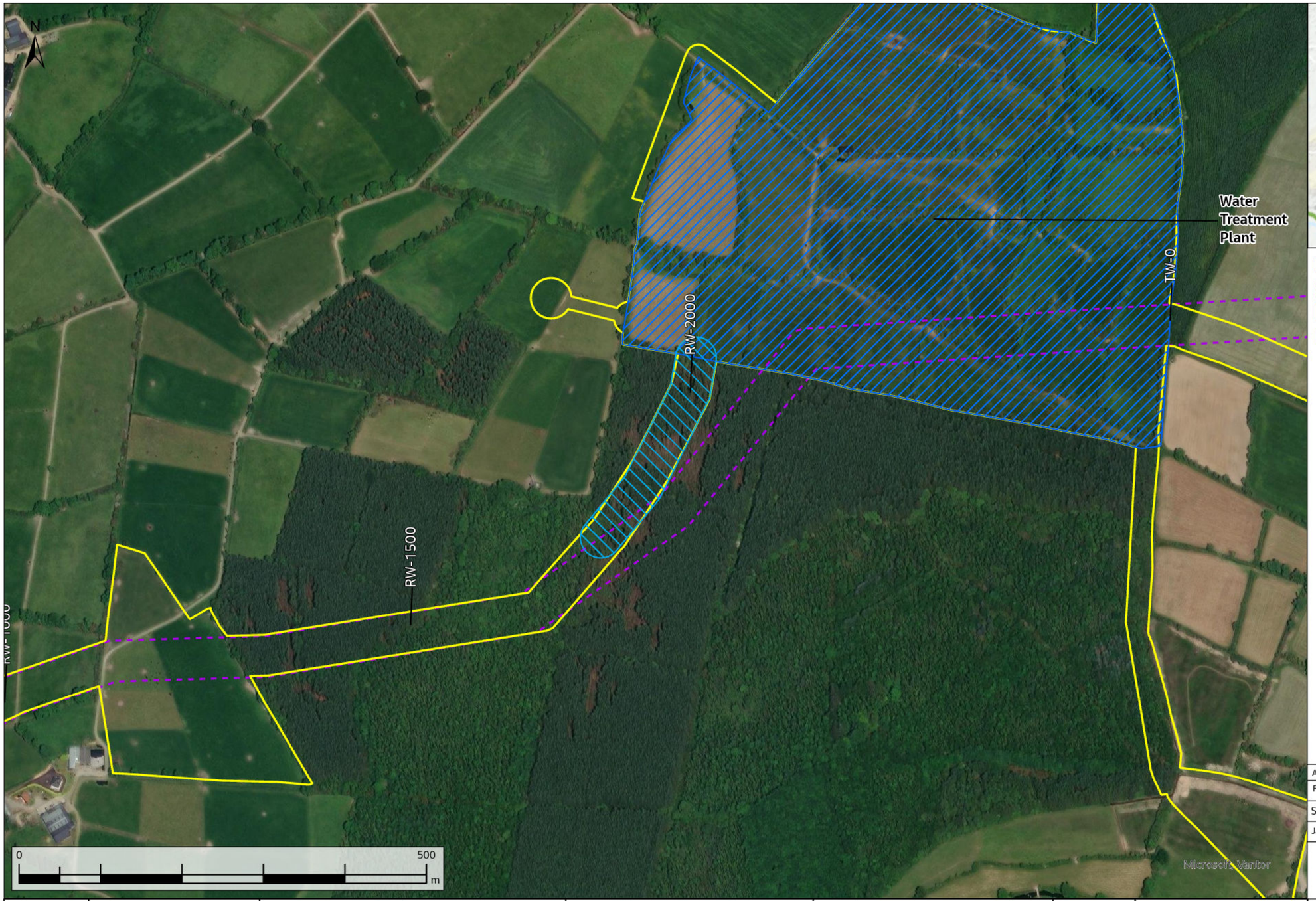
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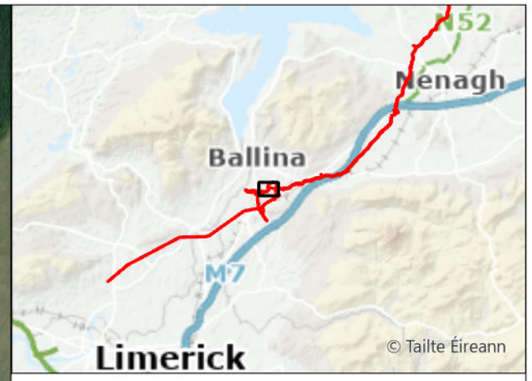
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FIGURE 3

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Water Treatment Plant
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL007 RW-2000	Technical Reroute Request - Alignment amendment to the west due to improved topography in order to facilitate construction works and pipeline approach to the water treatment plant from the west.	No environmental objection. Reroute would reduce impact on trees to the south of the water treatment plant. Mitigation measures could be required for badger setts within the reroute.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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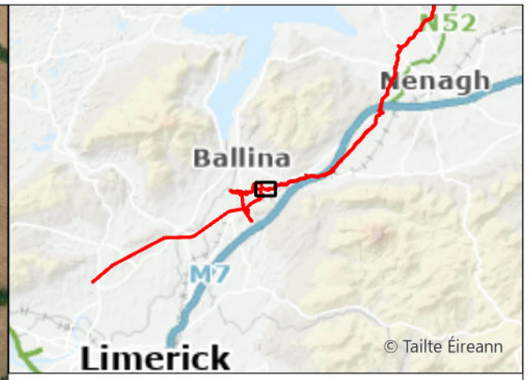
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FIGURE 4

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- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Water Treatment Plant
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL008 TW-000	Landowner Reroute Request - Alignment amendment to run parallel to the southern field boundary.	No environmental objection. Facilitated re-route would pass closer to and between properties. Standard mitigation measures could be applied. Mitigation measures could be required to address the presence of a badger sett, otter and river lamprey presence, woodland patch and river corridor for commuting/foraging bats in proximity to the re-route.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, moving the route to the southern perimeter of the fields.

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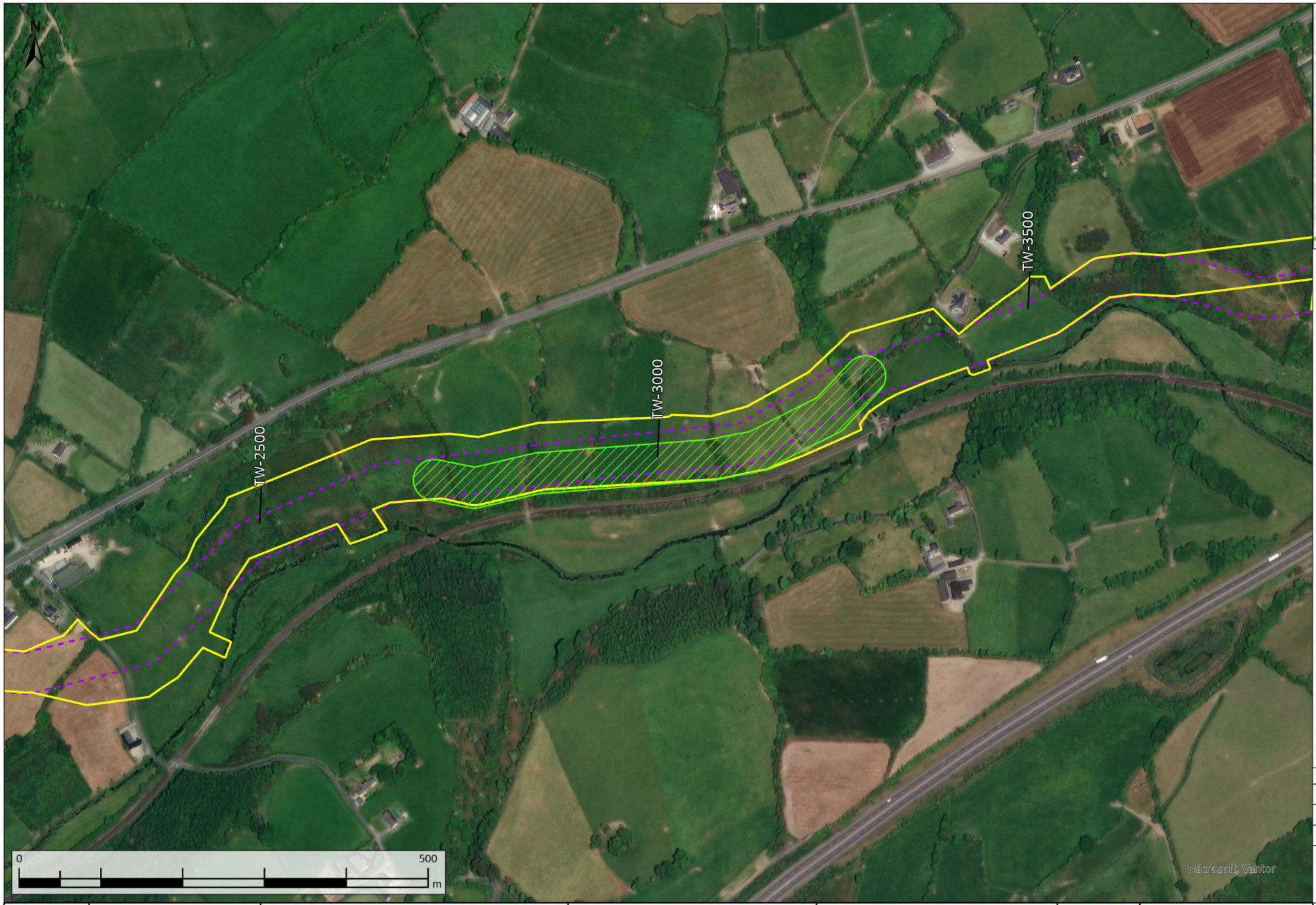
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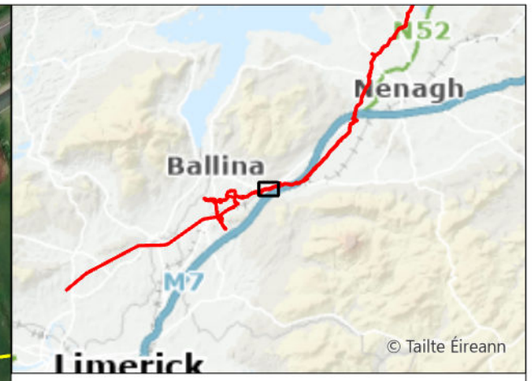
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FIGURE 5

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL015 TW-2700	Landowner Reroute Request - Alignment amendment to the south to run parallel to the southern field boundary.	No environmental objection. Mitigation measures could be required to address the presence of otters and river lamprey and river corridor for commuting/foraging bats in proximity to the re-route.	No technical objection. Reroute would comply with the buffer distance required by Irish Rail.	No impact to adjacent landowners.	Facilitated	Request has been facilitated, moving the route south towards the railway line before moving north to avoid an associated railway building next to the level crossing.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

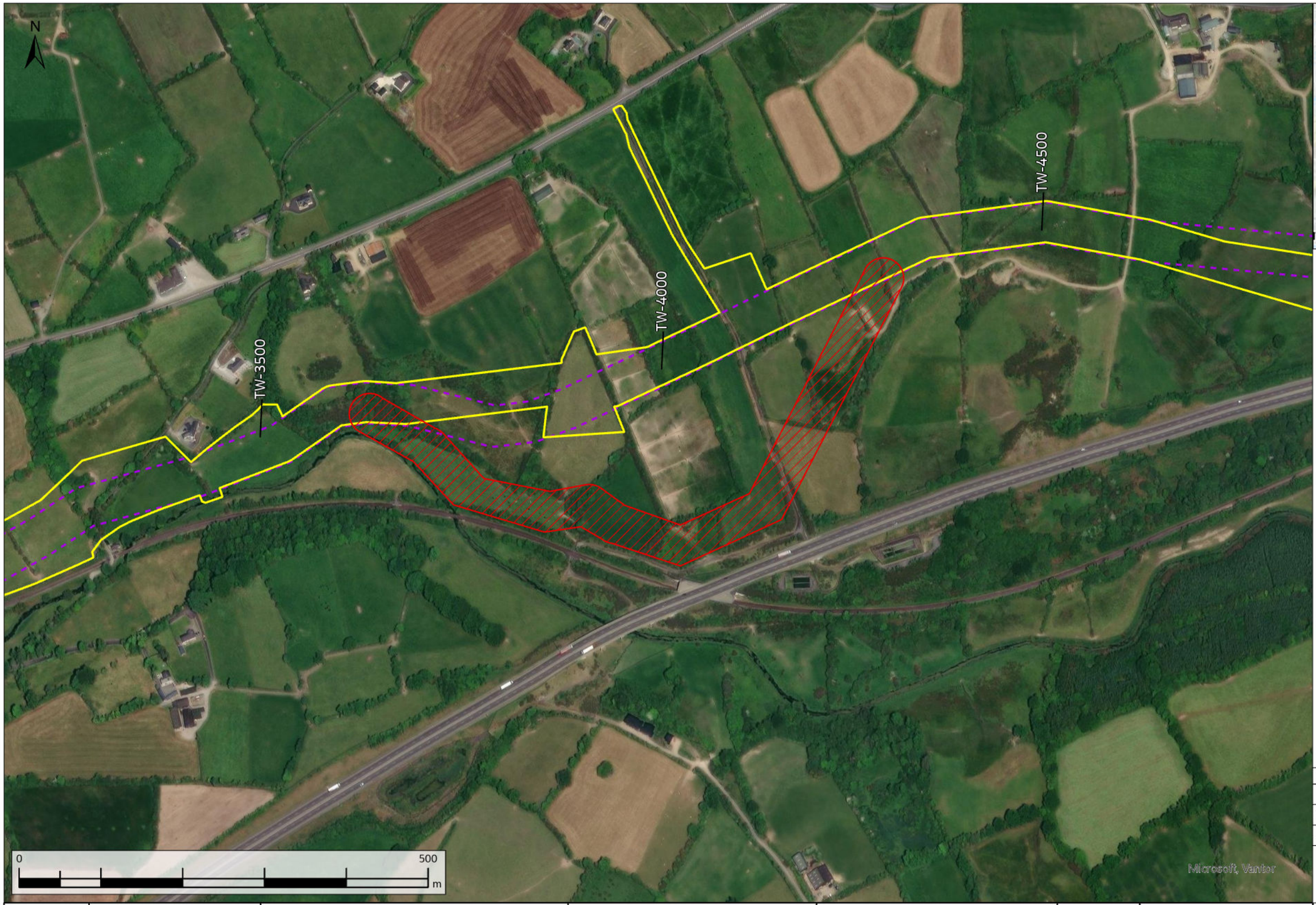
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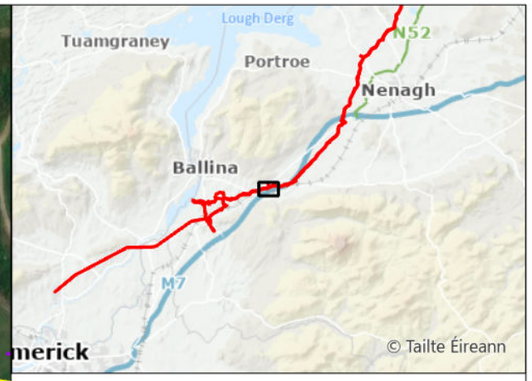
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FIGURE 6

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL018a TW-3600	Landowner Reroute Request - Alignment amendment to the south to run along the Kilmastulla River.	Not environmentally acceptable. A separation distance should be kept with the Kilmastulla River, which is partially designated a Special Area of Conservation (SAC).	Not technically acceptable. Poor alignment would introduce additional bends, construction complexity and operational inefficiencies.	Reroute would impact on the land of adjacent landowners.	Not facilitated	Reroute has not been facilitated. Rerouting along Kilmastulla River would not be feasible as a separation distance must be maintained. There would also be an increase in operational inefficiencies.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

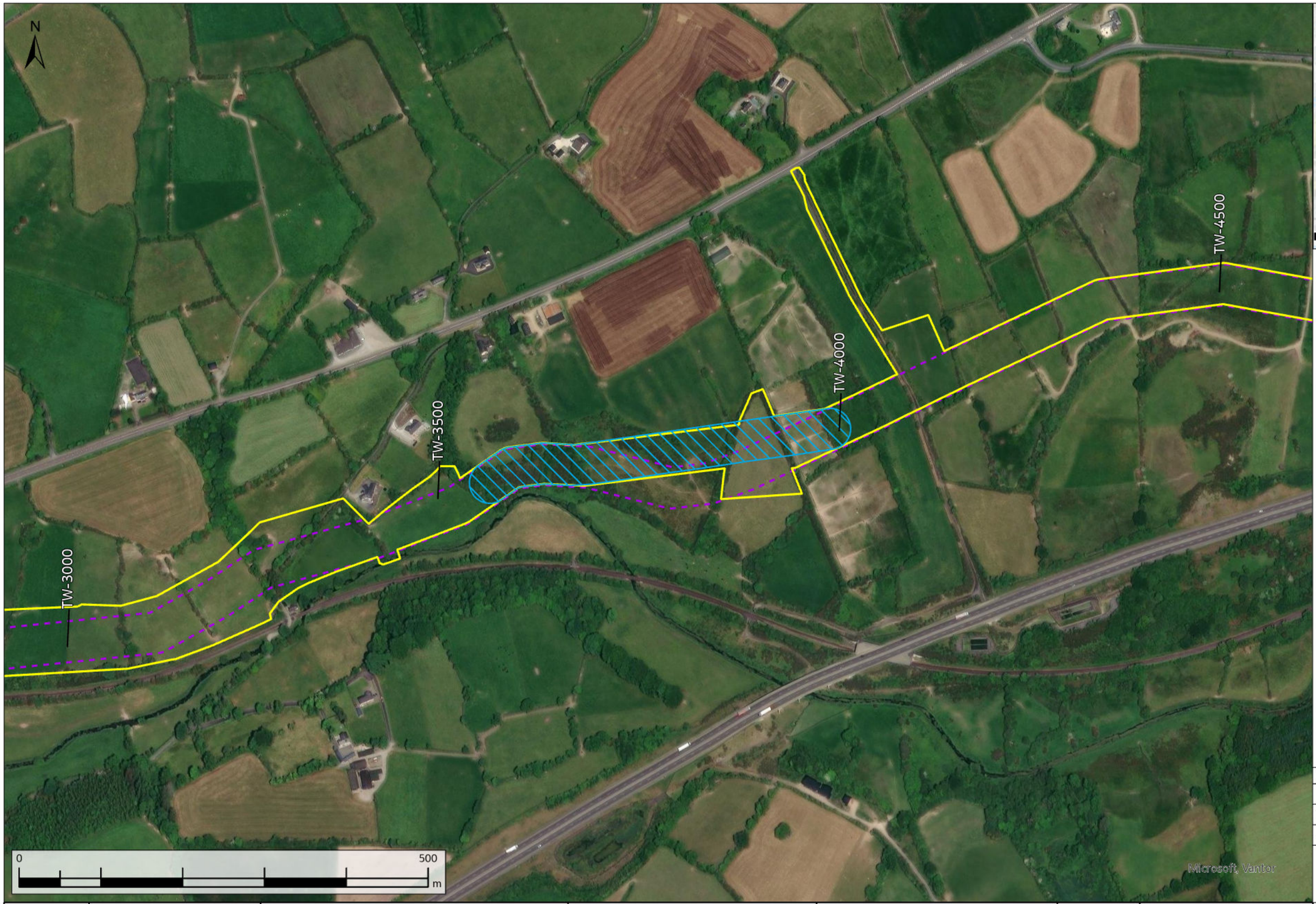
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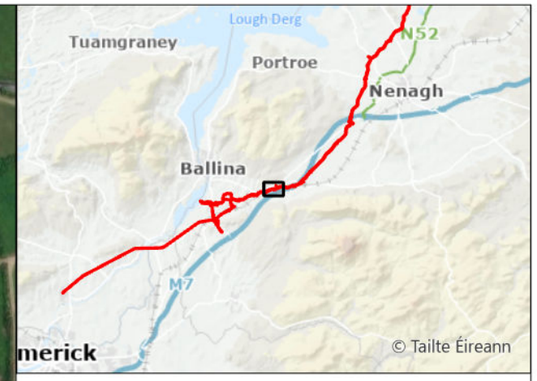
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FIGURE 7

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL018b TW-3600	Technical Reroute Request - Alignment amendment to facilitate proposed trenchless section and avoid a steep side slope.	No environmental objection. Mitigation measures could be required to reduce impacts of noise, vibration and potential river pollution.	No technical objection.The minor reroute would facilitate installation of this section by trenchless techniques and avoid trenching activities in a steep side slope.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated, reducing the potential impact on Kilmastulla River from noise, vibration and river pollution.

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

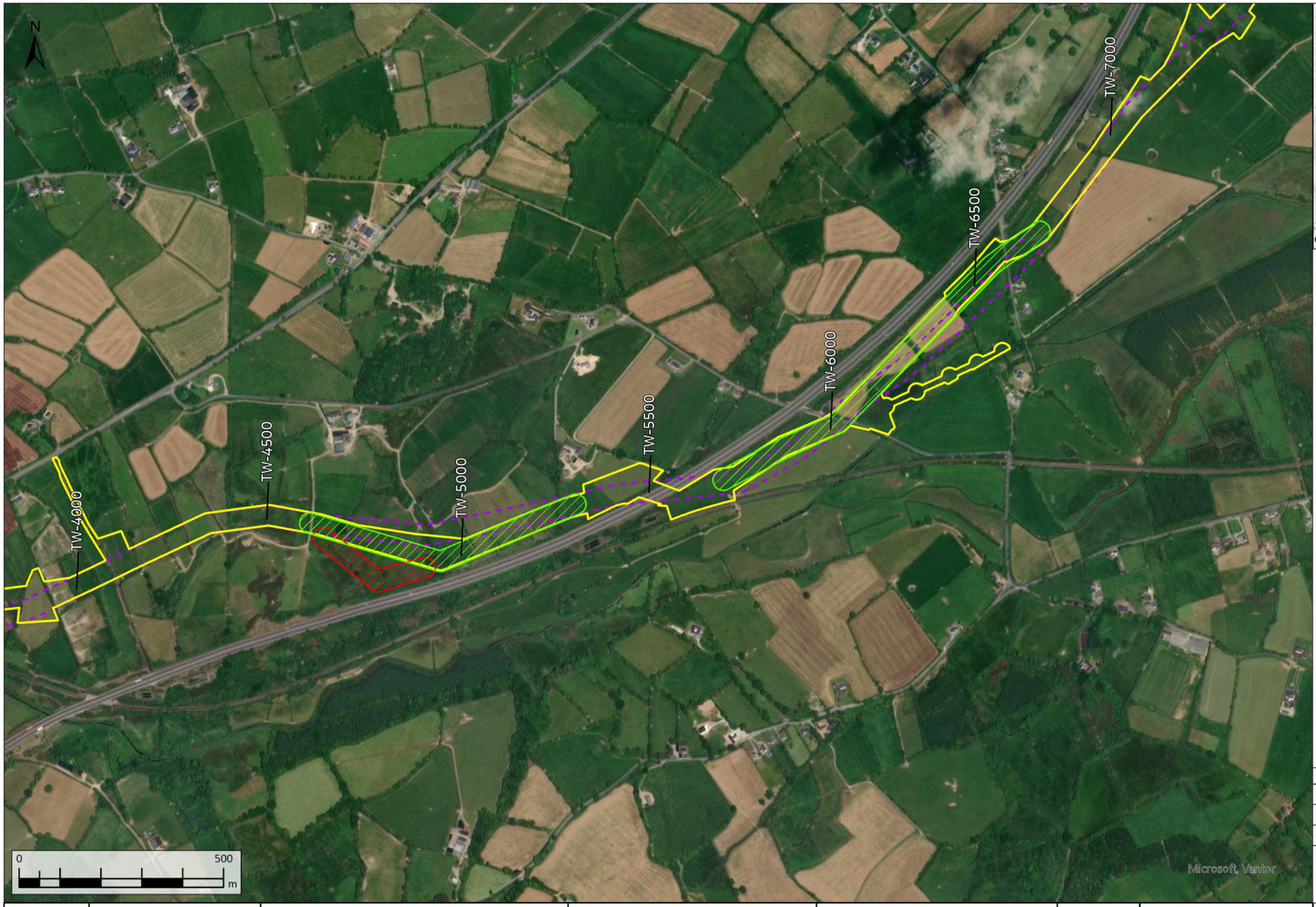
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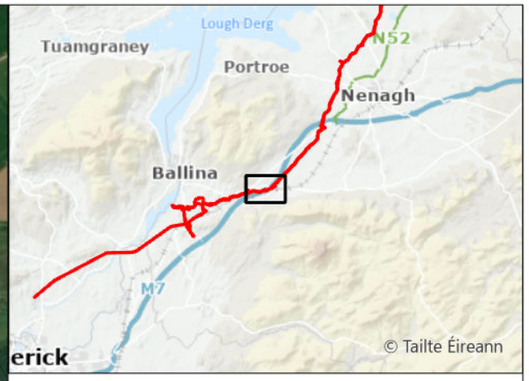
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FIGURE 8

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL022 TW-4800	Landowner Reroute Request - Alignment amendment to run parallel to the motorway.	No environmental objection.	The rejected section of the reroute is technically less favourable as it introduces additional bends and hydraulic inefficiencies. The requested reroute is limited by the required Transport Infrastructure Ireland (TII) buffer distance. It is not possible to run the pipeline adjacent to the motorway the entire proposed length of the reroute due to the presence of an existing underpass and access road to a farm. The partially facilitated reroute would comply with the buffer distance required by Irish Rail.	No impact to adjacent landowners.	Partially facilitated	Request has been partially facilitated. The full reroute could not be accomodated due to TII buffer zone and the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

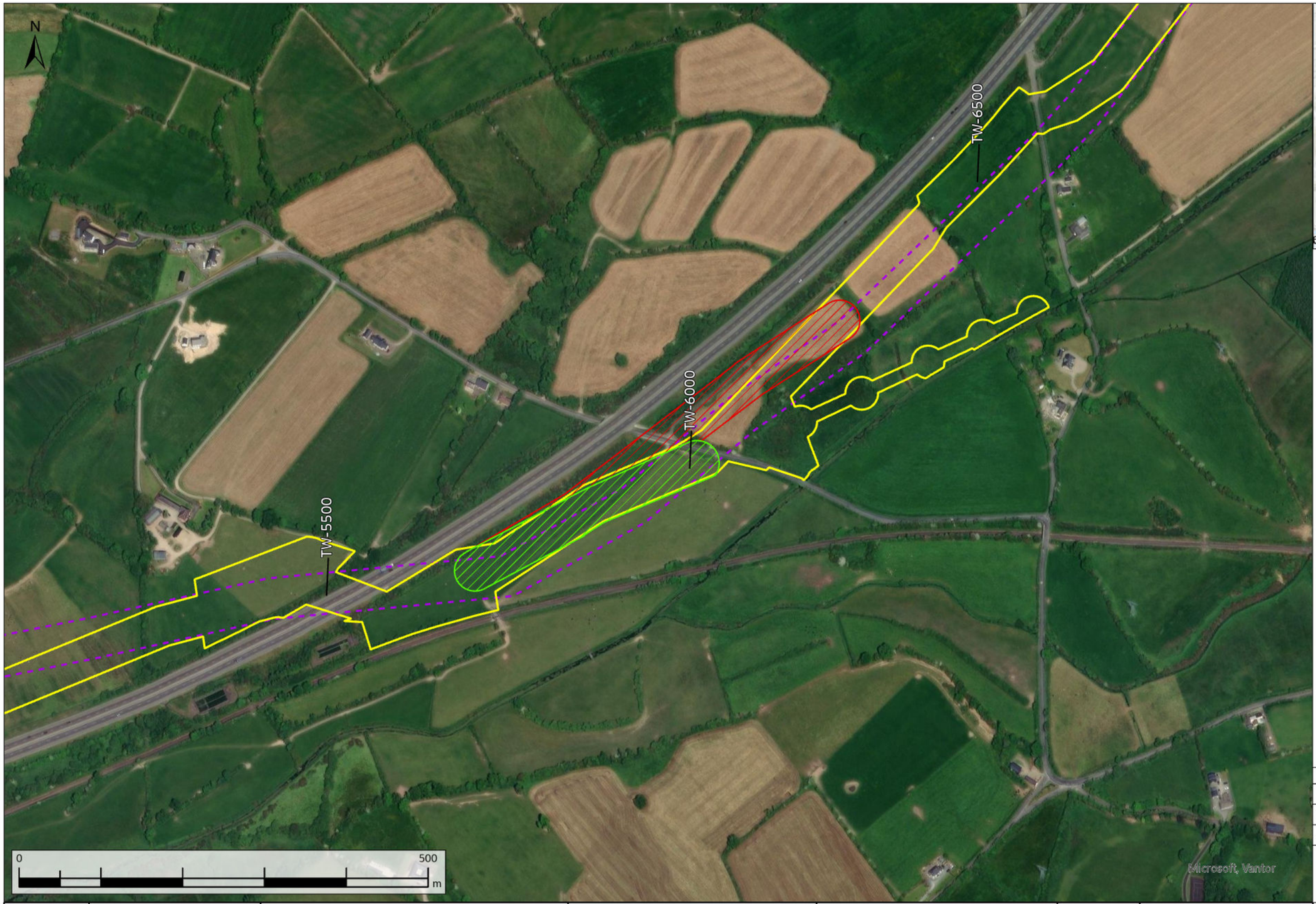
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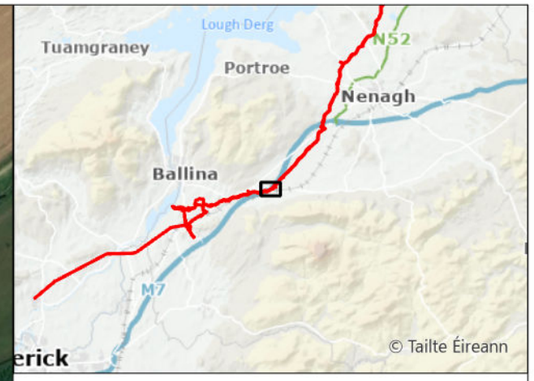
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FIGURE 9

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL023 TW-5700	Landowner Reroute Request - alignment amendment to run adjacent to M7, reducing the loss by severing land.	No environmental objection.	No technical objection to the facilitated section of this reroute request. The reroute at this location is constrained by proximity to the motorway and routing through adjacent landowners either side. Mitigation measures and temporary works may be required to maintain the structural integrity of the motorway underpass.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Partially facilitated	Request has been partially facilitated as full facilitation would be limited by the TII buffer zone.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

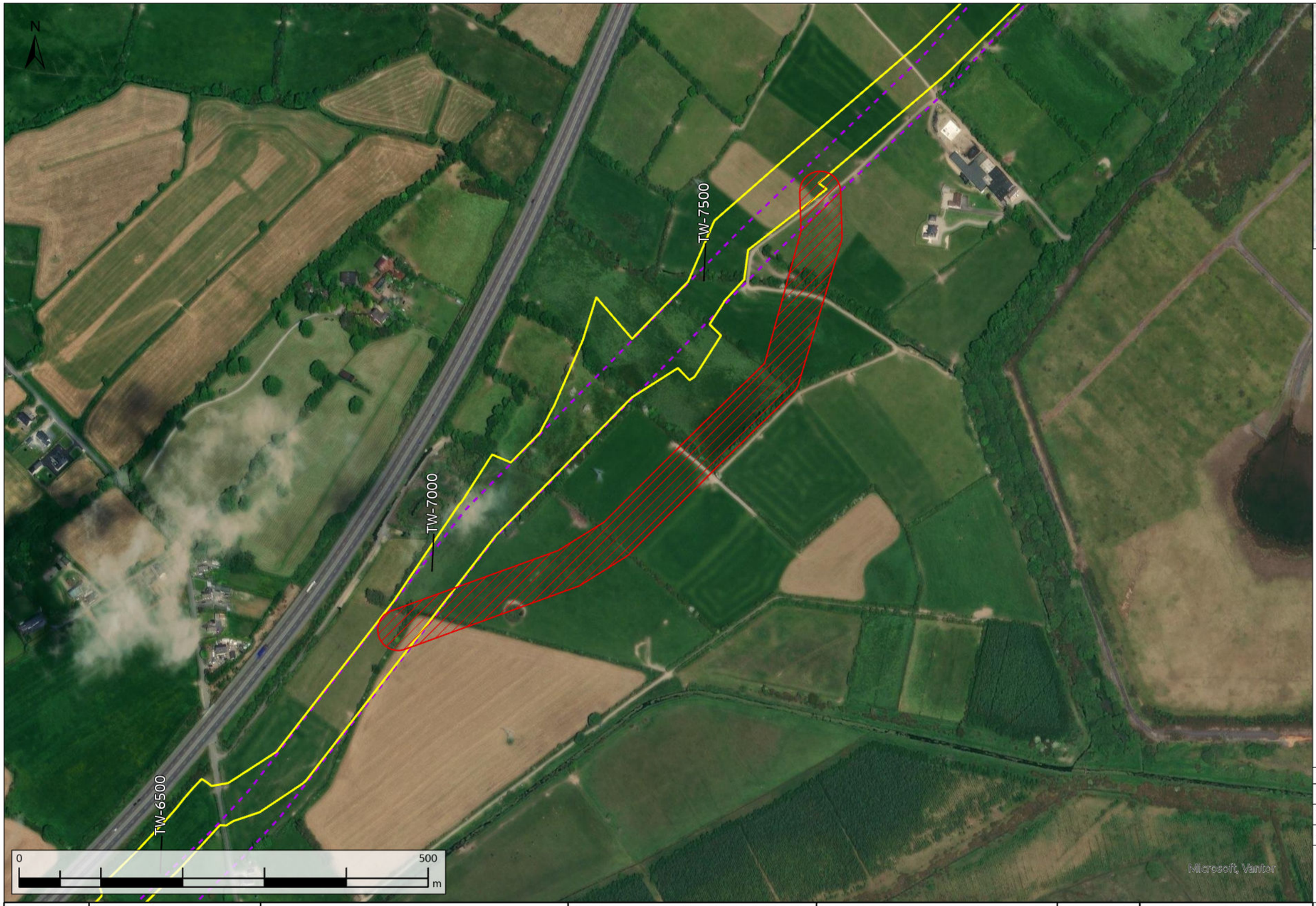
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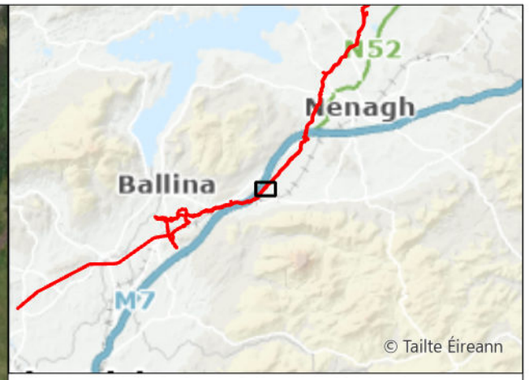
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FIGURE 10

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Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL026 TW-6900	Landowner Reroute Request - alignment amendment to the southeast.	No environmental objection.	Not technically acceptable. Reroute would result in a clash with ESB pylon. Rerouting further southwest to avoid the pylon would introduce operational inefficiencies.	Reroute request rejected as amending the reroute further to avoid the pylon would result in increased impact on adjacent landowners. Additional land-take requirements for trenchless crossing underneath high-voltage overhead power lines would further increase the impacts on adjacent landowners.	Not facilitated	Reroute request has not been facilitated due to a clash with an ESB pylon, which would introduce construction challenges and impact further on adjacent landowners.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00011

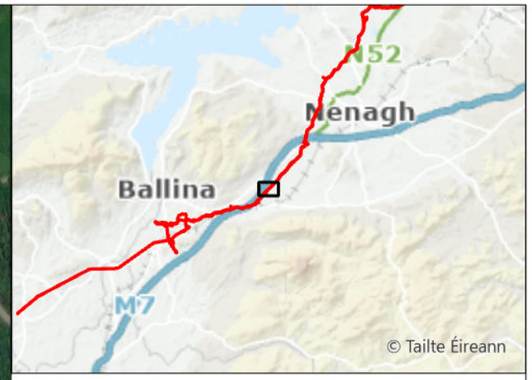
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FIGURE 11

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL029 TW-7400	Landowner Reroute Request - alignment amendment to the northwest to avoid grazing platforms, farm access road and bridge.	No environmental objection.	No technical objection.	Landowner has been consulted and proposed reroute has been accepted. No impact to adjacent landowners.	Facilitated	Request has been facilitated, moving the route away from the access road.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

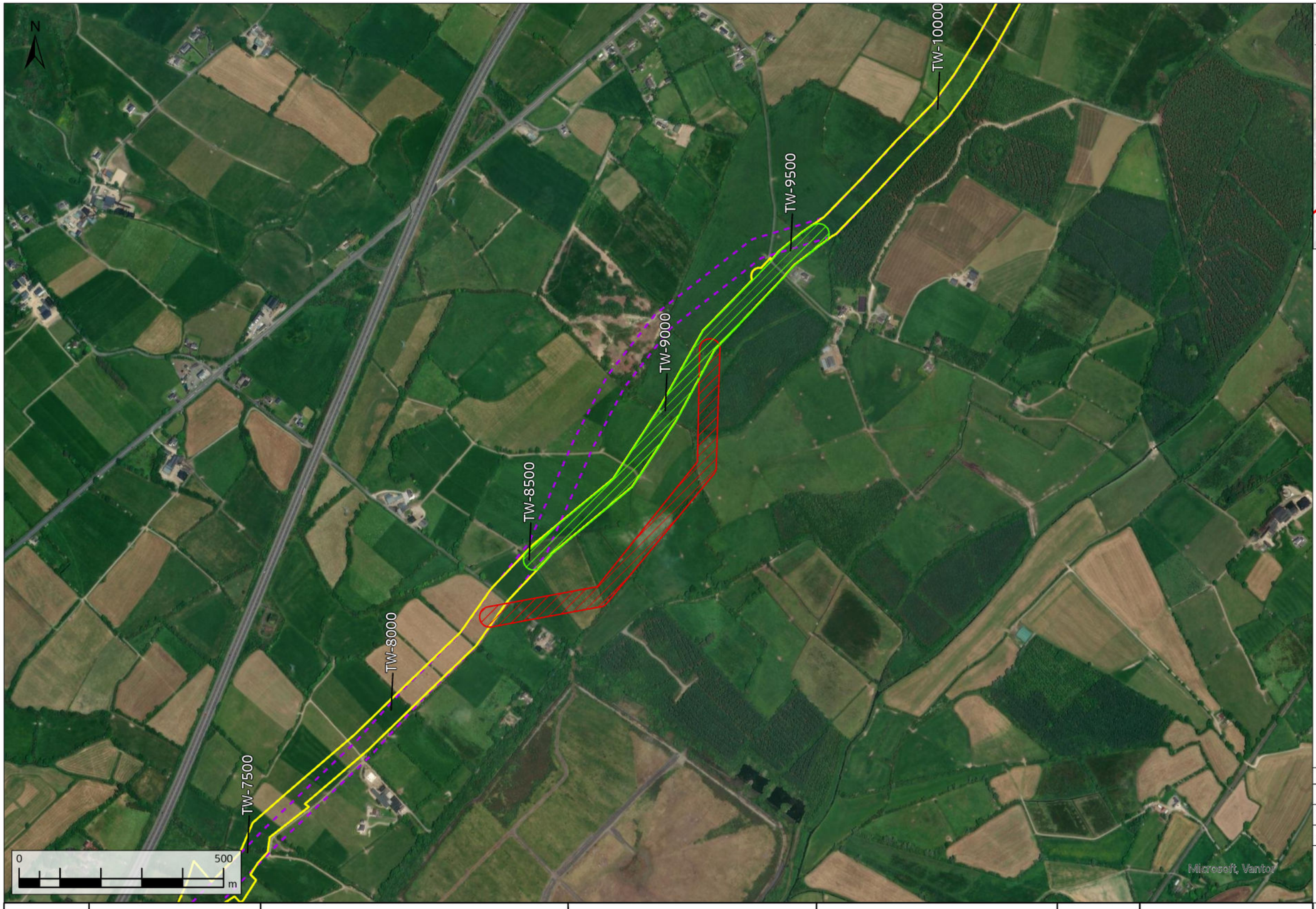
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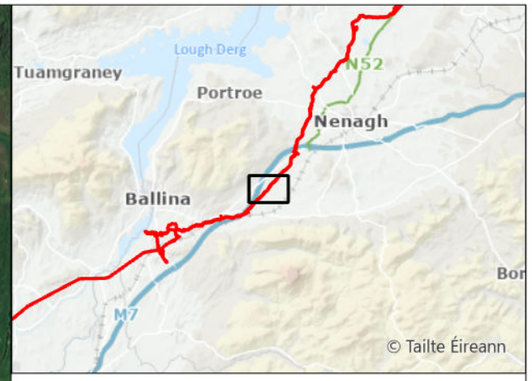
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FIGURE 12

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL031 TW-8300	Landowner Reroute Request - alignment amendment to southeast to run closer to the southeastern field boundaries.	No environmental objection. The rejected alignment would move closer to residential receptors with potential construction effects.	Rejected reroute - the full re-route could not be facilitated. This is because it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction challenges and operational inefficiencies. Partially facilitated route - No technical objection. This is a joint request with adjacent landowner and would present a more favourable alignment.	Landowners have been consulted and partially facilitated reroute, has been accepted. The requested reroute was not fully facilitated due to its close proximity to residential properties to the east and potential impact on adjacent landowners.	Partially facilitated	Requested re-route was not fully accepted due to the requirement for retaining an acceptable pipeline alignment and to avoid impacts on adjacent properties. Partially facilitated re-route was a joint reroute request with adjacent landowner to the east and has been facilitated. Reroute has been brought as far south as possible.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00013

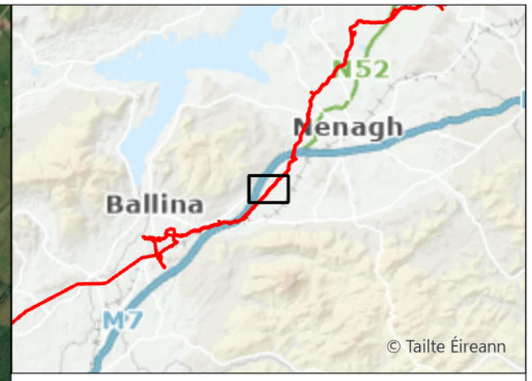
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FIGURE 13

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL032 TW-8900	Landowner Reroute Request - alignment amendment options to the southeast and northwest to avoid splitting land.	No environmental objection.	The rejected reroute was not facilitated because it would compromise hydraulic performance by introducing additional bends. Partially facilitated option - No technical objection. This is a joint request with adjacent landowner and presents a more favourable alignment.	Landowner and adjacent landowner have been consulted and partially facilitated reroute, has been accepted. Rejected reroute would have conflicted with the request of the adjacent landowner.	Partially facilitated	Northern reroute was not facilitated as it would conflict with the land of adjacent landowner and due to the requirement for retaining an acceptable alignment. Partially facilitated re-route was a joint reroute request with adjacent landowner to the west and has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

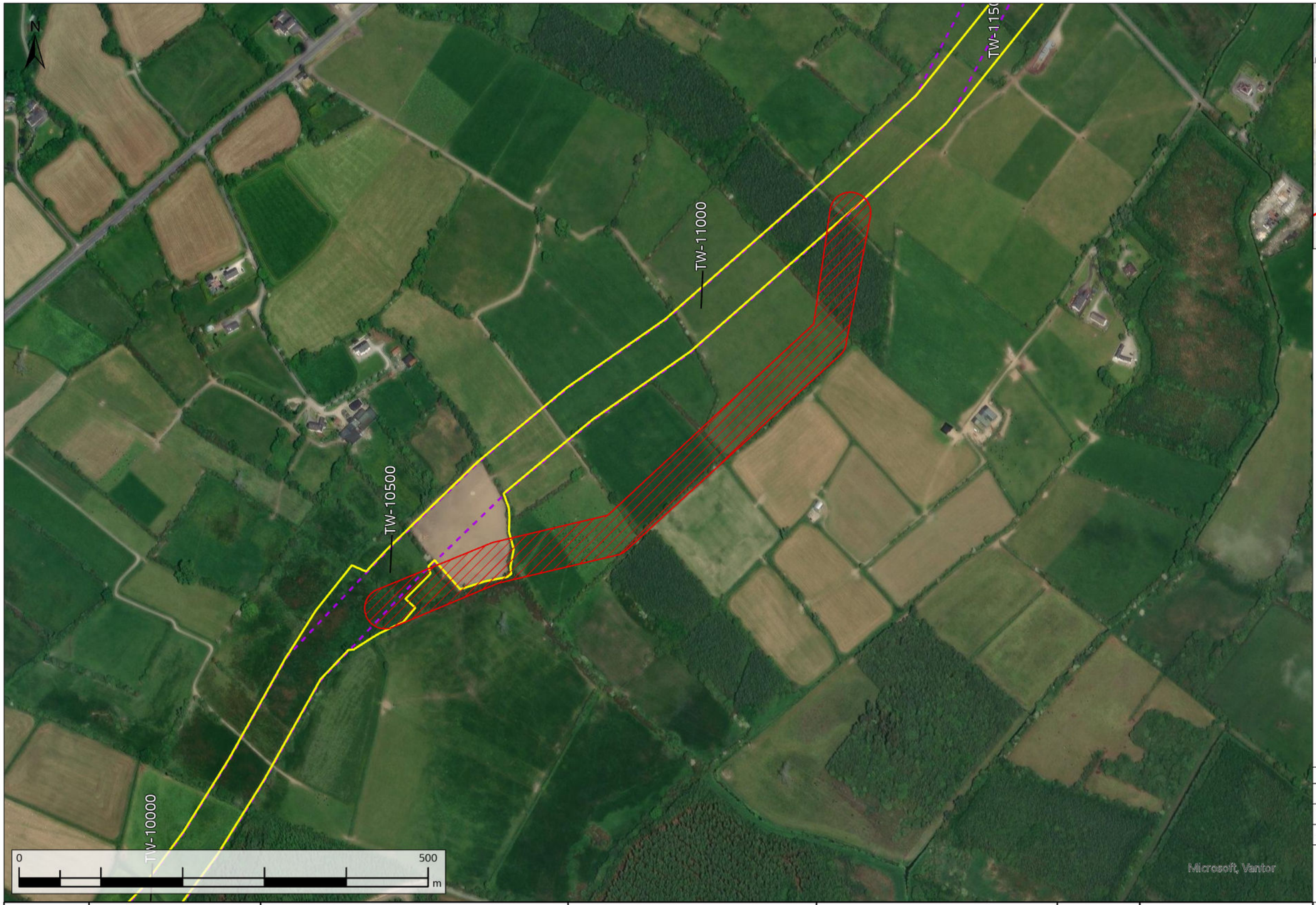
Drawing Title: REROUTE MAPPING

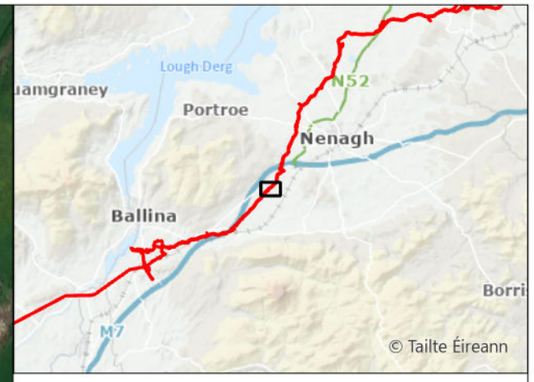
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FIGURE 14





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL036 TW-10450	Landowner Reroute Request - alignment amendment to the southeast to avoid splitting land and run closer to the field boundaries.	Environmentally less favourable. The proposed reroute would cross the waterbody at an acute angle and therefore a larger section of watercourse would be disturbed.	Not technically acceptable. Rejected reroute would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Landowners have been consulted.	Not facilitated	Reroute request was not facilitated due to the requirement for retaining an acceptable pipeline alignment and to reduce effects on WFD waterbody.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

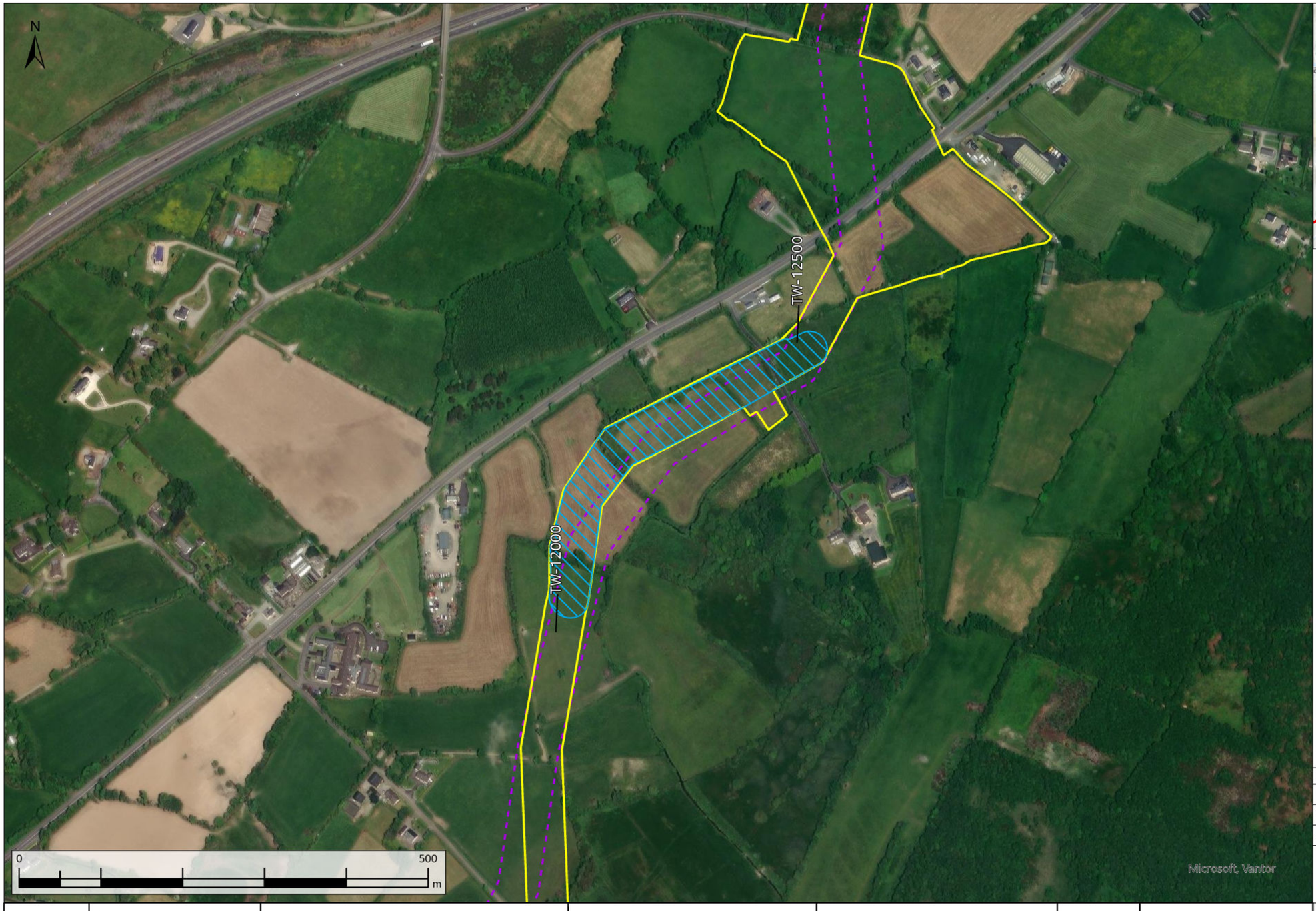
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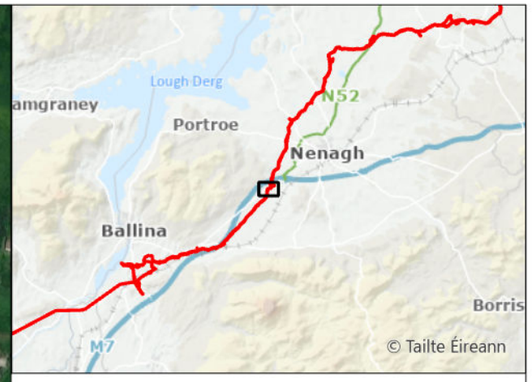
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FIGURE 15

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL038 TW-12000	Technical Reroute Request - alignment amendment to the northwest to run closer to the field boundaries to avoid pipeline running beneath overhead power lines.	Less favourable reroute environmentally. The reroute would cross land which was classified as improved agricultural grassland (GA1) during the field survey undertaken in 2020 (local importance). Mitigation measures could be required as the reroute intersects a drainage ditch, treeline and hedgerow which should be maintained as there is potential for protected species.	No technical objection. It is proposed to reroute the pipeline north within the previously impacted fields in order to avoid a clash with overhead power lines.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, avoiding the clash with overhead power lines.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

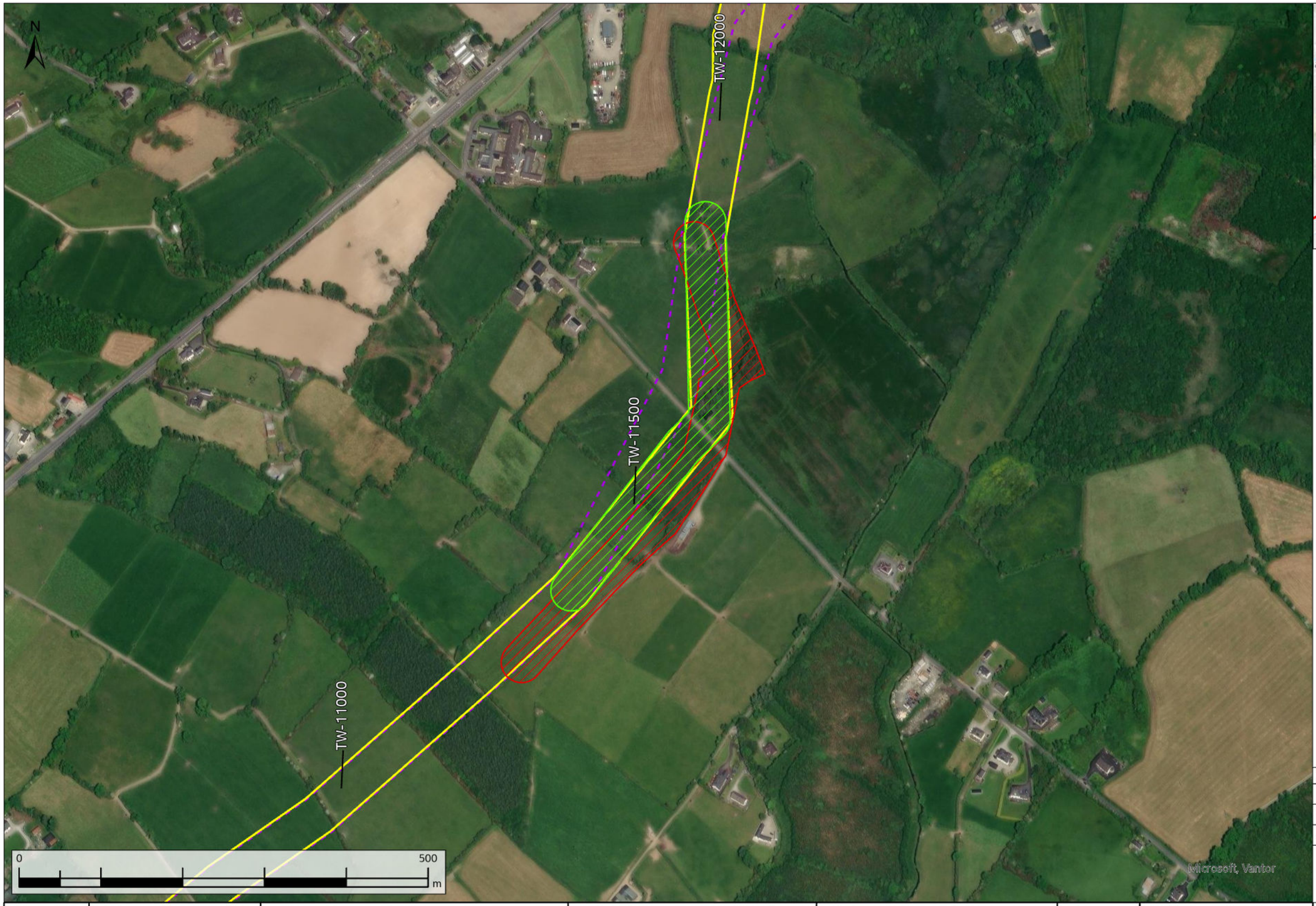
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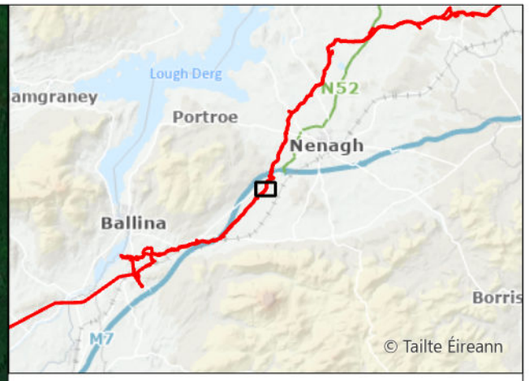
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FIGURE 16

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL039 TW-11450	Landowner Reroute Request - alignment amendment options to the southeast to run closer to the southeastern field boundaries.	Partially facilitated reroute - no environmental objection. Rejected reroute runs adjacent to a WFD designated waterbody. A separation distance should be maintained to the waterbody.	Partially facilitated reroute - no technical objection. Rejected option would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowner has been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Request has been partially facilitated. The full reroute request could not be accomodated due to the need to maintain a suitable pipeline alignment and address environmental constraints.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

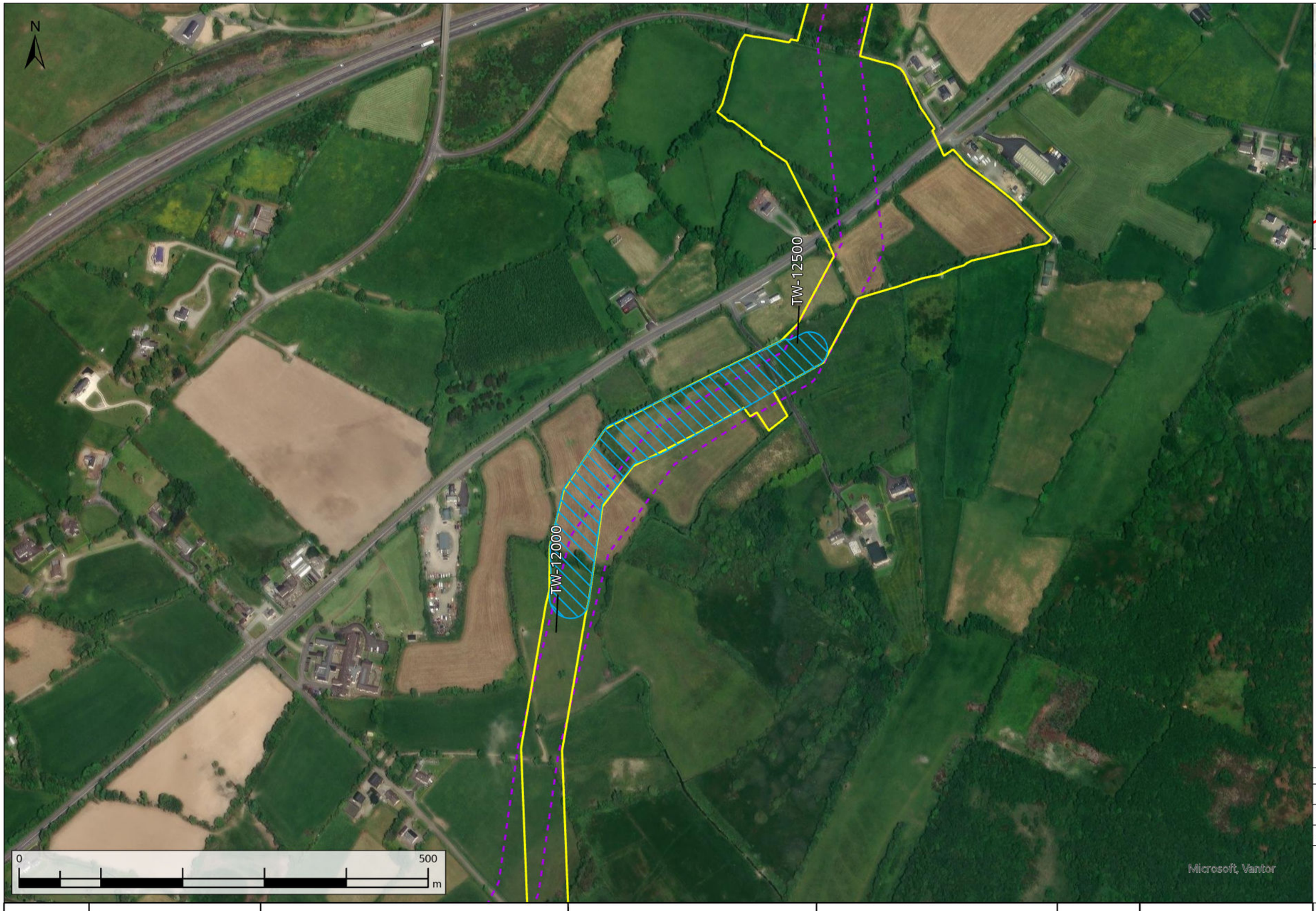
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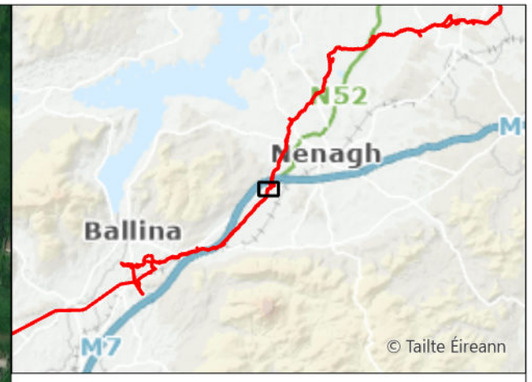
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FIGURE 17

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL040 TW-12200	Technical Reroute Request - alignment amendment to the northwest to run closer to the field boundaries to avoid pipeline running beneath overhead power lines.	Less favourable reroute environmentally. The reroute would cross land which was classified as wet grassland (GS4) during the field survey undertaken in 2020 (local importance). Mitigation measures could be required as the reroute intersects treeline/hedgerow which should be maintained as there is potential for protected species.	No technical objection. It is proposed to reroute the pipeline north within the previously impacted fields in order to avoid a clash with overhead power lines.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, avoiding the clash with overhead power lines.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

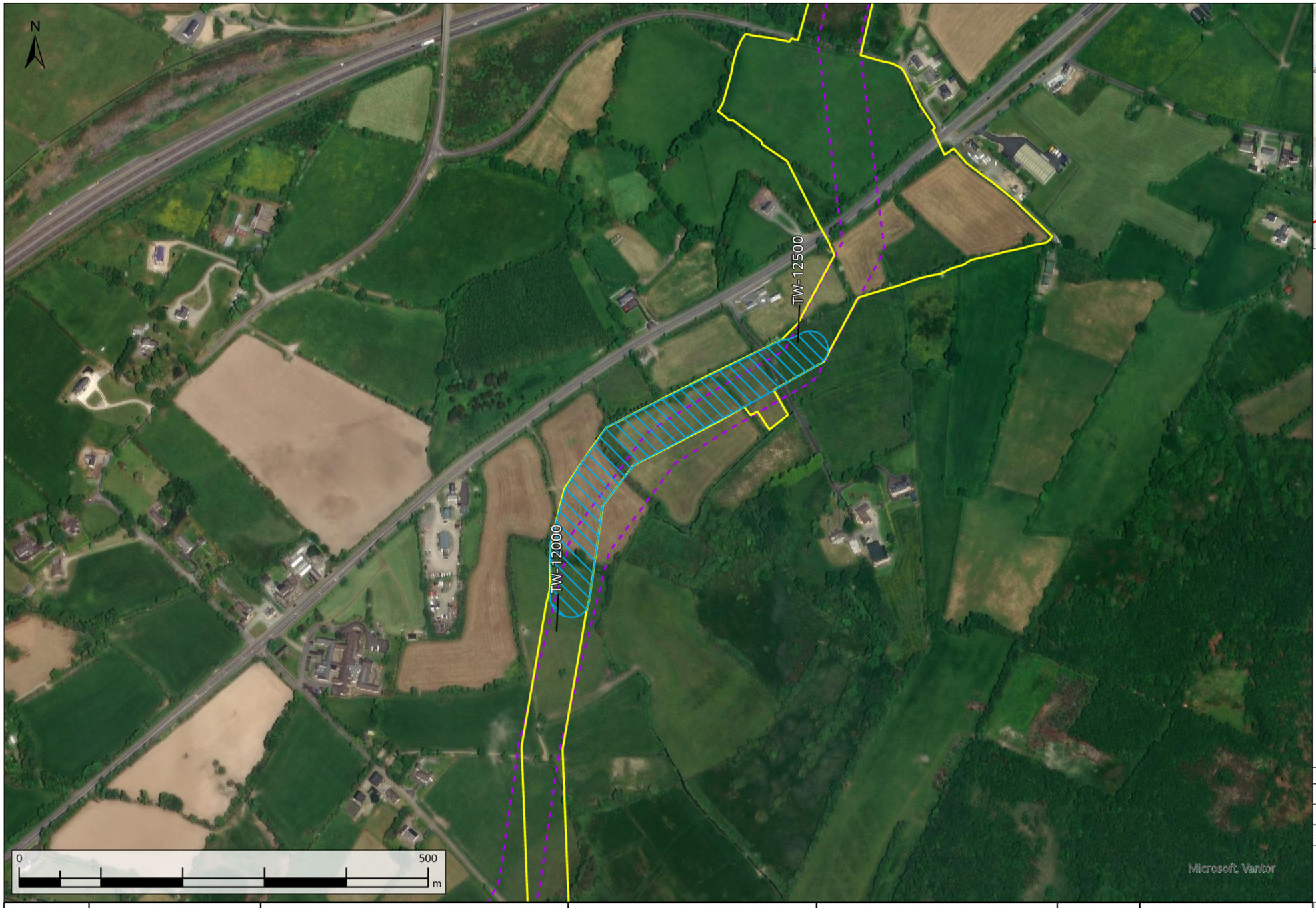
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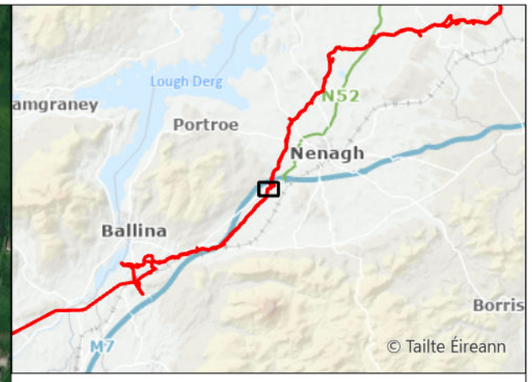
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FIGURE 18

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL041 TW-12400	Technical Reroute Request - alignment amendment to the northwest to run closer to the field boundaries to avoid pipeline running beneath overhead power lines.	Less favourable reroute environmentally. The reroute would cross land which was classified as wet grassland (GS4) during the field survey undertaken in 2020 (local importance). Mitigation measures could be required as the reroute intersects treeline/hedgerow which should be maintained as there is potential for protected species.	No technical objection. It is proposed to reroute the pipeline north within the previously impacted fields in order to avoid a clash with overhead power lines.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, avoiding the clash with overhead power lines.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

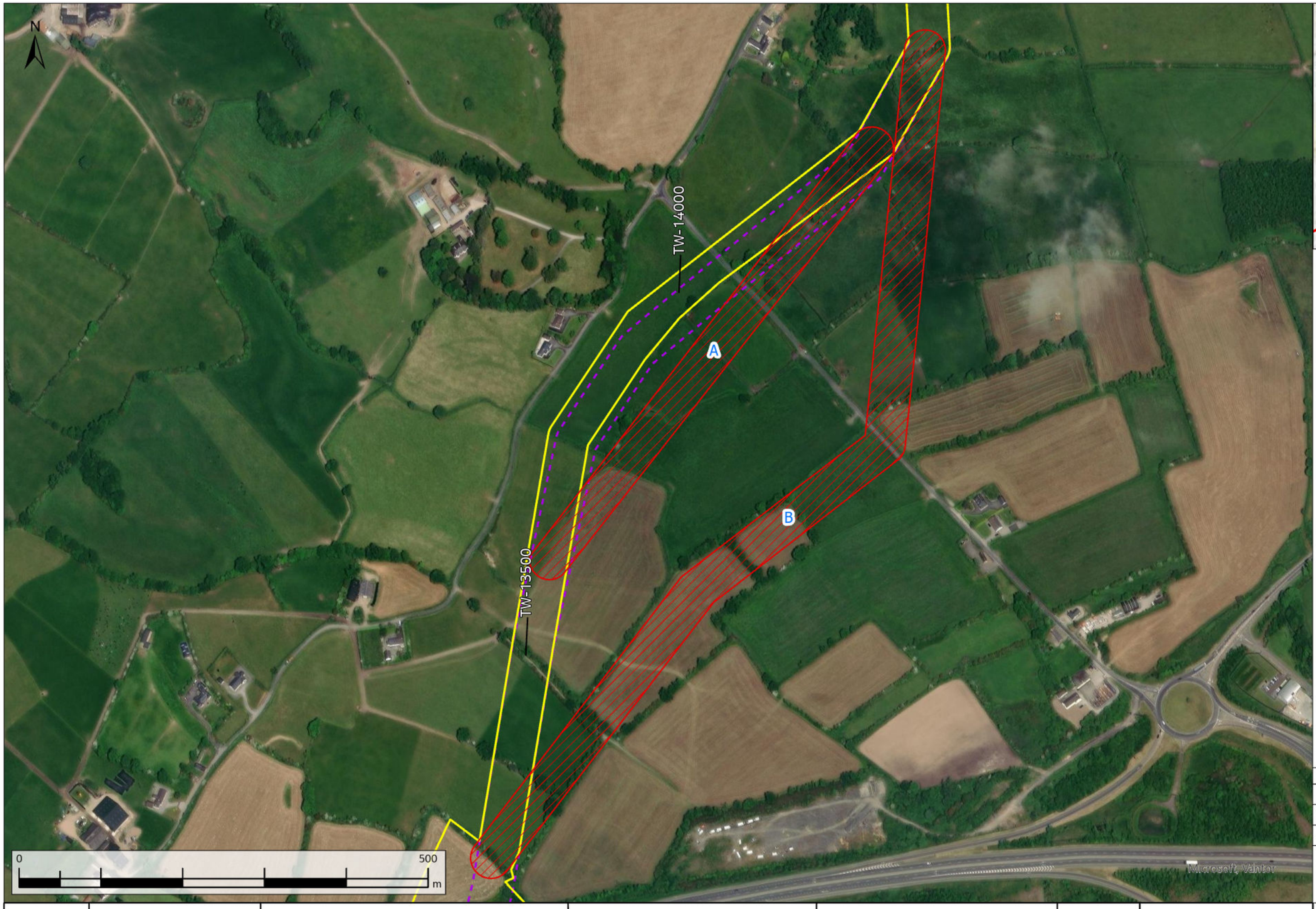
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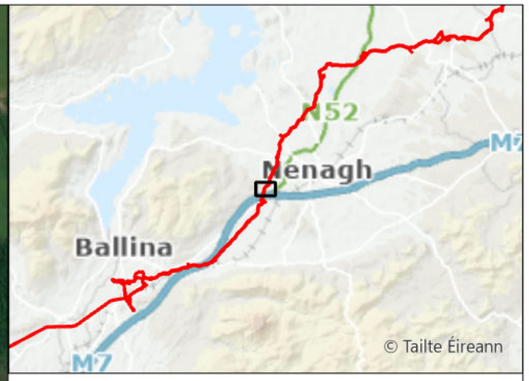
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FIGURE 19

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL045 TW-14000	Landowner Reroute Request - alignment amendment to the southeast - Option A to move the pipe to the south of the field off the brow of the hill and Option B to move further south to avoid landowner's land.	Both reroute options A and B are less favourable environmentally. The reroutes would cross the Kilcolman 25 (stream). Mitigation measures could be required to ensure no adverse significant residual impacts on the watercourse.	Both reroute options would be technically less favourable compared with the proposed alignment, requiring additional fittings along the reroute to facilitate the stream crossings.	Option A would impact on both neighbouring landowners. Option B would impact on additional landowners who were not previously consulted.	Not facilitated	Reroutes were not facilitated as they would introduce additional river crossings which would increase environmental impact and technical difficulty. Option A would impact on neighbouring landowners and Option B would introduce new landowners.

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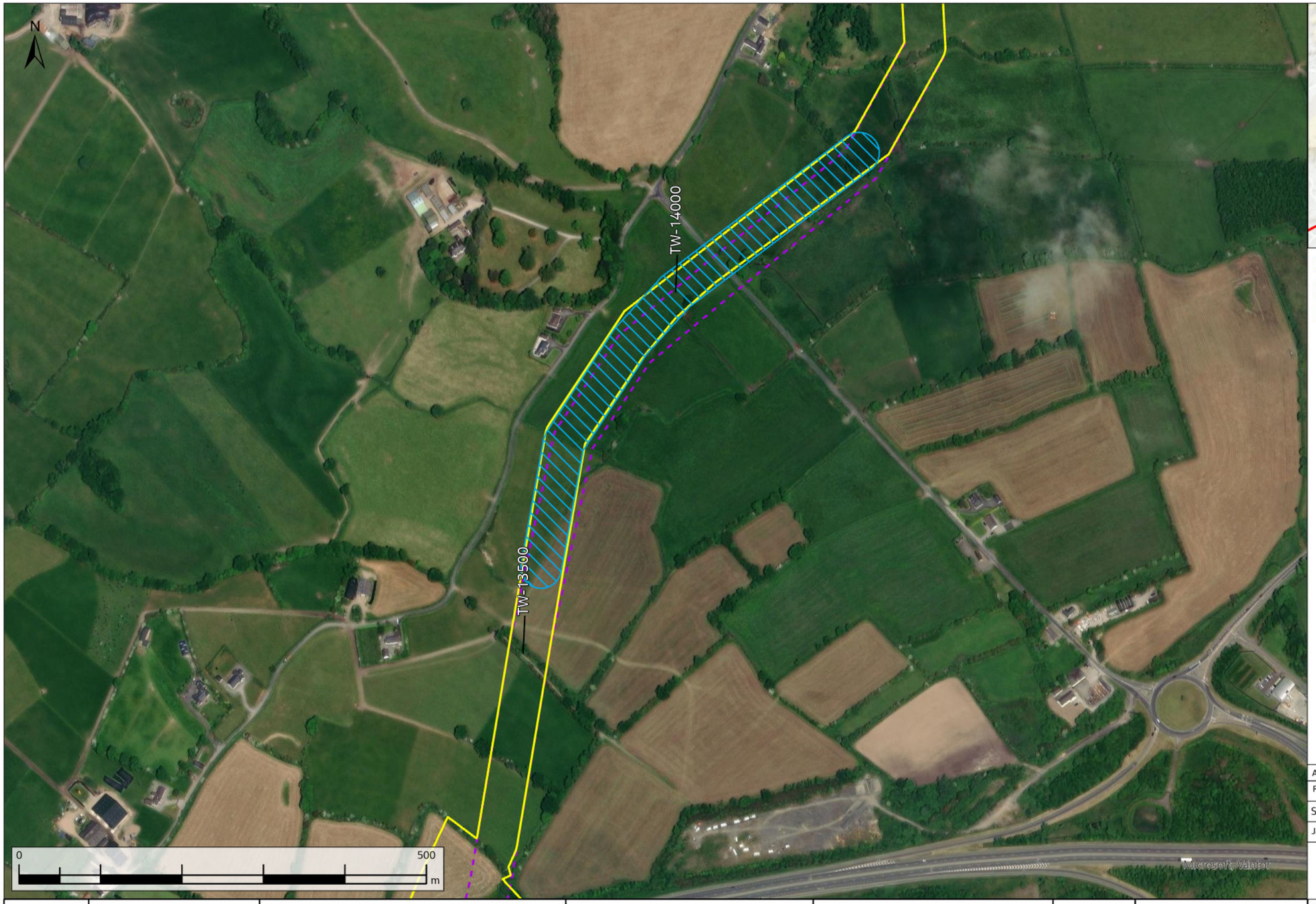
Drawing Title: REROUTE MAPPING

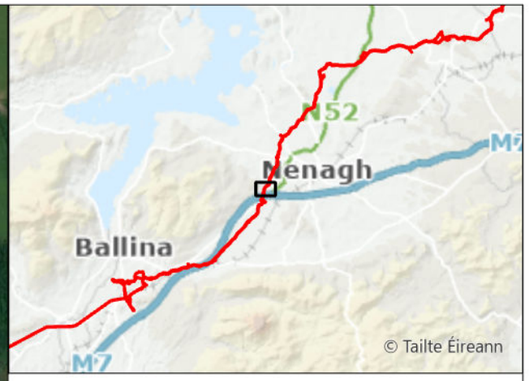
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FIGURE 20





- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL045	Technical Reroute Request - alignment amendment to the north to avoid land drain and ditch.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.
TW-14000						

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

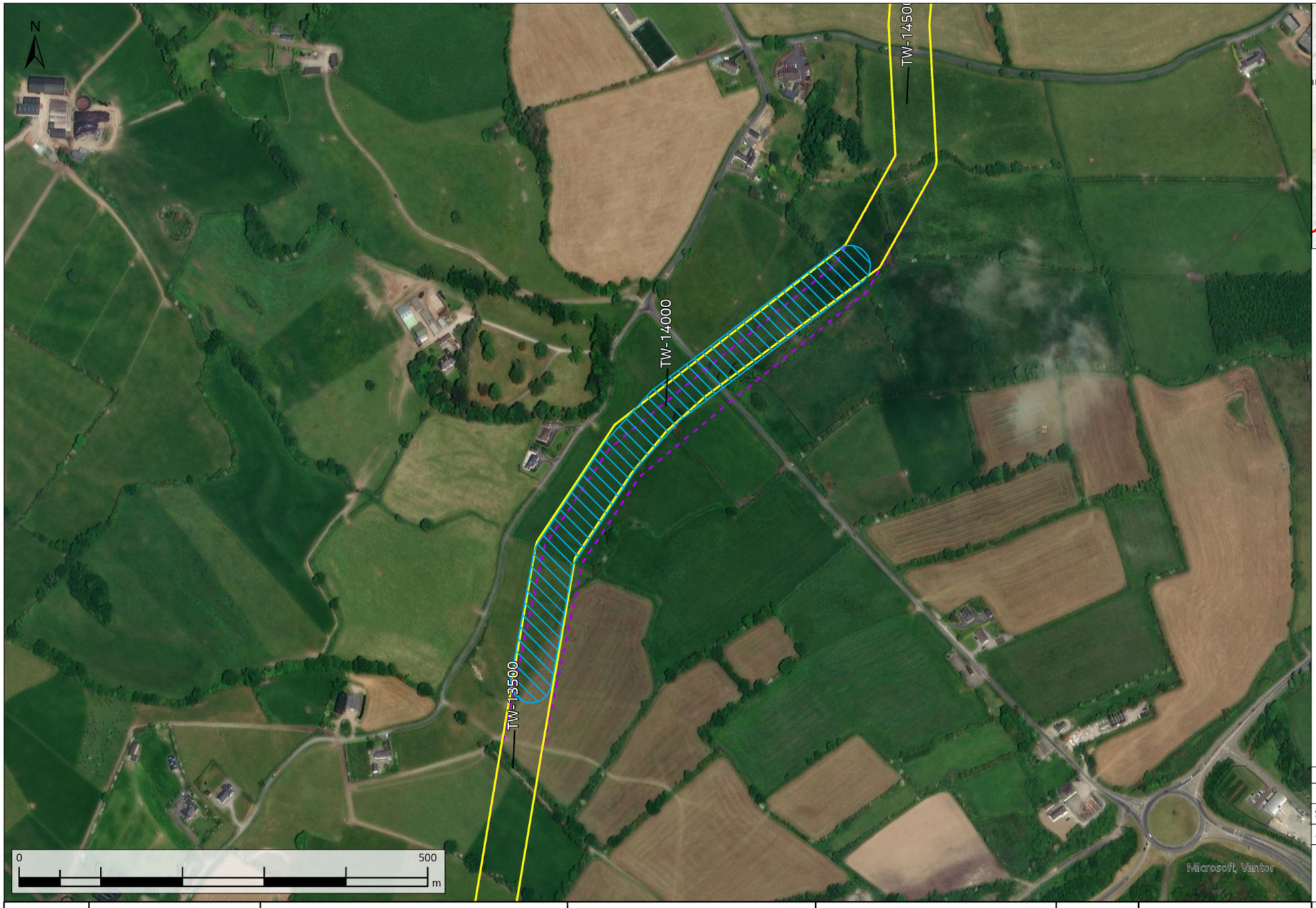
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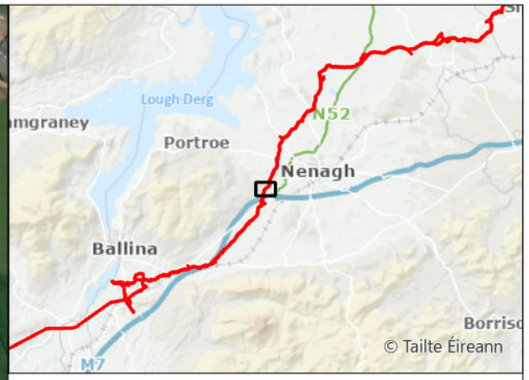
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FIGURE 21





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL046	Technical Reroute Request - alignment amendment to the north to avoid land drain and ditch.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.
TW-14000						

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

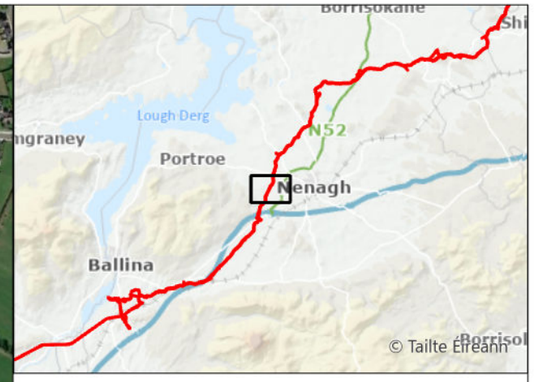
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FIGURE 22





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL049 TW-15750	Landowner Reroute Request - original reroute request was to follow river and avoid gallop (Option A). Subsequent reroute request to avoid gallop (Option B and C).	Partially facilitated reroute - no environmental objection. There would remain an impact on the gallop and mitigation required. Rejected reroutes - not environmentally acceptable: Option A: would cross the Ardgregane Stream and hedgerow at an acute angle which creates additional disruption to these ecological receptors. Option B: would run parallel with the stream for approximately 450m and difficult to maintain an appropriate separation distance between the Construction Working Width and the watercourse, therefore it could be difficult to mitigate the impacts. Option C: outside the current surveyed area and would need to survey the new area. Ecological constraints are unknown, with potential for impacts on badgers along the treelines/hedgerows and otters along a new section of an existing watercourse.	Partially facilitated reroute - no technical objection. Rejected reroute options A and B would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies. Reroute option C would improve horizontal alignment as it is straighter than the original route and skirts the gallop and hence the site access road could remain open to service the trenchless crossing to the south.	Partially facilitated reroute does not impact on adjacent landowners. Rejected reroute options A and B would impact on 2 additional landowners who were not previously consulted with. Rejected reroute option C would introduce impacts to 3 additional landowners who were not previously consulteded with. Following engagement with the additional landowners, none supported the reroute.	Partially facilitated	Request has been partially facilitated as full facilitation would be limited by a combination of environmental, technical and landowner considerations.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

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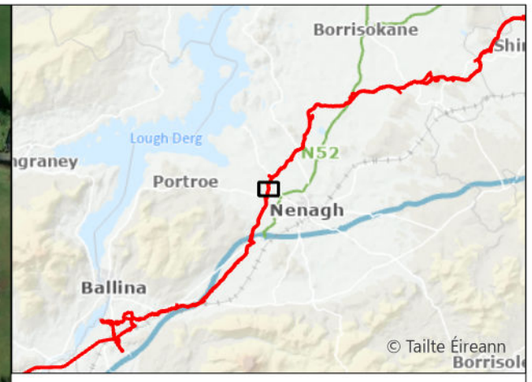
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FIGURE 23

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL054 TW-17400	Landowner Reroute Request - alignment amendment to the west to avoid area of broadleaved woodland.	No environmental objection. Reroute would avoid designated woodland area and reduce the loss of broadleaved woodland and reduce biodiversity loss.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated and reroute will reduce the impact on the designated woodland area.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

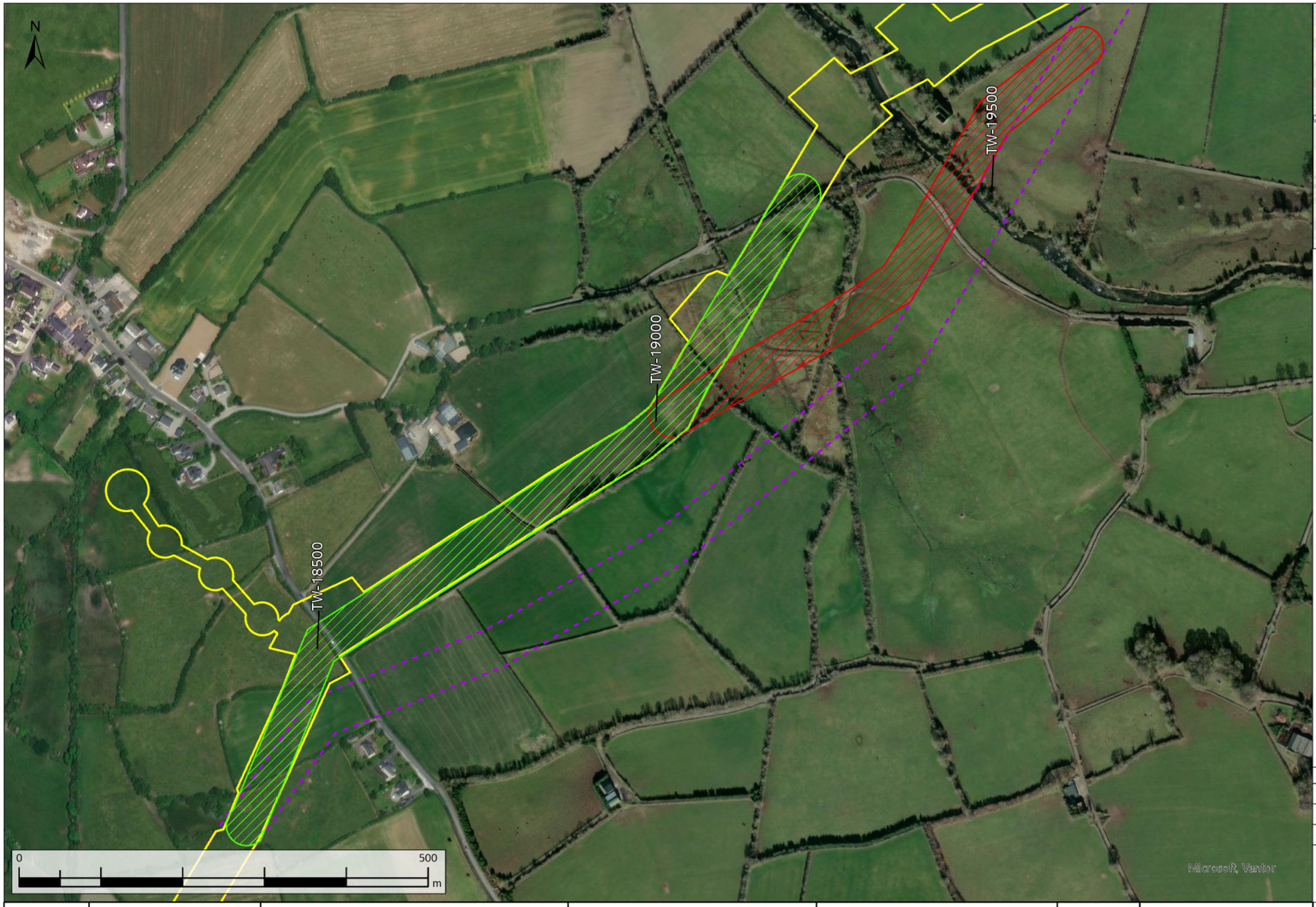
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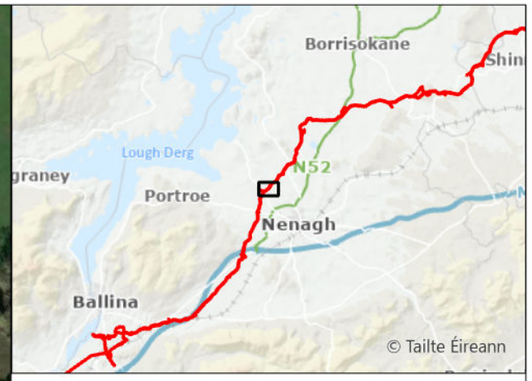
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FIGURE 24





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL057 TW-18300	Landowner Reroute Request - alignment amendment to the north to avoid low point in surrounding land that floods during winter months. Landowner has requested to reroute 15-20m away from existing property.	No environmental objection.	No technical objection.	Landowner has been consulted and proposed reroute has been partially facilitated. Adjacent landowner submitted a request which tied in with the above reroute request.	Partially facilitated	Request partially facilitated in conjunction with request from neighbouring landowner, retaining an acceptable alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

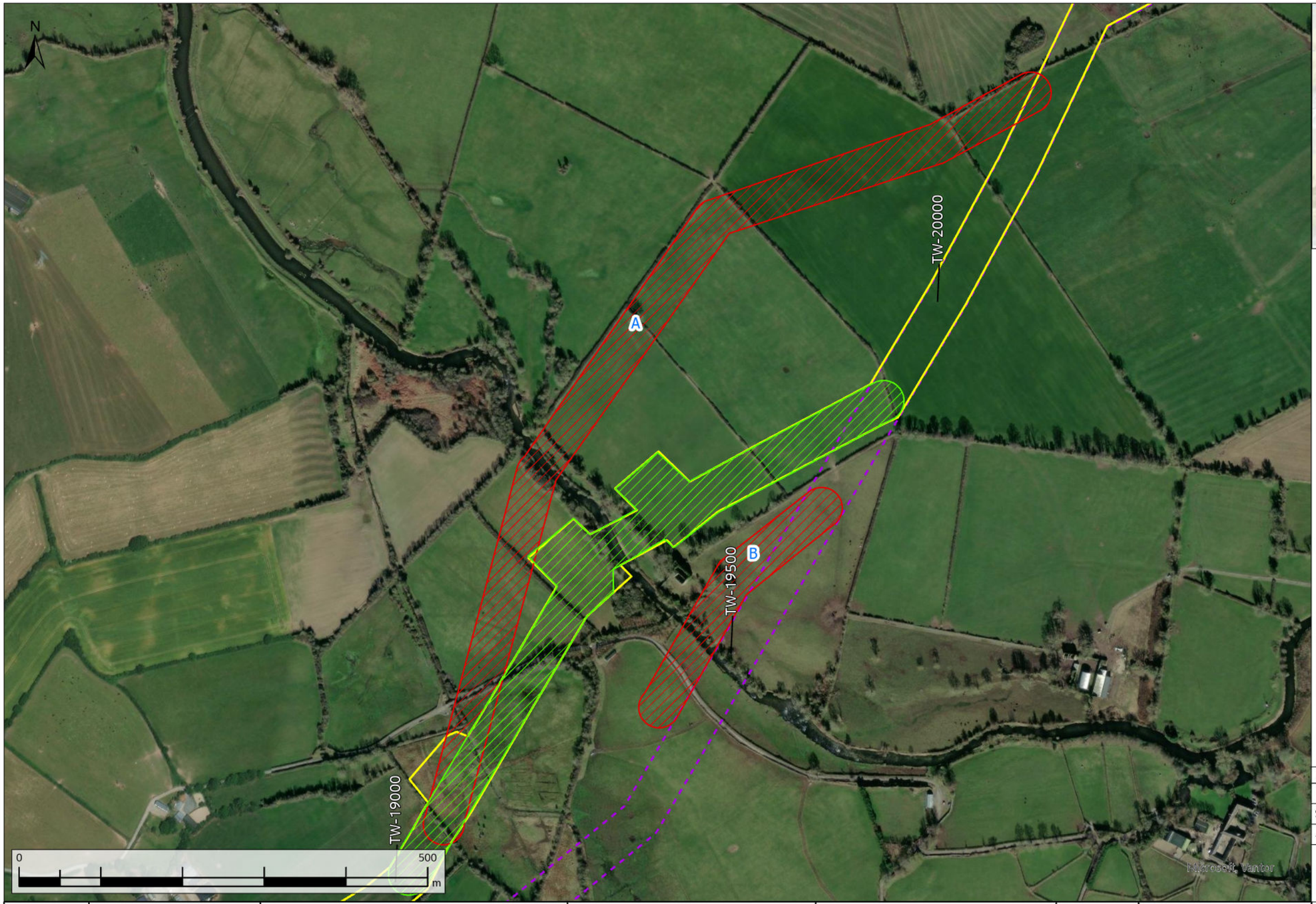
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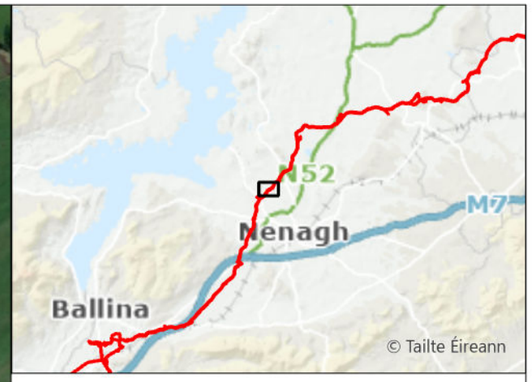
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FIGURE 25

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL058 TW-19150	Landowner Reroute Request - alignment amendment to the north to avoid disruption to stud farm.	Partially facilitated reroute - no environmental objection. The impacts on existing stud farm would be better served if the reroute was adopted. Option B not archaeologically acceptable. This reroute option would come into close proximity with a site of recorded archaeological significance: RMP TN014-063/RPS S580.	Rejected reroute Option A would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity.	Partially facilitated reroute introduces a new landowner who has been consulted and accepted the reroute. Both adjacent landowners have also been consulted and accepted the reroute.	Partially facilitated	Request has been partially facilitated following consultation with adjacent landowners. Reroute avoids an archaeological feature and maintains an acceptable alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

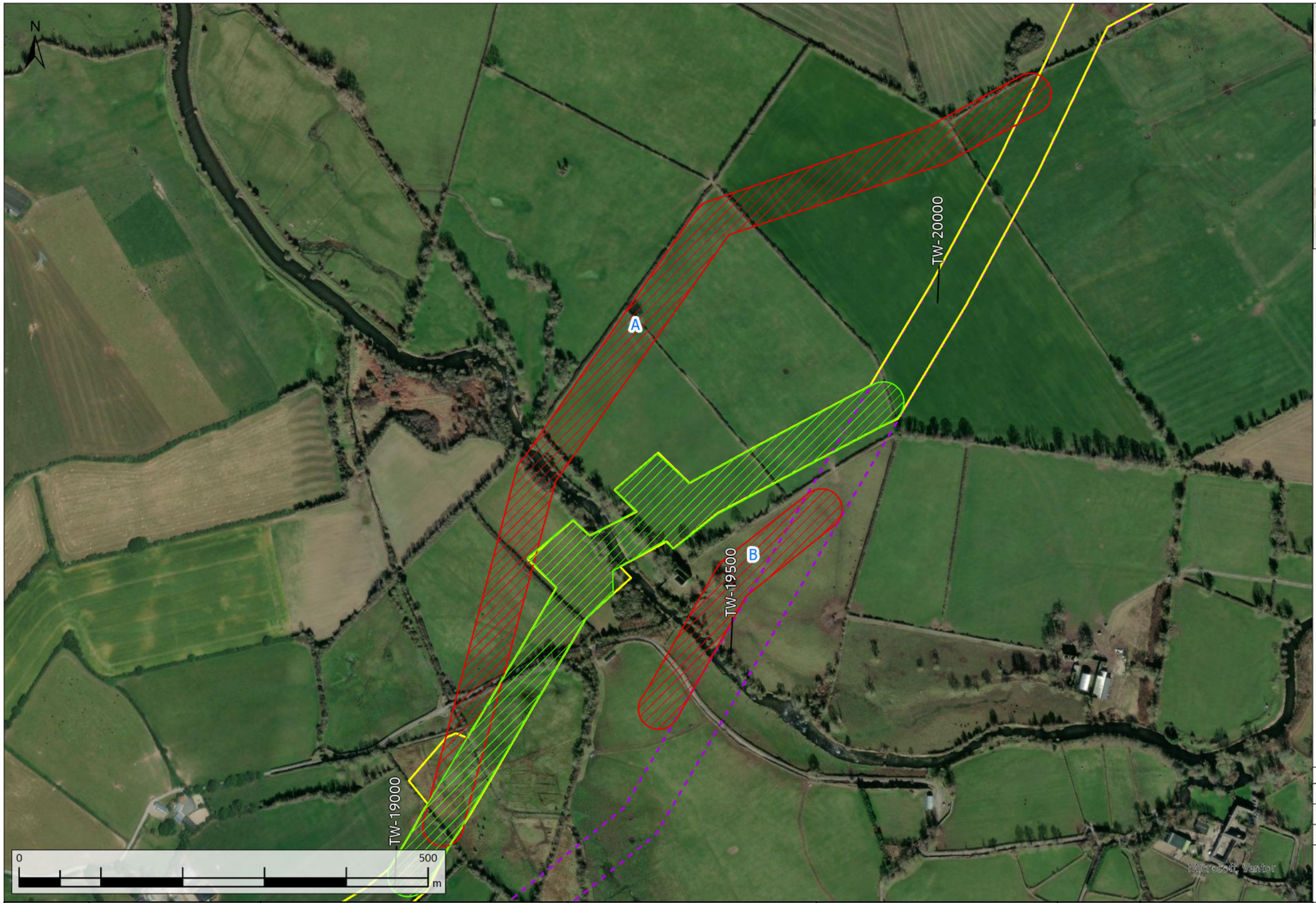
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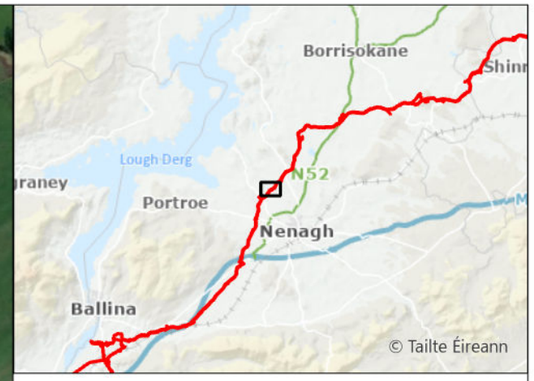
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FIGURE 26

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL059 TW-19350	Landowner Reroute Request - alignment amendment options to the north to avoid the farmyard.	Partially facilitated reroute - no environmental objection. The impacts on existing stud farm would be better served if the reroute was adopted. Option B not archaeologically acceptable. This reroute option would come into close proximity with a site of recorded archaeological significance: RMP TN014-063/RPS S580.	Rejected reroute Option A would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity.	Landowner has been consulted and proposed reroute has been partially facilitated. Adjacent landowner submitted a request which tied in with the above reroute request.	Partially facilitated	Request has been partially facilitated following consultation with adjacent landowners. Reroute avoids an archaeological feature and maintains an acceptable alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

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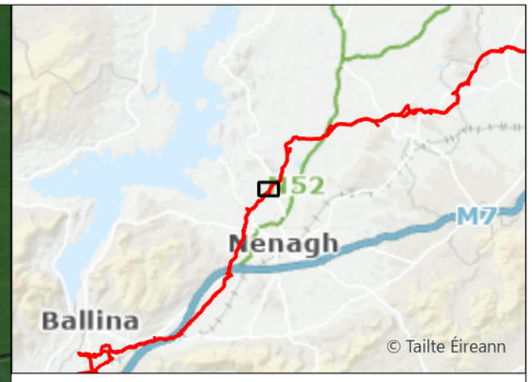
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FIGURE 27

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL064 TW-20950	Landowner Reroute Request - alignment amendment to the north.	No environmental objection.	No technical objection.	Rejected - adjacent landowner has been consulted and did not support the reroute coming closer to the existing property.	Not facilitated	Request not facilitated as the adjacent landowner did not support the reroute coming closer to the existing property.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

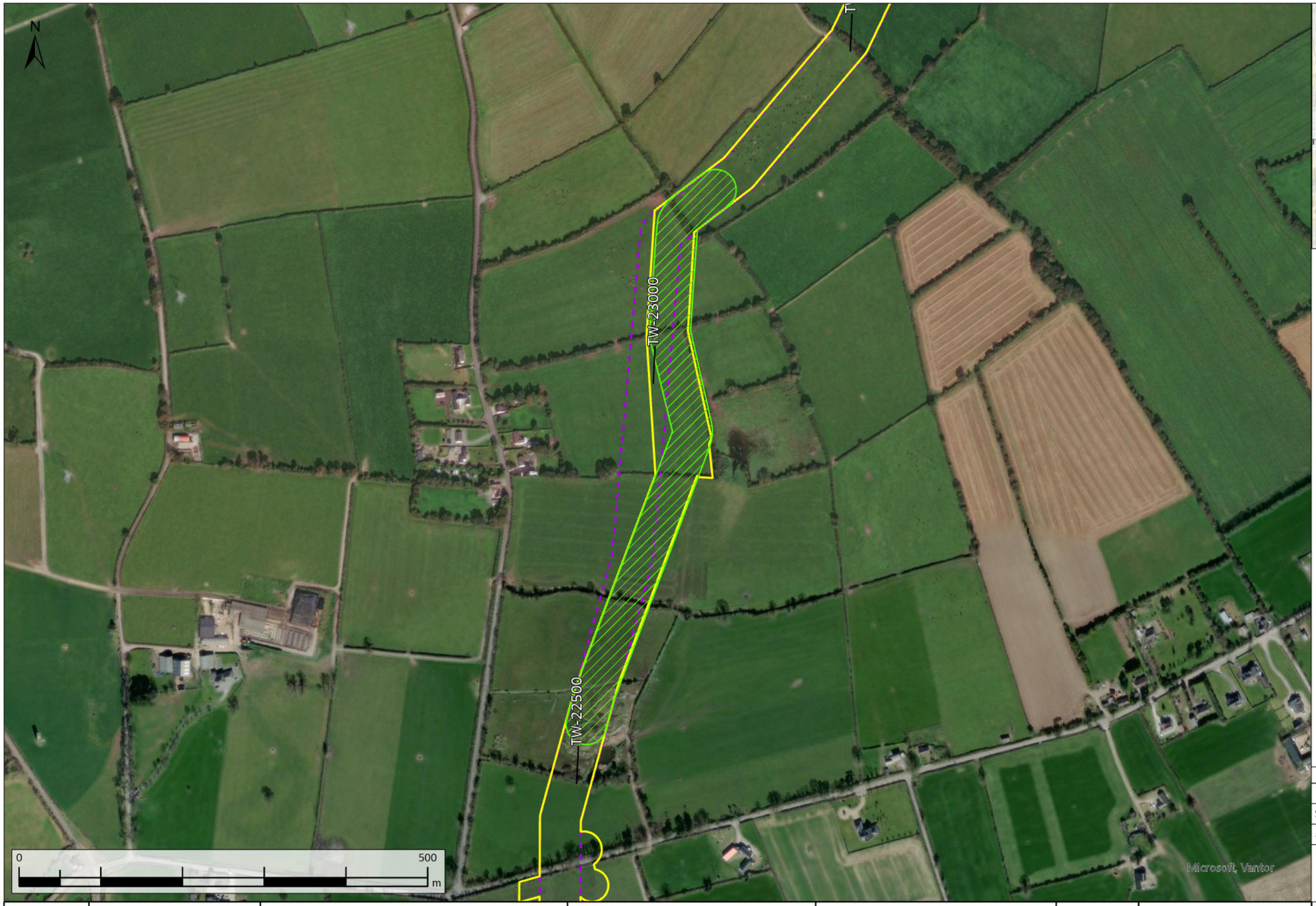
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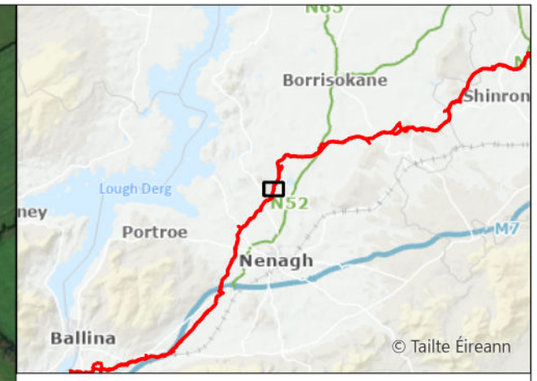
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FIGURE 28

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL068	Landowner Reroute Request - alignment amendment to the east to avoid splitting of land.	No environmental objection. Impact generally the same as original route. Slight benefit from agriculture point of view due to reduced severence.	No technical objection. The reroute would introduce additonal bends but a suitable alignment can be mainatained.	Landowners have been consulted and proposed reroute has been accepted. No additional consultation with landowners required.	Facilitated	Reroute has been facilitated.
TW-23000						

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00029

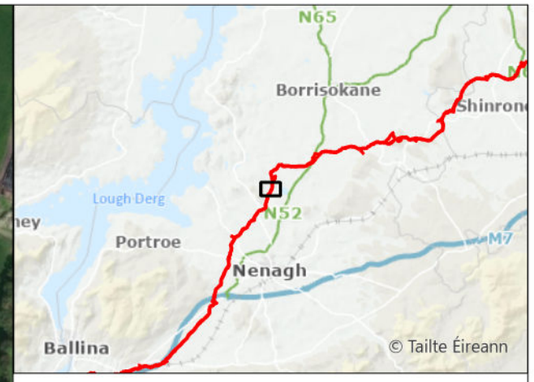
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FIGURE 29

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL070 TW-23400	Landowner Reroute Request - alignment amendment to the west to run closer to field boundaries.	Proposed reroute is not acceptable due to the proximity of existing properties.	No technical objection.	Landowners were not consulted as reroute rejected due to proximity with existing properties.	Not facilitated	Request was not facilitated due to the proximity of existing properties.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

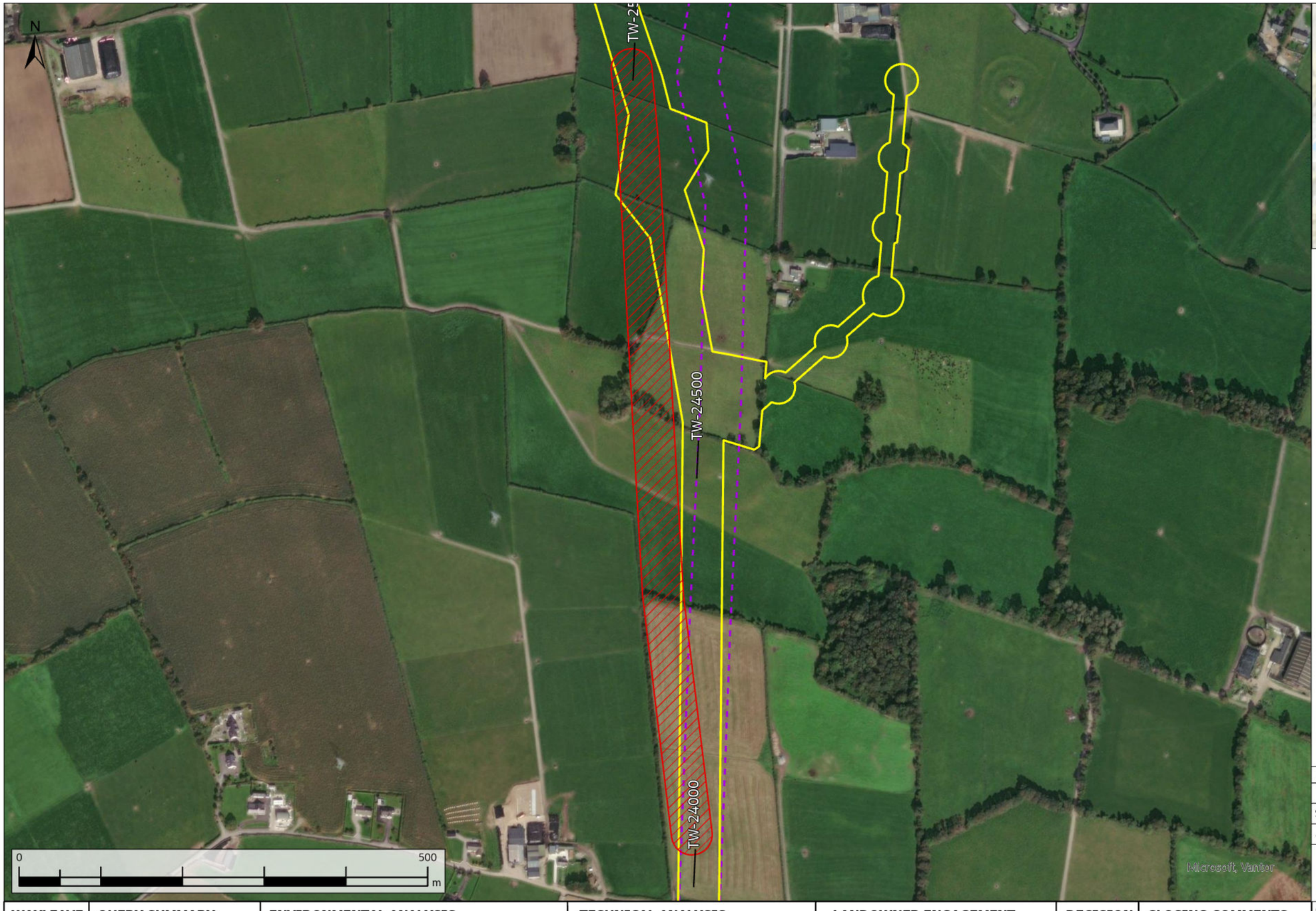
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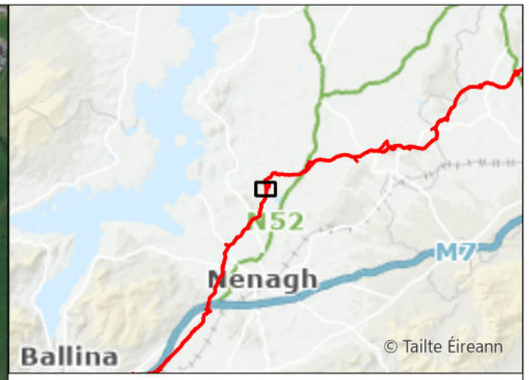
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FIGURE 30

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL071 TW-23900	Landowner Reroute Request - alignment amendment to the west to avoid splitting land and run closer to the field boundaries.	Proposed reroute not archaeologically acceptable. Reroute would come into close proximity with recorded monument to the north. Completed site surveys indicate no turlough in landowners land.	No technical objection.	Adjacent landowner has been consulted.	Not facilitated	Request was not facilitated as the route could not be moved west due to the proximity of a recorded monument to the north.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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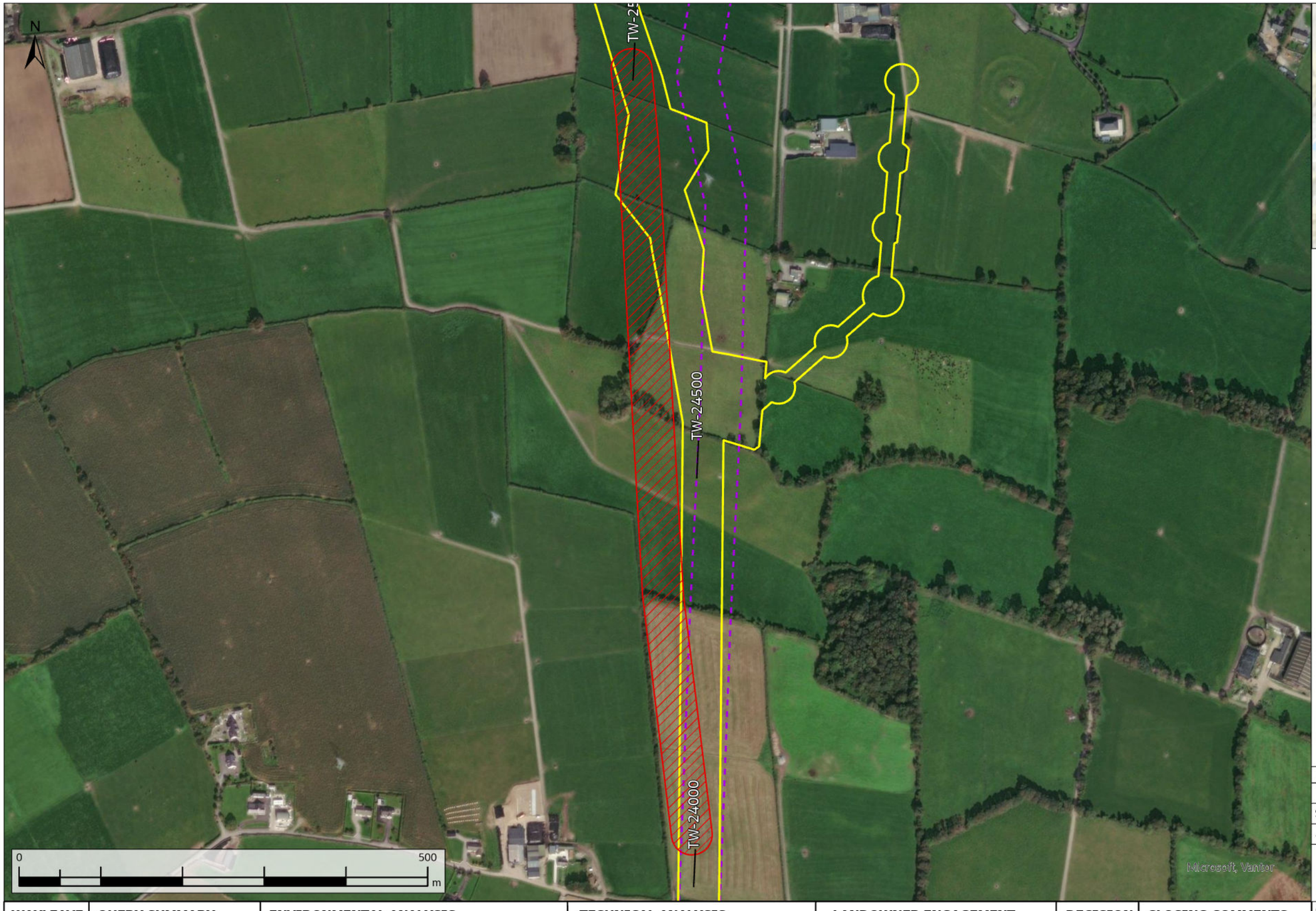
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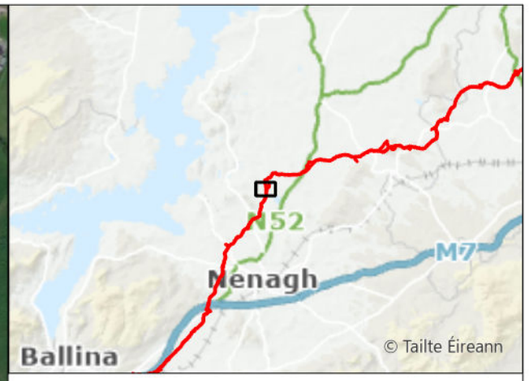
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FIGURE 31





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL072 TW-24300	Landowner Reroute Request - alignment amendment to the west to avoid splitting land and run closer to the field boundaries.	Proposed reroute not archaeologically acceptable. Reroute would come into close proximity with recorded monument to the north.	No technical objection.	Adjacent landowner has been consulted.	Not facilitated	Request was not facilitated as the route could not be moved west due to the proximity of a recorded monument to the north.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

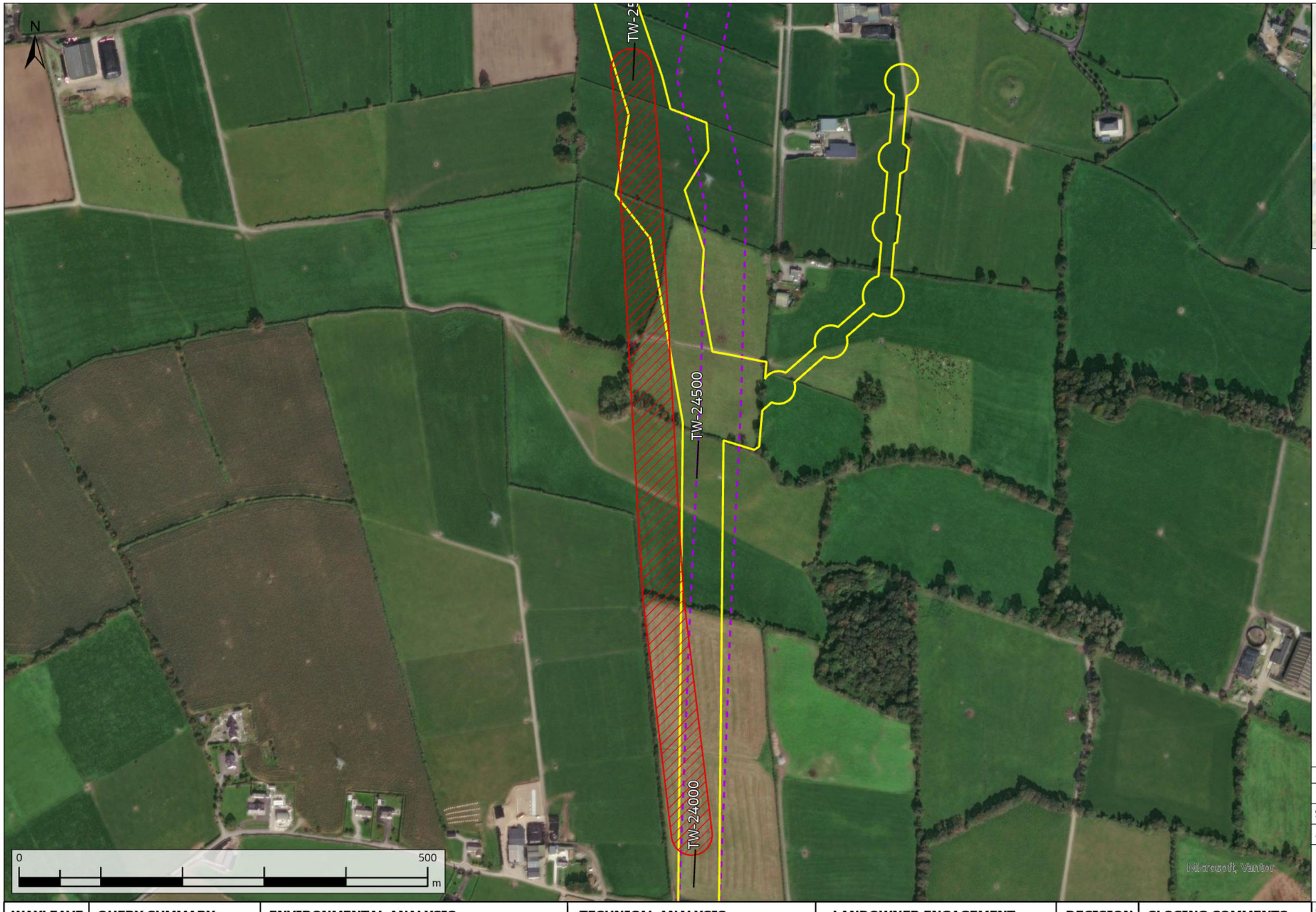
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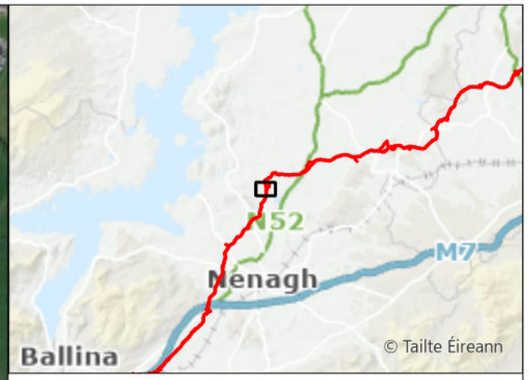
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FIGURE 32





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL073 TW-24500	Landowner Reroute Request - alignment amendment to the west to avoid splitting land and run closer to the field boundaries.	Proposed reroute not archaeologically acceptable. Reroute would come into close proximity with recorded monument to the north.	No technical objection.	Adjacent landowner has been consulted.	Not facilitated	Request was not facilitated as the route could not be moved west due to the proximity of a recorded monument to the north.

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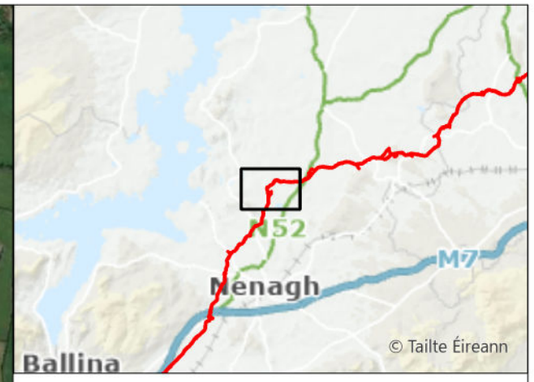
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FIGURE 33





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL074 TW-24800	Landowner Reroute Request - alignment amendment to the west to run closer to field boundaries.	Facilitated reroute would avoid archaeological features in close proximity and the potential presence of Turlough as far as reasonably practicable. It does not completely avoid the potential Turlough due to other constraints / technical requirements.	No technical objection to partially facilitated reroute. Constraints in the area include a pylon to the north of the reroute, archaeology, hydrology and a landowner's driveway, which all prohibit further realignment.	Adjacent landowner has been consulted and proposed reroute has been accepted. Partially facilitated reroute to suit the request of the landowner and of the adjacent landowner to the north.	Partially facilitated	Request has been partially facilitated and takes account of multiple constraints including potential Turlough and archaeological features.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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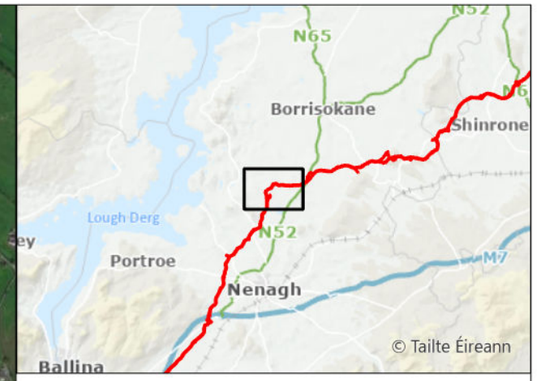
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FIGURE 34

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL076 TW-25700	Landowner Reroute Request - alignment amendment to the north to avoid existing landowner's property. Reroute to consider the presence of a turlough.	Facilitated reroute would avoid archaeological features in close proximity and the potential presence of Turlough as far as reasonably practicable. Rerouting options are limited by the presence of archaeological features in close proximity to the reroute.	No technical objection to partially facilitated reroute. The rejected reroute option would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowner has been consulted and proposed reroute has been accepted. Partially facilitated reroute to suit the request of the landowner and of the adjacent landowner to the south.	Partially facilitated	Request has been partially facilitated and takes account of multiple constraints including potential Turlough and archaeological features.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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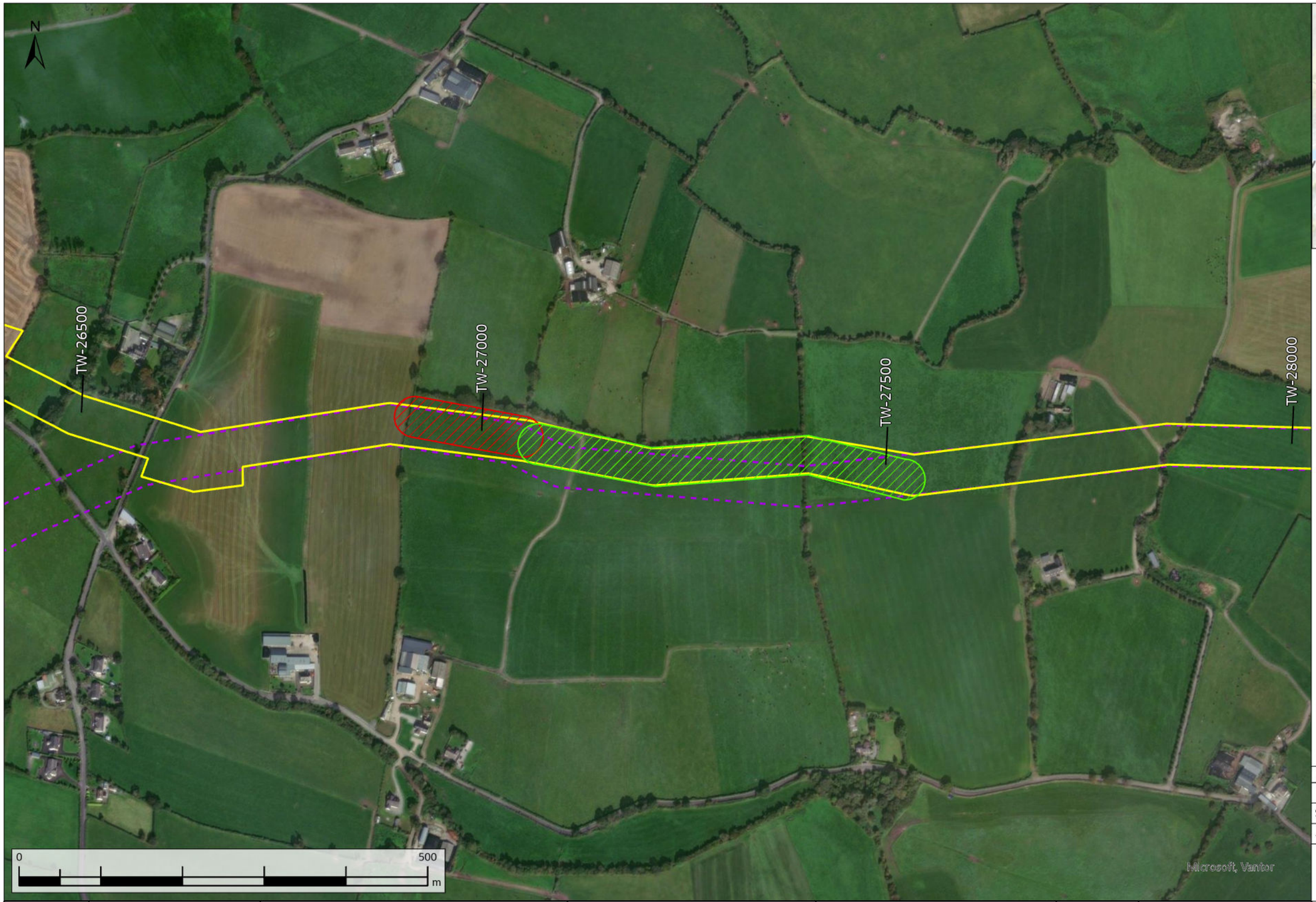
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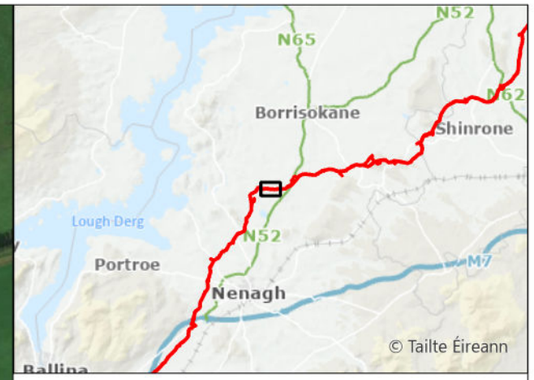
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FIGURE 35





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL078 TW-26900	Landowner Reroute Request - alignment amendment to the north to avoid a ditch.	Rejected reroute - less favourable from an ecological perspective due to sensitivity habitat in the corner of the field. Partially facilitated reroute - no environmental objection. Mitigation measures could be required as the reroute would impact a badger sett.	No technical objection.	Adjacent landowner has been consulted and reroute has been partially facilitated.	Partially facilitated	Request has been partially facilitated. Full reroute could not be accomodated because of the ecological impact.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

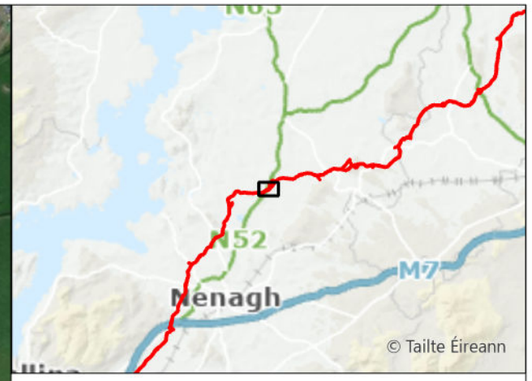
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FIGURE 36





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL081 TW-28700	Technical Reroute Request - alignment amendment to the southeast to avoid crossing cut section of N52 Highway and to create a more perpendicular crossing to road alignment.	No environmental objection.	No technical objection. The proposed reroute would avoid a deep excavation that would otherwise be required to the east of the N52 to facilitate deeper tunnelling.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, reducing the depth of the tunnel crossing.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

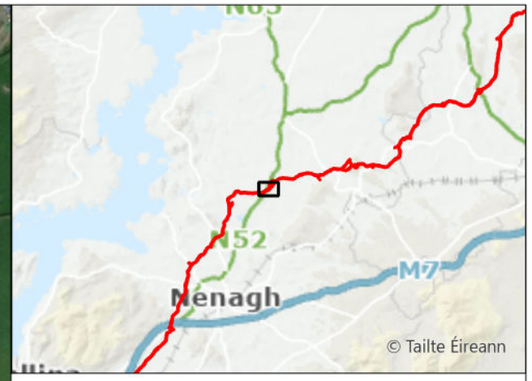
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FIGURE 37





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL082 TW-28800	Technical Reroute Request - alignment amendment to the southeast to avoid crossing cut section of N52 Highway and to create a more perpendicular crossing to road alignment.	No environmental objection.	No technical objection. The proposed reroute would avoid a deep excavation that would otherwise be required to the east of the N52 to facilitate deeper tunnelling.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, reducing the depth of the tunnel crossing.

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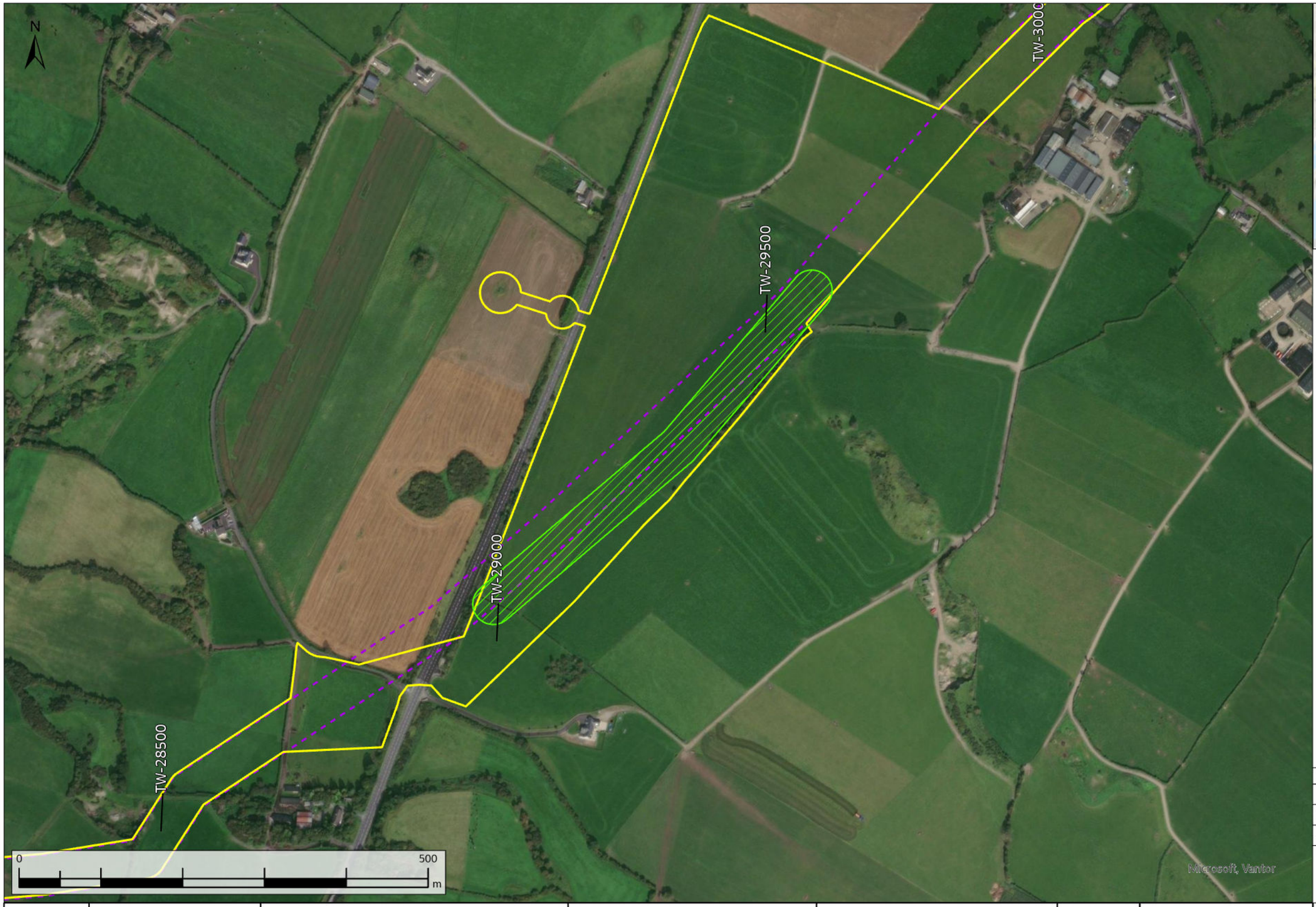
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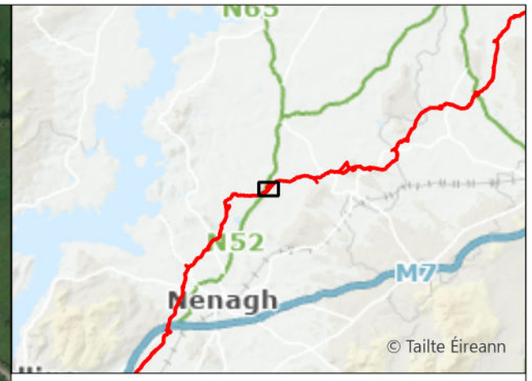
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FIGURE 38





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL083a TW-28900	Landowner Reroute Request - alignment amendment slightly to the south to run closer to the field boundary.	No environmental objection.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted. No additional consultation with landowners required. This reroute has subsequently been modified slightly to align with the reroute shown for WL083b.	Facilitated	Request facilitated to move closer to the field boundary.

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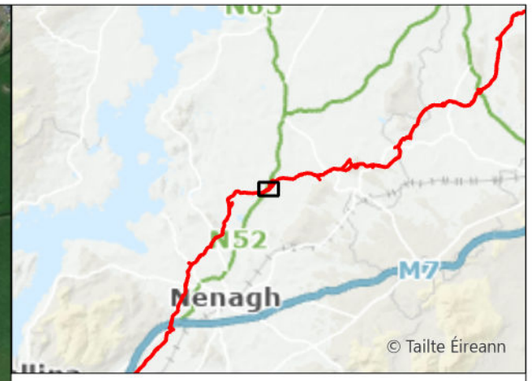
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FIGURE 39

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL083b TW-28950	Technical Reroute Request - alignment amendment to the southeast to avoid crossing cut section of N52 Highway and to create a more perpendicular crossing to road alignment.	No environmental objection.	No technical objection. The proposed reroute would avoid a deep excavation that would otherwise be required to the east of the N52 to facilitate deeper tunnelling.	The reroute would impact on 3 adjacent folios. Additional landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated, reducing the depth of the tunnel crossing.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

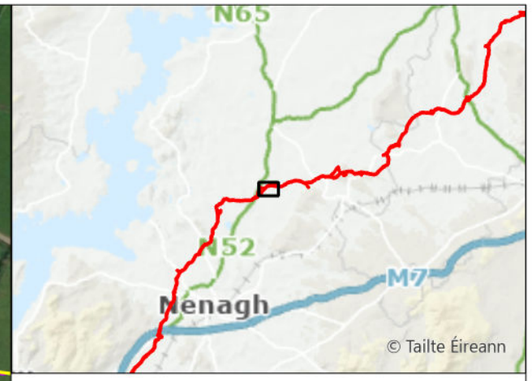
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FIGURE 40





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL085 TW-29900	Landowner Reroute Request - alignment amendment to the southeast to avoid the farmyard and to avoid impacts for future potential expansion of the farmyard.	Neither option would be ecologically acceptable. Option A - reroute would be in close proximity to an inactive badger sett and would remove additional trees used by commuting/ foraging bats. Mitigation measures could be required to address the impacts. Option B - reroute would go through a potential turlough, as outlined within OSI aerial. Adjacent landowner has advised that the land floods in the winter months.	Both reroute options technically less favourable. Both options would be constrained by existing properties and would required a limited working area, introducing pinch points. Both options could clash with existing pylons.	Rejected - adjacent landowner has expressed concern that farmyard access would be restricted and the proximity of the pipeline to the farmyard would prevent future expansion or building close to the farmyard. Landowner has requested to reroute out of their land or further away from the farmyard.	Not facilitated	Request has not been facilitated due to the impacts from either option on surrounding properties and the need to maintain suitable working areas. Option A also affects significant treelines and Option B would be at risk from a potential Turlough.

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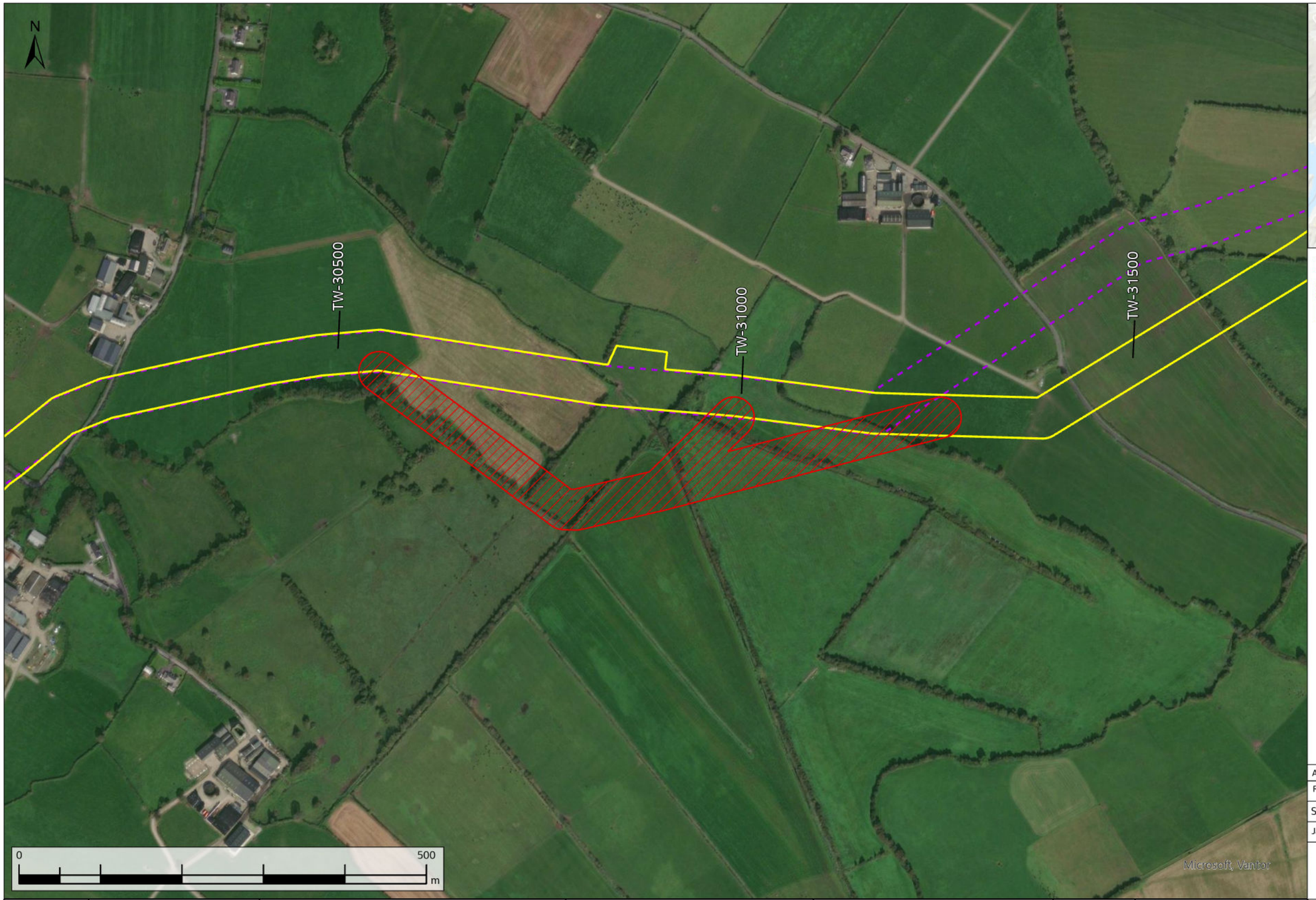
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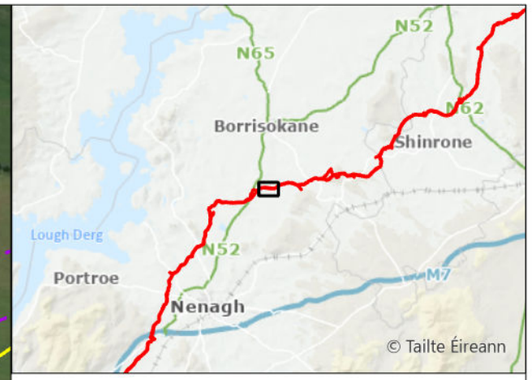
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FIGURE 41

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL086 TW-30700	Landowner Reroute Request - alignment amendment to the south to run closer to southern field boundary and reduce impacts.	Not environmentally acceptable. Proposed reroute would remove additional mature trees and would require three additional stream/drainage ditch crossings.	Reroutes would both be technically less favourable. Reroute options would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	No consultation needed with additional landowners as reroute would not be not environmentally or technically acceptable.	Not facilitated	Request has not been facilitated as rerouting the construction working width south would not be environmentally or technically acceptable.

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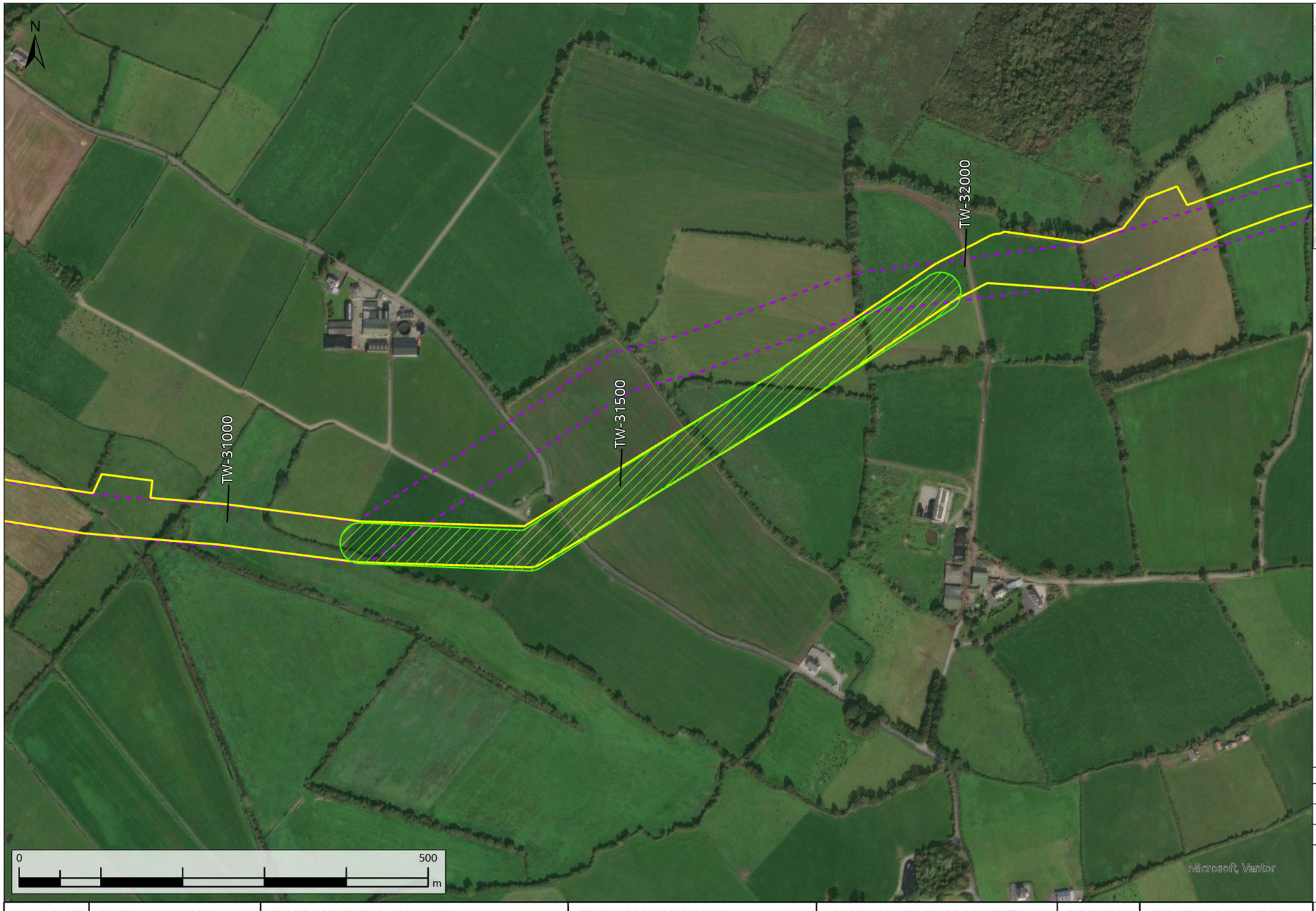
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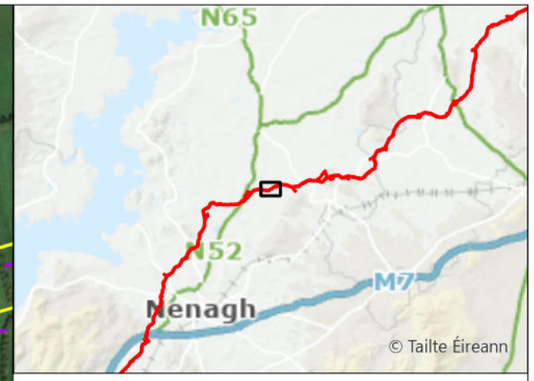
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FIGURE 42





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL089 TW-31100	Landowner Reroute Request - alignment amendment to the south to avoid farm access road and derelict building.	No environmental objection. Mitigation measures could be required to address the impacts to two badger setts that could be impacted by the reroute.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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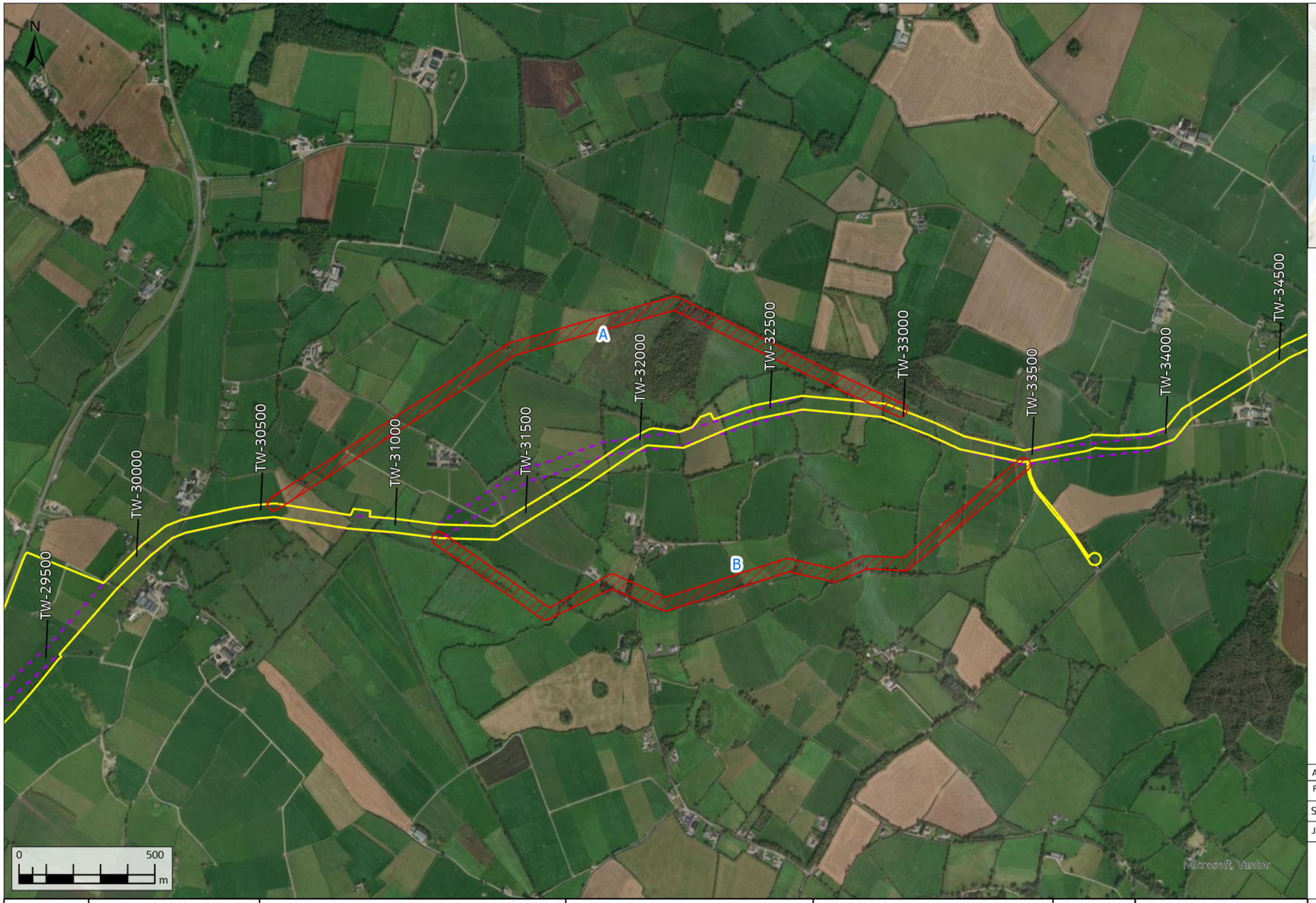
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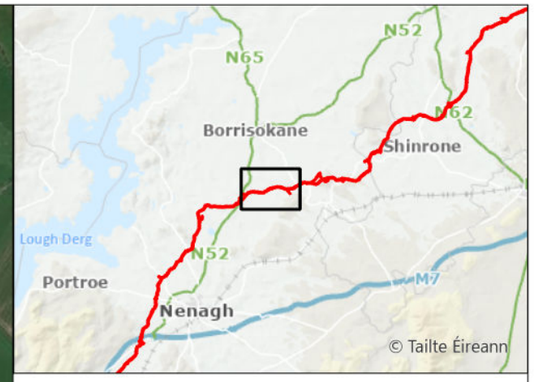
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FIGURE 43





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL090a TW-31500	Landowner Reroute Request - alignment amendment options to run closer to land boundaries.	Neither reroute option is environmentally acceptable. Both reroute options would require removal of additional trees and hedgerows. Option B would come into close proximity with an archaeological feature.	Both reroute options would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted.	Not facilitated	Both reroute requests not facilitated as they would compromise hydraulic performance and require the removal of additional treelines and hedgerows. Additionally Option B is heavily constrained by the proximity of an archaeological feature to the south.

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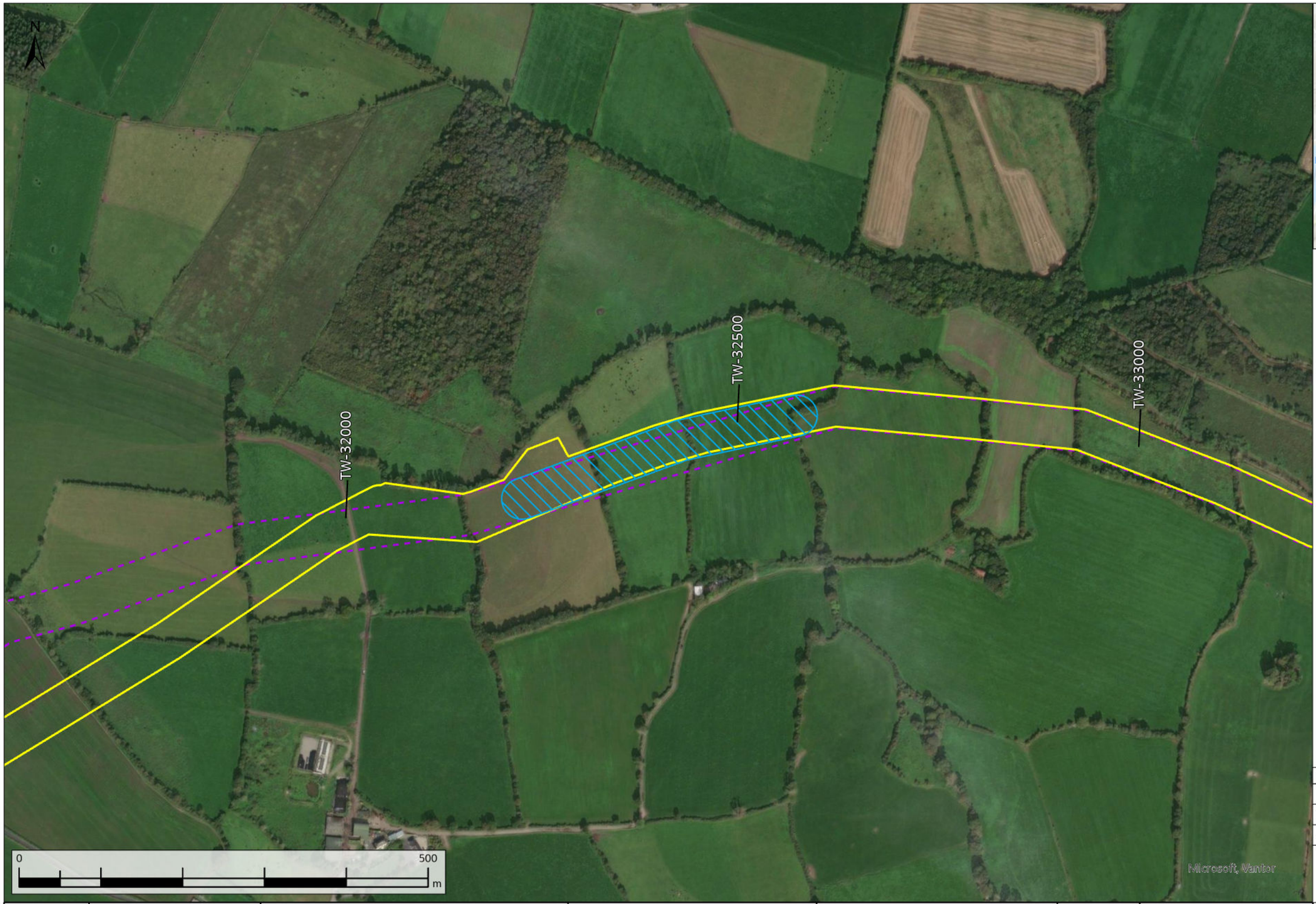
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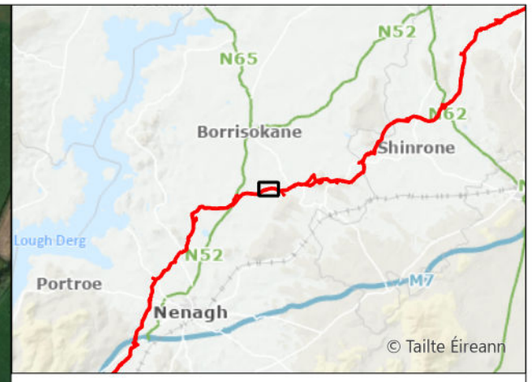
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FIGURE 44

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL090b TW-32500	Technical Reroute Request - alignment amendment to the north slightly to facilitate pipeline drain down operations.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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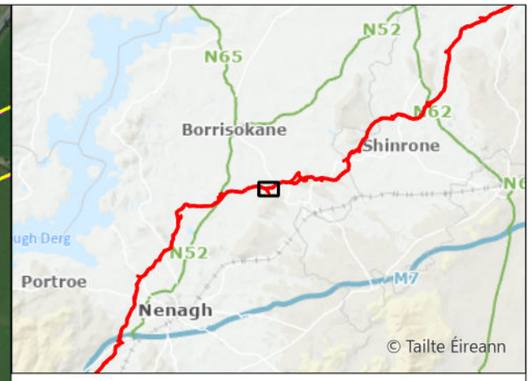
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FIGURE 45

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Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL093 TW-33400	Landowner Reroute Request - alignment amendment to the south to avoid a springwell located north of the existing alignment and to avoid crossing a future potential site.	No environmental objection. Mitigation measures could be required to address the impacts of crossing a mature tree. Field survey required to confirm impact on mature trees.	Reroute is technically less favourable. Reroute option would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted.	Not facilitated	Request not facilitated as the reroute would reduce operational efficiencies. Construction working width is already south of any existing well. While it is not possible to avoid splitting land to the south with the construction working width, access to land to the south can be maintained.

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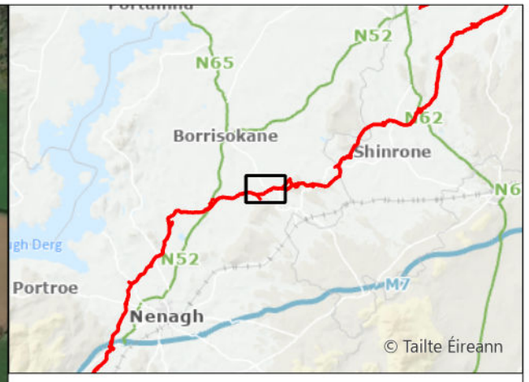
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FIGURE 46

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL094 TW-33600	Landowner Reroute Request - alignment amendment options to avoid crossing farm access lane. Option D is an alignment amendment to the north to avoid the western entry point of landowner's land.	No environmental objections for Option D. Options A-C environmentally unacceptable. Proposed crossings of river within Options A and B would be at a more acute angle and therefore a larger section of watercourse would be disturbed. Mitigation measures could be required as Annex 2 (crayfish) species are present in the river. Option C reroute would cross a site of recorded archaeological significance.	No technical objection for Option D. Proposed reroutes A-C are technically less favourable. Poor alignment would introduce construction complexity and operational inefficiencies.	No further landowner consultation is required for Option D.	Partially facilitated	Option D request has been facilitated as it would be a minor alignment change and results in acceptable pipeline alignment and no environmental objections. Options A-C not facilitated.

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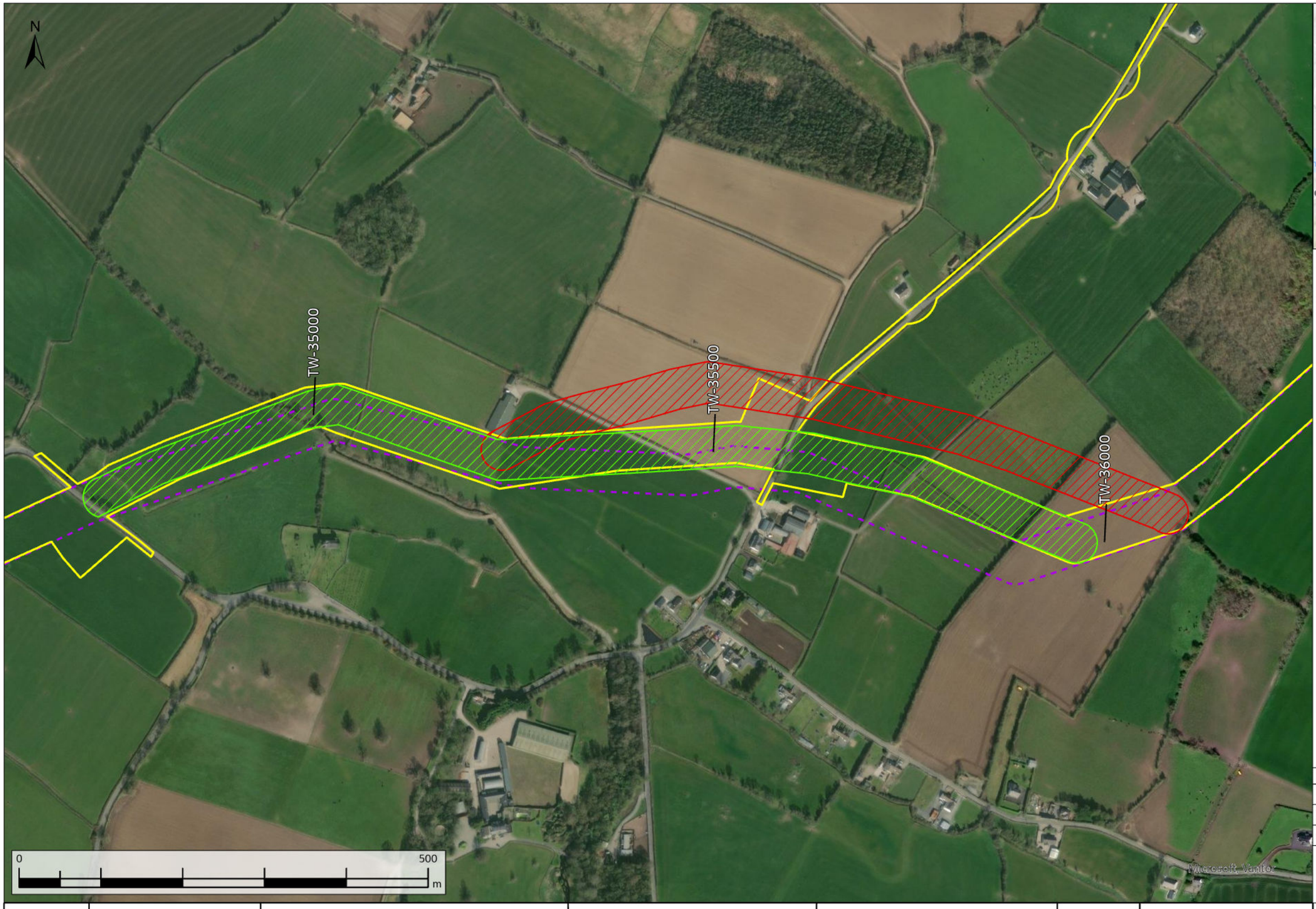
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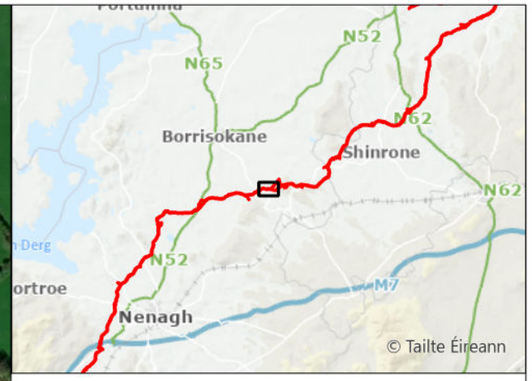
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FIGURE 47

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL095 TW-34600	Landowner Reroute Request - alignment amendment to the north to allow for future farm yard expansion.	The facilitated reroute would be acceptable from an ecological, geological, soil and traffic perspective. A separation distance should be kept with the watercourse. The rejected reroute would impact on a recorded monument and watercourse.	No technical objection.	Adjacent landowners have been consulted.	Partially facilitated	Request partially facilitated as full reroute would be restricted by the presence of a recorded monument and watercourse.

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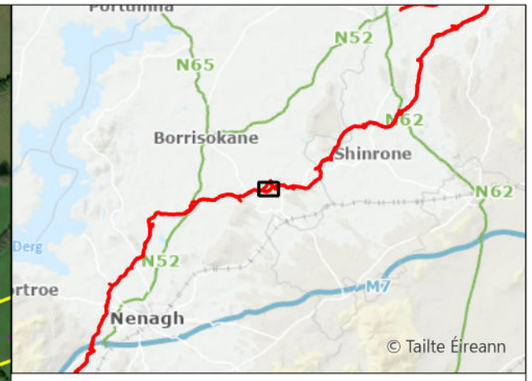
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FIGURE 48





- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Break Pressure Tank
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL098 TW-35800	Landowner Reroute Request - alignment amendment to the north to reroute through forestry to avoid splitting lands.	Neither option would be ecologically or archaeologically acceptable. Proposed reroute through the woodland rejected as it would cross an active badger sett and significant mitigation measures would be required to address the impacts. Proposed reroute to the north rejected due to the presence of an archaeological feature (ring fort).	No technical objection.	Adjacent landowners have been consulted.	Not facilitated	Request not facilitated due to the impacts to an active badger sett and archaeological feature (ringfort) located within the wooded area.

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Drawing Title: REROUTE MAPPING

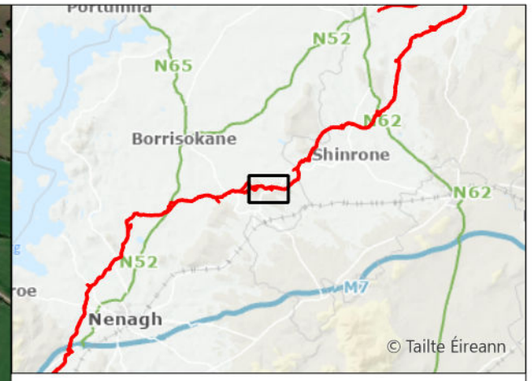
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FIGURE 49





- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Break Pressure Tank
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL101a TWA-100	Landowner Reroute Request - Option A alignment amendment to the south to avoid splitting land. Option B alignment amendment to the north to avoid existing property.	Option A rejected from an archaeological perspective. Reroute would come into close proximity of a site of recorded archaeological significance (recorded monument). Option B - no environmental objection.	Reroute Options A and B are technically less favourable. Option A is located at the Break Pressure Tank site, the reroute would add complexity as it has to meet the proposed site layout. Option B would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners were not consulted due to environmental and technical implications.	Not facilitated	Option A was rejected due to archaeological features (recorded monument) in close proximity to reroute and the Break Pressure Tank site constraints. Option B was rejected as reroute would compromise hydraulic performance of the pipeline.

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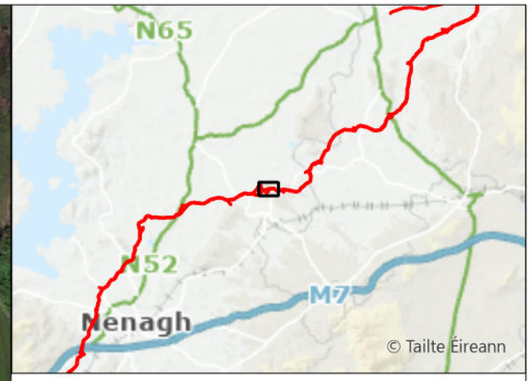
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FIGURE 50

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Break Pressure Tank
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL101b TWA-0	Technical Reroute Request - alignment amendment to the north slightly due to improved topography in order to facilitate construction works and reduce tunnel length.	No environmental objection. Mitigation measures could be required to address the crossing of mature trees.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

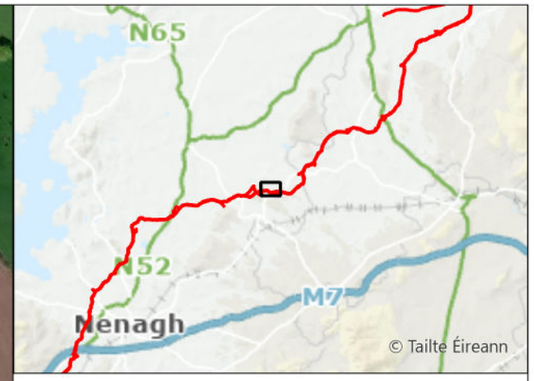
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FIGURE 51





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Break Pressure Tank
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL103 TWA-500	Landowner Reroute Request - Option A alignment amendment to maintain access between two landowners. Option B - alignment amendment to the north slightly due to improved topography in order to facilitate construction works.	Option A - No environmental objection. Option B - Acceptable from an ecological perspective. Mitigation measures could be required to address the crossing of additional treeline / hedgerow.	Reroute Option A is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies. Option B - no technical objection.	Adjacent landowner has been consulted.	Partially facilitated	Request partially facilitated. Landowner has been consulted and has accepted Option B reroute. Option A was rejected as reroute would compromise hydraulic performance of the pipeline.

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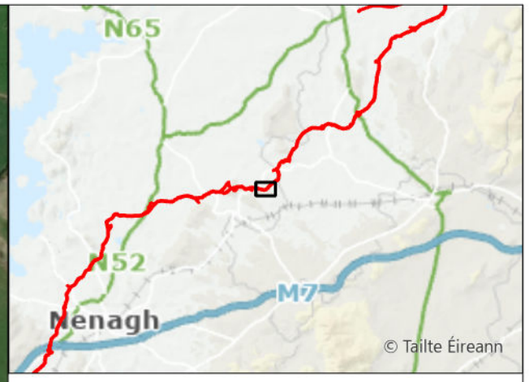
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FIGURE 52

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL105 TWA-2500	Landowner Reroute Request - alignment amendment to the south to avoid existing property and farm yard.	No environmental objection. Mitigation measures could be required to address the presence of a potential bat roost in close proximity to the reroute (in the farm buildings).	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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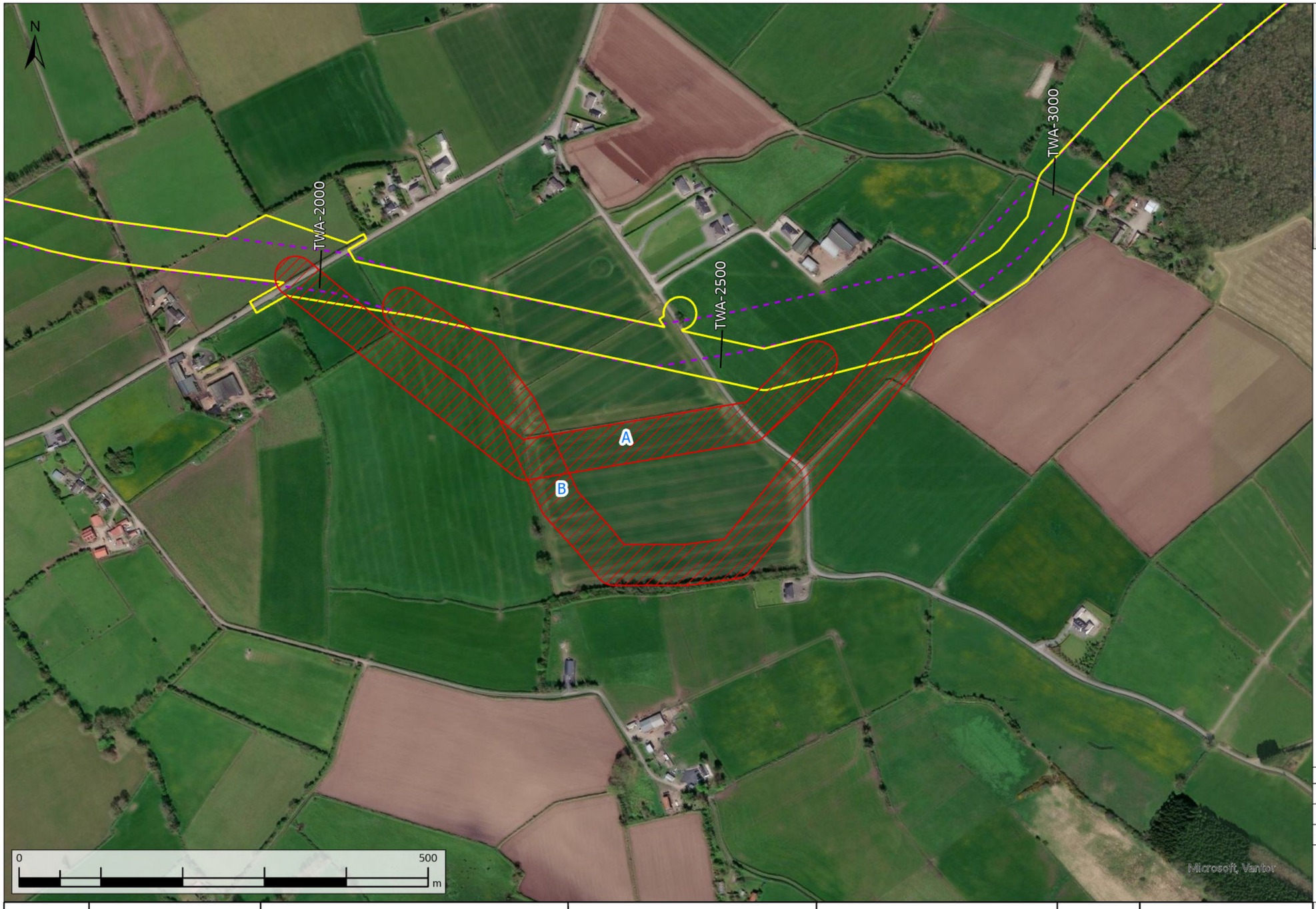
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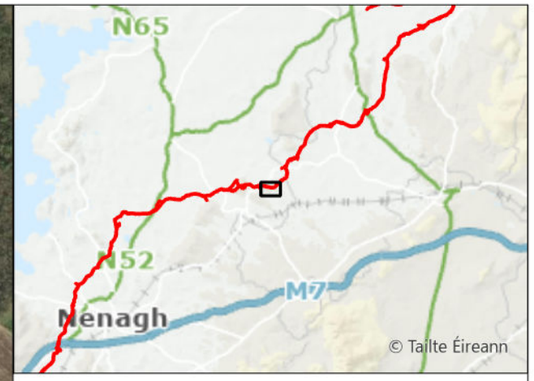
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FIGURE 53





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL106 TWA-2250	Landowner Reroute Request - alignment amendment options to the south to run parallel to field boundaries.	Option A - no environmental objection. Option B - Mitigation measures should be implemented to address the additional removal of a treeline / hedgerow.	Both reroutes would be technically less favourable. The reroute options would compromise hydraulic performance by introducing additional bends.	Reroute would significantly impact on the land of adjacent landowner.	Not facilitated	Both options were rejected as reroutes would compromise hydraulic performance of the pipeline.

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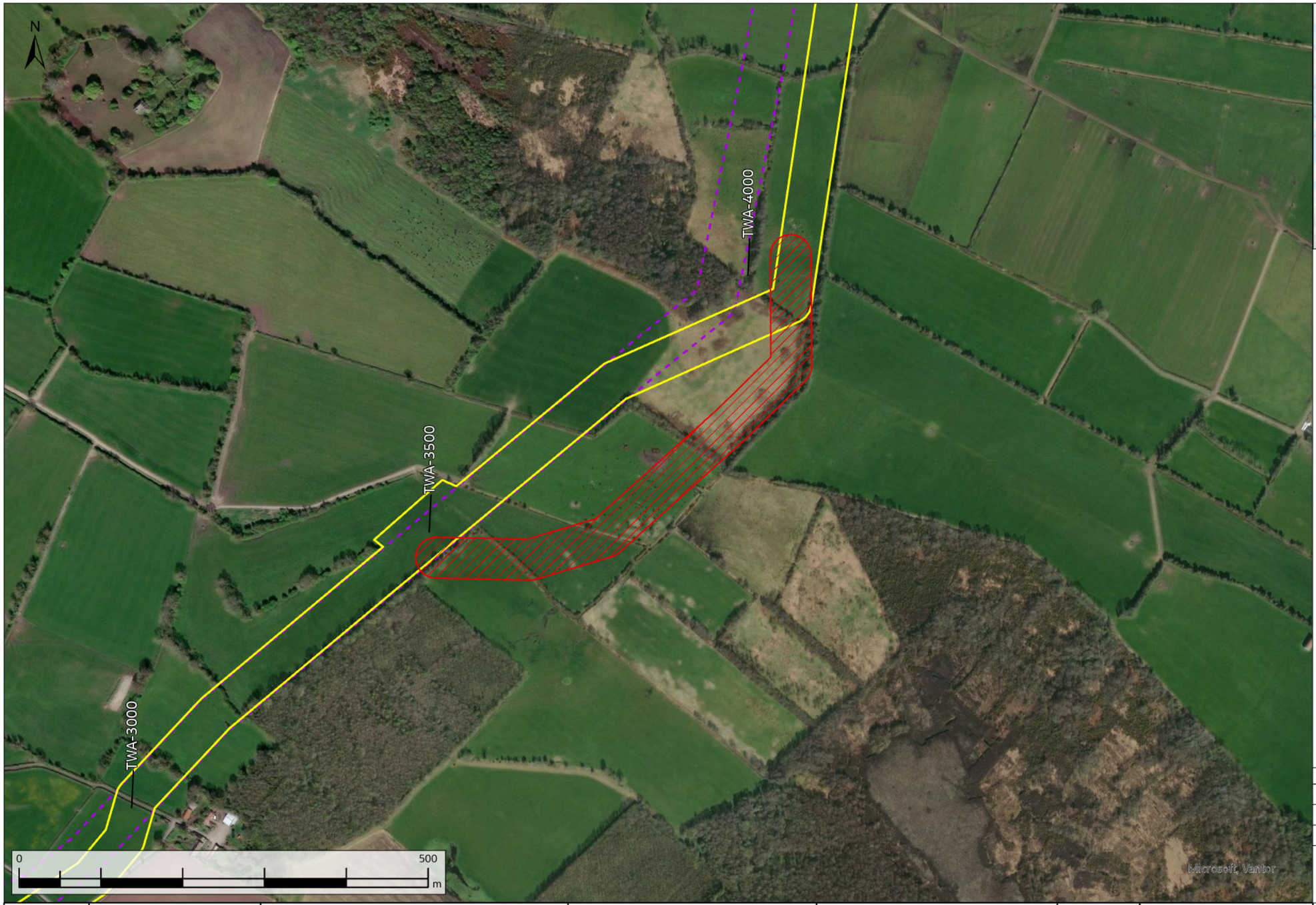
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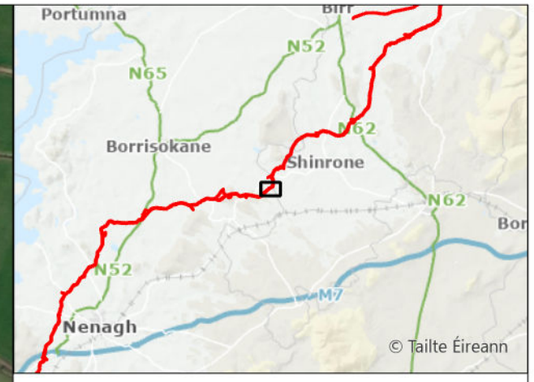
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FIGURE 54

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Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL108a TWA-3700	Landowner Reroute Request - alignment amendment to the southeast to run close to field boundaries.	No environmental objection.	Less favourable reroute technically. Reroute options would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Reroute would direct the alignment away from two other field boundaries, impacting adjacent landowners.	Not facilitated	Request was rejected as reroute would compromise hydraulic performance of the pipeline. The reroute would also impact adjacent landowners.

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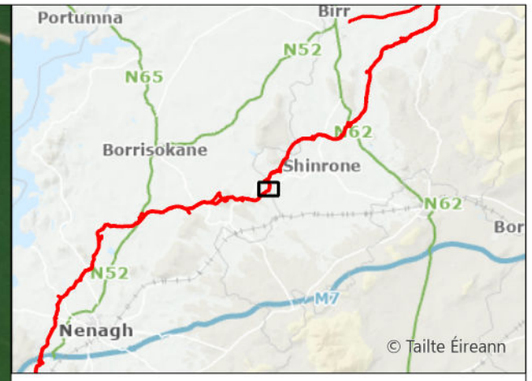
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FIGURE 55





Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL108b TWA-3900	Landowner Reroute Request - alignment amendment to the east to avoid area of broadleaved woodland.	No environmental objection. Reroute would avoid designated woodland area and reduce the loss of broadleaved woodland and reduce biodiversity loss. Mitigation measures could be required as the reroute would bring the pipeline in closer proximity to the West Mucklone stream which runs along the hedgerow on the eastern side of the pipeline. A separation distance should be kept with the stream.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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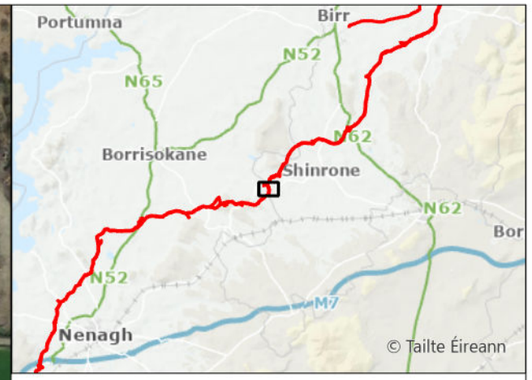
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FIGURE 56





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL110 TWA-4300	Landowner Reroute Request - alignment amendment options to the east to run closer to field boundaries.	No environmental objection to partially facilitated reroute. Rejected reroute would not maintain adequate separation distance with the watercourse.	No technical objection with facilitated route. Note that this alignment has subsequently refined to accommodate request from adjacent landowner. Rejected reroute option would require proposed crossing of watercourse at a more acute angle and therefore a larger section of watercourse would be disturbed.	Adjacent landowner has been consulted and this reroute has been refined to accommodate their separate reroute request.	Partially facilitated	Request partially facilitated as full facilitation would cross the watercourse at a more acute angle and compromise hydraulic performance of the pipeline..

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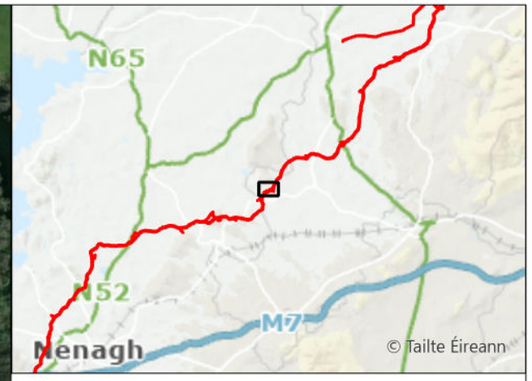
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FIGURE 57

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL114 TWA-5700	Landowner Reroute Request - alignment amendment options to the east to run parallel to field boundaries.	No environmental objection.	No technical objection.	Landowner has agreed to facilitate reroute request of adjacent landowner to the east (WL115).	Not facilitated	Landowner has withdrawn this request and agreed to facilitate the reroute in adjacent land.

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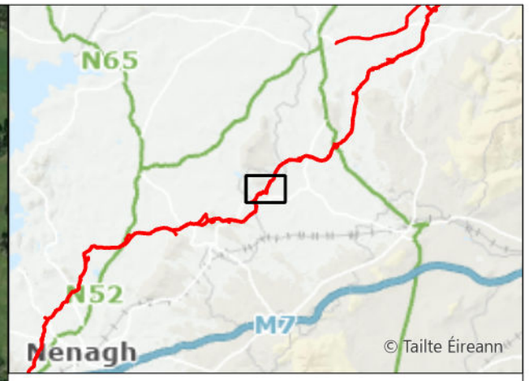
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FIGURE 58





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL115 TWA-6100	Landowner Reroute Request - alignment amendment to the east to avoid existing property.	No environmental objection.	No technical objection.	Adjacent landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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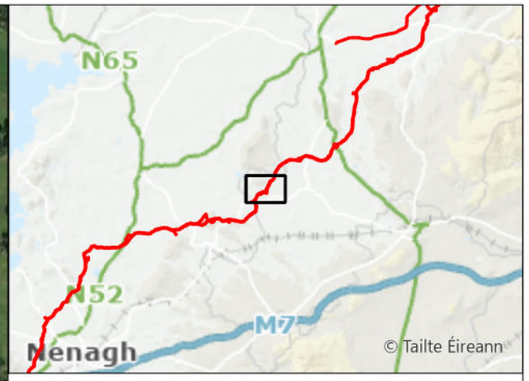
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FIGURE 59





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL116 TWA-6300	Landowner Reroute Request - alignment amendment to the southeast to run parallel to field boundaries.	No environmental objection.	No technical objection.	Landowner agreed to amend their request and facilitate reroute request of adjacent landowner (WL115). Initial request shown as not facilitated.	Partially facilitated	Request has been partially facilitated. Landowner has agreed to facilitate the reroute in adjacent land. Reroute will be closer to the internal field boundaries.

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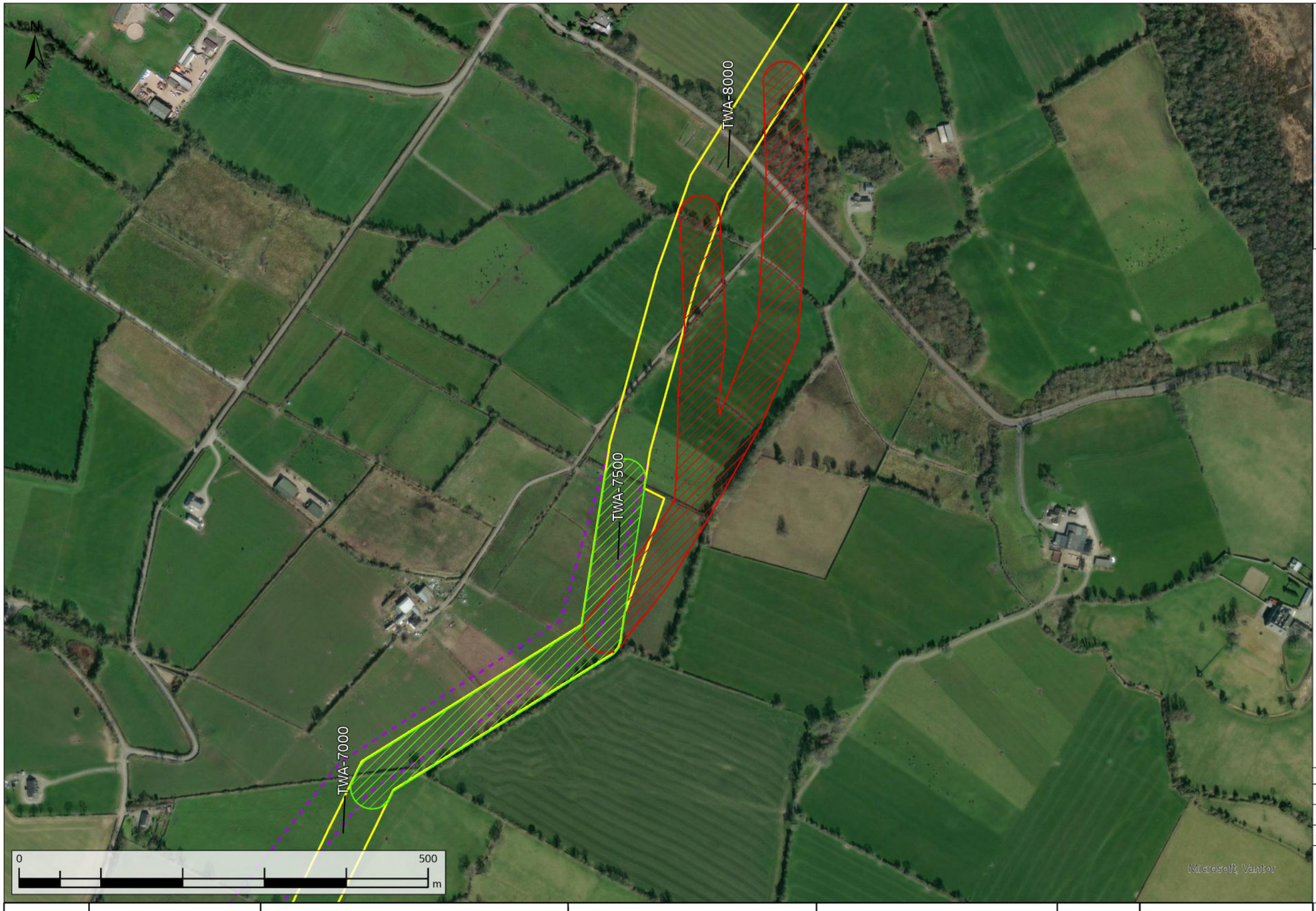
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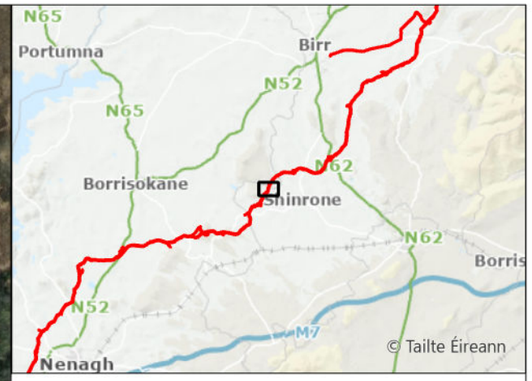
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FIGURE 60





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL117 TWA-7100	Landowner Reroute Request - alignment amendment options to the east to run closer to field boundaries.	No environmental objection with facilitated route. Rejected routes unacceptable from an ecological perspective as they would remove a large area of mature oak trees with good bat roost potential.	No technical objection with facilitated route. Rejected reroutes would be technically less favourable. Either would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowner has been consulted and proposed reroute has been partially facilitated. Rejected reroute options to the east would both have a greater impact on the adjacent landowner.	Partially facilitated	Request has been partially facilitated. It could not be fully facilitated due to the impacts on adjacent landowners and the potential removal of mature oak trees with good potential for bat roosts.

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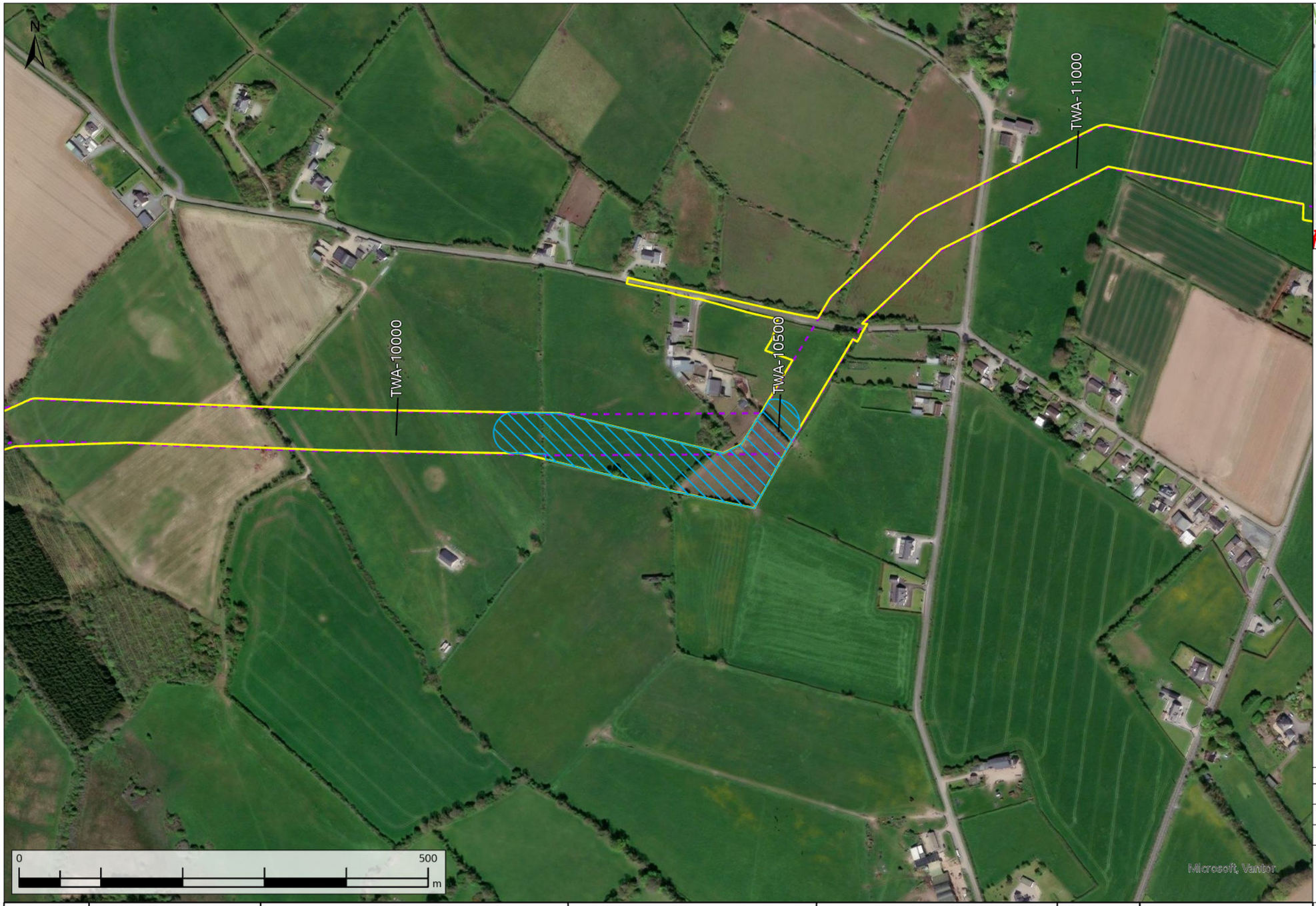
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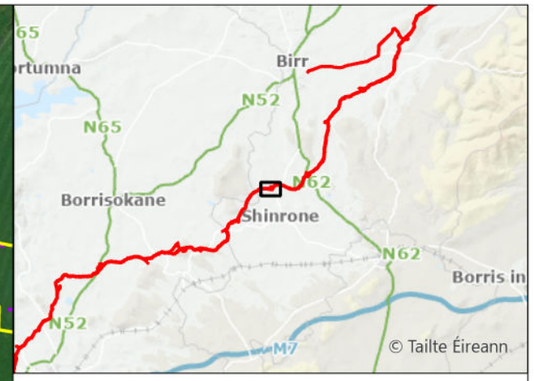
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FIGURE 61





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL126 TWA-10200	Technical Reroute Request - alignment amendment to the south to avoid adjacent buildings and reduce impact on landowner and to avoid adjacent buildings.	No environmental objection. Reroute would avoid removing an area of scrub but would instead cross a moderate quality ash/hawthorn hedgerow. No protected species were recorded in the area during the field surveys undertaken in July 2020. The reroute would move closer to a hedgerow to the south and it is recommended that this hedgerow should be maintained as it is suitable habitat for protected species.	No technical objection. The proposed reroute would avoid creating inaccessible areas to the south of these fields.	The reroute will impact on 2 adjacent folios. Adjacent landowners have been consulted and the proposed reroute has been accepted.	Facilitated	Request has been facilitated, reducing the impact on fields and adjacent buildings.

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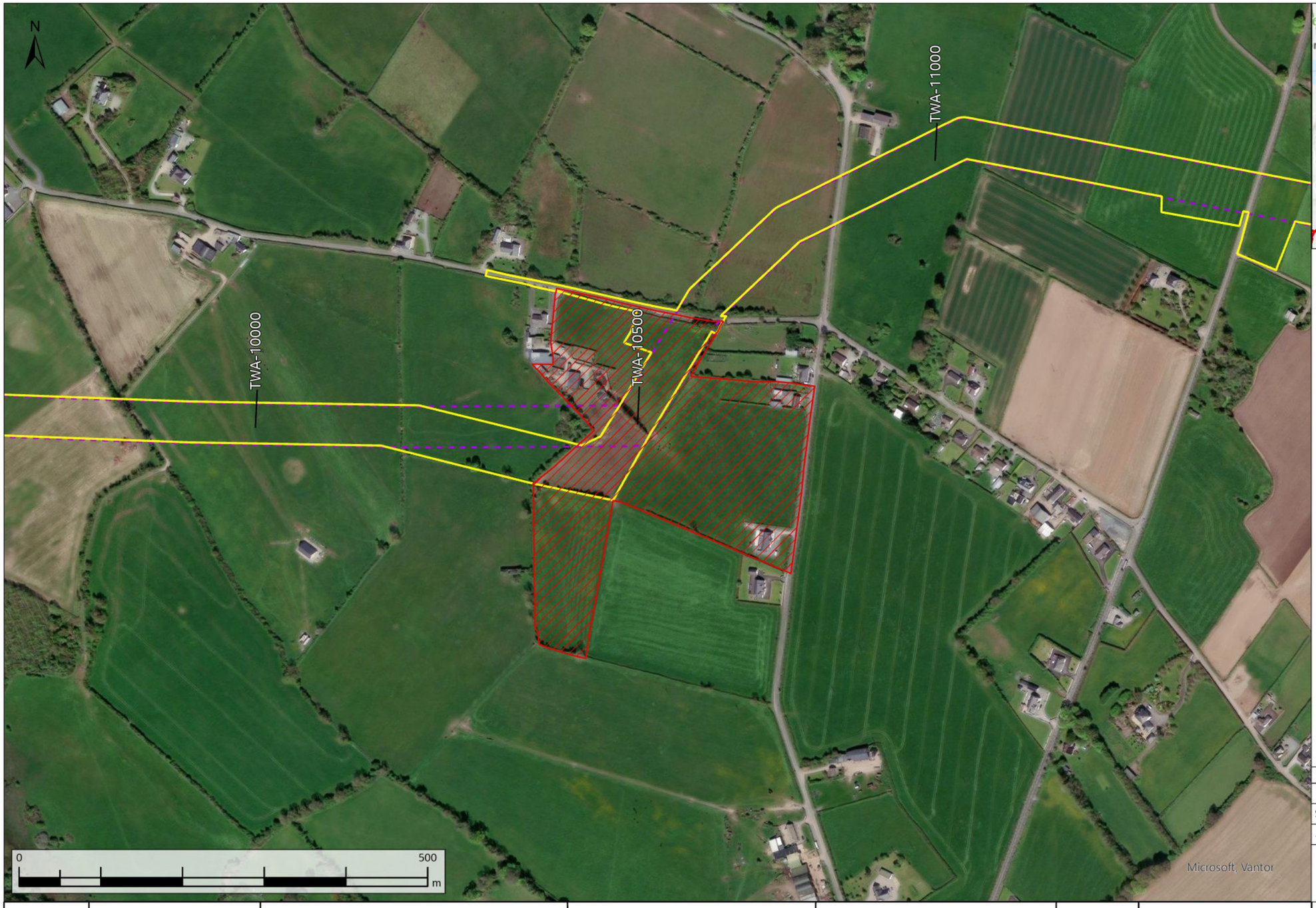
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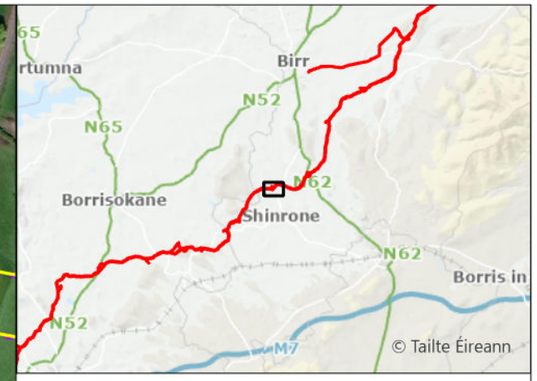
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FIGURE 62





Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL127a TWA-10500	Landowner Reroute Request - alignment amendment to avoid proposed site for future development.	No environmental analysis required as there are no suitable reroute options to avoid the proposed development site.	There are no suitable reroute options which would avoid the proposed development site without increasing operational inefficiency by introducing additional bends. Potential reroutes would introduce pinch points in close proximity to adjacent properties and increase constructability complexity.	Landowner has been consulted and the proposed reroute has not been facilitated. The reroute is constrained by adjacent properties.	Not facilitated	Request not facilitated as no suitable reroute option would be available due to constraints from adjacent properties.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

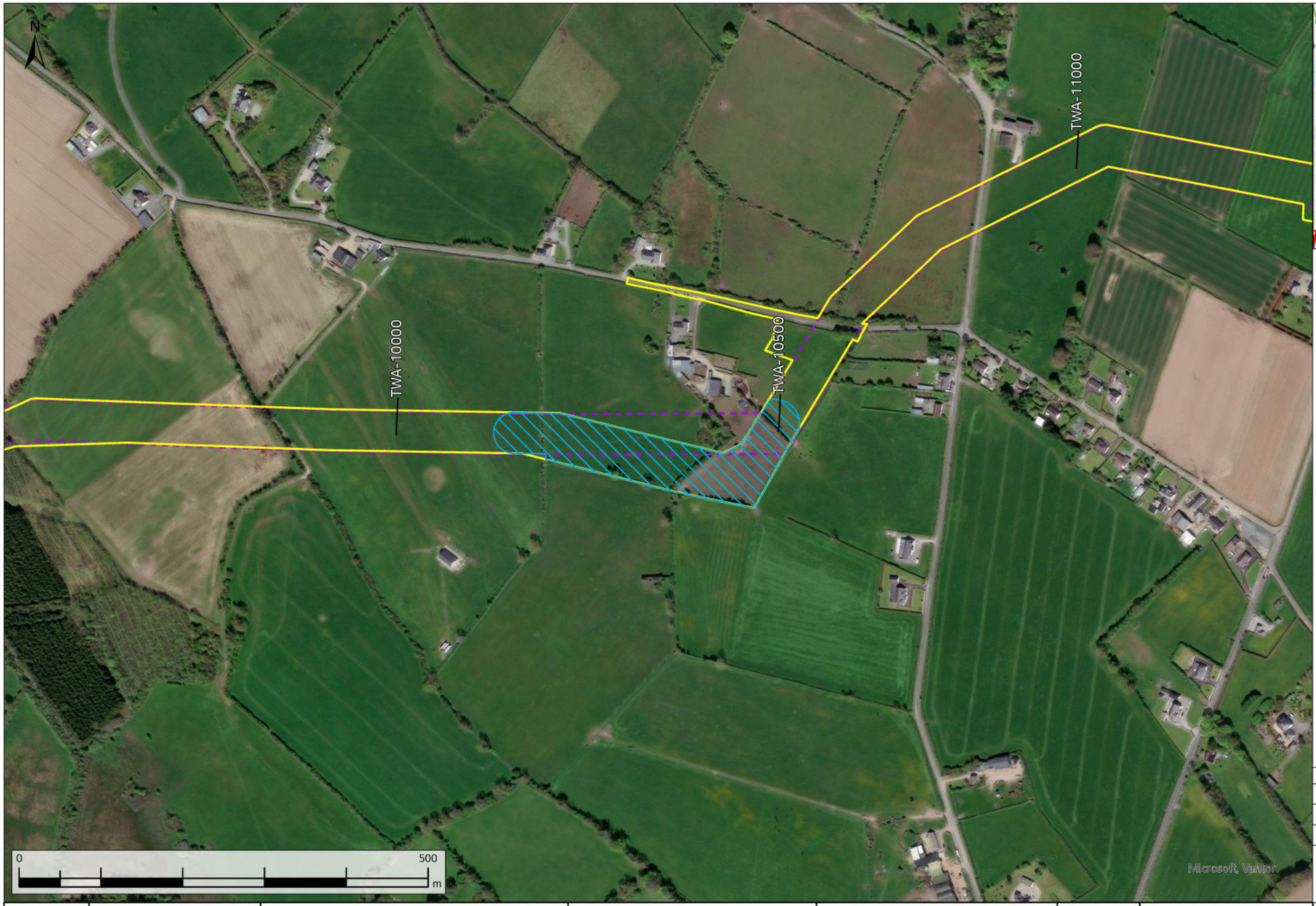
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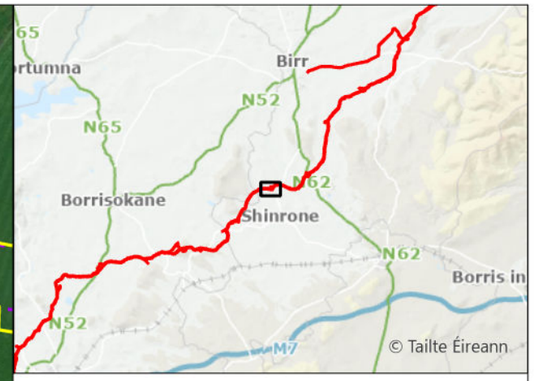
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FIGURE 63

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL127b TWA-10500	Technical Reroute Request - alignment amendment to the south to avoid adjacent buildings and reduce impact on landowner and to avoid adjacent buildings.	No environmental objection. Reroute would avoid removing an area of scrub but would instead cross a moderate quality ash/hawthorn hedgerow. No protected species were recorded in the area during the field surveys undertaken in July 2020. The reroute would move closer to a hedgerow to the south and it is recommended that this hedgerow should be maintained as it is suitable habitat for protected species.	No technical objection. The proposed reroute would avoid creating inaccessible areas to the south of these fields.	The reroute will impact on 2 adjacent folios. Adjacent landowners have been consulted and the proposed reroute has been accepted.	Facilitated	Request has been facilitated, reducing the impact on fields and adjacent buildings.

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Drawing Title: REROUTE MAPPING

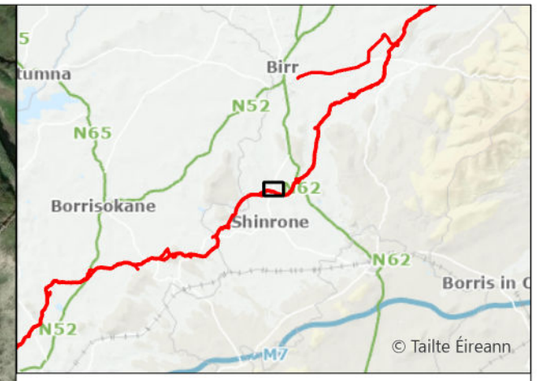
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FIGURE 64





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL128 TWA-11450	Landowner Reroute Request - alignment amendment to avoid cattle crush.	No environmental analysis required as cattle crush to be relocated.	No technical analysis required as cattle crush to be relocated.	No landowner engagement required as cattle crush to be relocated.	Not facilitated	Cattle crush to be relocated in consultation with landowner. No adjustment to construction working width required.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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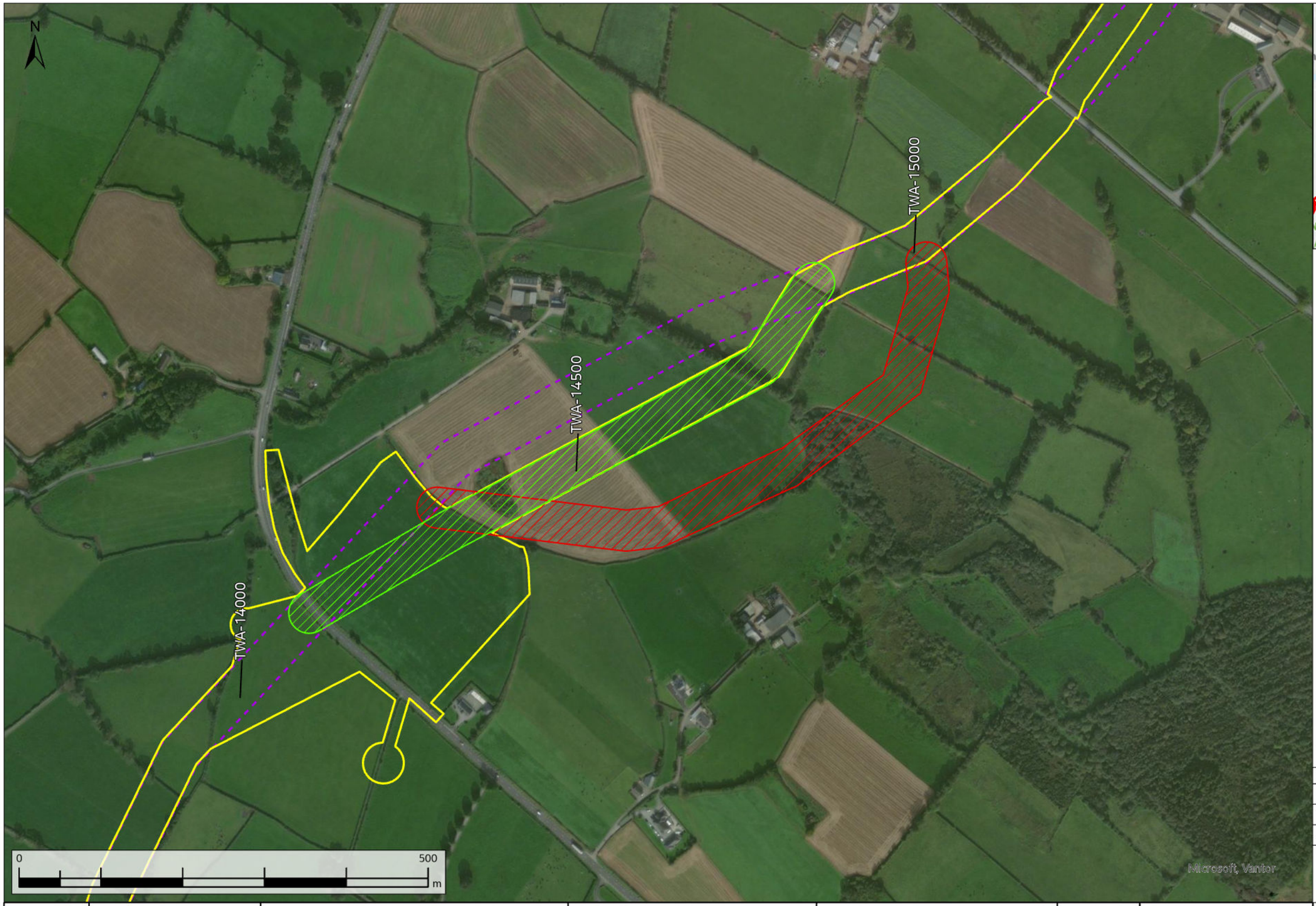
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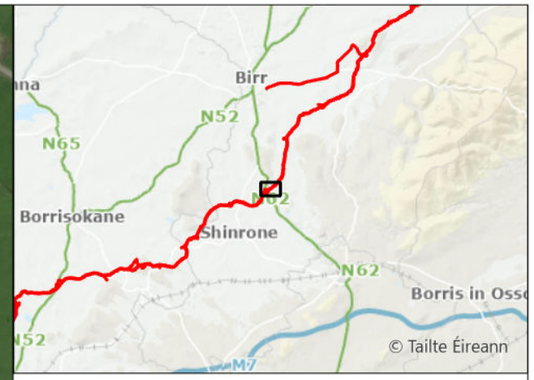
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FIGURE 65





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL135 TWA-14100	Landowner Reroute Request - alignment amendment to the south to run parallel to bog.	No environmental objection to either the partially facilitated or rejected reroute.	Rejected reroute would would impact hydraulic performance by introducing a significant elevation increase (>5m), while poor alignment would introduce construction complexity and operational inefficiencies.The partially facilitated reroute would avoid the elevation increase.	No consultation with adjacent landowners required.	Partially facilitated	Request partially facilitated. The full reroute could not be facilitated due to the requirement to maintain acceptable pipeline alignment.

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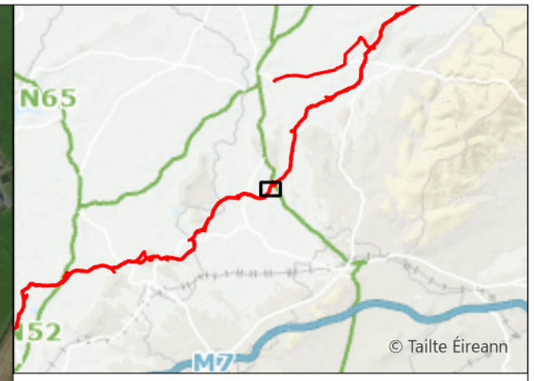
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FIGURE 66

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL136 TWA-13300	Landowner Reroute Request - alignment amendment to the south to run along the opposite side of the hedgerow outside the original landowner's land.	No environmental objection.	No technical objection.	Reroute would impact on the land of 3 additional landowners.	Not facilitated	Request not facilitated as adjacent landowners would be impacted by the route.

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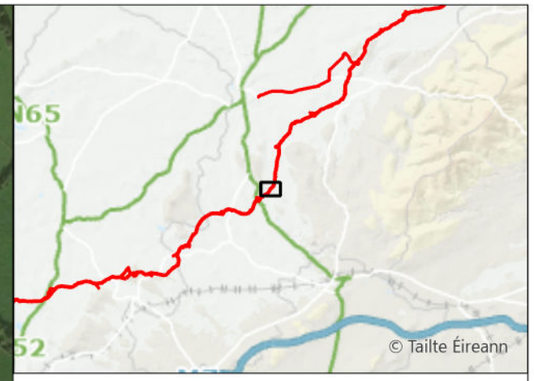
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FIGURE 67





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL138 TWA-15250	Landowner Reroute Request - alignment amendment to the north to avoid the farmyard and to allow for future expansion of the farmyard.	No environmental objection.	No technical objection.	No additional consultation with the landowner required.	Facilitated	Request has been facilitated.

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Drawing Title: REROUTE MAPPING

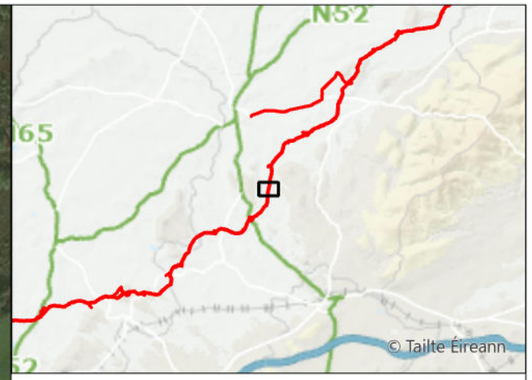
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FIGURE 68





- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL146 TWA-17500	Technical Reroute Request - alignment amendment to the east slightly due to improved topography in order to facilitate construction works.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Drawing Title: REROUTE MAPPING

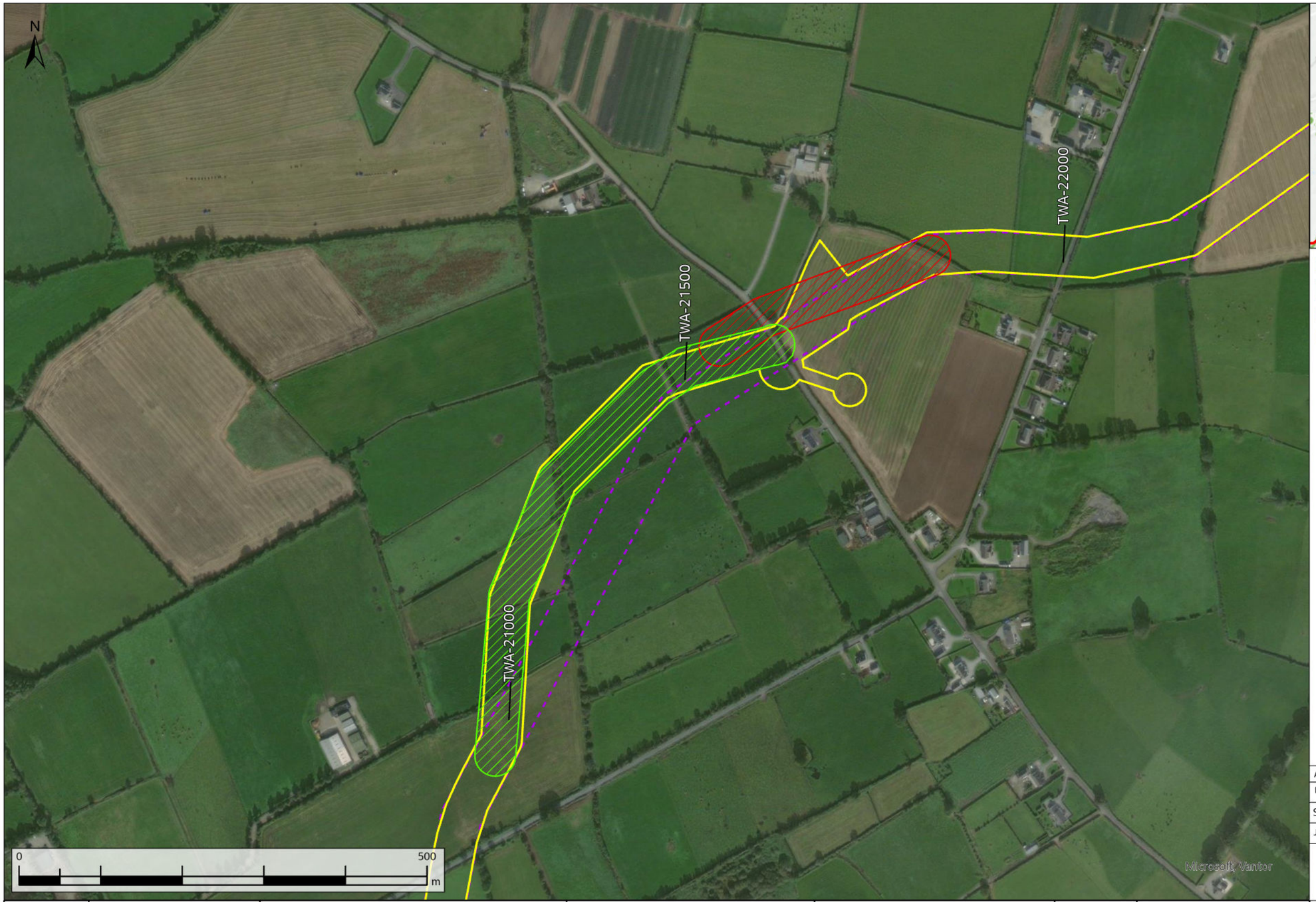
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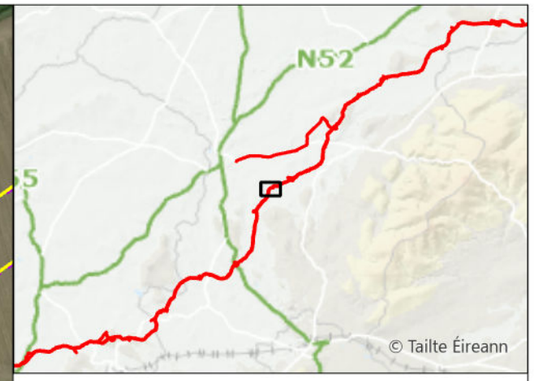
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FIGURE 69

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL158 TWA-21250	Landowner Reroute Request - alignment amendment to the north.	No environmental objection.	No technical objection.	Adjacent landowner to the west has been consulted and has accepted the reroute. Landowner to the east was consulted and rejected the section of reroute within their land.	Partially facilitated	Request was partially facilitated. The full reroute could not be accomodated because the landowner to the east rejected the reroute through their land.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

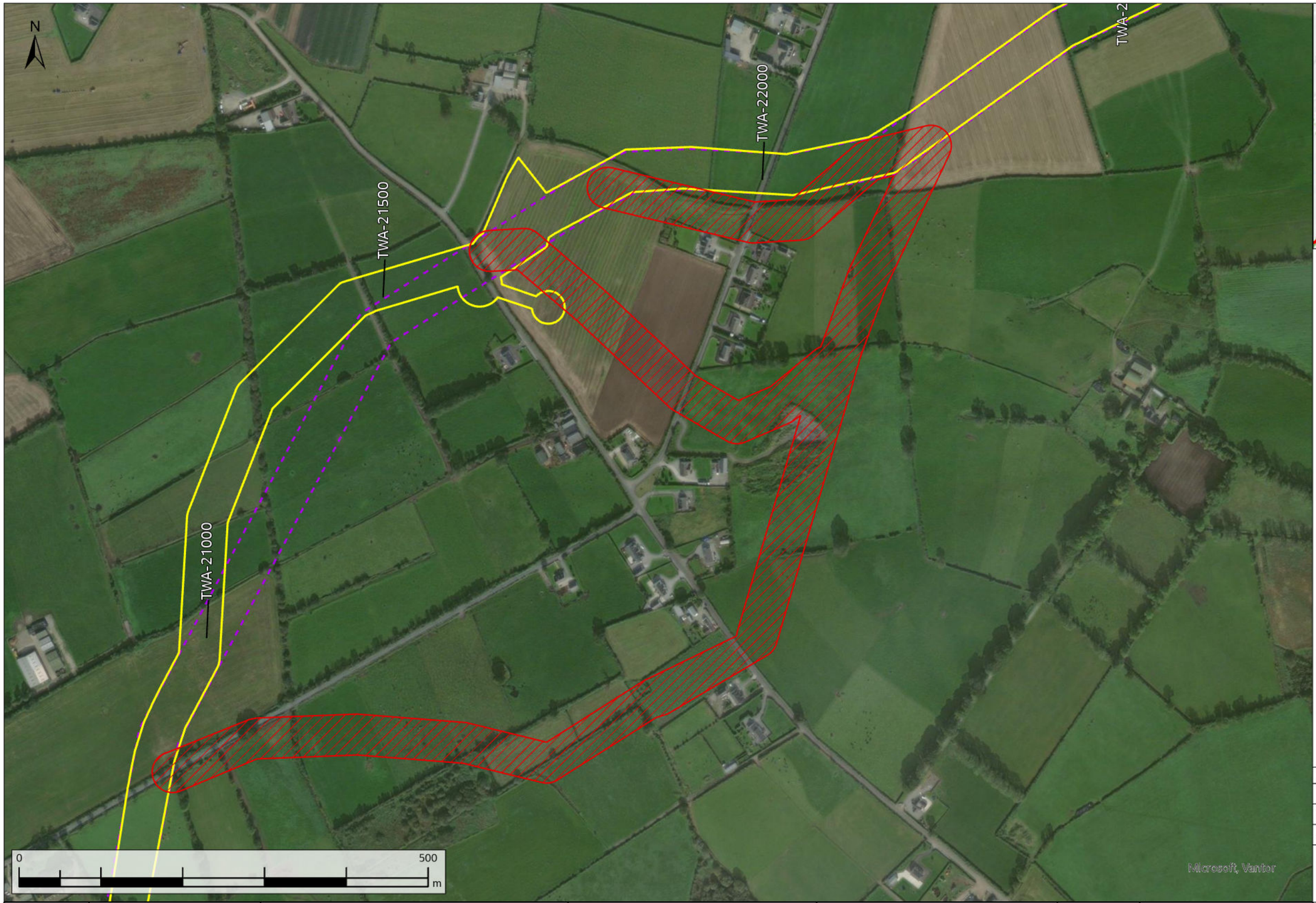
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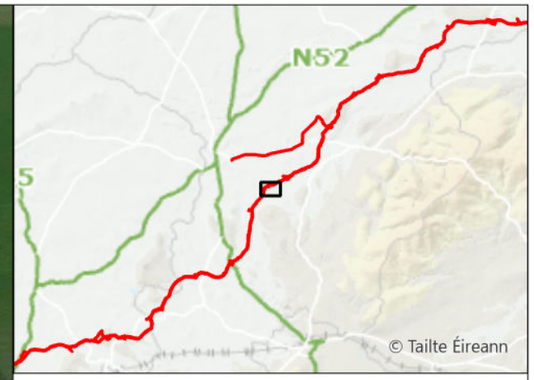
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FIGURE 70

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL160 TWA-21900	Landowner Reroute Request - alignment amendment options to the southeast to reduce the impacts on land splitting.	Reroutes were unacceptable due to constraints presented by the number of properties in close proximity to the alignments.	Reroutes would be technically less favourable. Rejected reroute options would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted and the proposed reroute has not been facilitated. The reroute options would be constrained by adjacent properties.	Not facilitated	Request was rejected as reroute would significantly compromise hydraulic performance of the pipeline and impact additional properties.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

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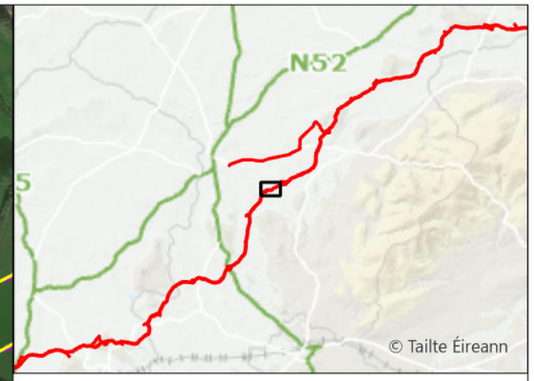
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FIGURE 71

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL161 TWA-22000	Landowner Reroute Request - alignment amendment to the north to avoid road frontage.	No environmental objection.	No technical objection.	Reroute rejected as the proposed reroute would bring pipeline within close proximity of adjacent properties.	Not facilitated	Request was rejected due to the impact on adjacent landowner.

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Drawing Title: REROUTE MAPPING

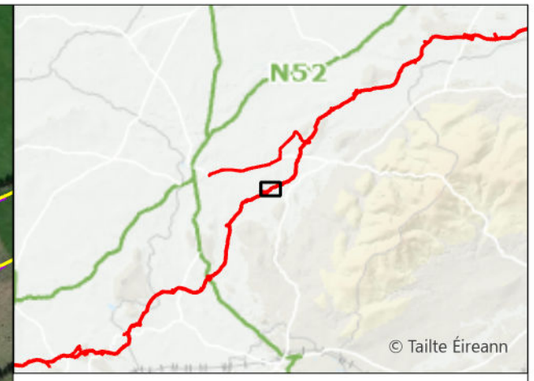
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FIGURE 72





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL166 TWA-23800	Landowner Reroute Request - alignment amendment to the northwest to run closer to the field boundary.	Acceptable from an environmental perspective. Mitigation measures could be required to address the presence of the Fuarawn River in proximity to the reroute. The partially facilitated reroute would maintain the required separation distance.	No technical objection.	Adjacent landowners have been consulted and the partially facilitated reroute has been accepted.	Partially facilitated	Request partially facilitated. The full reroute was not accomodated in order to maintain a required separation distance with the Fuarawn river.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00073

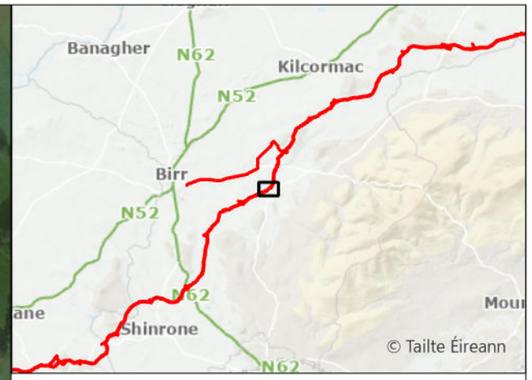
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FIGURE 73

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- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL173 TWA-25600	Landowner Reroute Request - alignment amendment to run closer to the field boundary.	No environmental objection.	No technical objection.	No additional consultation with additional landowners required.	Facilitated	Request facilitated to run the pipeline closer to field boundary.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

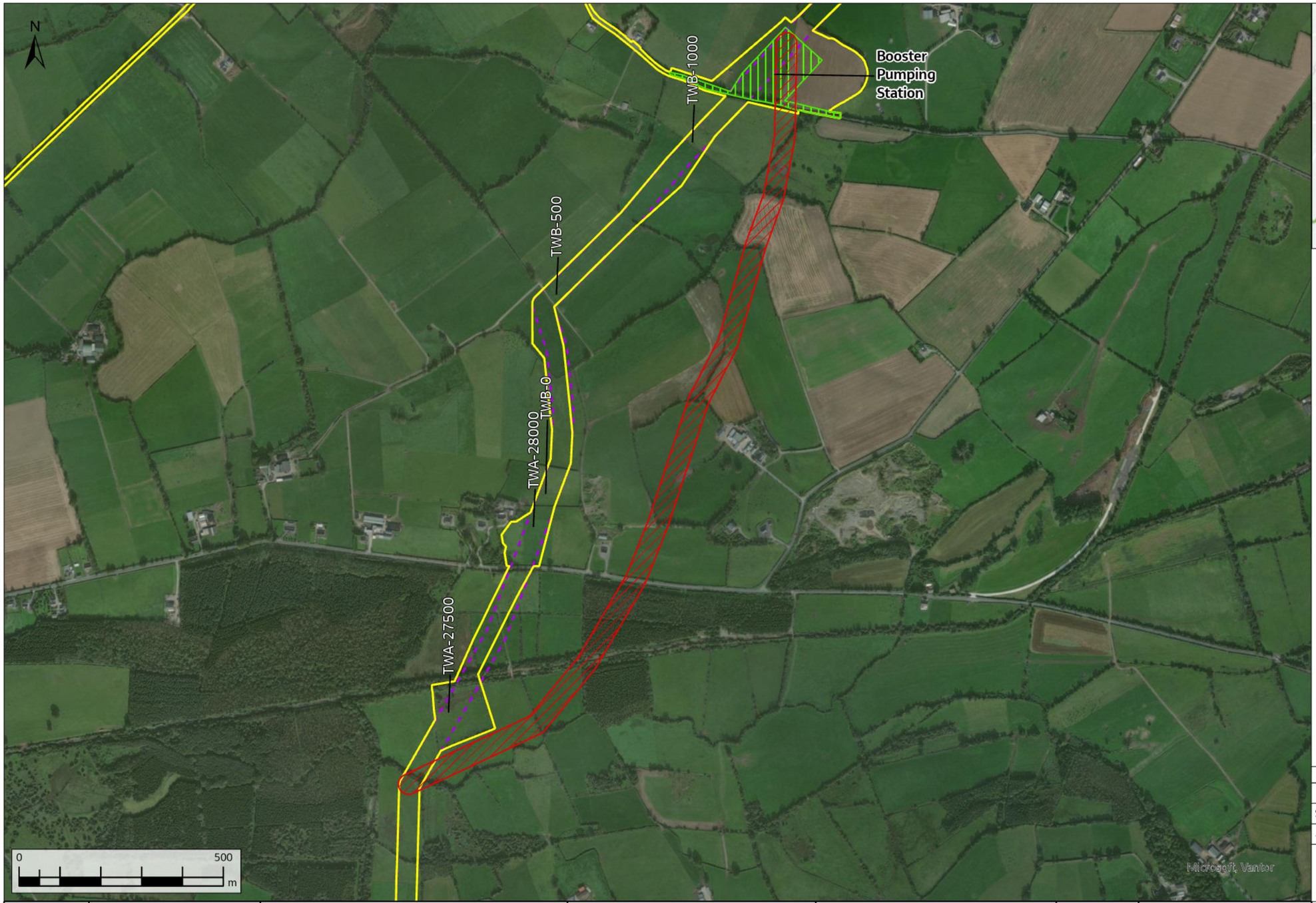
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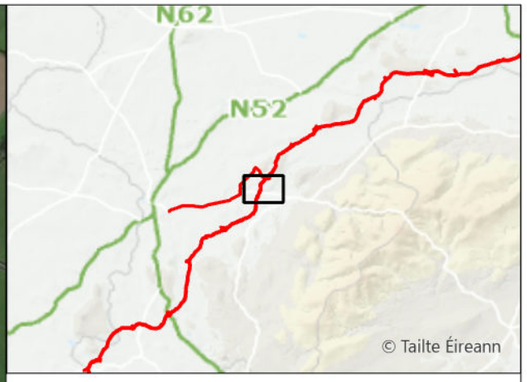
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FIGURE 74

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Booster Pumping Station
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL178 TWA-27300	Landowner Reroute Request - alignment amendment to the south.	Unfavourable reroute environmentally. Reroute would introduce 3 additional river crossings. Mitigation measures could be required as the Camcor River is of moderate ecological status. Protected species (juvenile lamprey and salmon) were recorded at the current proposed crossing in August 2017. There is potential for Crayfish within the Camcor River. It is recommended that the existing perpendicular crossing be maintained rather than a crossing at the Camcor confluence with another waterbody.	Reroute is technically less favourable as it would intersect with the watercourse at a more acute angle. It is preferable to have a perpendicular river crossing to minimise the length of trenchless works and therefore the technical difficulty.	Reroute would impact on the land of additional landowners.	Not facilitated	Request has not been facilitated as the proposed reroute would introduce three additional river crossings.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00075

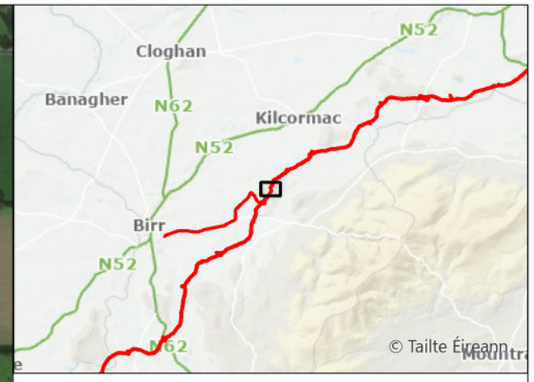
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FIGURE 75

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL185 TWB-2500	Landowner Reroute Request - alignment amendment to the west to run closer with field boundaries.	Facilitated reroute - no environmental objection. Rejected unfavourable ecologically as the reroute would cross one additional river, and the confluence point of the river and a tributary.	Facilitated reroute - no technical objection. Rejected route unfavourable as it would introduce an additional river crossing, requiring increased length of trenchless works and increasing the technical difficulty.	No additional consultation required with landowner for partially facilitated reroute.	Partially facilitated	Request has been partially facilitated to avoid additional river and confluence crossing.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

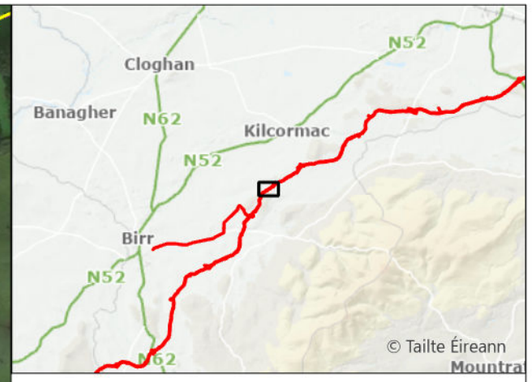
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FIGURE 76





Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL187 TWB-3700	Landowner Reroute Request - alignment amendment to the south to avoid crossing the road running parallel to the north.	No environmental objection. Mitigation measures could be required to address any impacts to the stream in close proximity to the reroute. A separation distance should be kept with the stream.	No technical objection. Proposed reroute would remove two road crossings.	Additional impacted landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

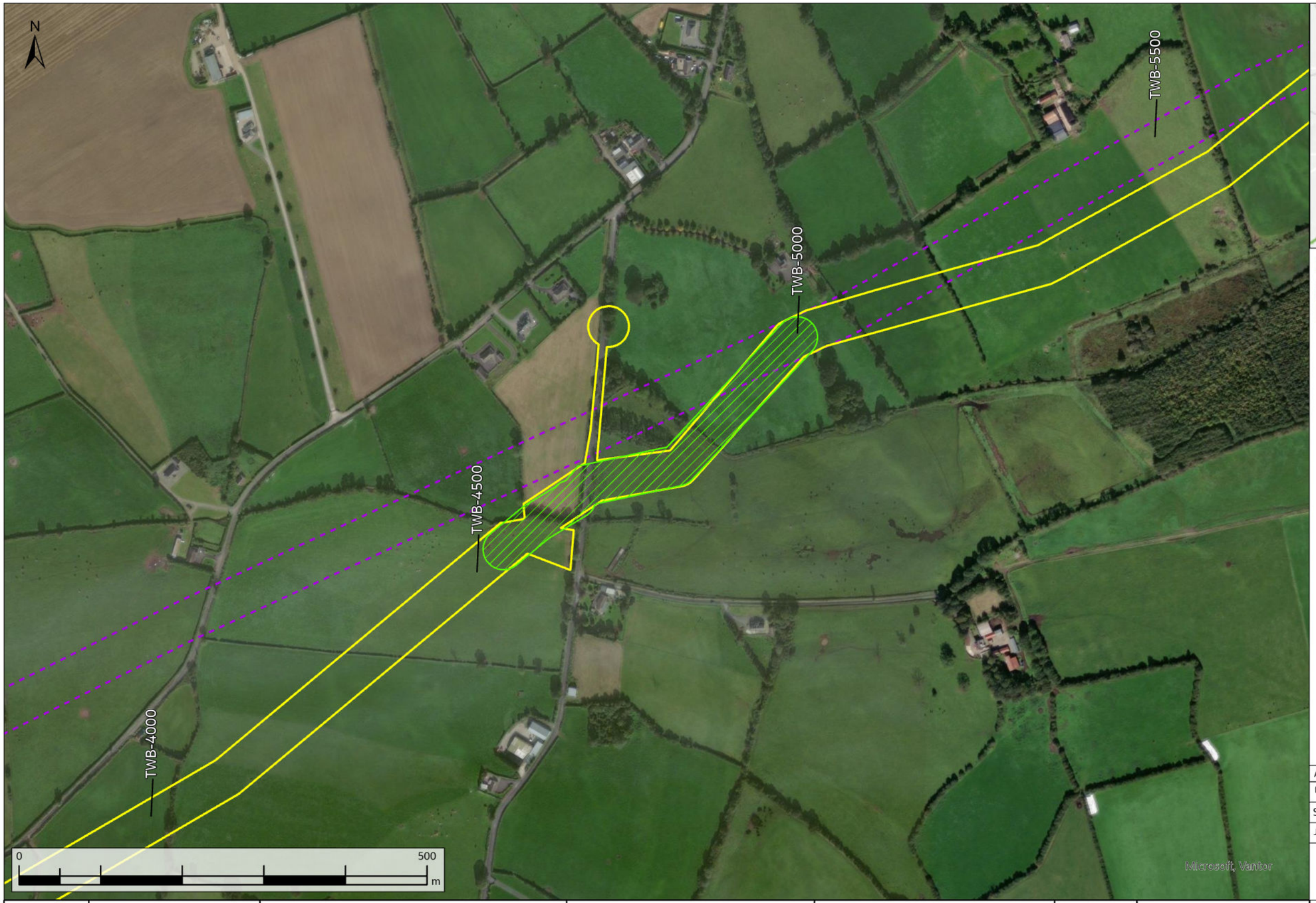
Drawing Title: REROUTE MAPPING

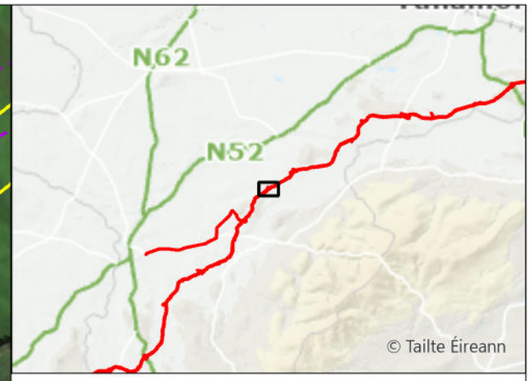
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FIGURE 77

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL189 TWB-4600	Landowner Reroute Request - alignment amendment to the southeast to run parallel to the field boundary.	No environmental objection. Reroute would avoid treelines to the east of the landowner's folio.	No technical objection. The reroute would introduce additional bends but a suitable alignment can be maintained.	Adjacent landowner to the east has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated through wider rerouting in the area.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

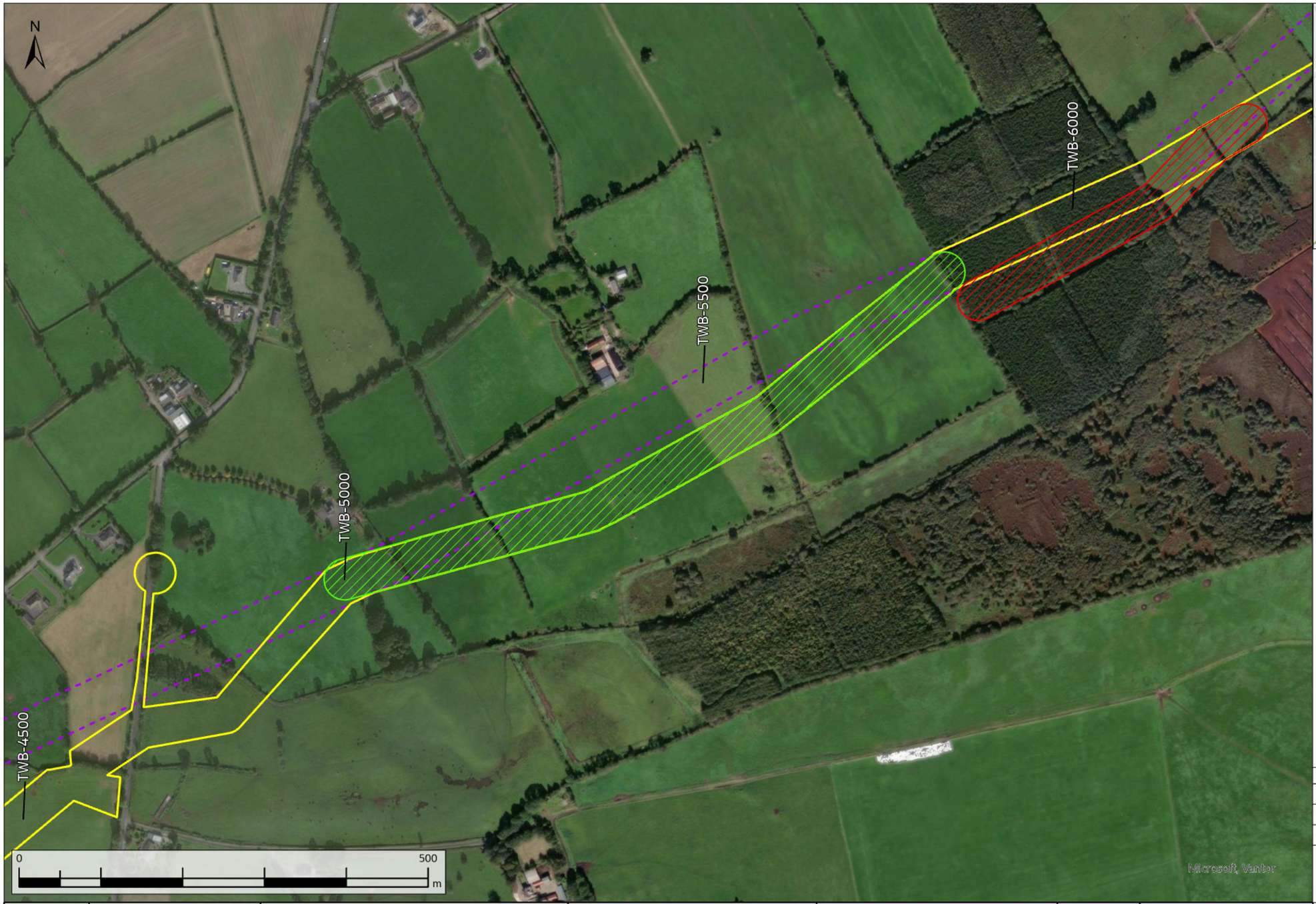
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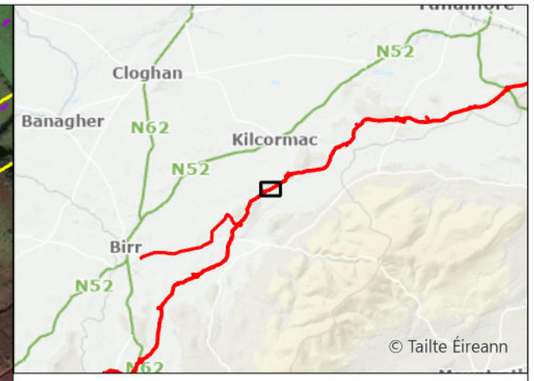
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FIGURE 78





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL191 TWB-5400	Landowner Reroute Request - alignment amendment to the south to route the pipeline further away from farm yard and soakpit.	Rejected reroute environmentally unacceptable as it would come into close proximity with an archaeological monument (within 30m). Direct impact on this site cannot be ruled out as there are no publically available dimensions of the monument. Facilitated reroute would avoid monument but would impact a known outlier badger sett. The outlier badger sett was noted to be inactive at the time of survey. Mitigation measures may be required should the sett be found active during the construction phase.	No technical objection.	Neighbouring landowners have been consulted and proposed reroute has been accepted.	Partially facilitated	Request has been partially facilitated. Full reroute could not be accomodated due to the proximity of an archaeological monument.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00079

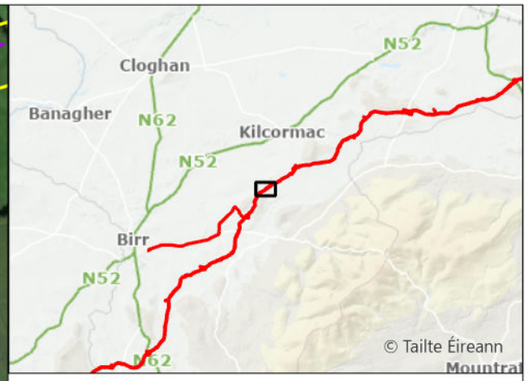
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FIGURE 79

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL192a TWB-4550	Landowner Reroute Request - alignment amendment to the south to avoid landowner's land	No environmental objection. Mitigation measures could be required to address any impacts to the stream in close proximity to the reroute. A separation distance should be kept with the stream.	No technical objection. Reroute would avoid trees to the east.	Proposed reroute is a continuation of a previously facilitated reroute and would reduce the impacts on adjacent landowners.	Facilitated	Request has been facilitated in conjunction with wider rerouting in the area.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

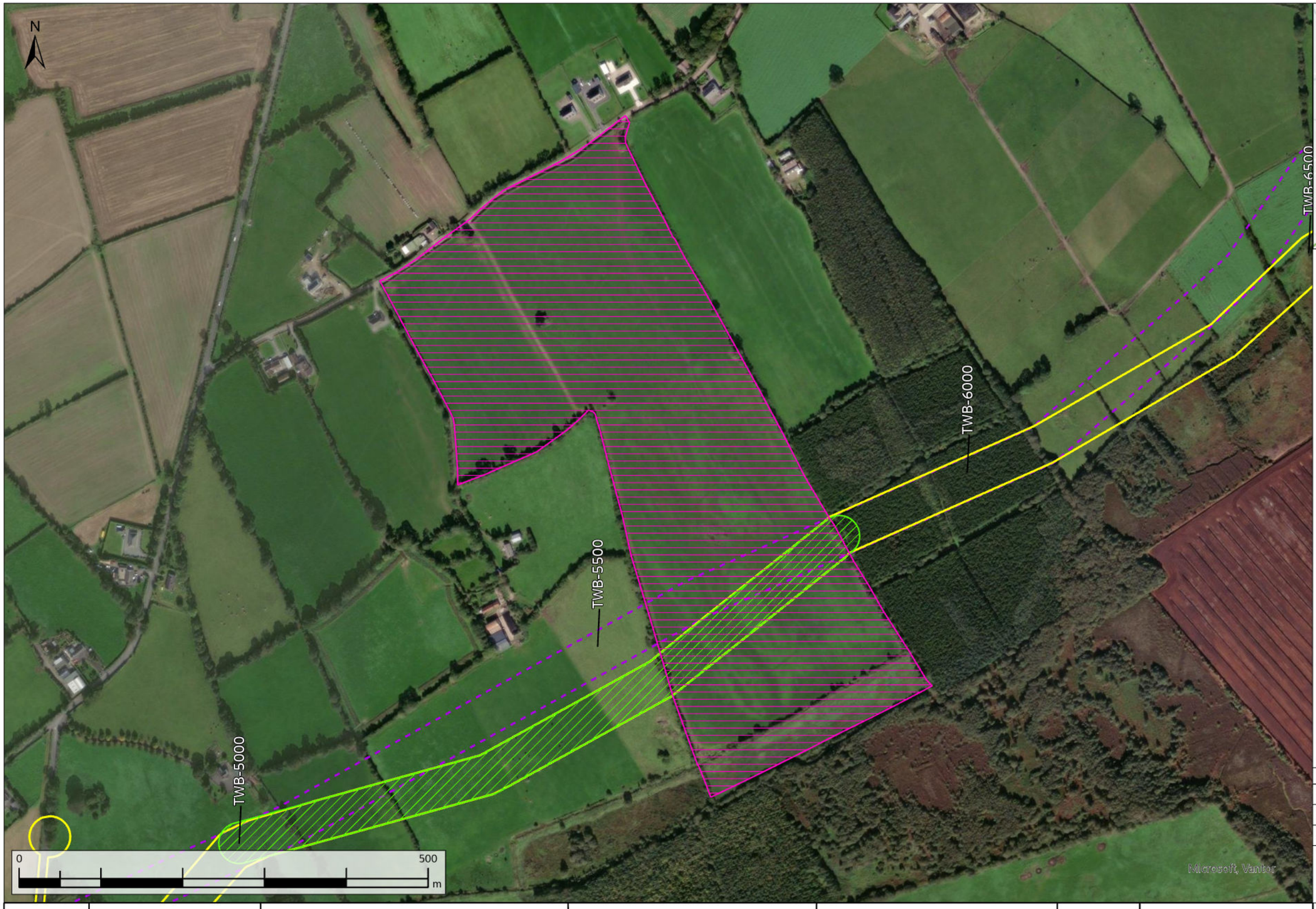
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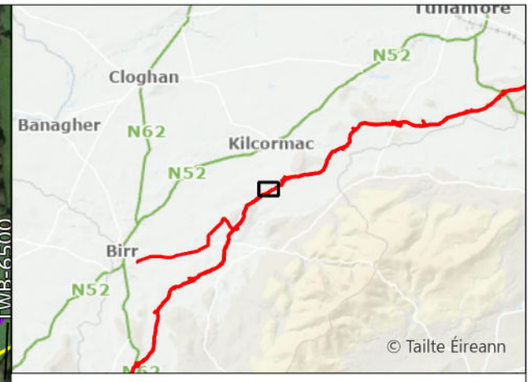
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FIGURE 80

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- No Reroute Required
- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL192b TWB-5550	Landowner Reroute Request - alignment amendment to the south into scrubland and to straighten the alignment.	Acceptable reroute environmentally. Mitigation measures could be required to address the presence of badger activity located within the facilitated section of reroute.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

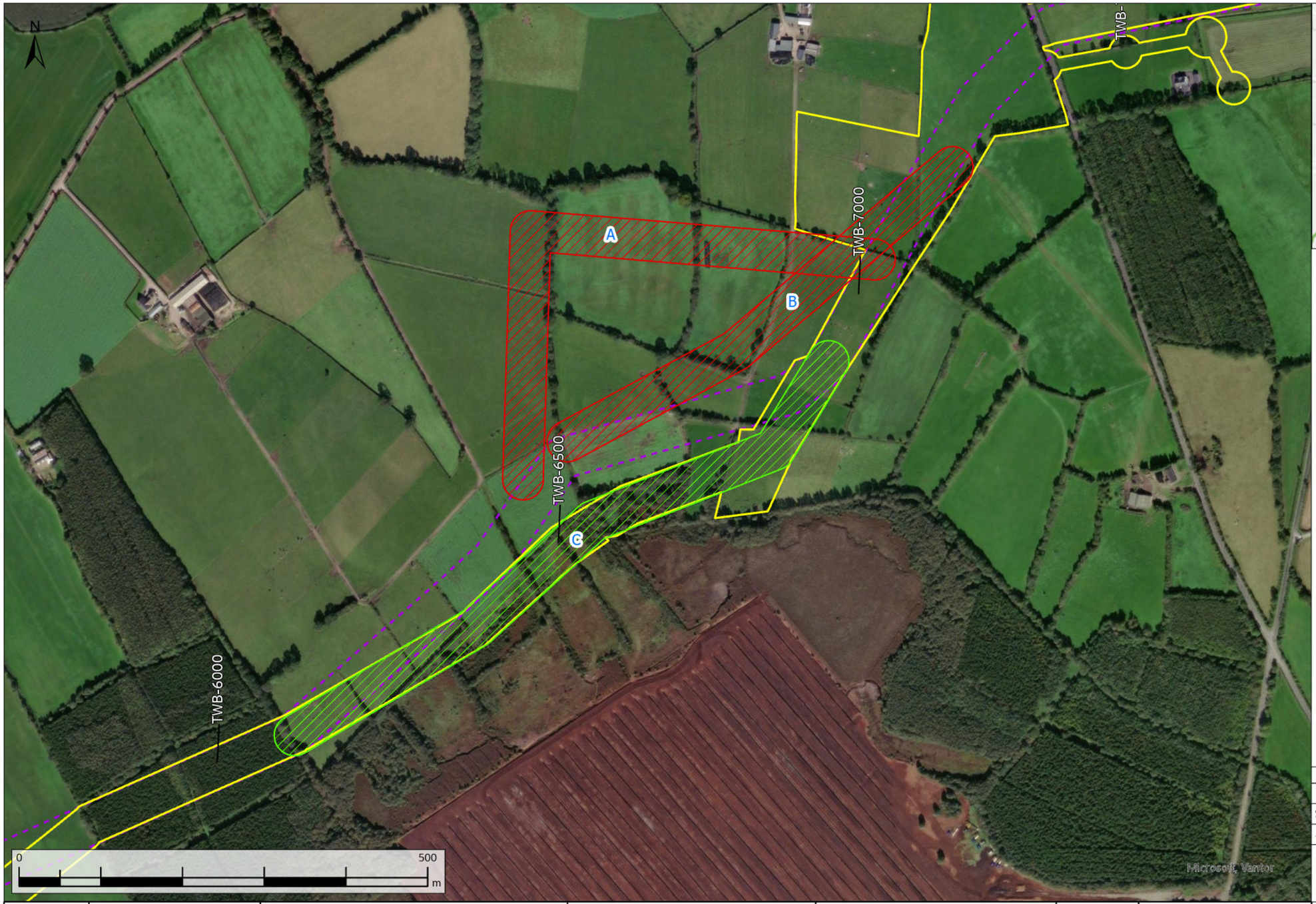
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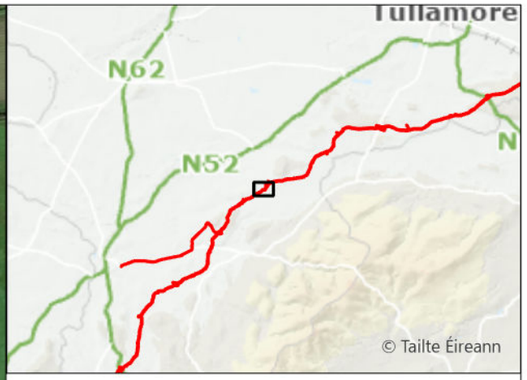
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FIGURE 81

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL194 TWB-6500	Landowner Reroute Request - alignment amendment options to remove the 'dogleg' and straighten the alignment.	Partially facilitated reroute is environmentally acceptable. Mitigation measures could be required to address the presence of badger activity located within the facilitated section of reroute. Rejected reroutes would affect agricultural land and tree / hedgelines. No additional studies were undertaken on the rejected options due to the impacts on adjacent landowners.	No technical objection with partially facilitated route. Rejected options (Options A and B) would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Landowner has been consulted and has agreed to partially facilitate the request of the adjacent landowner (Option C).	Partially facilitated	Request partially facilitated as Options A and B would introduce additional bends, impacting hydraulic performance. Landowner agreed to facilitate the request of the adjacent landowner (Option C).

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

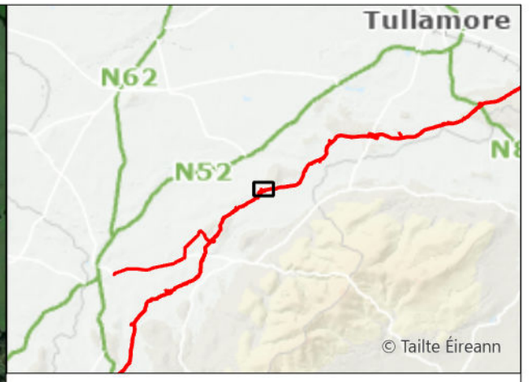
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FIGURE 82





Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL196 TWB-7400	Landowner Reroute Request - alignment amendment to avoid existing property and avoid existing mature tree planting.	Rejected reroute not environmentally acceptable from an ecological perspective as it would remove additional trees and hedgerows.	No technical analysis undertaken as proposed reroute was rejected for ecological reasons.	Reroute north of the treeline would impact on the land of additional landowners.	Not facilitated	Request rejected as it would not be possible to reroute into adjacent landowners land to the north. The current alignment avoids the existing mature trees.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

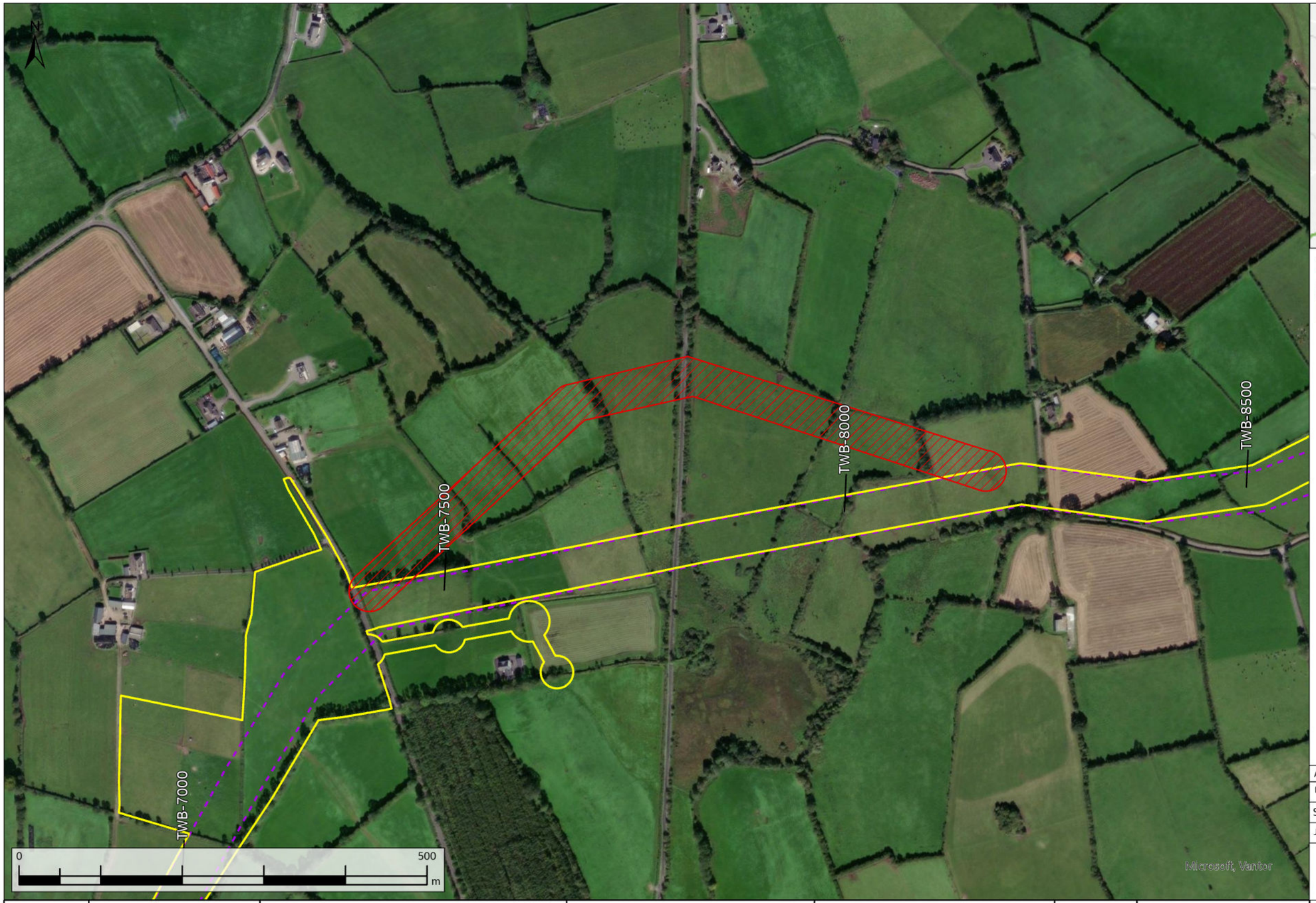
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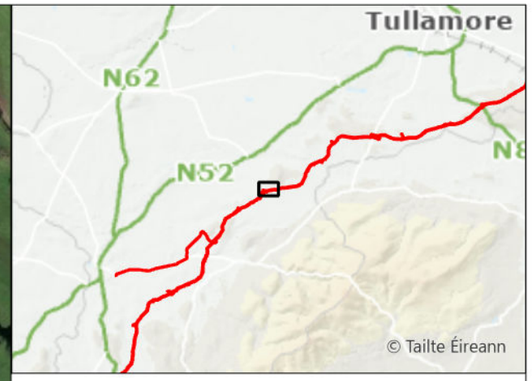
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FIGURE 83

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Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL198 TWB-7400	Landowner Reroute Request - alignment amendment to the north to avoid future development on landowner's land.	Acceptable from an environmental perspective. Mitigation measures could be required to address the removal of additional treelines and hedgerows.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	The reroute would impact an additional landowner.	Not facilitated	Request has been rejected as reroute would remove additional treelines and hedgerows, would compromise hydraulic performance of the pipeline and would impact additional properties.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00084

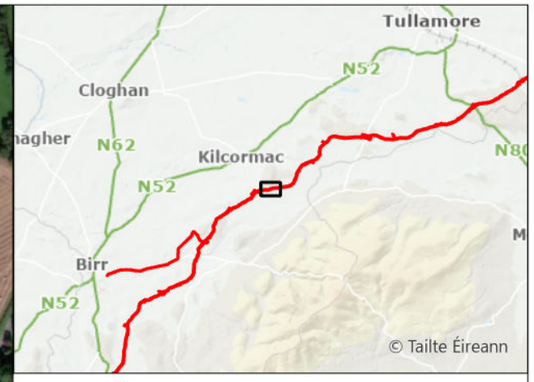
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FIGURE 84

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL200 TWB-8450	Landowner Reroute Request - alignment amendment to the northwest to run parallel to the field boundary.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

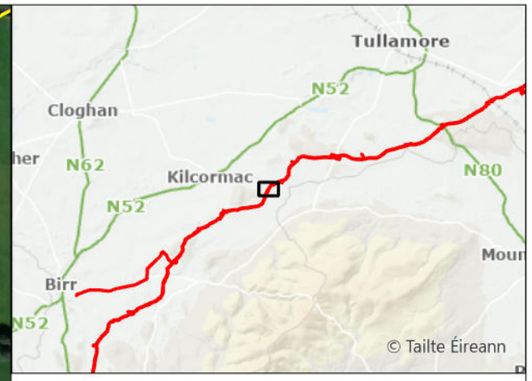
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FIGURE 85





Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL210 TWB-12000	Landowner Reroute Request - alignment amendment to the east to run closer to field boundaries and reduce impact on land.	No environmental objection.	No technical objection.	Adjacent landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

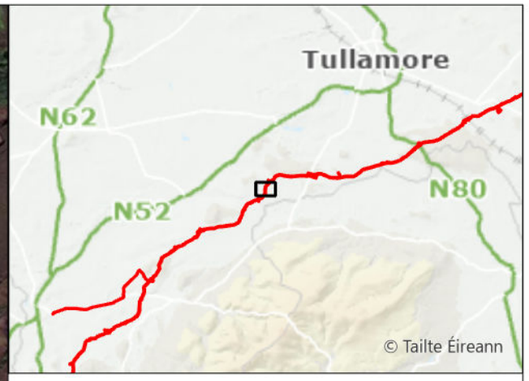
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FIGURE 86





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL215 TWB-14000	Landowner Reroute Request - alignment amendment to the north to run parallel to northern field boundaries.	Partially facilitated reroute would run parallel with a section of a watercourse and mitigation measures could be required to address the presence of otters in the area. A separation distance should be maintained.	Rejected reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies. Facilitated reroute is acceptable as technically similar to originally proposed alignment.	Adjacent landowners have been consulted and reroute would impact access to adjacent western property.	Partially facilitated	Request partially facilitated. The full reroute could not be accomodated due to the requirement to maintain acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Scale @ A3 — Scale: 1:5,000 — DO NOT SCALE

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

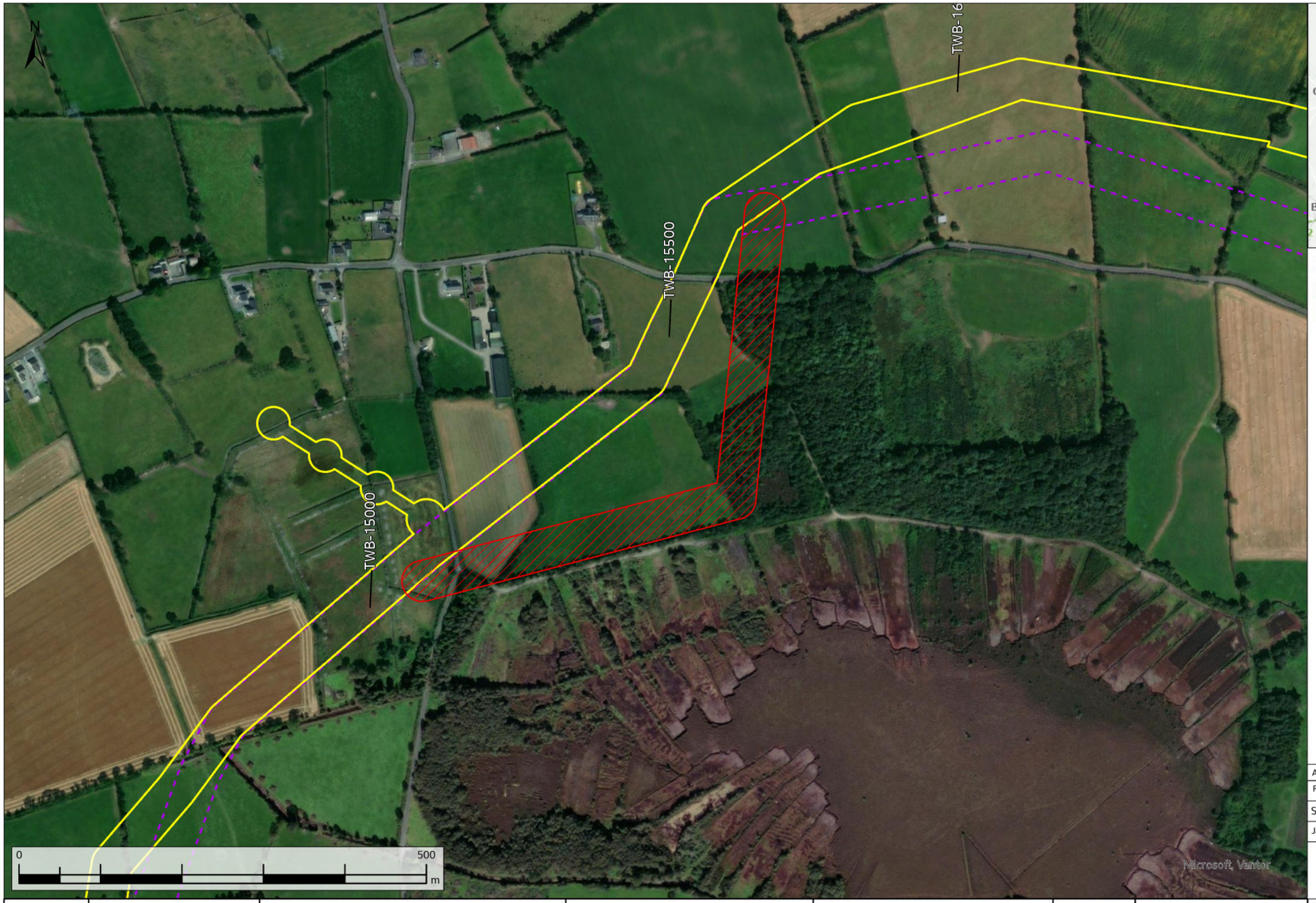
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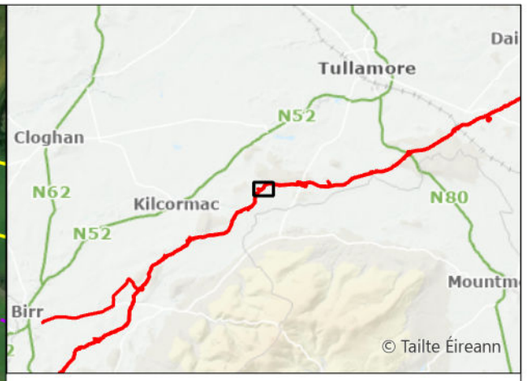
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FIGURE 87





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL218 TWB-15100	Landowner Reroute Request - alignment amendment to the southeast to run closer to the field boundaries and to avoid well.	Not environmentally acceptable due to the removal of mature trees used by commuting and foraging bat species.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute pipeline to the south. No landowner engagement as reroute has been rejected for environmental and technical reasons.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and avoid removal of extensive additional mature trees.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

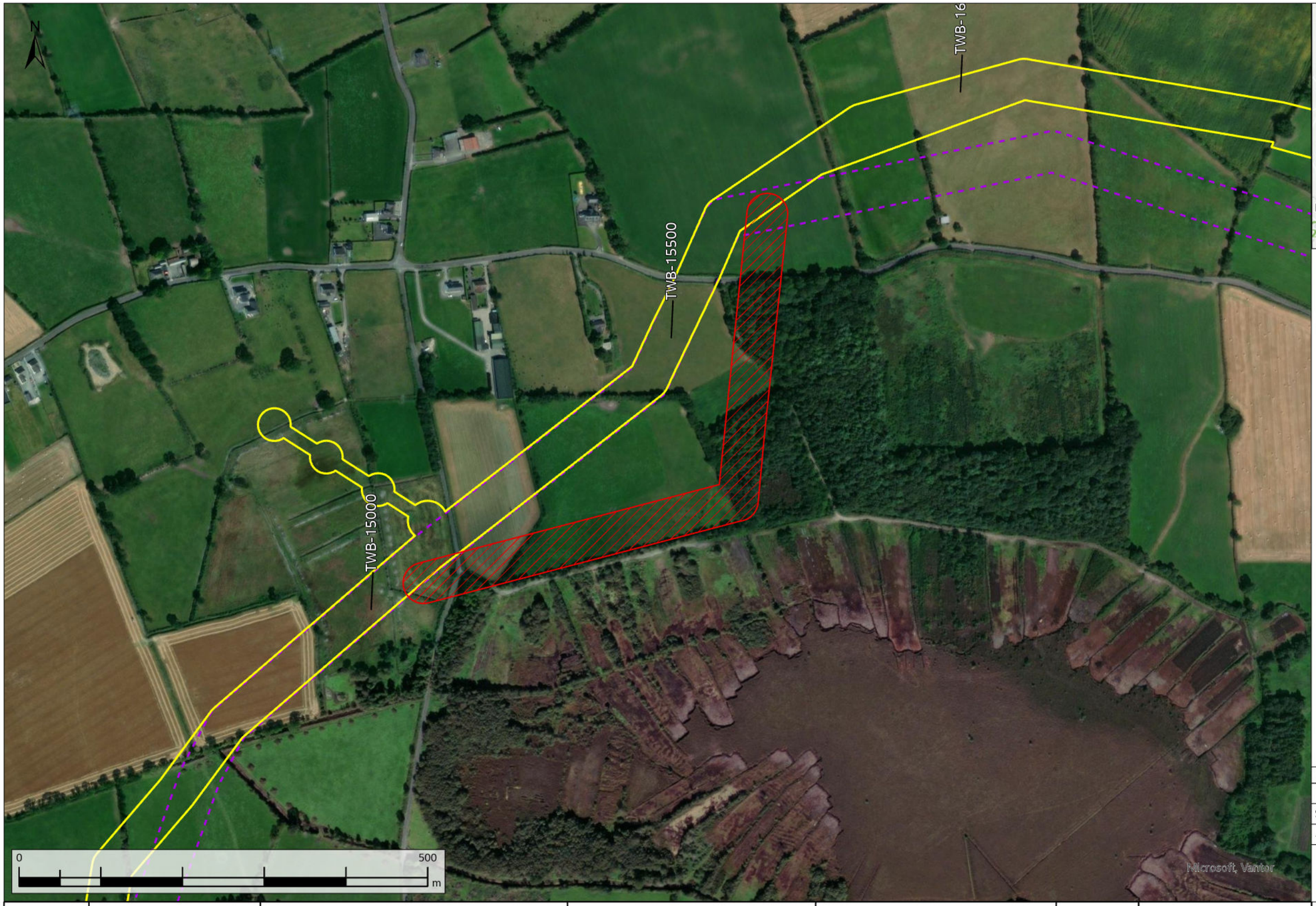
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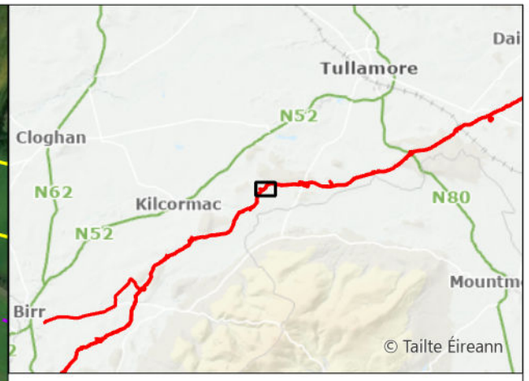
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FIGURE 88

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL219 TWB-15250	Landowner Reroute Request - alignment amendment to the southeast to run closer to the field boundaries and to avoid well.	Not environmentally acceptable due to the removal of mature trees used by commuting and foraging bat species.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute pipeline to the south. No further landowner engagement as reroute has been rejected for environmental and technical reasons.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and avoid removal of extensive additional mature trees.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

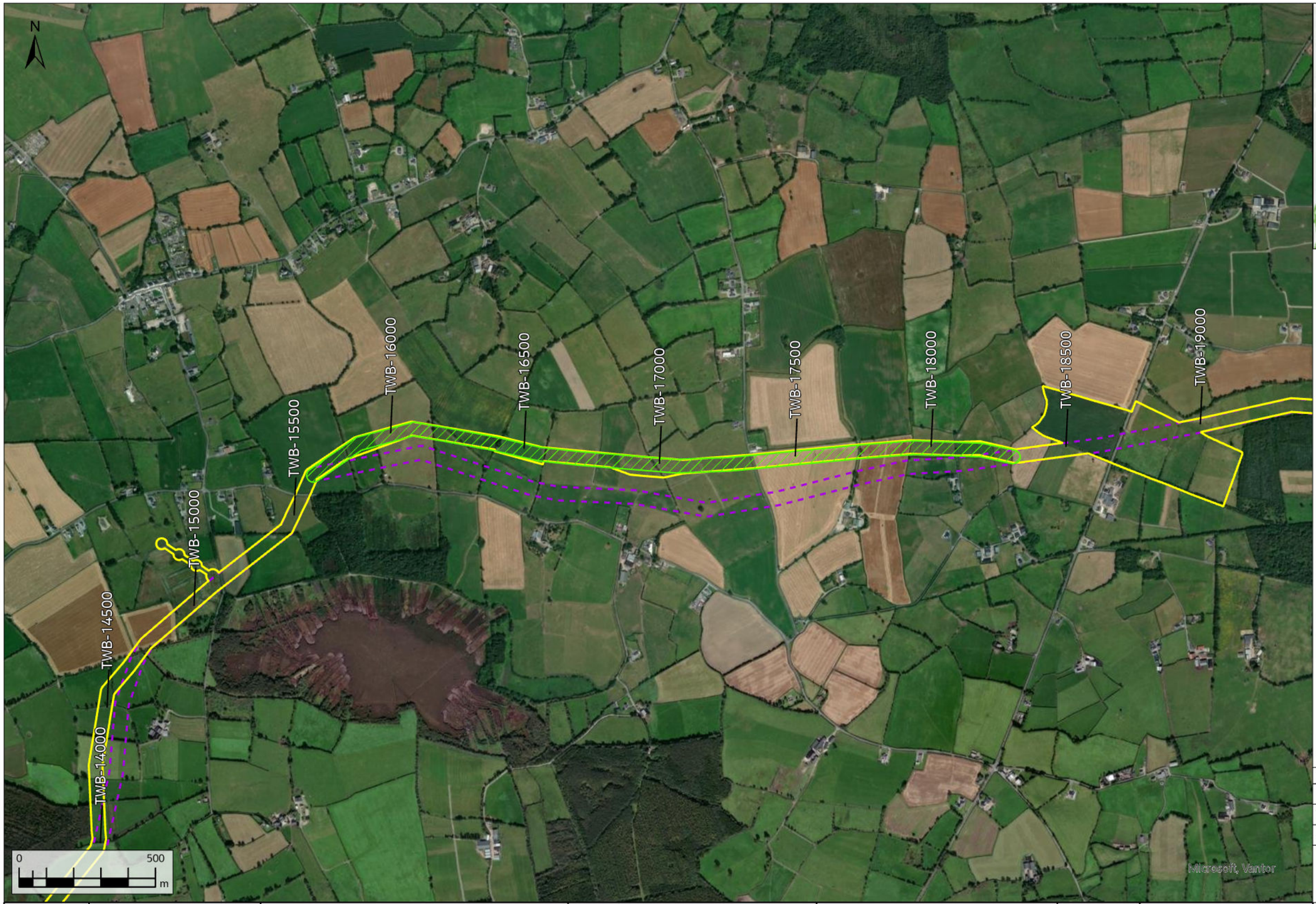
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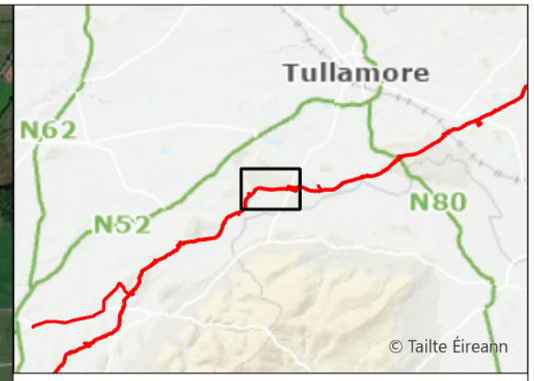
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FIGURE 89

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL220 TWB-15650	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

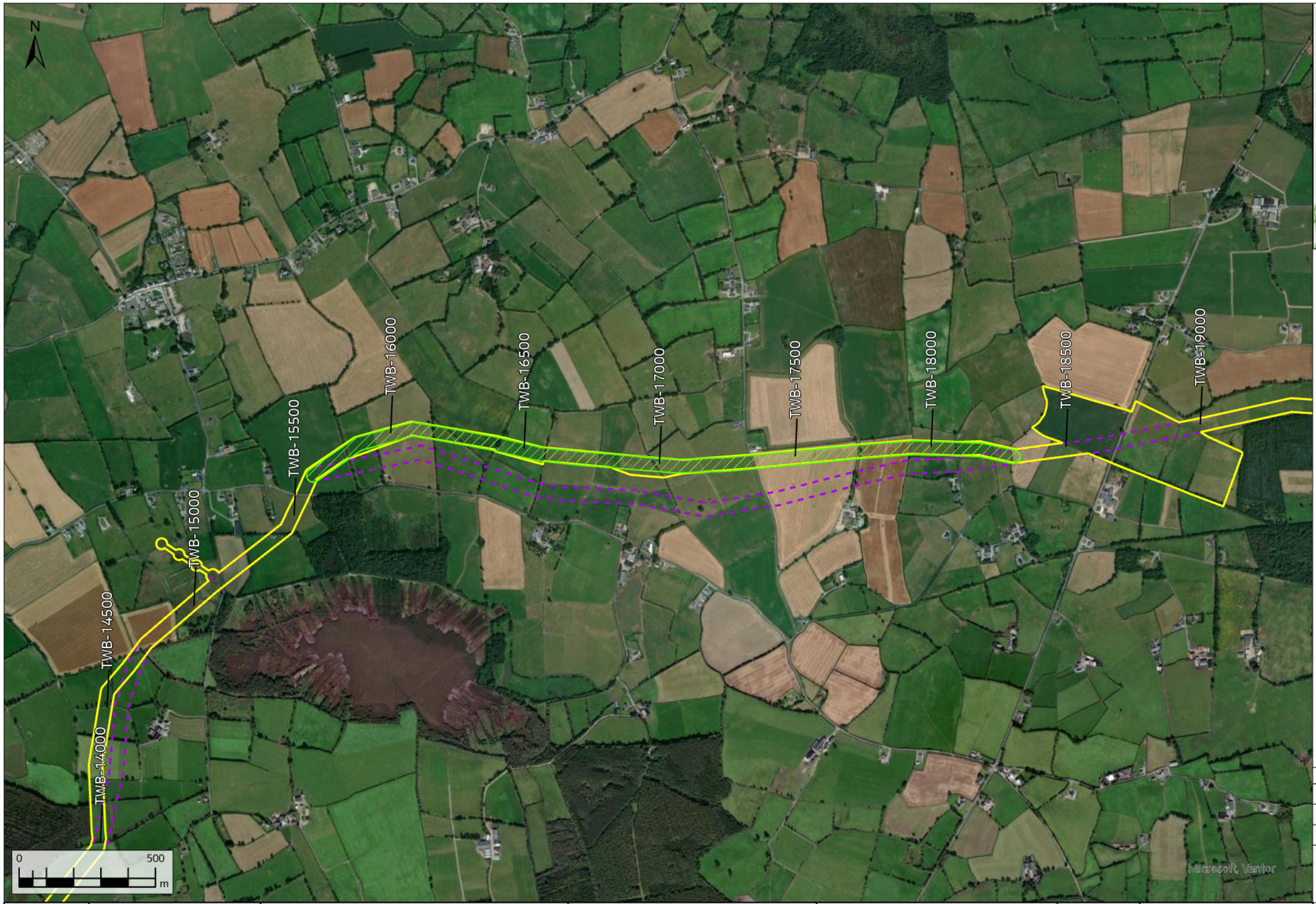
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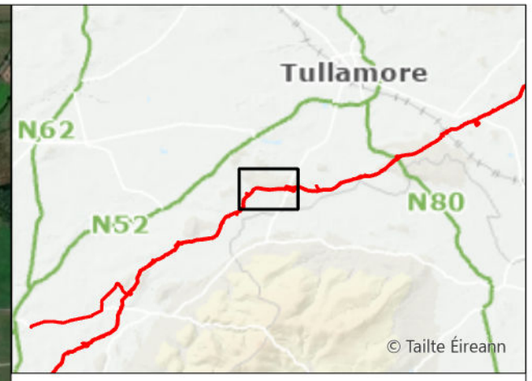
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FIGURE 90

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL221 TWB-16000	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

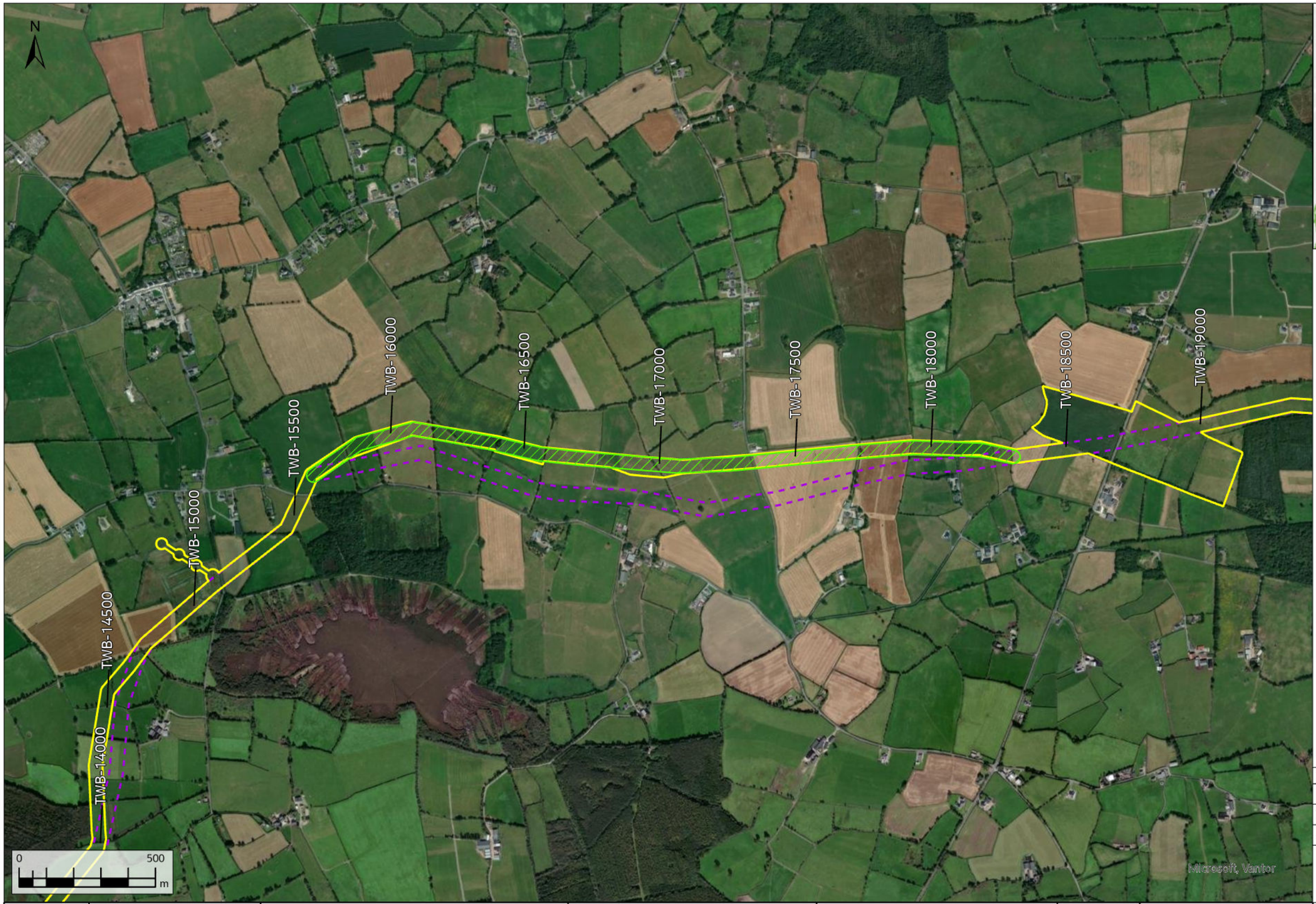
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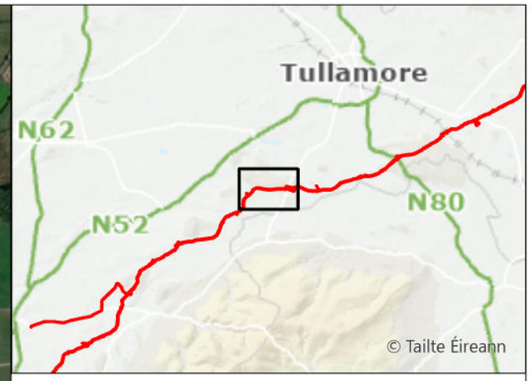
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FIGURE 91

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL222 TWB-16150	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

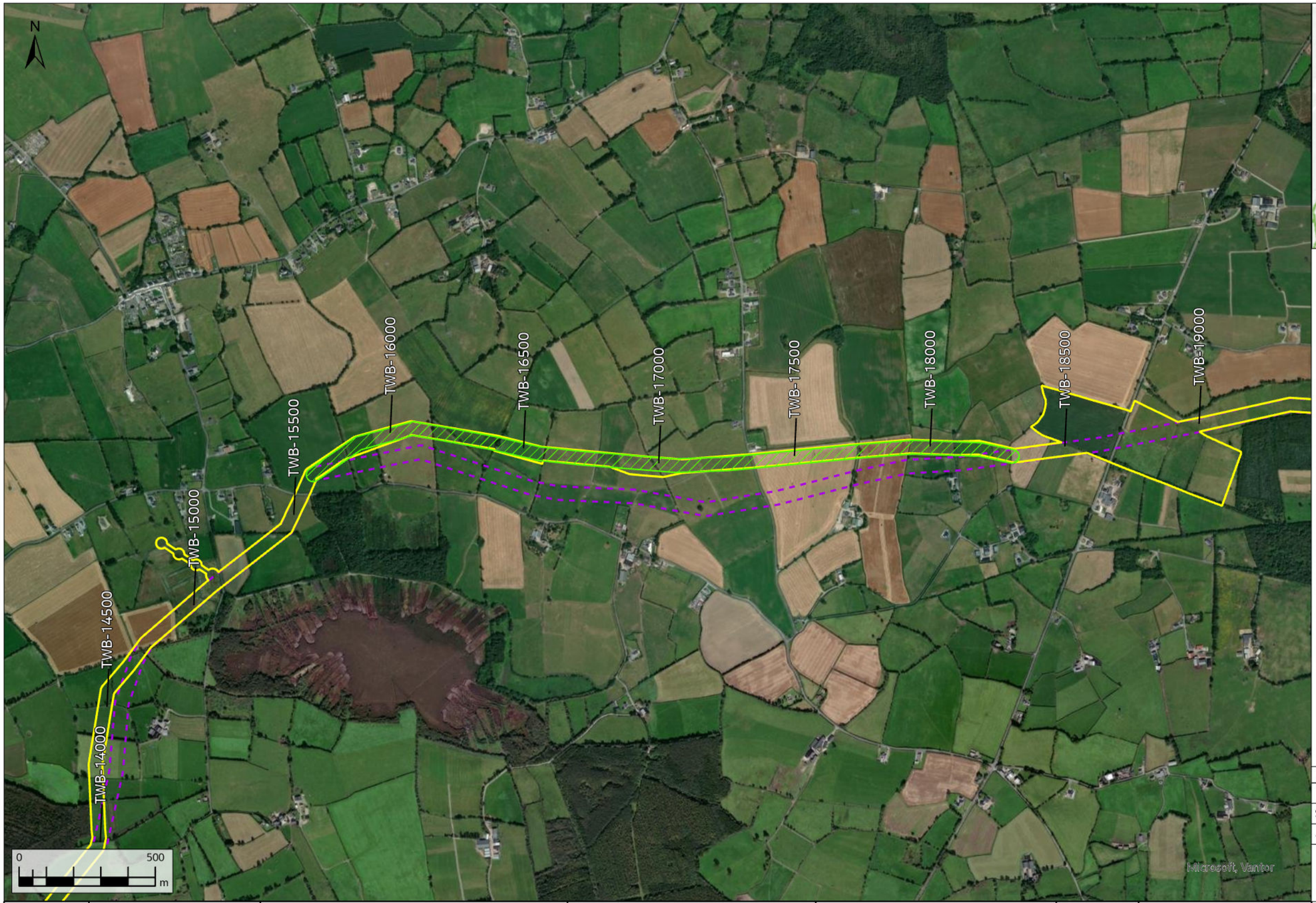
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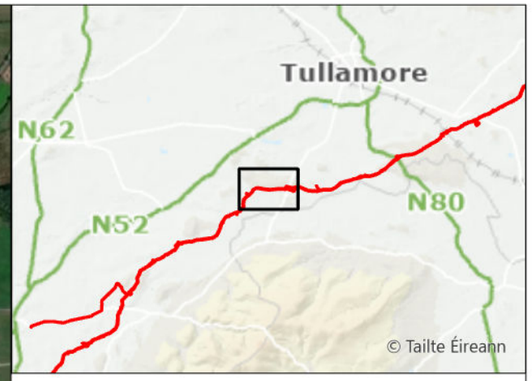
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FIGURE 92

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL223 TWB-16300	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

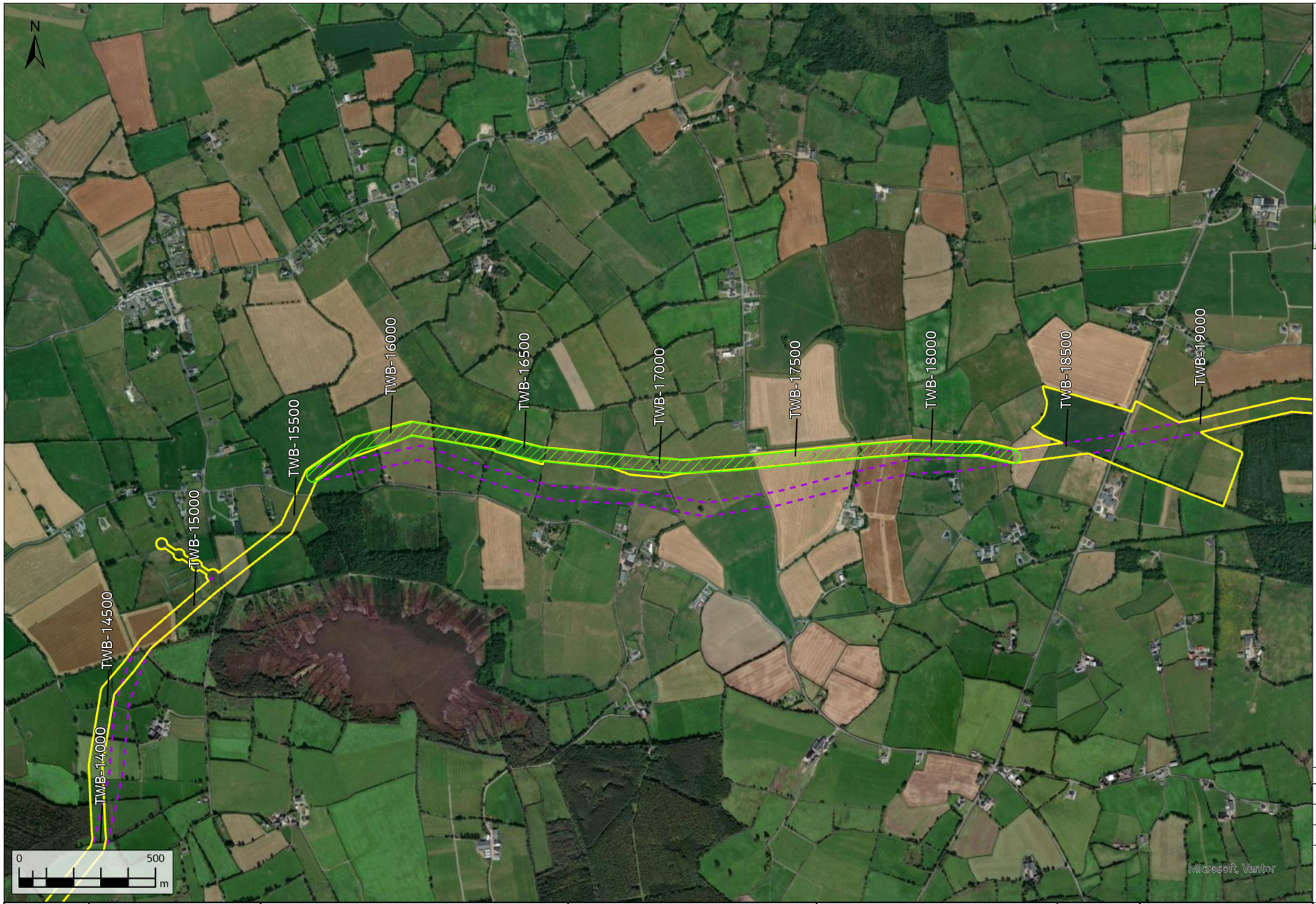
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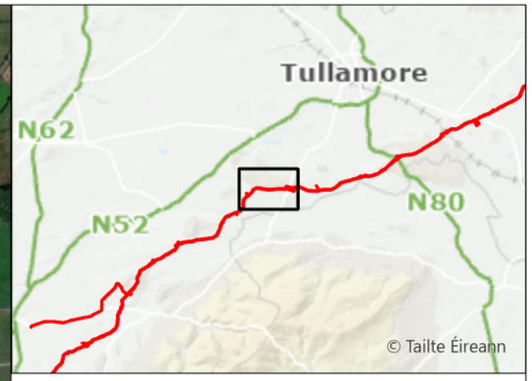
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FIGURE 93

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL224 TWB-16500	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

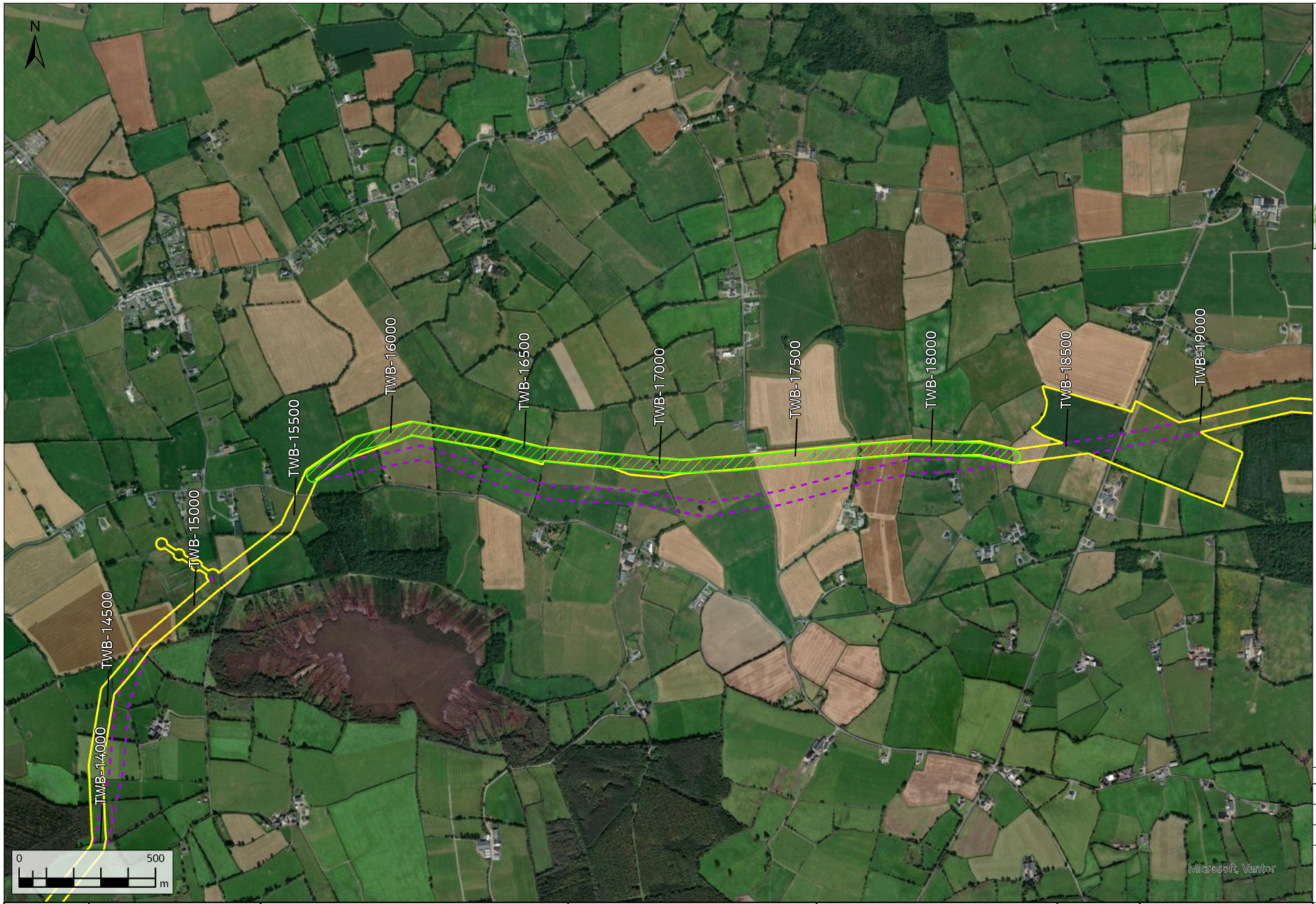
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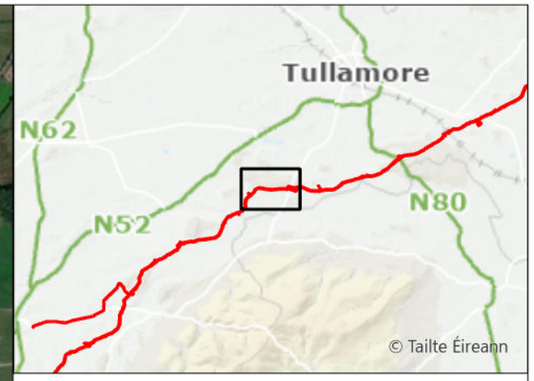
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FIGURE 94

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL226 TWB-17100	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

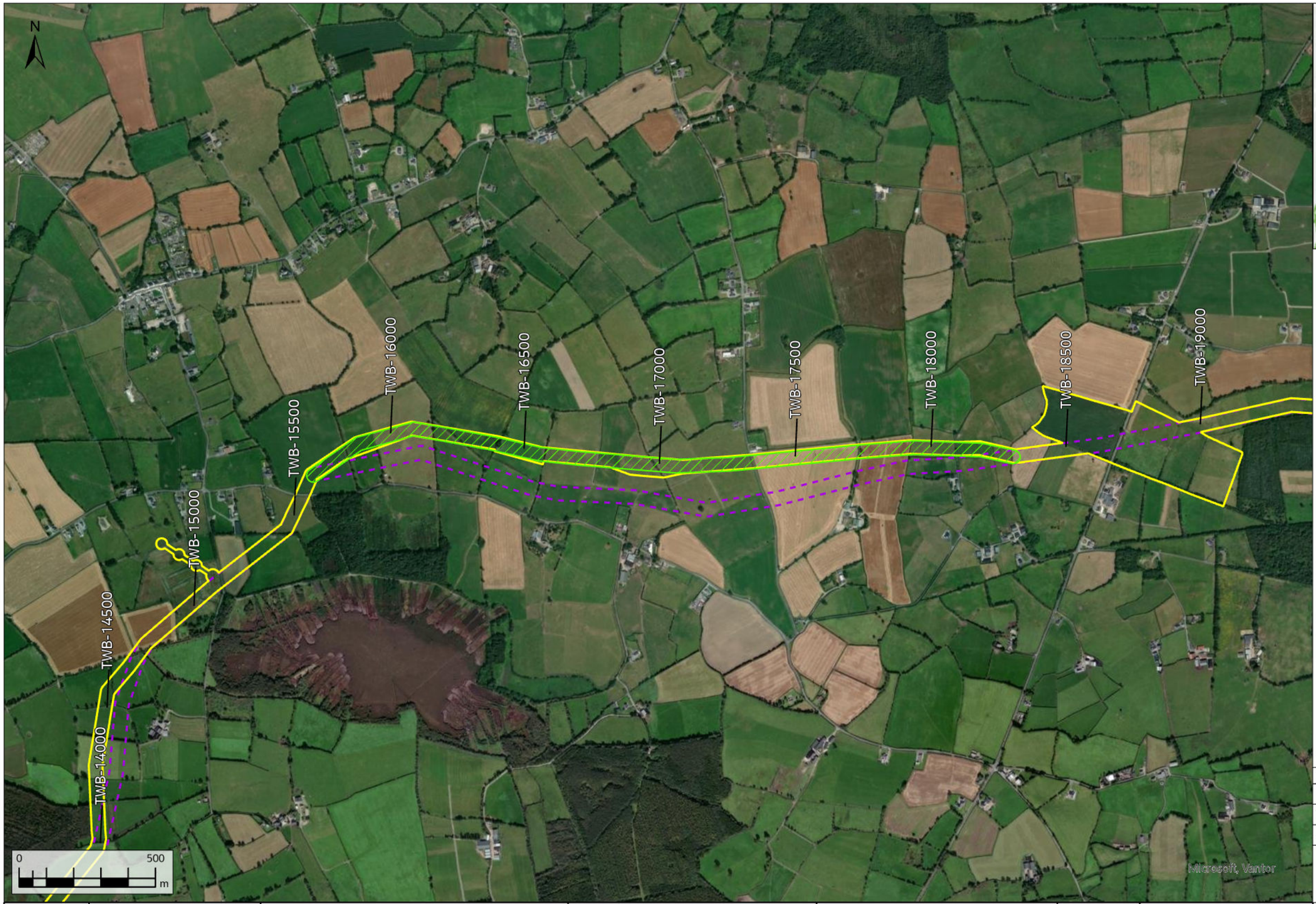
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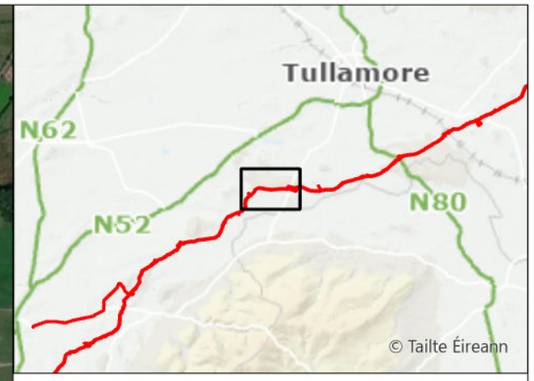
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FIGURE 95





Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL227 TWB-17300	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

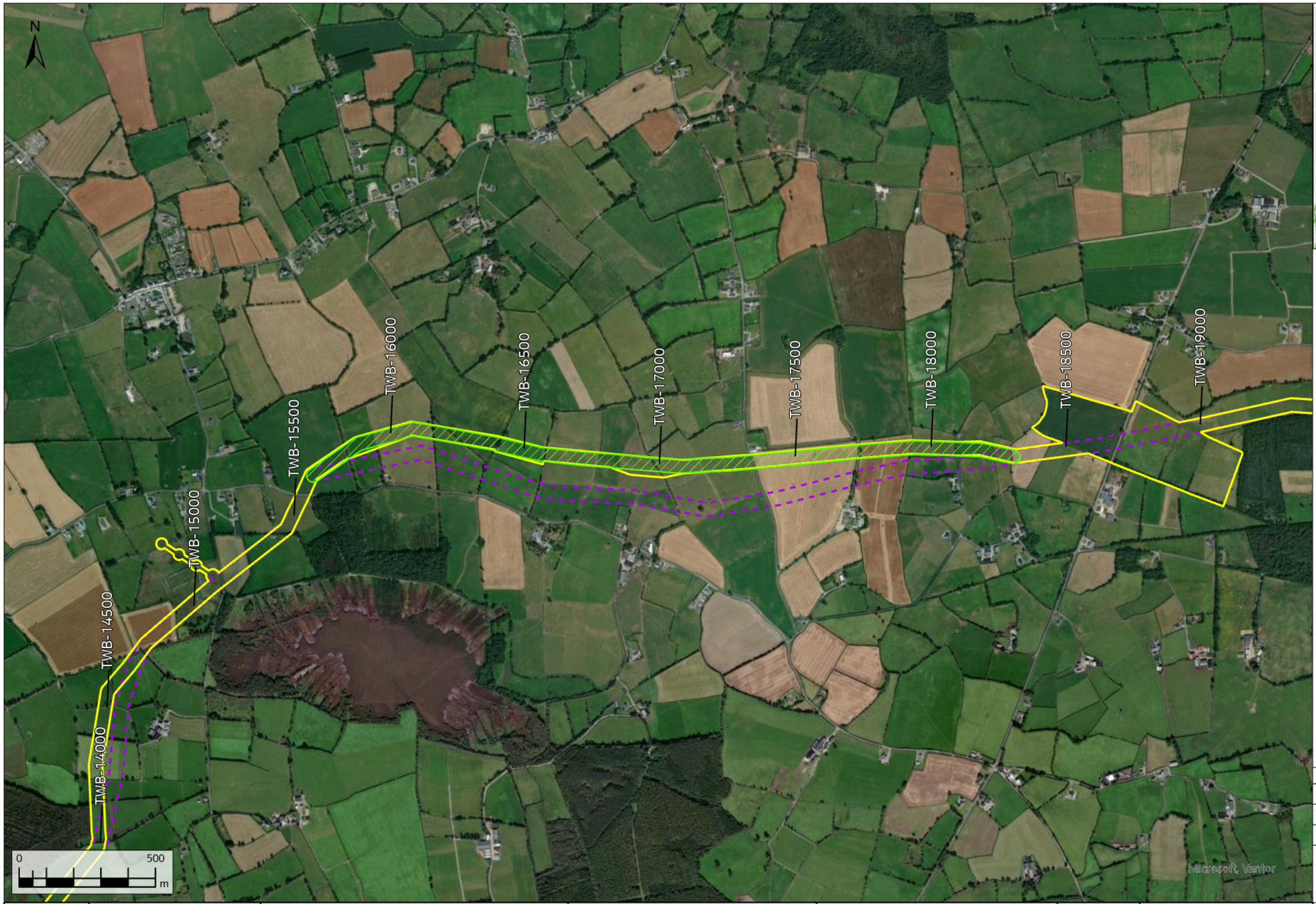
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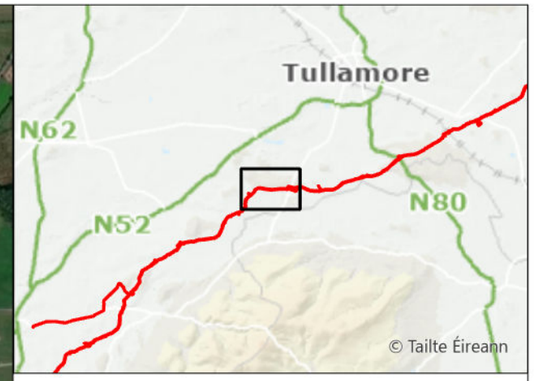
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FIGURE 96

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL228 TWB-17900	Landowner Reroute Request - alignment amendment to the north as multiple landowners have expressed interest to reroute the pipeline.	No environmental objection.	No technical objection.	Group landowner request - landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

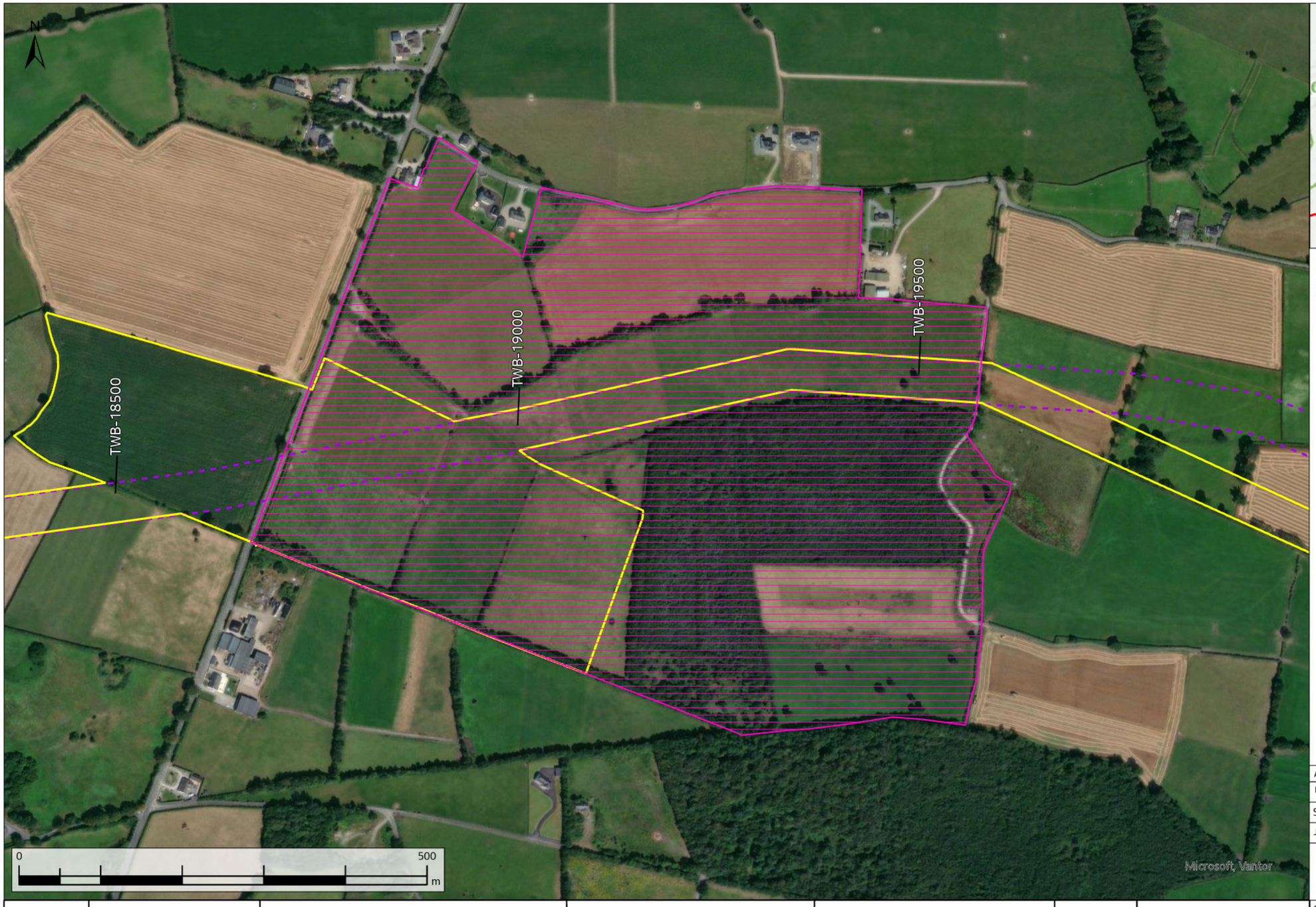
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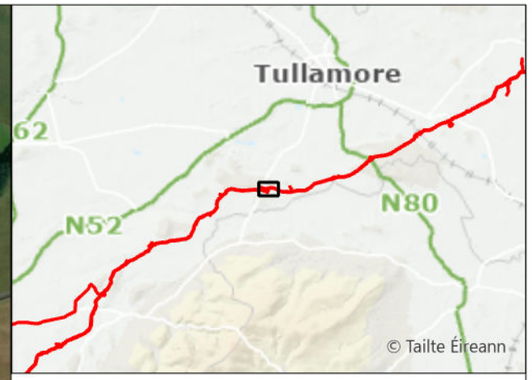
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FIGURE 97

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No Reroute Required

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL229 TWB-18700	Landowner Reroute Request - valves and chambers on proposed pipeline to be located to the eastern side of folio.	No environmental analysis of route required.	No technical analysis of route required.	No landowner engagement required.	No Reroute Required	No reroute required.

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Drawing Title: REROUTE MAPPING

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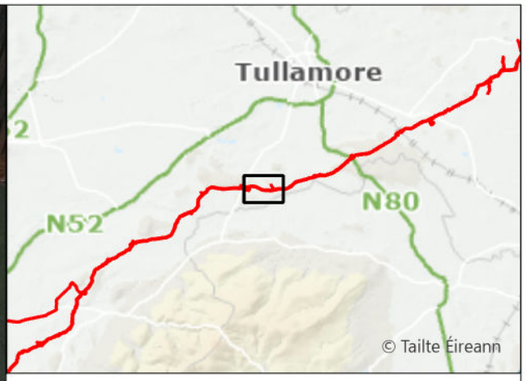
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FIGURE 98

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL232 TWB-20000	Landowner Reroute Request - alignment amendment to the south to reduce land split.	No environmental objections.	No technical objection.	By rerouting the pipeline south, the impact of splitting land within Folio OY6409N (WL232) would be significantly reduced. Adjacent landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

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Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

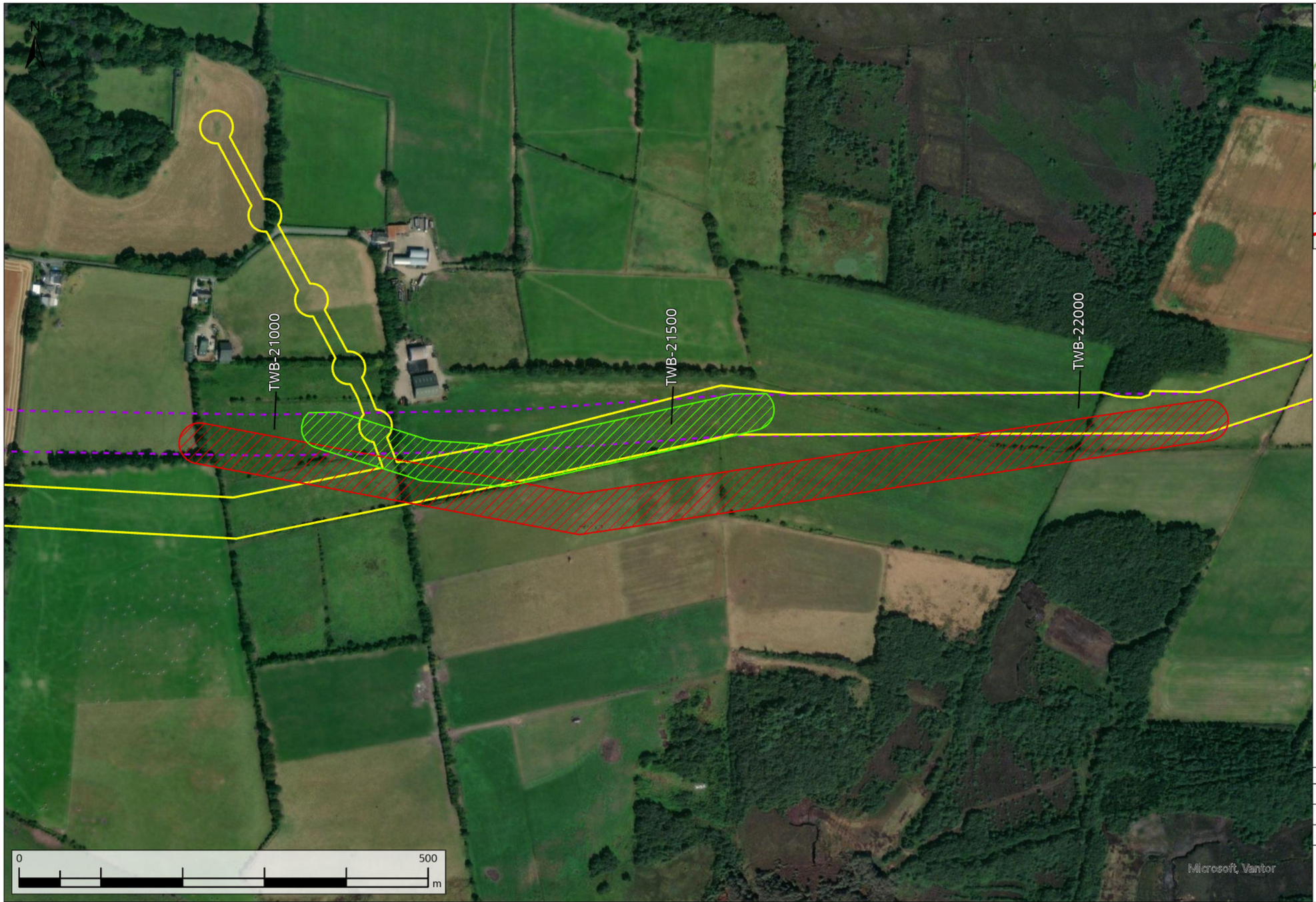
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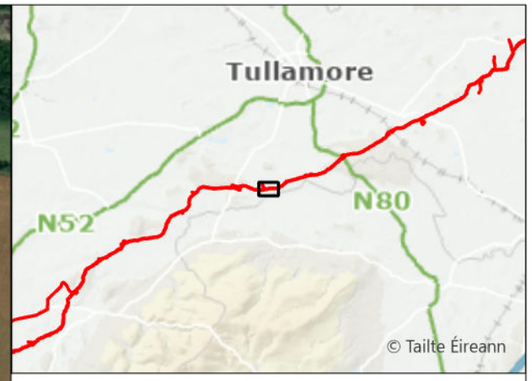
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FIGURE 99

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL236 TWB-21150	Landowner Reroute request - alignment amendment to the south to avoid farm buildings.	Partially facilitated reroute - no environmental objection. Rejected reroute would introduce additional watercourse crossing.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted. Note that the initially agreed reroute has subsequently been amended in line with the request from WL232 landowner.	Partially facilitated	Request partially facilitated to move away from farm buildings but realigned to avoid additional watercourse crossing.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

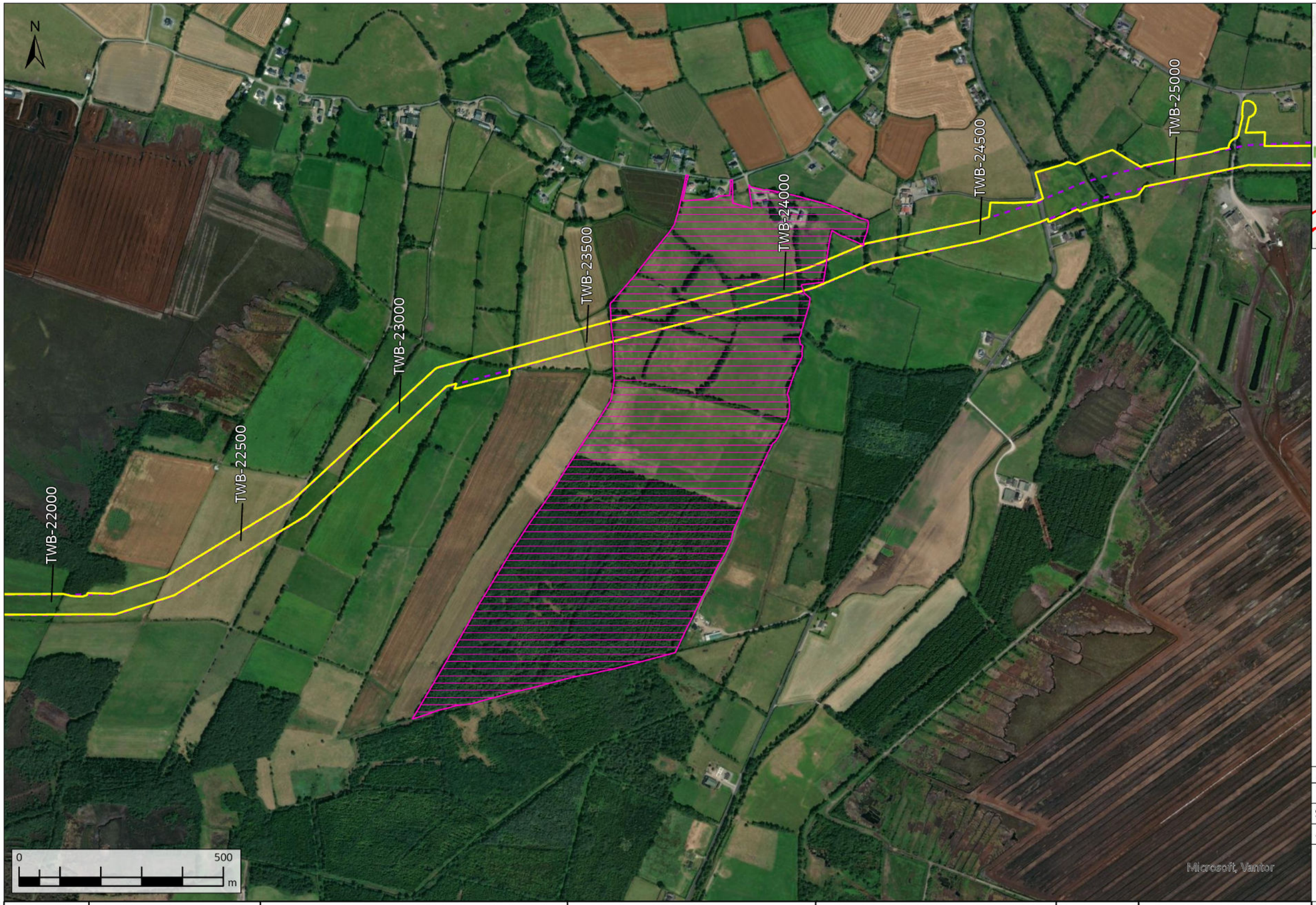
Drawing Title: REROUTE MAPPING

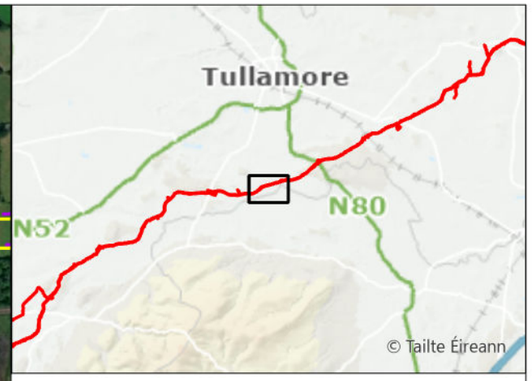
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FIGURE 100





No Reroute Required
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL243 TWB-23550	Landowner Reroute Request - request has been made by landowner to adjust the construction working width outside of the folio. Planning for wind turbines to be built adjacent to pipeline and includes access road crossing and cables crossing pipeline construction working width.	No environmental analysis.	Statement made to Uisce Éireann is as follows: Gurteen Lower Wind Farm is located southeast of Thurles, in excess of 50m from the proposed pipeline. With regard to the wind farm structures, such as the turbine bases, these would have to be outside the permanent easement of 20m. However, this restriction does not apply to other site works such as access roads and cabling. With regard to cabling, this is usually installed at a shallower depth than the pipeline which can be aligned to accommodate; but also ensuring that there is adequate clearance between".	Landowner has highlighted that they have signed to build wind turbines adjacent to the pipeline route which includes an access road over the construction working width and cabling passing through, and were concerned about the crossing of electrical cables being restricted and impacting the planning process.	No Reroute Required	No reroute request.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

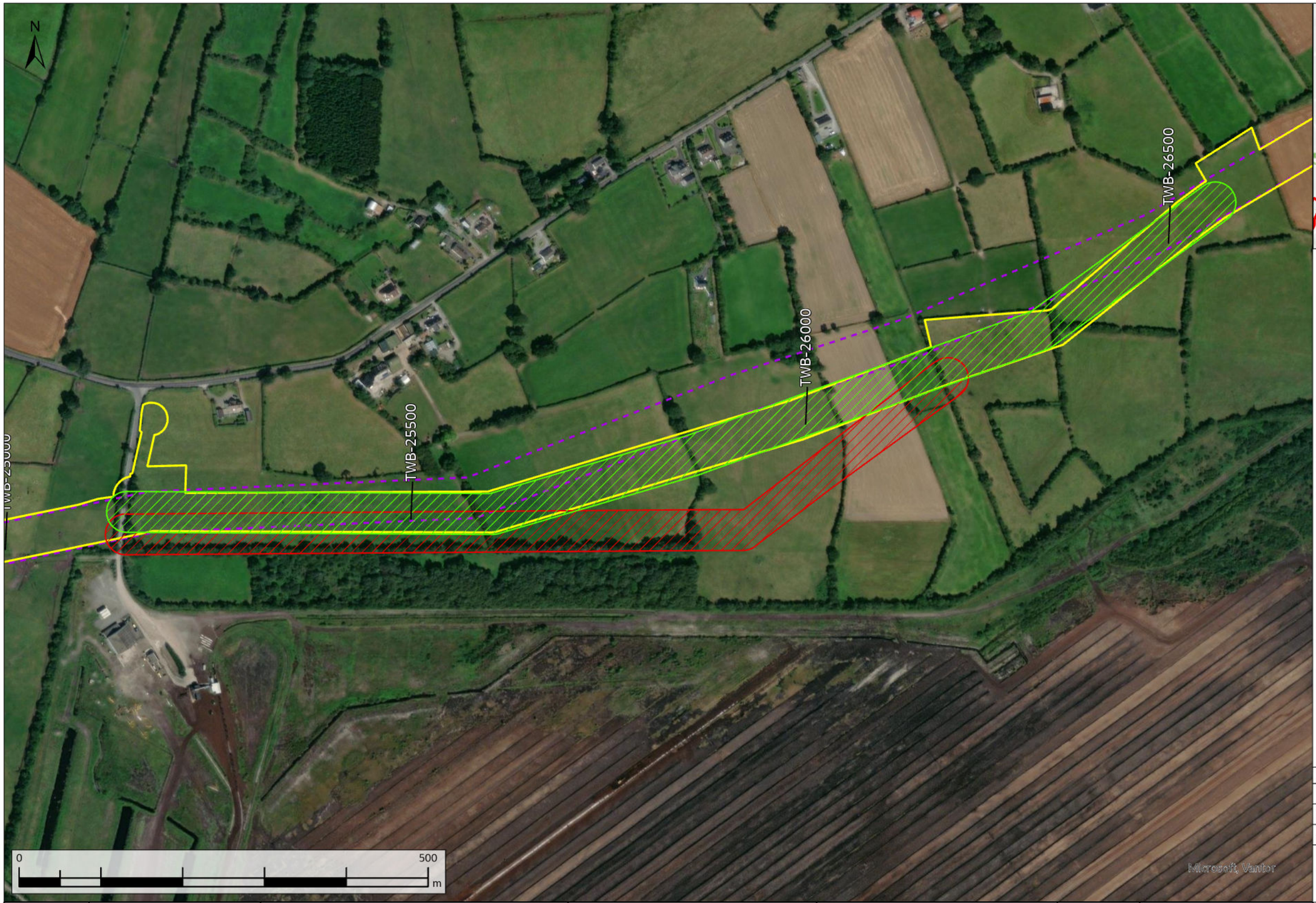
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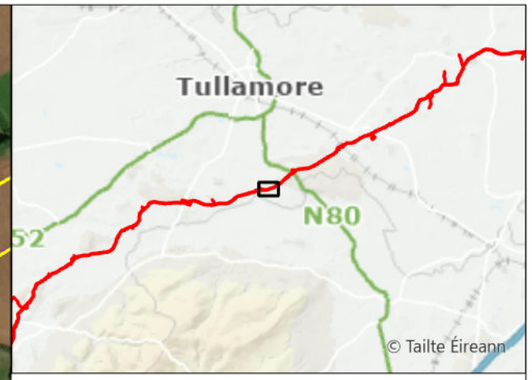
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FIGURE 101

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL249 TWB-25100	Landowner Reroute request - alignment amendment south to run parallel to the southern boundary, within the forestry and scrubland.	No environmental objections to the facilitated reroute. Rejected reroute would require removal of additional treeline / hedgerow.	No technical objections to the facilitated reroute. Rejected reroute would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Rejected reroute would impact on the land of additional landowners.	Partially facilitated	Request partially facilitated. Full reroute could not be accomodated due to the requirement to maintain acceptable pipeline alignment and minimise environmental impacts.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

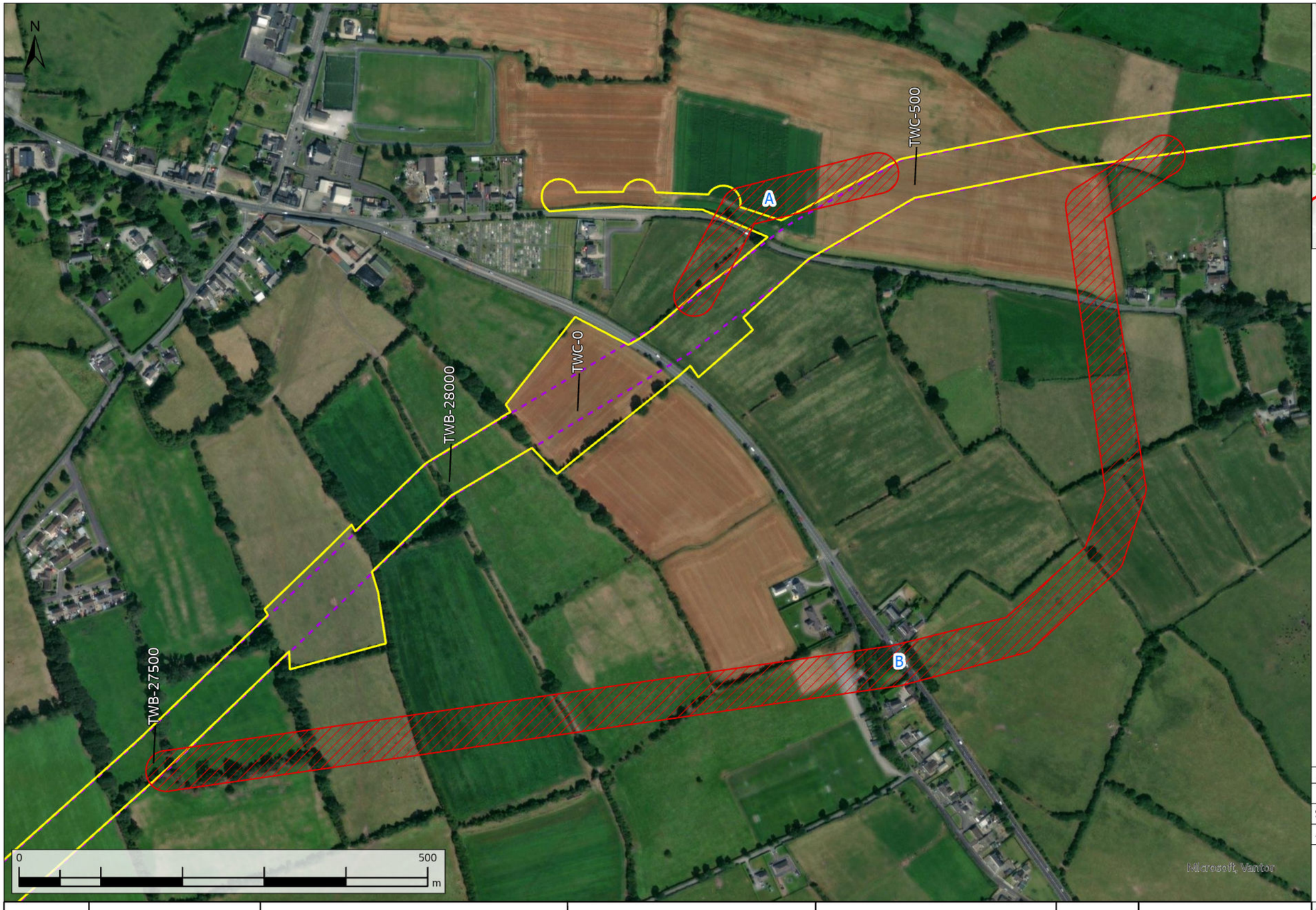
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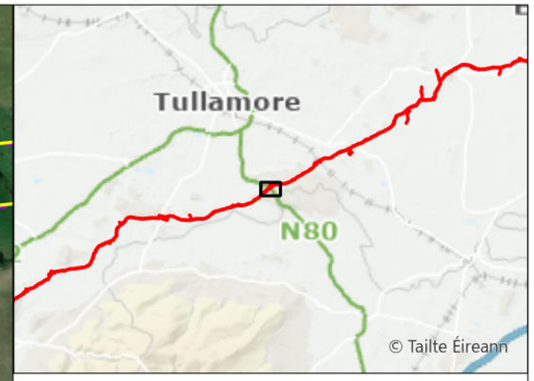
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FIGURE 102

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL258 TWC-100	Landowner Reroute Request - alignment amendment options to avoid landowner's land.	Option A - would require the removal of additional treeline/ hedgerow. Option B - would result in unacceptable impact on existing properties.	Both reroute options would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies. Option B would pass in close proximity between two existing properties and stables, which would limit the construction working area and create a construction pinch point at the road crossing.	Both reroute options would impact on the land of adjacent landowners.	Not facilitated	Request not facilitated due to the requirement to maintain acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

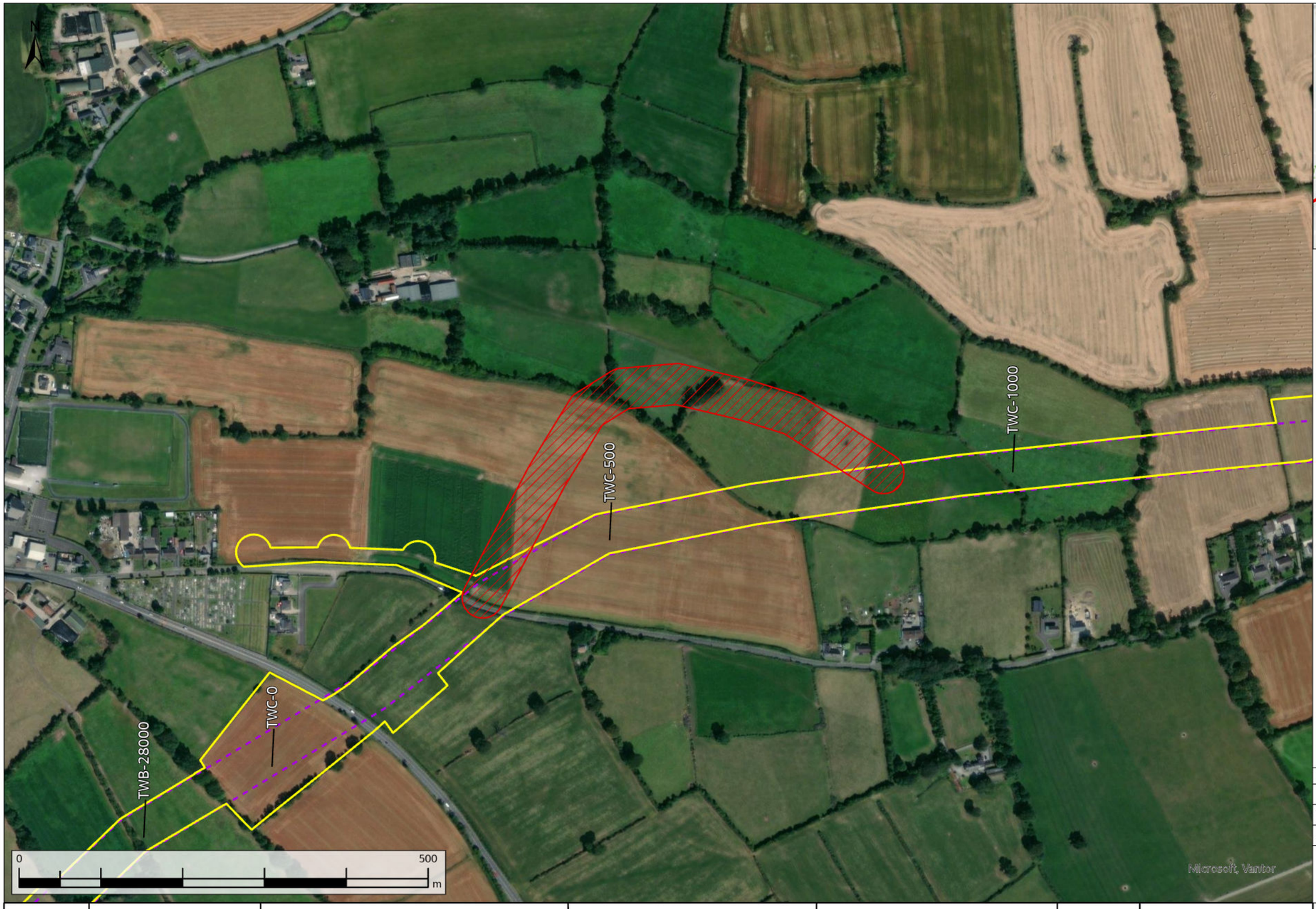
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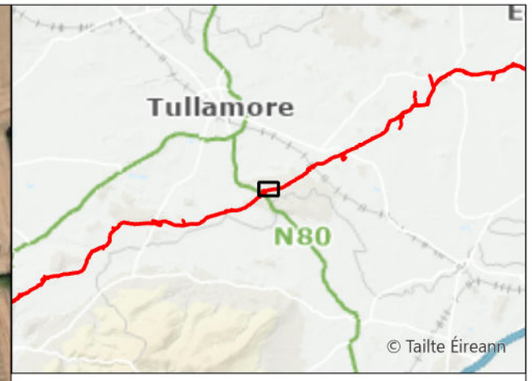
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FIGURE 103

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL259 TWC-300	Landowner Reroute request - alignment amendment to the north to change route to cross straight through land.	The proposed reroute would require the removal of additional treeline / hedgerow.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowner has been consulted. Reroute would impact on the land of adjacent landowner.	Not facilitated	Request not facilitated due to the requirement to maintain acceptable pipeline alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

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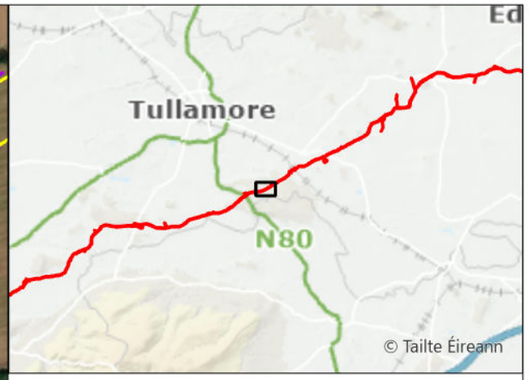
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FIGURE 104

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL263 TWC-1500	Landowner Reroute Request - alignment amendment to run the pipeline parallel to field boundary while also avoiding land immediately in front of the property.	No environmental objection.	No technical objection.	No consultation needed with adjacent landowners as reroute would not impact adjacent land.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

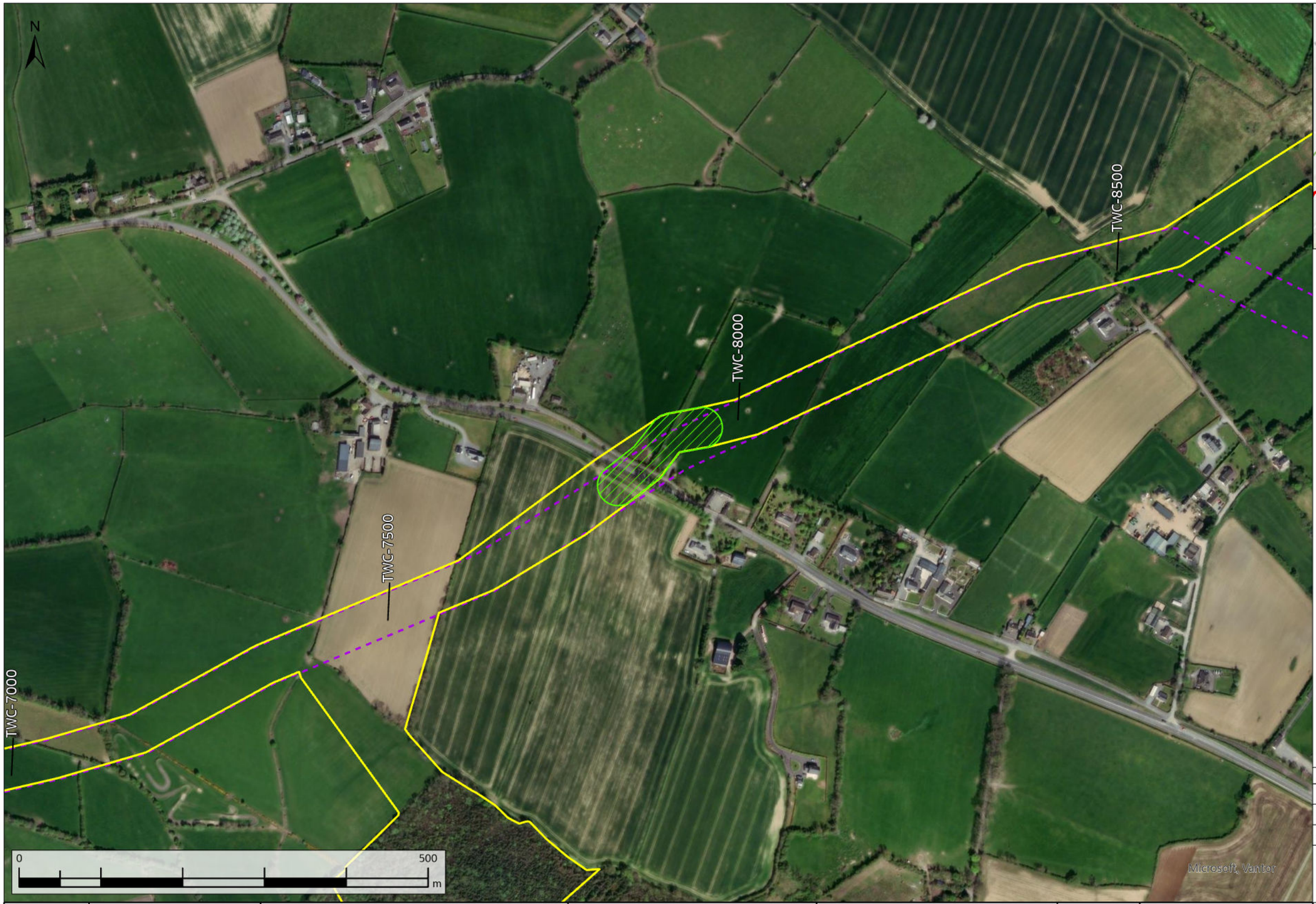
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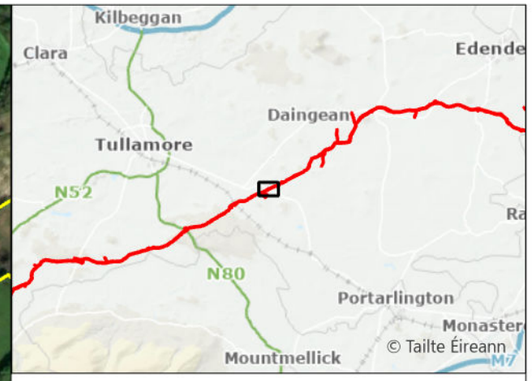
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FIGURE 105

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL275	Landowner Reroute Request - alignment amendment to avoid proposed site for future development.	No environmental objection.	No technical objection. The reroute would avoid any impact on the project's percolation area and access roads by the potential development of a site .	No consultation needed with adjacent landowners.	Facilitated	Request has been facilitated. Construction working width avoids the extent of the landowner's proposed development.
TWC-7800						

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Drawing Title: REROUTE MAPPING

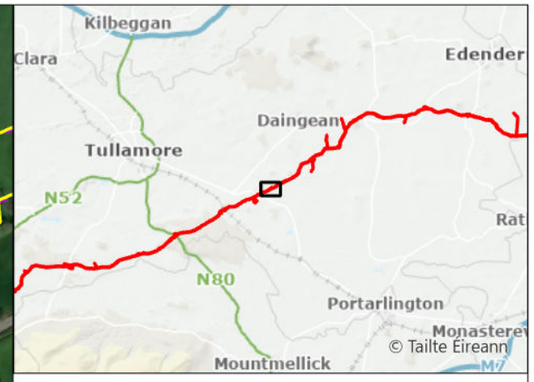
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FIGURE 106





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL278 TWC-8550	Landowner Reroute Request - alignment amendment to minimse impact on Group Water Scheme.	The reroute moves in close proximity to a badger sett and additional mature trees however these would be avoided through use of trenchless techniques.	Consultation undertaken with the Group Water Scheme to identify the location of abstraction wells has confirmed that the proposed reroute would be outside the source's zone of influence. The road crossing and trees would be avoided through use of trenchless techniques.	Adjacent landowners have been consulted and the proposed reroute has been accepted.	Facilitated	Request has been facilitated as the reroute is no longer within the Group Water Scheme's zone of influence.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00107

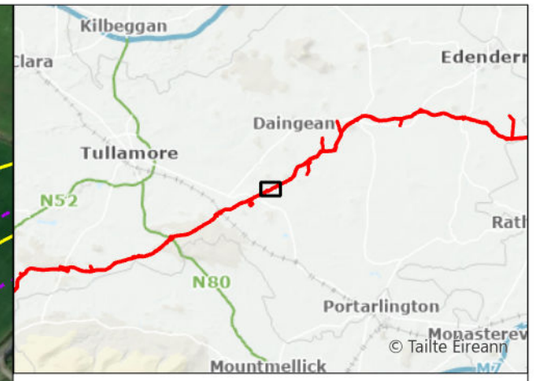
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FIGURE 107

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- No Reroute Required
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL282 TWC-9400	Landowner Reroute Request - landowner expressed concern about potential site for future development being impacted by the route.	No environmental analysis as no reroute has been suggested.	No technical objection.	No consultation with adjacent landowners required.	No Reroute Required	No reroute request given. Confirmation given that 20m permanent wayleave does not impact site.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00108

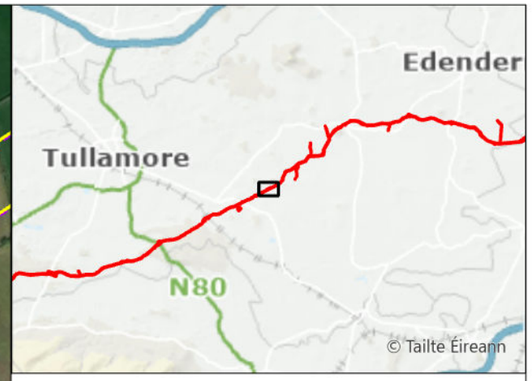
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FIGURE 108

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL283 TWC-9950	Landowner Reroute Request - alignment amendment to the north slightly.	No environmental objection.	No technical objection.	Reroute made in conjunction with adjacent landowner. No additional consultation required.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00109

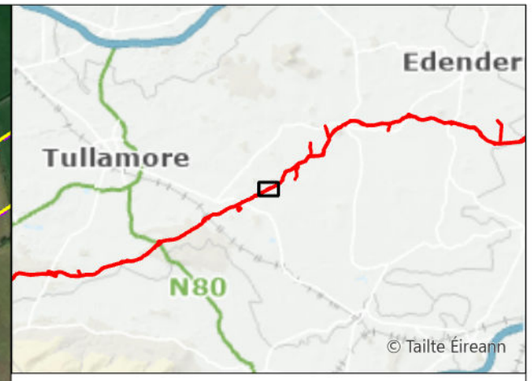
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FIGURE 109

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL284a	Landowner Reroute Request - alignment amendment to the north slightly.	No environmental objection.	No technical objection.	Reroute made in conjunction with adjacent landowner. No additional consultation required.	Facilitated	Request has been facilitated.
TWC-10150						

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00110

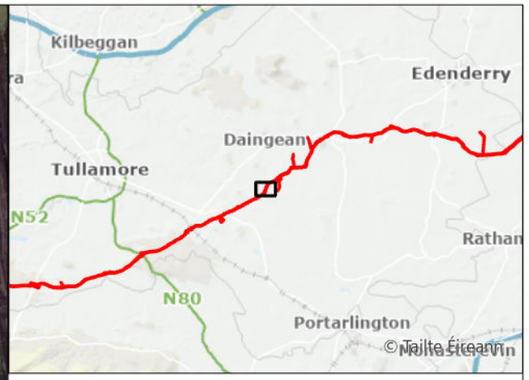
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FIGURE 110

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL284b TWC-12000	Technical Reroute Request - alignment amendment to straighten the pipeline.	No environmental objection. Similar impact to the original route on the peat area.	No technical objection. Reroute would avoid impact on an additional folio.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00111

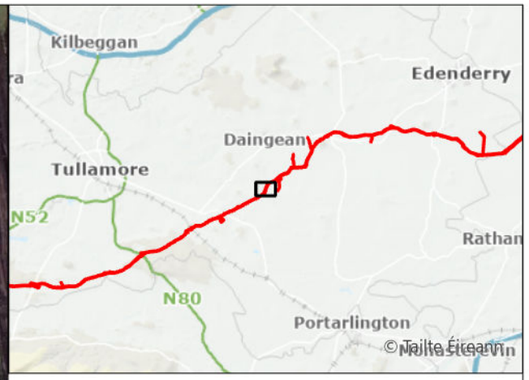
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FIGURE 111

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB | 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL284c TWC-12000	Technical Reroute Request - alignment amendment to straighten the pipeline.	No environmental objection. Similar impact to the original route on the peat area.	No technical objection. Reroute would avoid impact on an additional folio.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00112

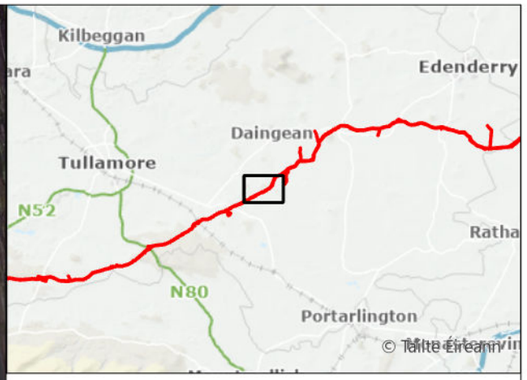
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FIGURE 112

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL285 TWC-10500	Landowner Reroute Request - alignment amendment options to avoid landowner's land.	No environmental analysis. Options rejected due to alignment issues.	Reroute Options are technically less favourable. Original route would be the least constrained and would have better alignment than the alternatives. All reroute options would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	No additional consultation with the landowners required.	Not facilitated	Request not facilitated due to the requirement to maintain acceptable pipeline alignment.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00113

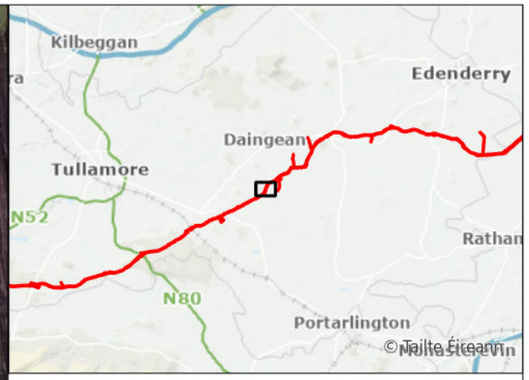
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FIGURE 113

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB | 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL286 a TWC-12000	Technical Reroute Request - alignment amendment to straighten the pipeline.	No environmental objection. Similar impact to the original route on the peat area.	No technical objection. Reroute would avoid impact on an additional folio.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

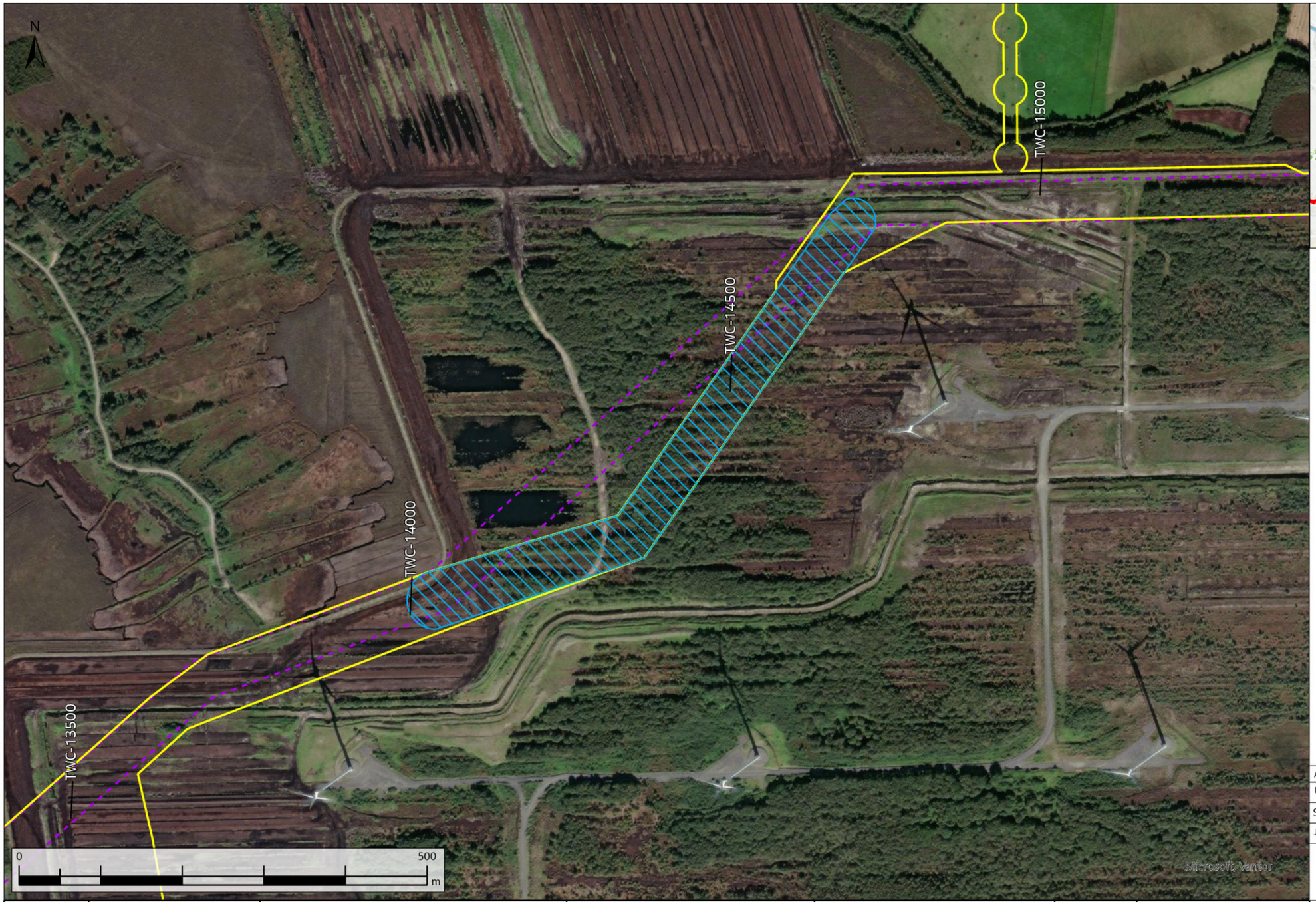
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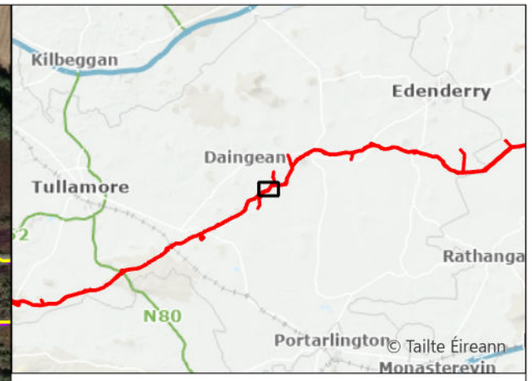
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FIGURE 114

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL286 b TWC-14000	Technical Reroute Request - alignment amendment to avoid wind farm attenuation ponds.	No environmental objection. The proposed reroute would avoid crossing a pond (FL8) and would cross into an area of scrub (WS1) and cutover bog (PB4).	No technical objection. Reroute would introduce an additional bend but is required to avoid an attenuation pond.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated, avoiding clash with attenuation ponds.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

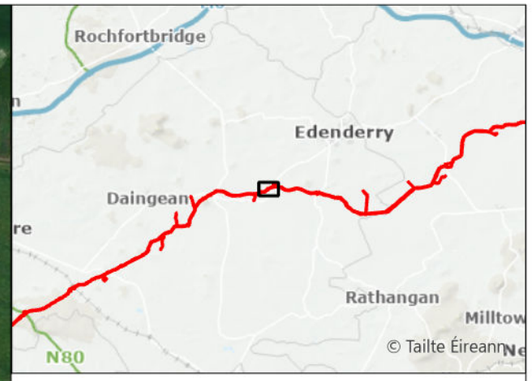
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FIGURE 115





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL310 TWC-23700	Landowner Reroute Request - alignment amendment to the north.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00116

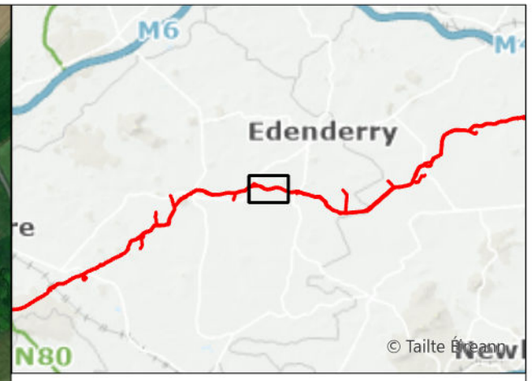
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FIGURE 116

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL321 TWD-600	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries.	No environmental objection to the facilitated reroute	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south to avoid splitting land. Adjacent landowners have been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Group request has been partially facilitated. Pipeline rerouted to the south. The full reroute could not be accomodated due to the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

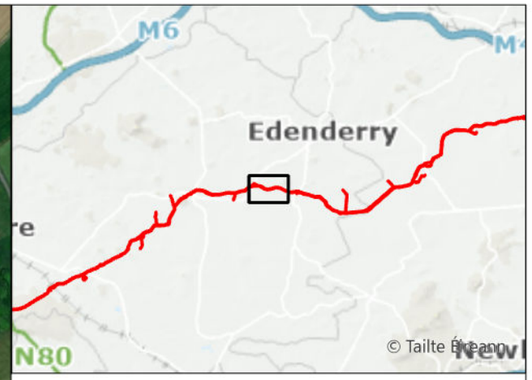
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FIGURE 117





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL322 TWD-800	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries.	No environmental objection to the facilitated reroute	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south to avoid splitting land. Adjacent landowners have been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Group request has been partially facilitated. Pipeline rerouted to the south. The full reroute could not be accomodated due to the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00118

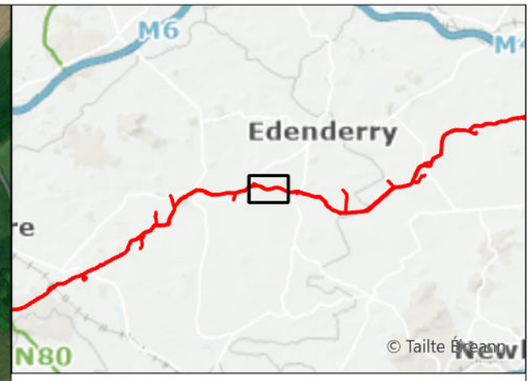
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FIGURE 118

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL323 TWD-1100	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries.	No environmental objection to the facilitated reroute	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south to avoid splitting land. Adjacent landowners have been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Group request has been partially facilitated. Pipeline rerouted to the south. The full reroute could not be accomodated due to the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

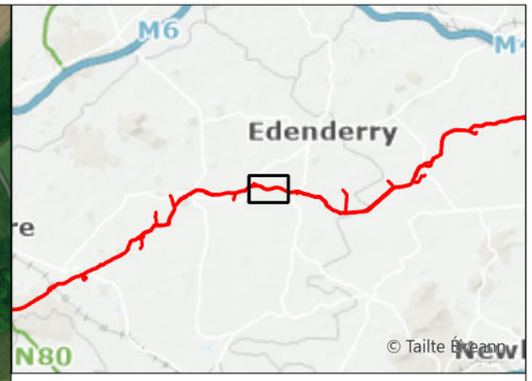
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FIGURE 119





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL324 TWD-1400	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries.	No environmental objection to the facilitated reroute.	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south to avoid splitting land. Adjacent landowners have been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Group request has been partially facilitated. Pipeline rerouted to the south. The full reroute could not be accomodated due to the need to maintain an acceptable pipeline alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

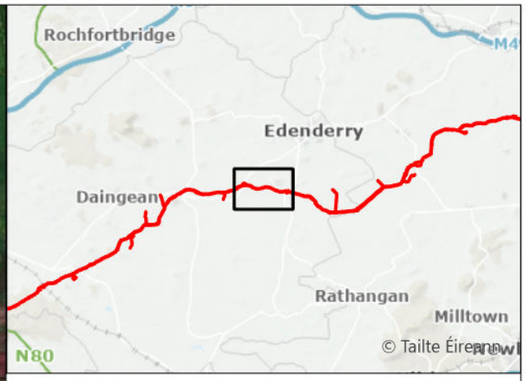
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FIGURE 120





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL325 TWD-1900	Landowner Reroute Request - alignment amendment to the south to run along land boundary within Bord na Móna lands.	The facilitated reroute is less environmentally acceptable as mitigation measures could be required to address the removal of an area of mature birch dominated woodland with a Sorbus Aucuparia understorey. Reroute could require the removal of a badger sett within the woodland.	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south. Adjacent landowners have been consulted and proposed reroute has been partially facilitated.	Partially facilitated	Request has been partially facilitated but could not be fully facilitated due to the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

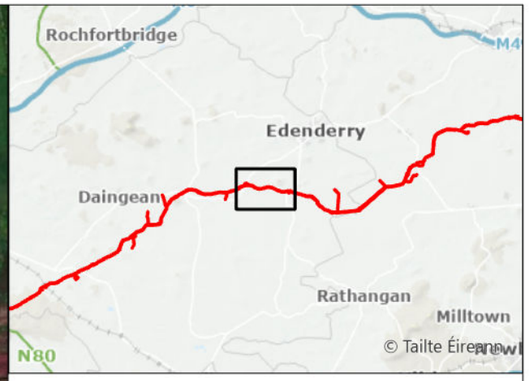
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FIGURE 121





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL326 TWD-2100	Landowner Reroute Request - alignment amendment to the south to run along land boundary within Bord na Móna lands.	The facilitated reroute is less environmentally acceptable as mitigation measures could be required to address the removal of an area of mature birch dominated woodland with a Sorbus Aucuparia understorey. Reroute could require the removal of a badger sett within the woodland.	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Group landowner request to reroute to the south. Adjacent landowners have been consulted and proposed reroute has been partially facilitated. After consultation with landowner Bord na Móna, archaeological constraints do not apply.	Partially facilitated	Request has been partially facilitated but could not be fully facilitated due to the need to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

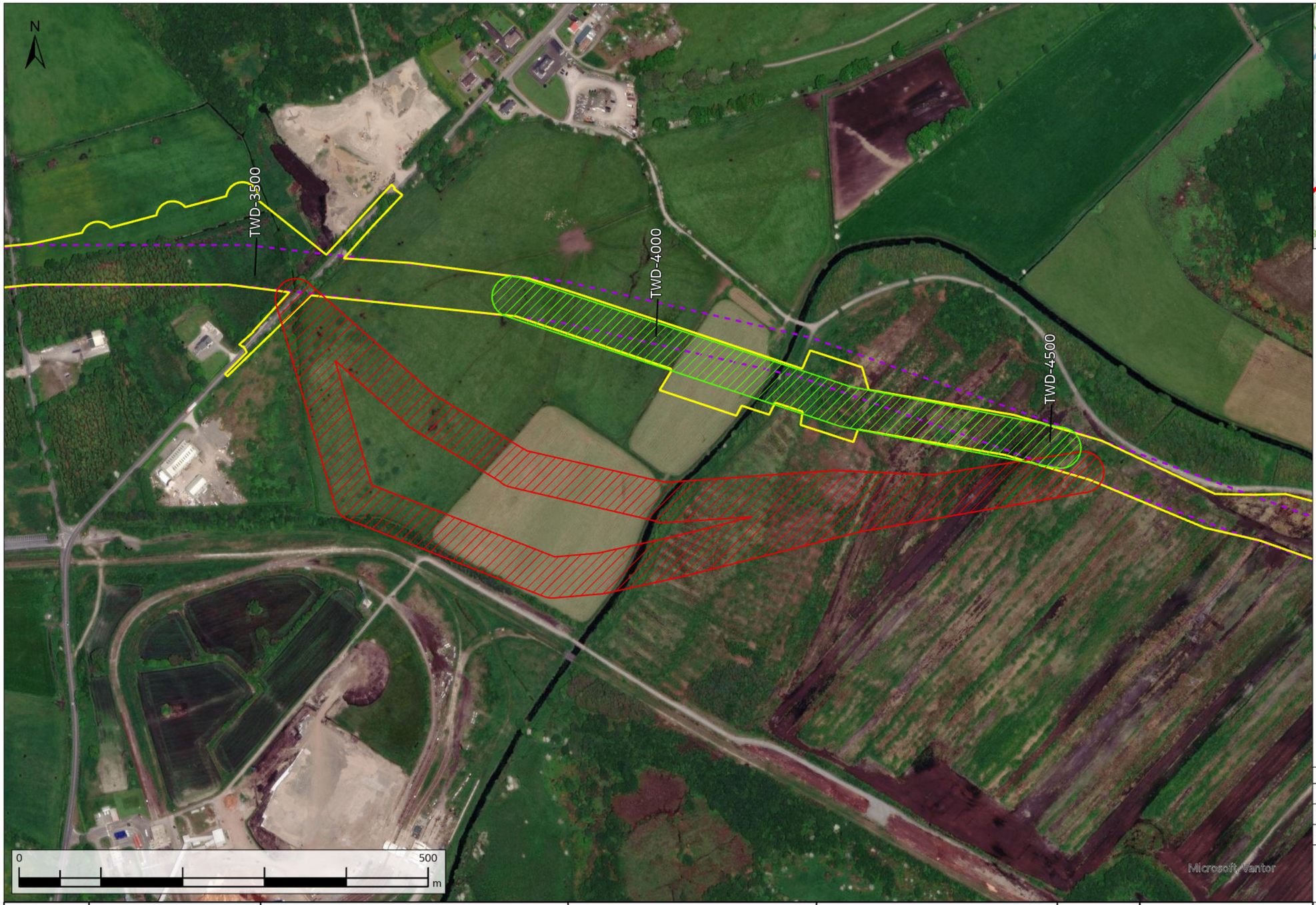
Drawing Title: REROUTE MAPPING

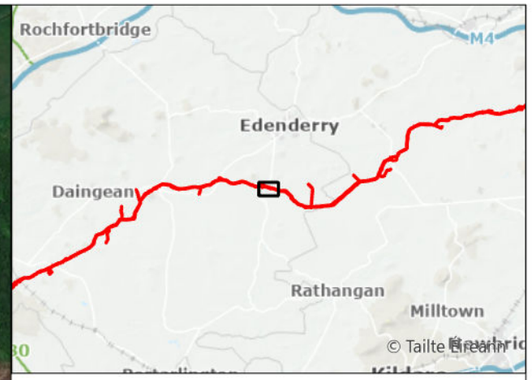
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FIGURE 122





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL332 TWD-3500	Landowner Reroute Request - alignment amendment options to the south to run along the field boundary to avoid the cattle crush.	Facilitated route - no environmental objection.	Facilitated reroute - no technical objection. Rejected reroute is technically less favourable as it would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted.	Partially facilitated	Request partially facilitated to avoid the cattle crush but not fully facilitated due to the requirement to maintain an acceptable pipeline alignment.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

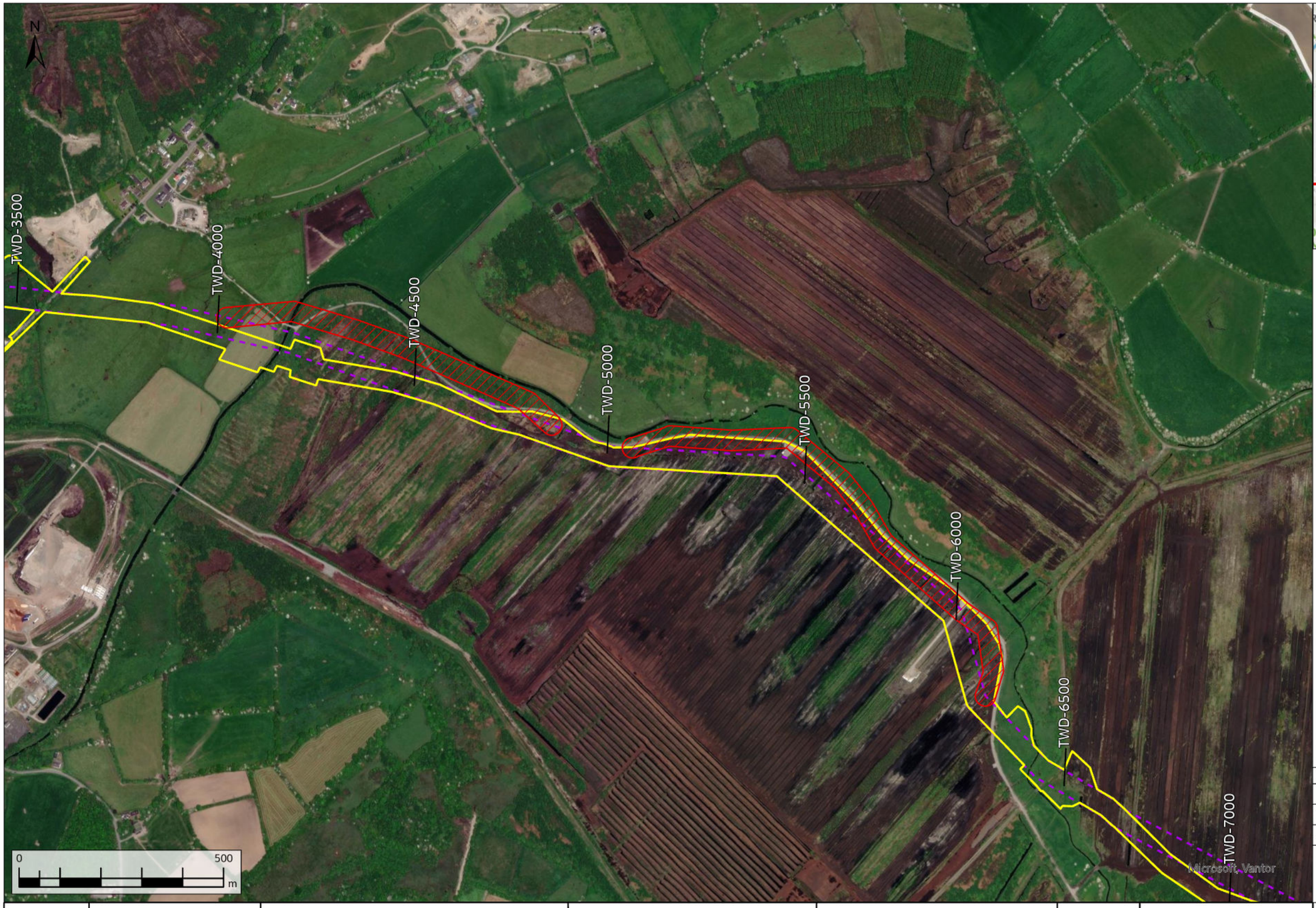
Drawing No.: 32105801/300/00123

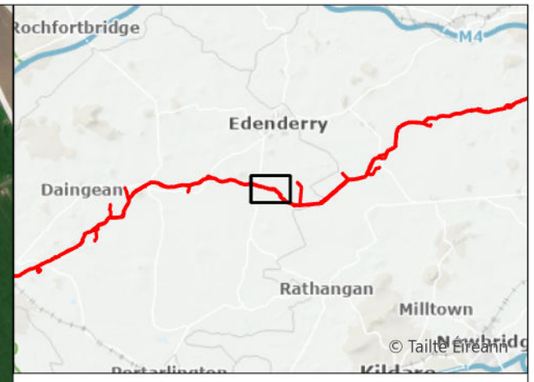
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FIGURE 123

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL333 TWD-4100	Landowner Reroute Request - alignment amendment to the northeast to run closer to the adjacent river.	Not environmentally acceptable as a separation distance should be kept with a watercourse.	Reroute is technically less favourable. Original route is as close to the river as technically possible whilst maintaining acceptable pipeline alignment.	Landowners have been consulted and have no objections to the proposed reroute.	Not facilitated	Request not facilitated due to the requirement to maintain suitable separation distance with the watercourse.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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FIGURE 124

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL335	Technical Reroute Request - alignment amendment to the southern edge of the bogland to facilitate construction.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.
TWD-7000						

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FIGURE 125

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL336 TWD-7750	Landowner Reroute Request - alignment amendment options to the south to run closer to the river along the southern border.	Option A - no environmental objection. This option would move closer to the River Figile and a separation distance should be maintained with the river. Option B - Less ecologically favourable. This option would pass through an area of Japanese Knotweed (invasive species) and suitable mitigation measures would be required to reduce the risks posed.	Both reroute options are technically less favourable as they would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	No Landowner engagement.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and a separation distance to the river.

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Drawing Title: REROUTE MAPPING

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FIGURE 126

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL337 TWD-8400	Landowner Reroute Request - alignment amendment options to the south to run closer to the river along the southern border.	Option A - no environmental objection. This option would move closer to the River Figile and a separation distance should be maintained with the river. Option B - Less ecologically favourable. This option would pass through an area of Japanese Knotweed (invasive species) and suitable mitigation measures would be required to reduce the risks posed.	Both reroute options are technically less favourable as they would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Option B conflicts with the reroute request of the adjacent landowner.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and a separation distance to the river.

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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00127

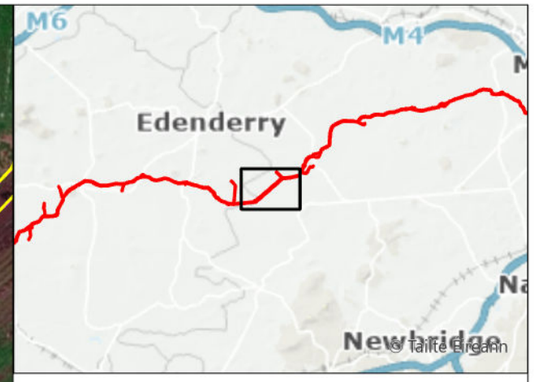
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FIGURE 127

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL339a TWD-11000	Technical Reroute Request - alignment amendment to facilitate construction with the use of the existing access road.	No environmental objection.	No technical objection. Reroute subject to current windfarm construction. Pipeline reroute should avoid windfarm services and make use of existing access road. Drainage ditch would be within working area.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00128

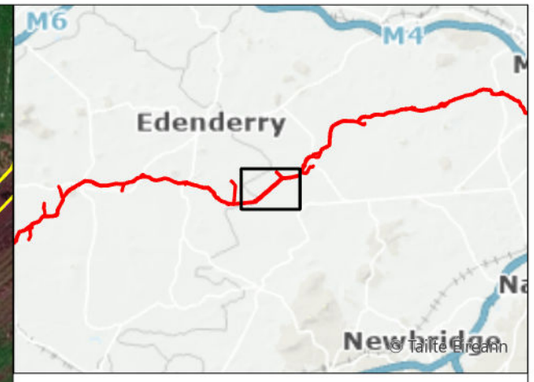
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FIGURE 128

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL339b TWD-11500	Technical Reroute Request - alignment amendment to the south of the access road to avoid proposed wind turbines and crane pads on Bord na Móna land.	No environmental objection.	No technical objection. Reroute would move away from a drainage ditch making construction works easier. There would be potential for the drainage ditch to be used for dewatering and surface water drainage.	Landowner has been consulted and proposed reroute has been accepted. One additional folio has been impacted but falls under Bord na Móna ownership.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing No.: 32105801/300/00129

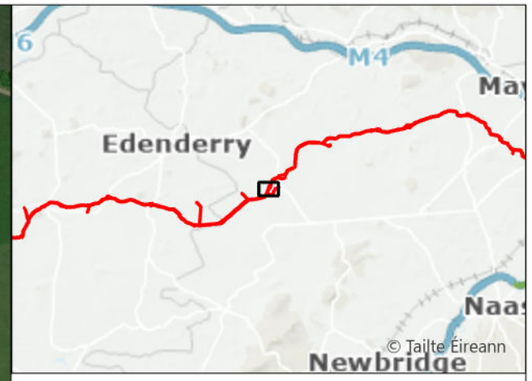
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FIGURE 129

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL340a TWD-15000	Technical Reroute Request - alignment amendment to facilitate construction of the canal crossing and to avoid existing overhead cables.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

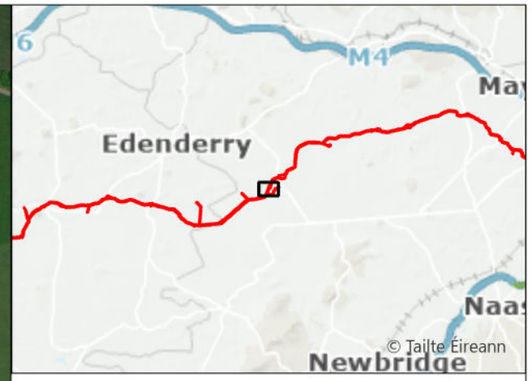
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FIGURE 130

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL341 TWD-15000	Technical Reroute Request - alignment amendment to facilitate construction of the canal crossing and to avoid existing overhead cables.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00131

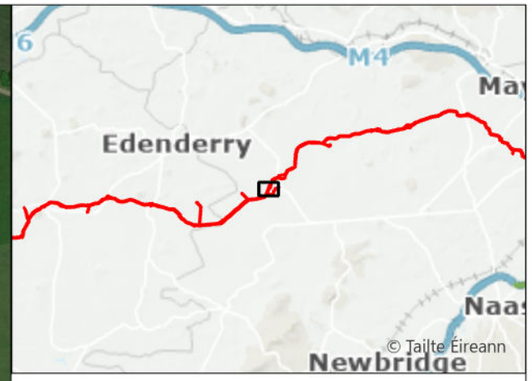
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FIGURE 131

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

Scale @ A3 | Scale: 1:5,000 | DO NOT SCALE

Jacobs No. 321120BB | 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL342 TWD-15000	Technical Reroute Request - alignment amendment to facilitate construction of the canal crossing and to avoid existing overhead cables.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00132

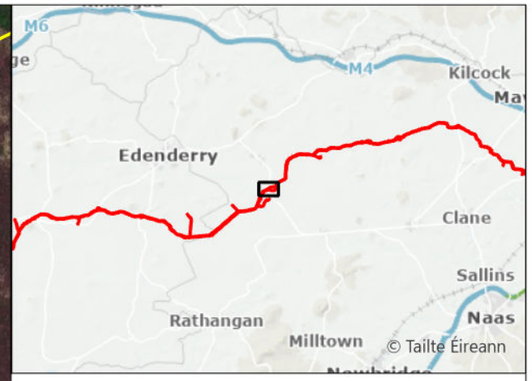
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FIGURE 132

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No Reroute Required
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL344 TWD-15900	Landowner Reroute Request - alignment amendment as landowner has expressed interest to reroute the pipeline away from potential site for future development.	No environmental analysis required.	No technical analysis required.	No landowner engagement required.	No Reroute Required	Construction working width would have a limited impact on the site development.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

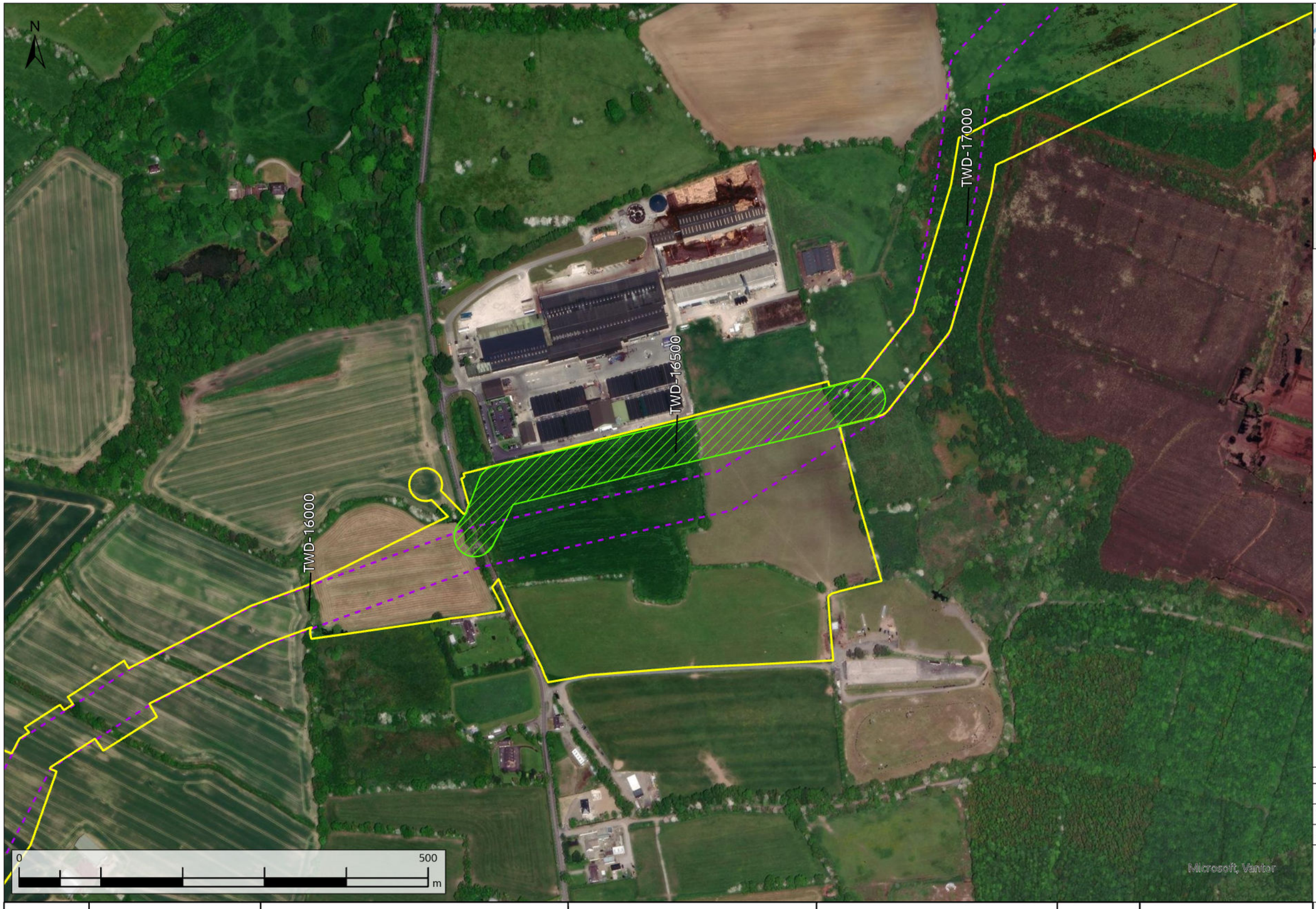
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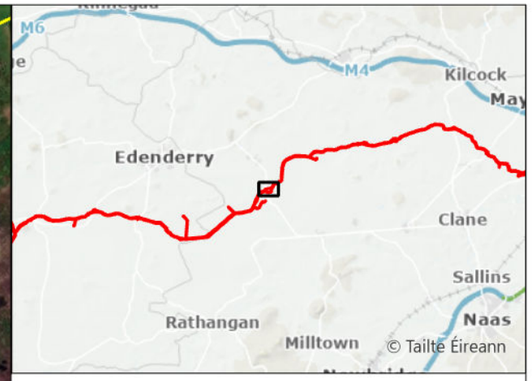
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FIGURE 133

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- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL345 TWD-16100	Landowner Reroute Request - alignment amendment to the north to run parallel to northern field boundaries.	No environmental objection.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

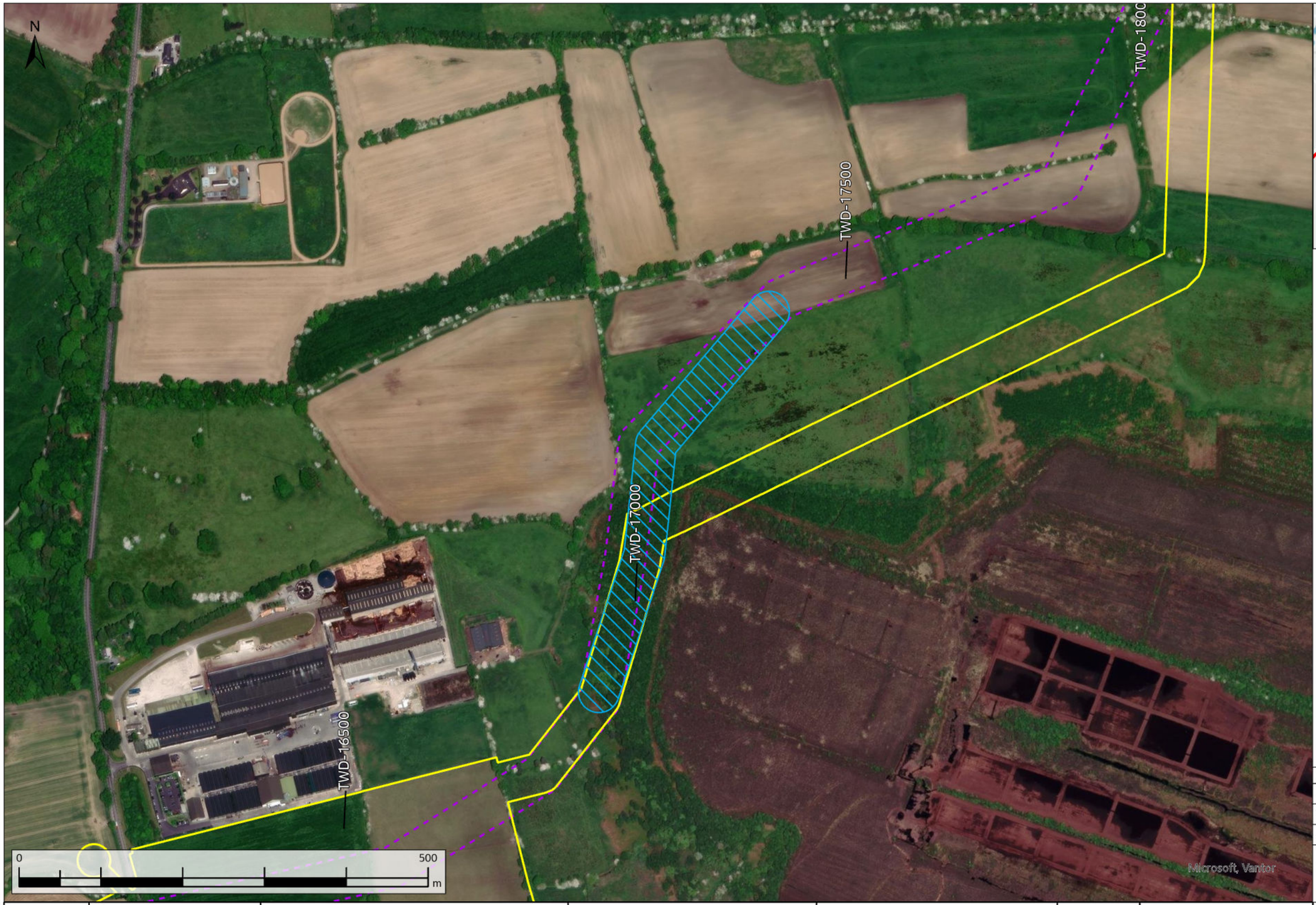
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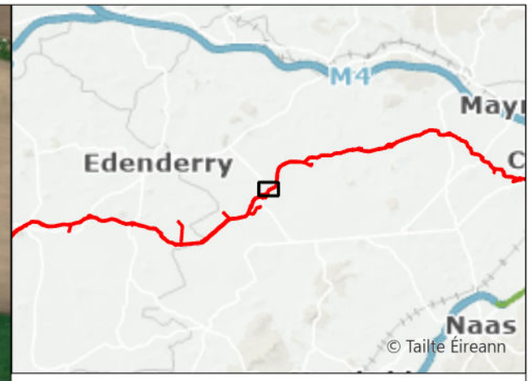
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FIGURE 134

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Jacobs No. 321120BB — 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL346 TWD-17000	Technical Reroute Request - alignment amendment to the east to avoid crossing the corner of an adjacent folio.	No environmental objection.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted. Note this reroute has subsequently been amended in line with a request from the landowner.	Facilitated	Request has been facilitated. Note this reroute has subsequently been amended in line with a request from the landowner.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

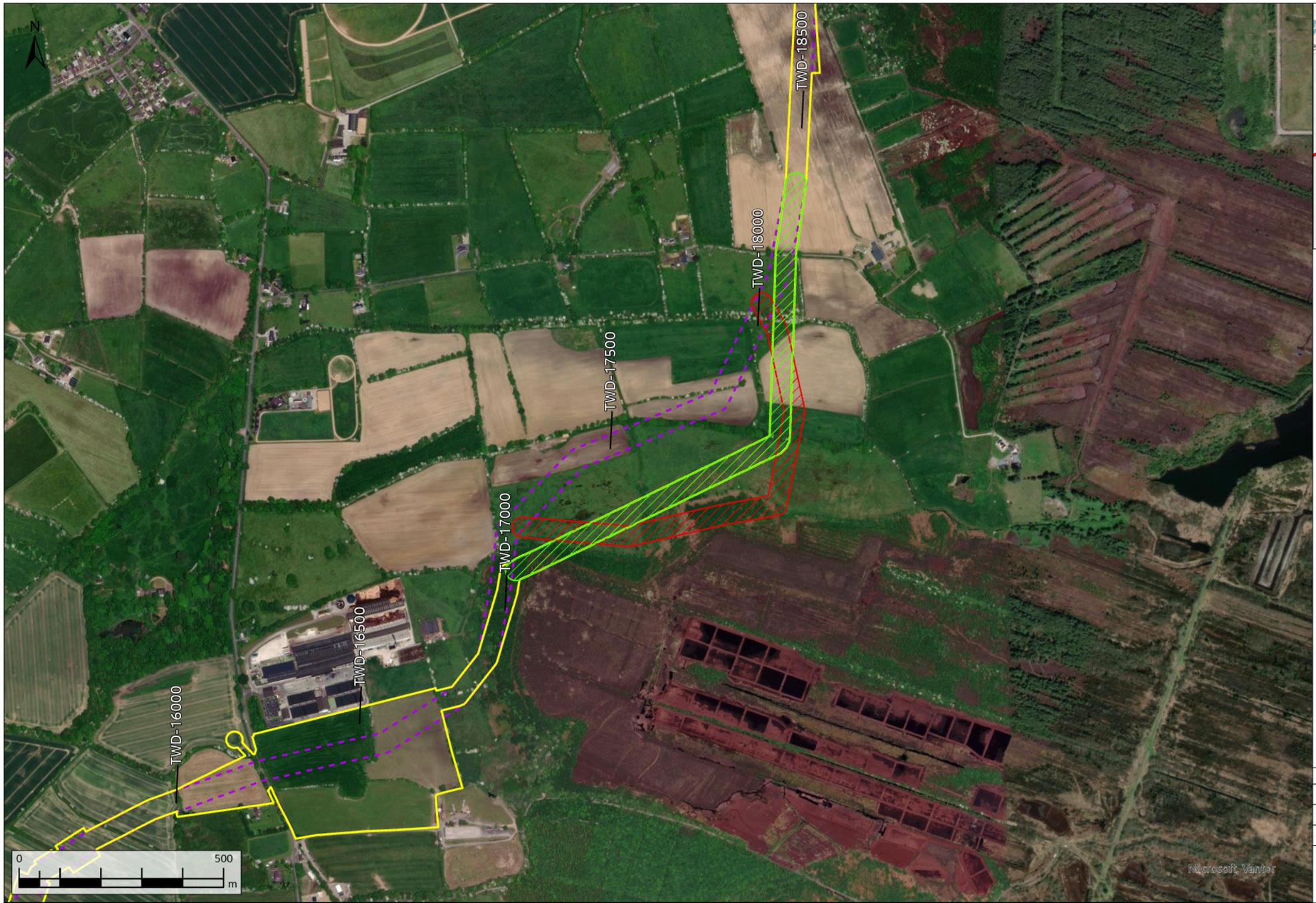
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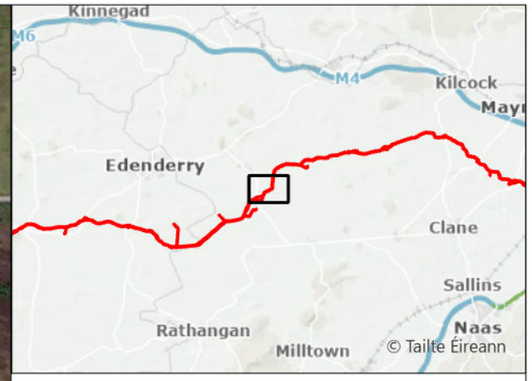
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FIGURE 135





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL346 TWD-17500	Landowner Reroute Request - alignment amendment to the south to avoid crossing fields to the north.	No environmental objection to the facilitated reroute. The rejected reroute would cross a drainage ditch that has not been previously surveyed.	No technical objection to the facilitated reroute, which would provide an acceptable pipeline alignment. Rejected reroute would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	No landowner engagement required.	Partially facilitated	Request has been partially facilitated. Full reroute could not be accomodated due to the requirement to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

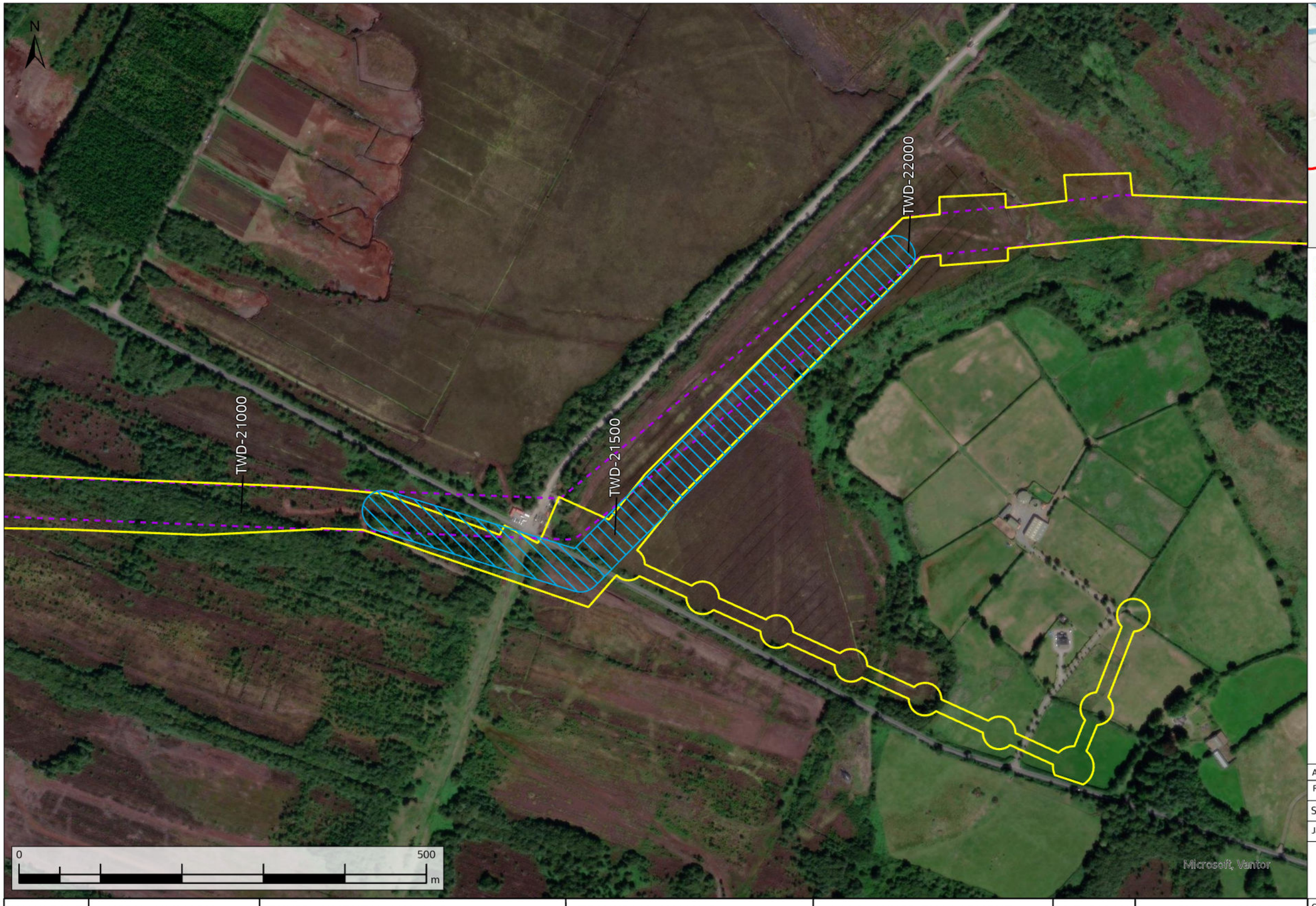
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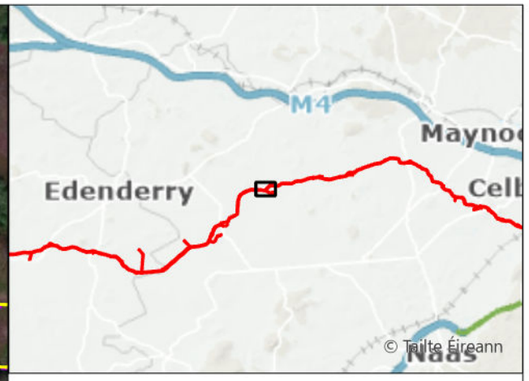
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FIGURE 136





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL349	Technical Reroute Request - alignment amendment to avoid conflict with access for proposed wind farm.	No environmental objection.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.
TWD-21500						

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

Jacobs TOBIN CONSULTING ENGINEERS

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

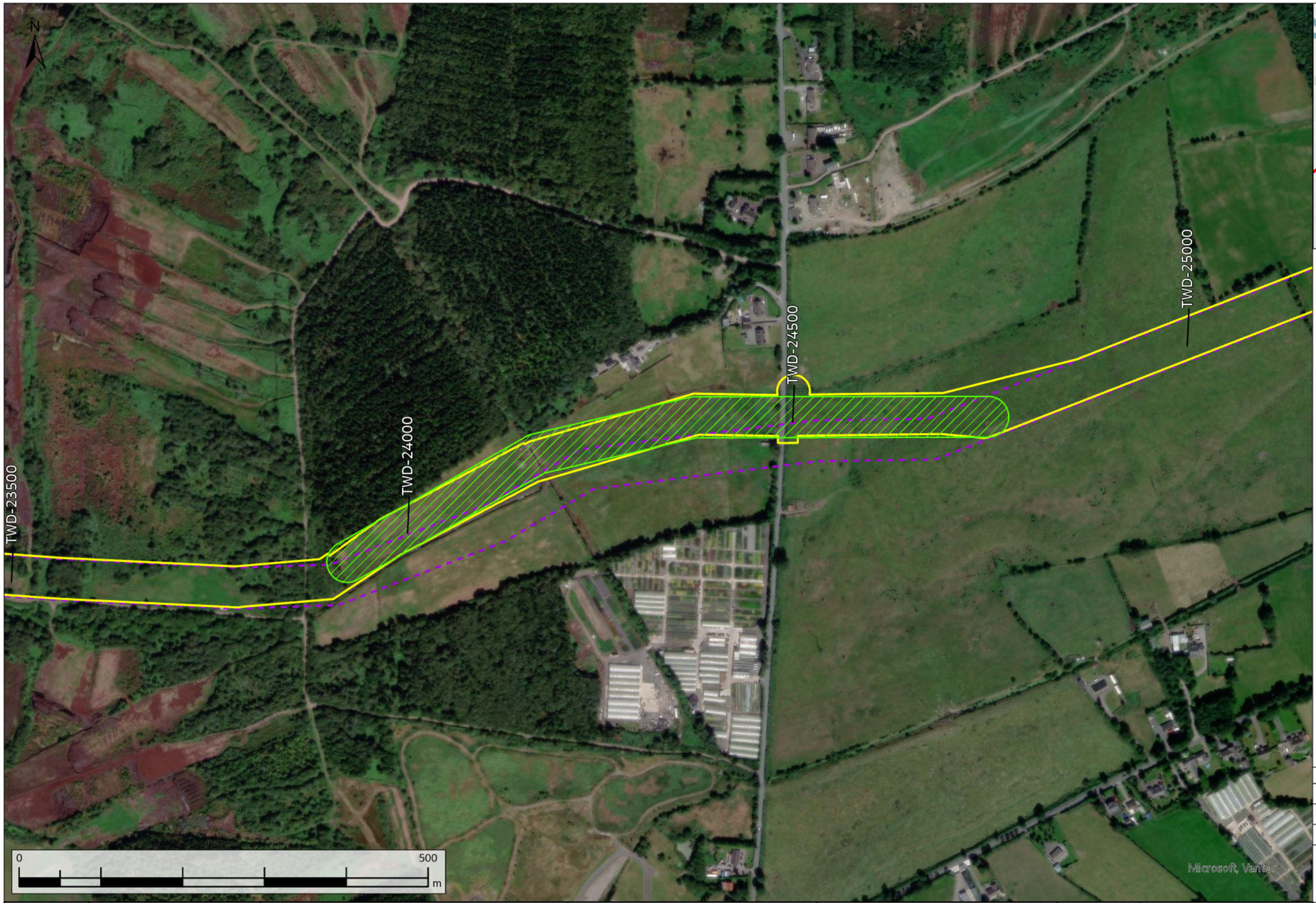
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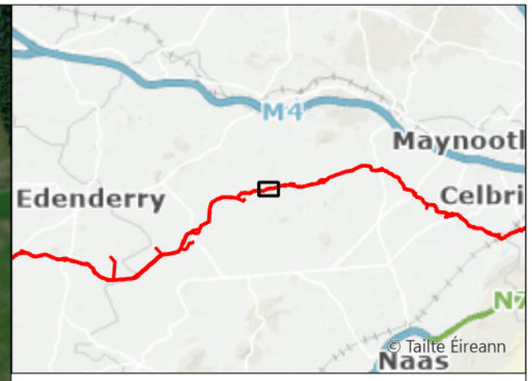
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FIGURE 137

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL353 TWD-23800	Landowner Reroute Request - alignment amendment to the north to avoid three sites for future potential development to the south of the construction working area.	No environmental objection.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

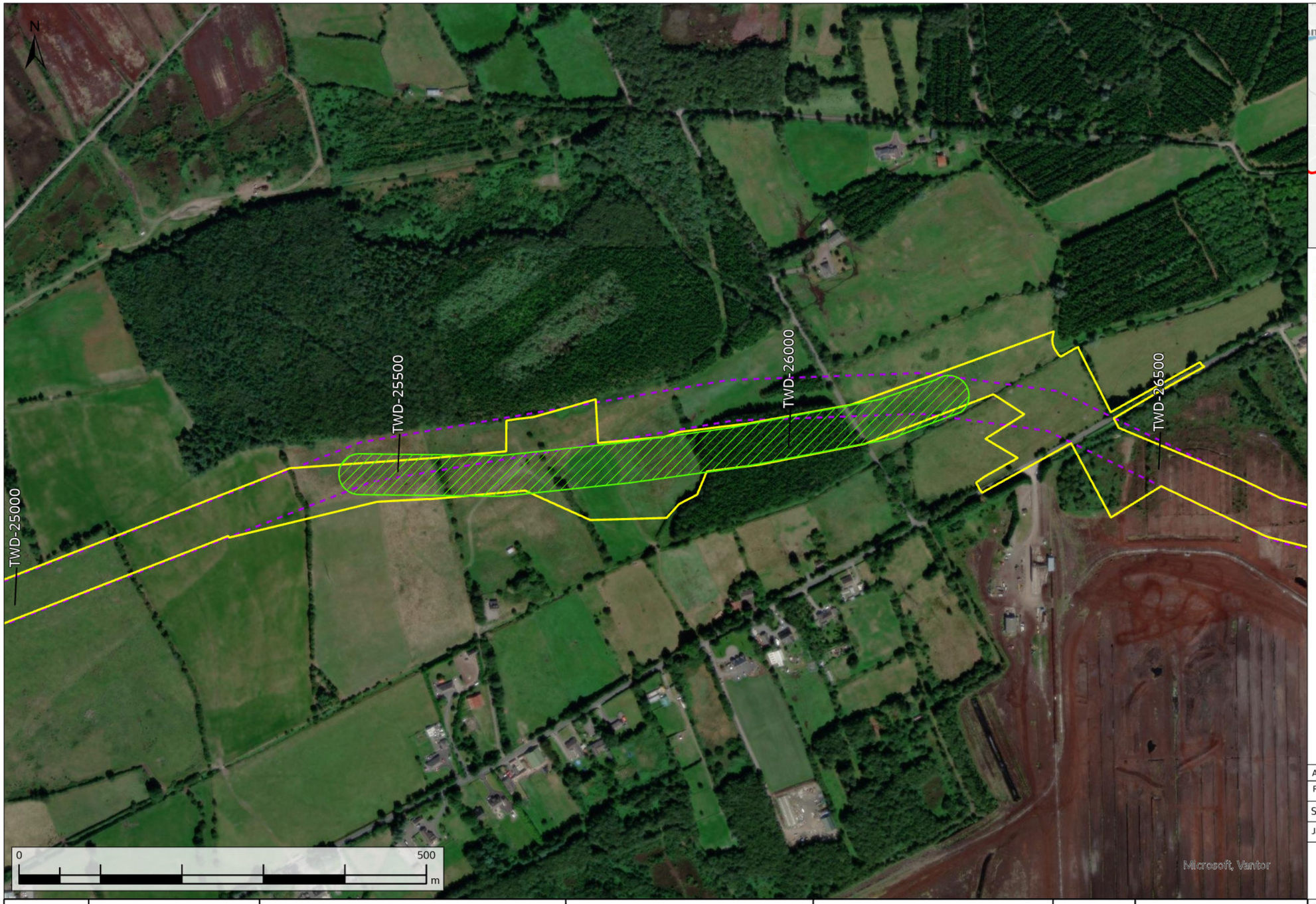
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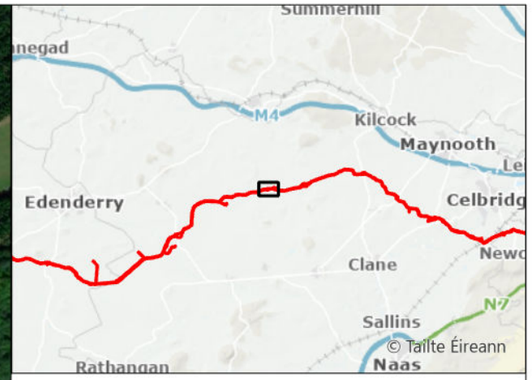
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FIGURE 138





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL357 TWD-25600	Landowner Reroute Request - alignment amendment to the south to avoid gravel pit and to avoid existing overhead cables.	Facilitated reroute would be acceptable but less ecologically favourable, as it would require the removal of an area of conifer plantation.	No technical objection. Reroute would be technically beneficial as it avoids higher land and working beneath overhead electrical cables.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated - overhead cables will be avoided. Felling of the conifer plantation will be undertaken in consultation with landowner.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00139

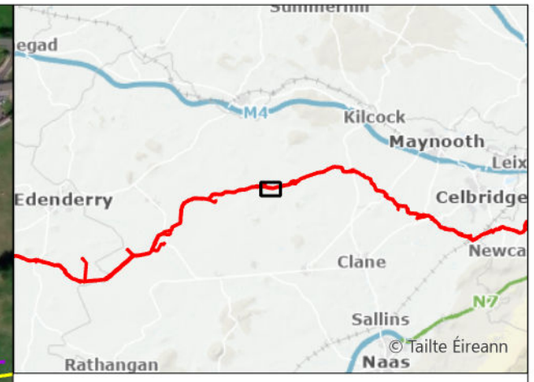
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FIGURE 139

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

Scale @ A3 | Scale: 1:5,000 | DO NOT SCALE

Jacobs No. 321120BB | 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL362 TWD-26700	Landowner Reroute Request - Alignment amendment to the south due to improved topography in order to facilitate construction works.	Proposed reroute would be environmentally less favourable as mitigation measures would be required to address the crossing of two large bog drains.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

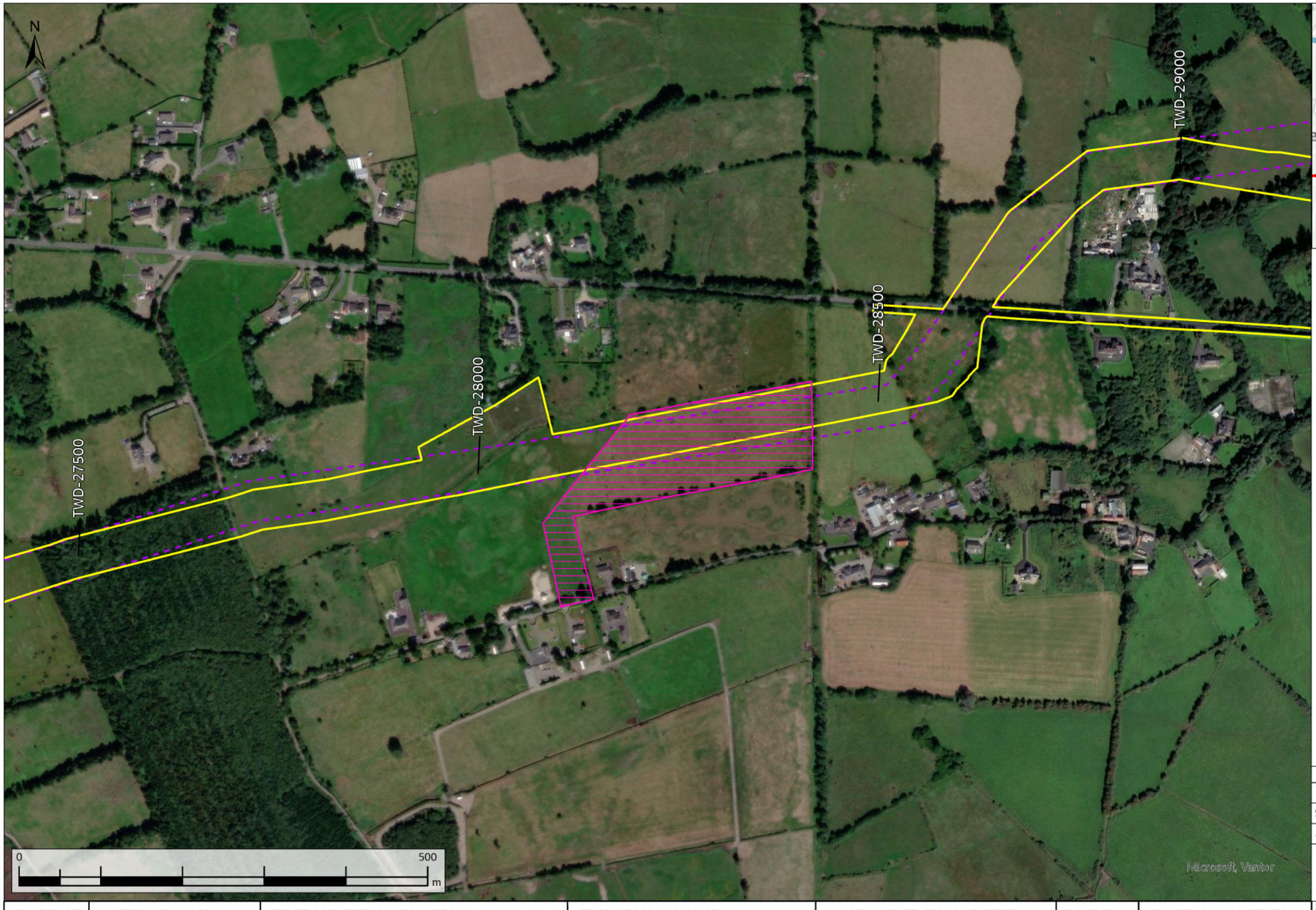
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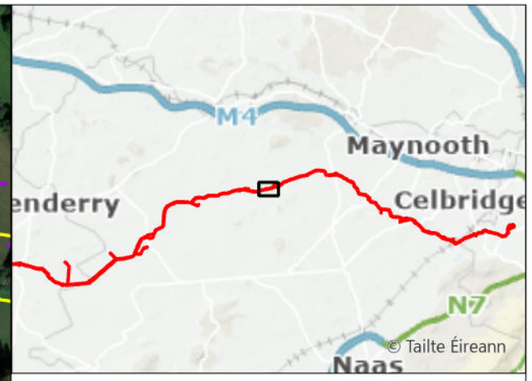
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FIGURE 140

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No Reroute Required
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL370 TWD-28000	Landowner Reroute Request - Alignment amendment to avoid impacts to access from the south.	No environmental analysis required.	No technical analysis required.	No landowner engagement required.	No Reroute Required	Request not facilitated. Proposed route does not impact on the landowner's road access.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

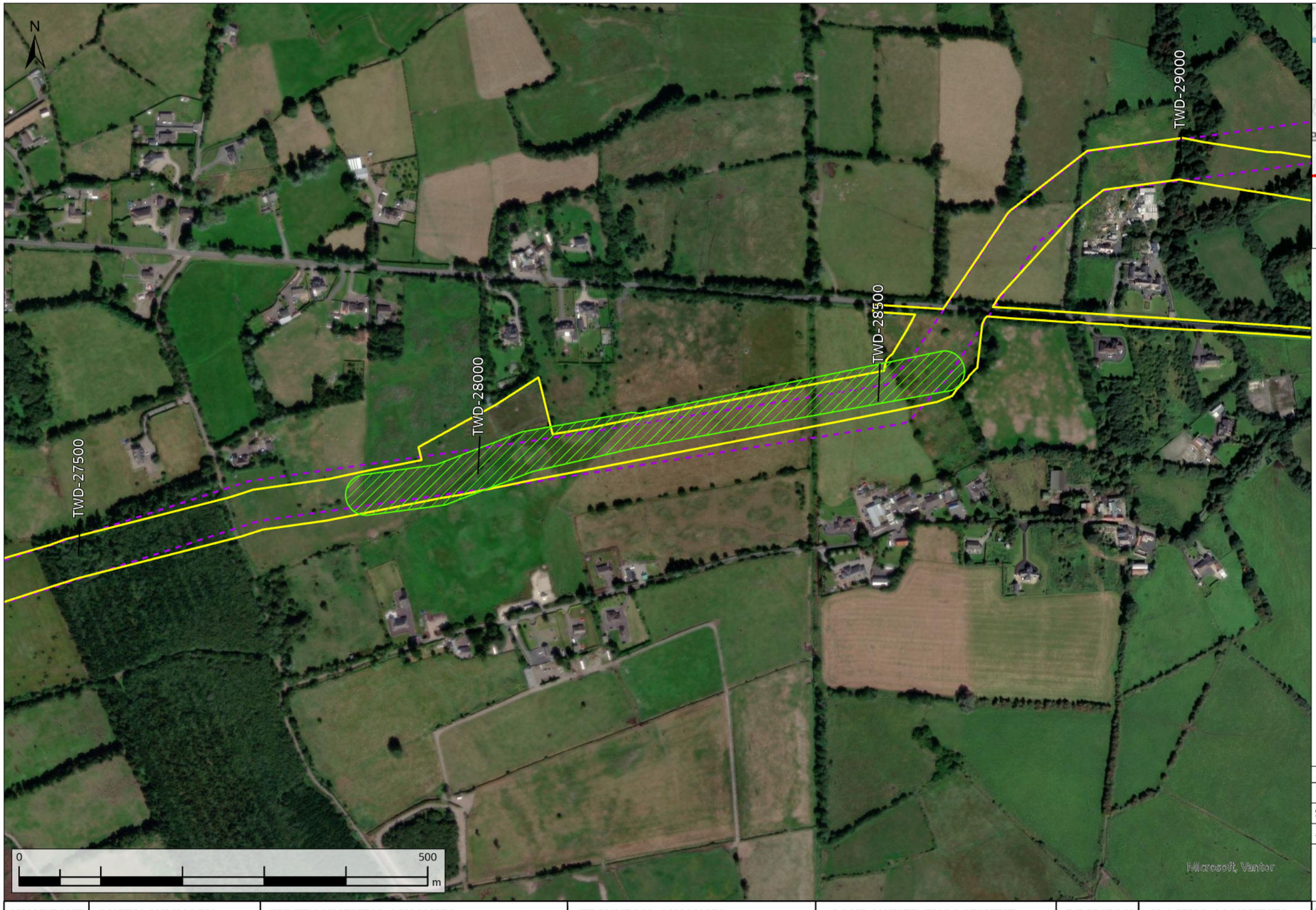
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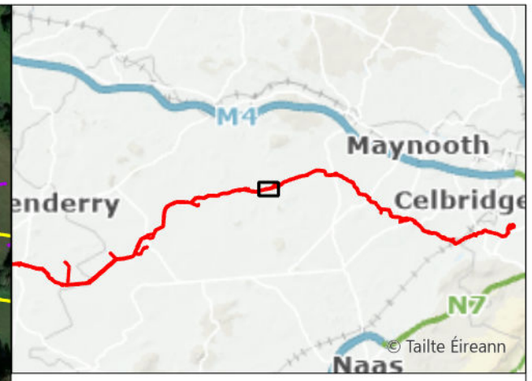
Drawing No.: 32105801/300/00141

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FIGURE 141





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL370 TWD-28000	Landowner Reroute Request - alignment amendment to the north to run parallel to field boundaries.	The proposed reroute is acceptable but would require mitigations for works adjacent watercourses, as it would be within 20m of the watercourse.	No technical objection.	Landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
A08	13/11/2025	For Review	AL	ÓH	CC	SW

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

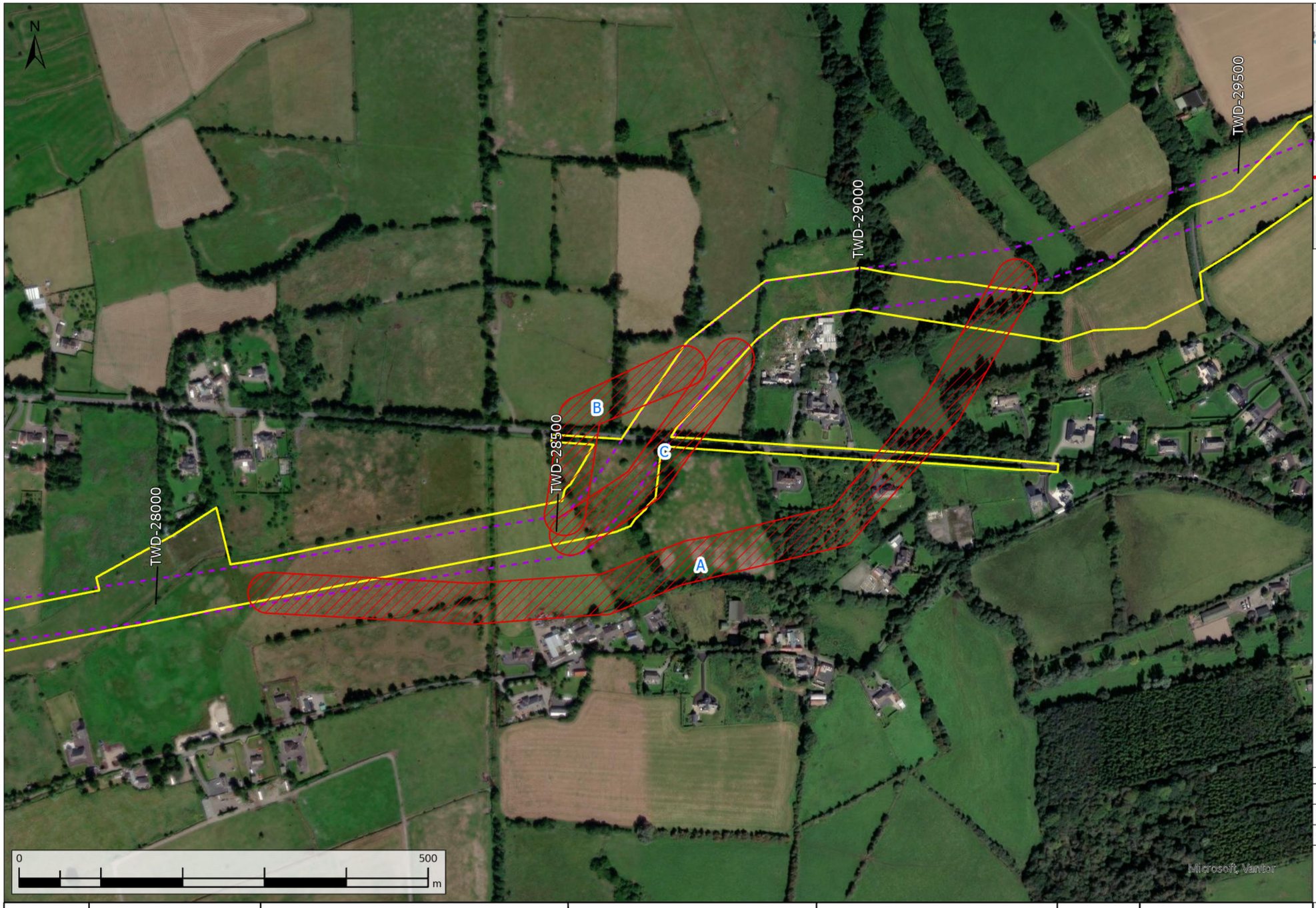
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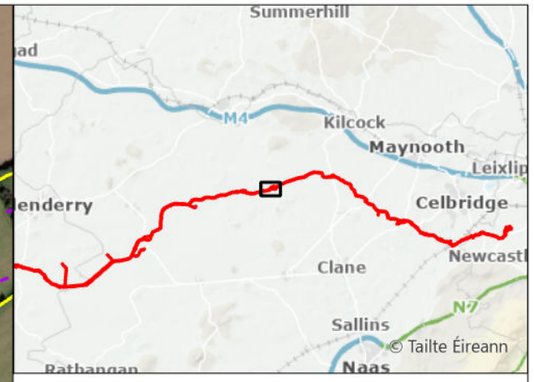
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FIGURE 142





Request Not Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL372 TWD-28400	Landowner Reroute Request - alignment amendment options to run closer to field boundaries to avoid land for potential future development.	Proposed reroutes are not environmentally acceptable. Option A would require removal of additional mature trees and would require a more acute crossing of the Blackwater River. Options B and C would require removal of additional treeline/ hedging.	Option A is highly constrained by the surrounding properties. Option B would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	All proposed reroute options would introduce additional landowners.	Not facilitated	Requests not facilitated. Option A - not facilitated due to environmental, property and adjacent landowner considerations. Option B - not facilitated due to environmental, technical and adjacent landowner considerations. Option C - not facilitated due to environmental and adjacent landowner considerations.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

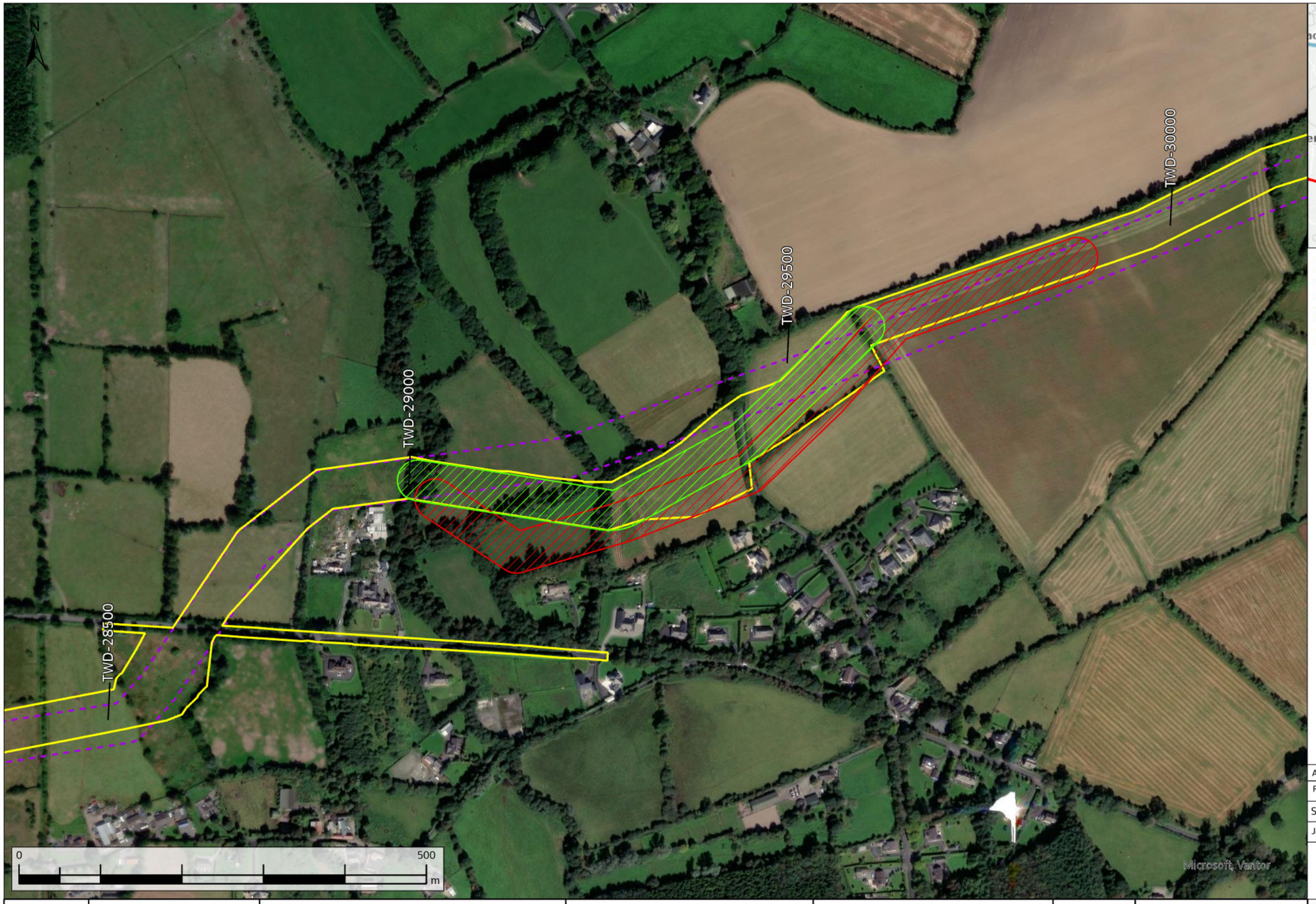
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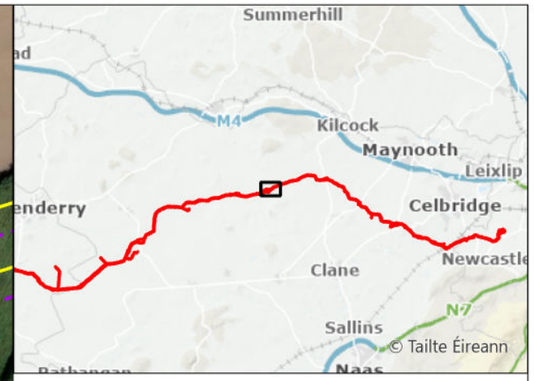
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FIGURE 143





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL375 TWD-29500	Landowner Reroute Request - alignment amendment to the south to avoid mature trees.	No environmental objection to the facilitated reroute. The rejected reroute would move closer to a cluster of residential receptors and would impact on additional trees and hedging.	No technical objection to the facilitated reroute. The rejected reroute option would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Landowners have been consulted and proposed reroute has been accepted.	Partially facilitated	Request has been partially facilitated due to the requirement to maintain acceptable pipeline alignment.

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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00144

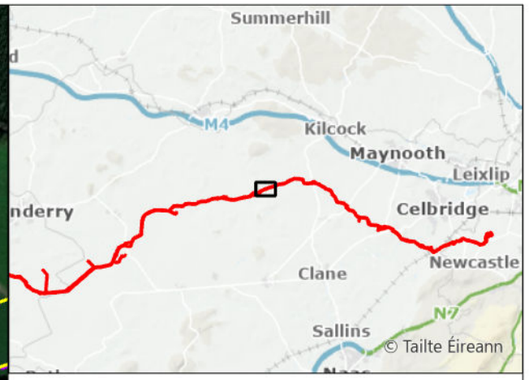
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FIGURE 144

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- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL376 TWD-29450	Landowner Reroute Request - alignment amendment to the north to run parallel to northern field boundaries.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted. Note this reroute has subsequently been amended in line with a request from the adjacent landowner.	Facilitated	Request has been facilitated. Note this reroute has subsequently been amended in line with a request from the adjacent landowner.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

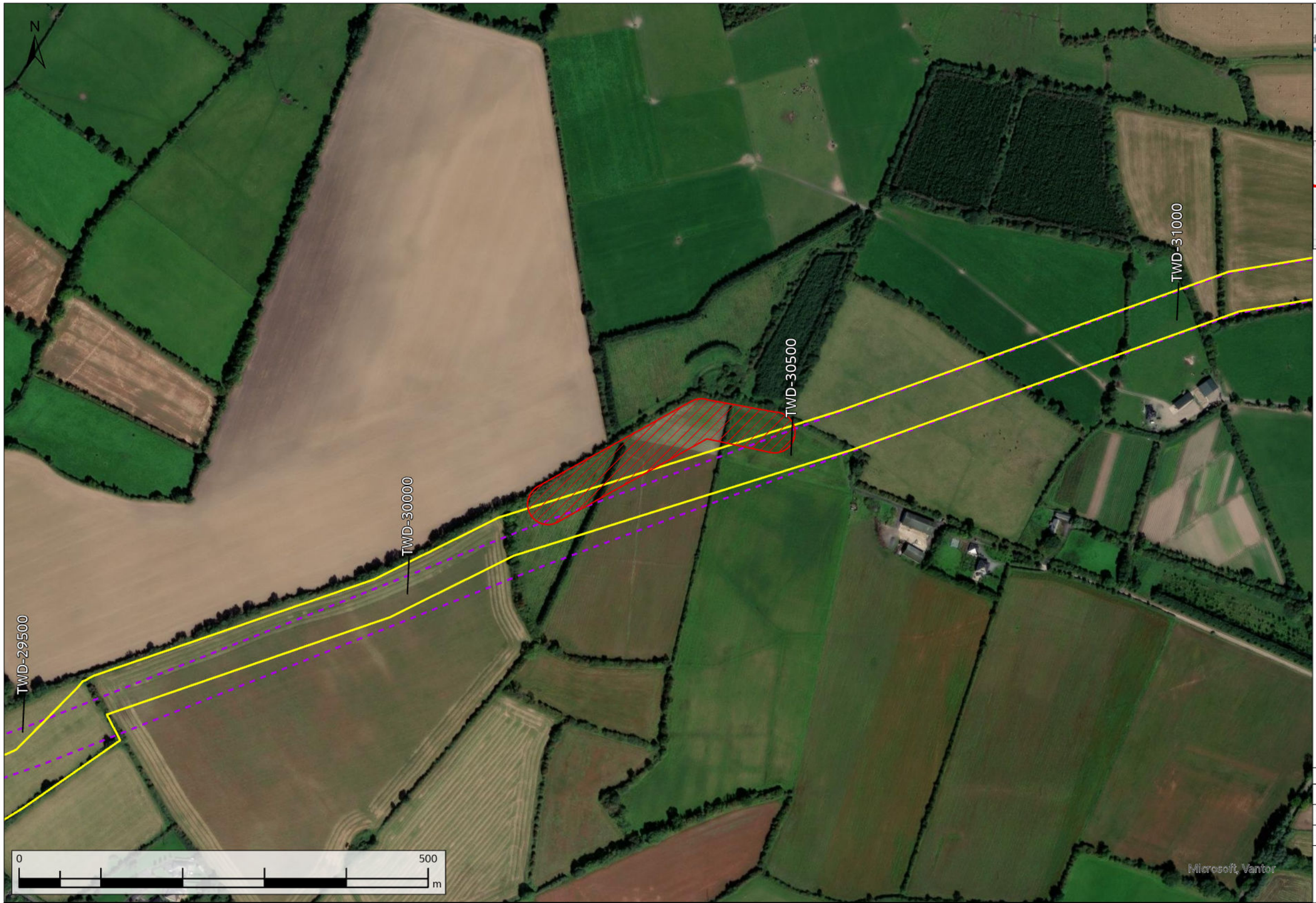
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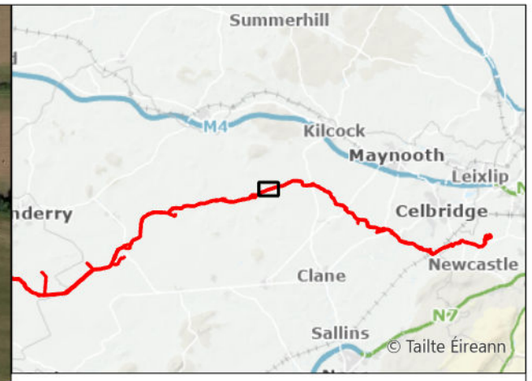
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FIGURE 145

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL377 TWD-30000	Landowner Reroute Request - alignment amendment to the north to run parallel to northern field boundaries to mitigate impact on landowner's forestry.	Rejected from an archaeological perspective. Reroute would come into close proximity with an archaeological feature adjacent to the northern field boundary.	Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	No additional consultation with the adjacent landowners required.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and proximity to an archaeological feature.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

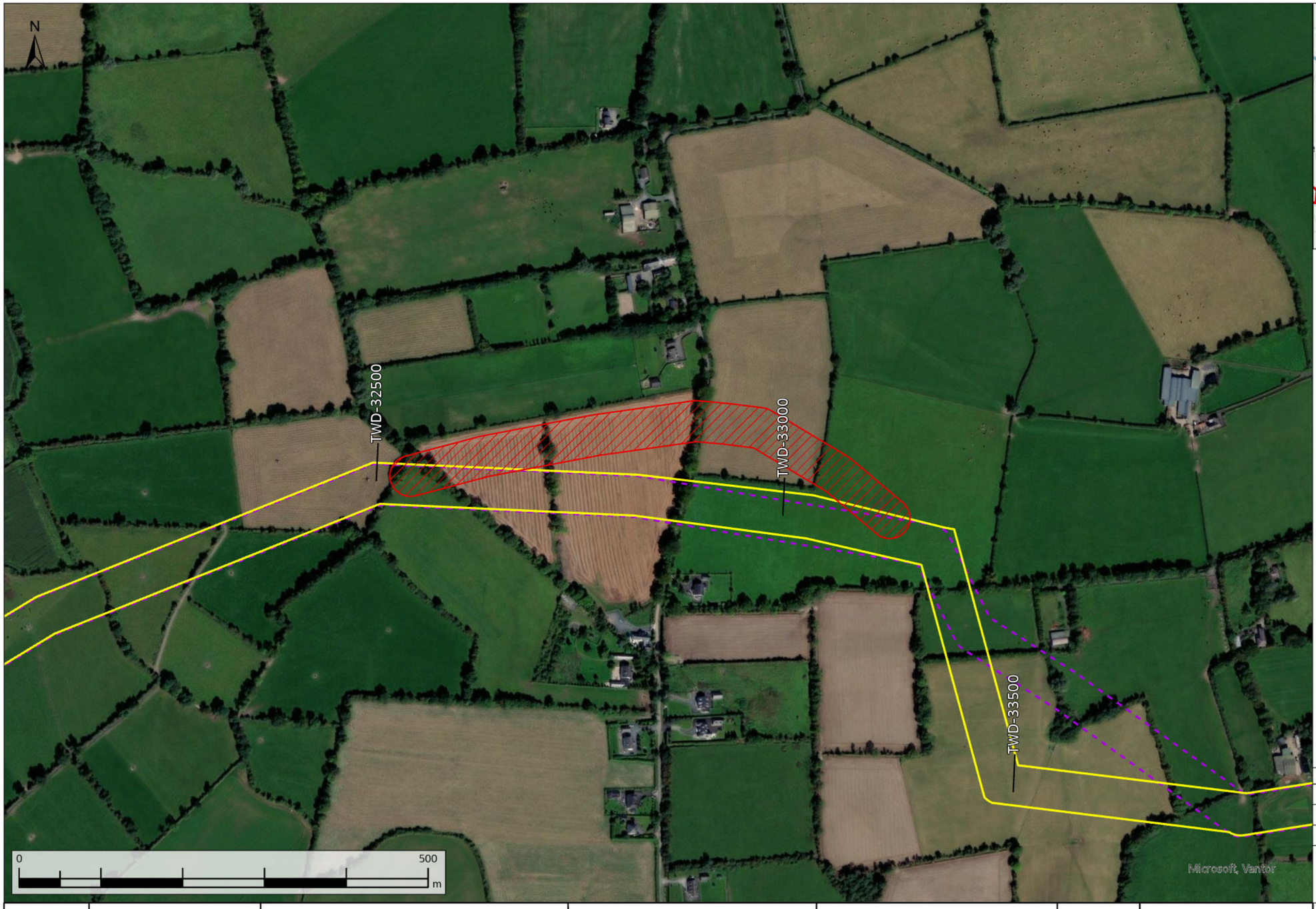
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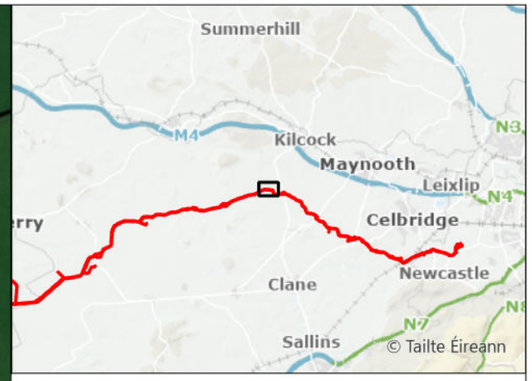
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FIGURE 146





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL382 TWD-32450	Landowner Reroute Request - alignment amendment to the north to run parallel to northern field boundaries.	No environmental objection.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowner has been consulted and reroute would impact on their land.	Not facilitated	Request not facilitated due to the requirement to maintain an acceptable pipeline alignment and impact on adjacent landowner.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

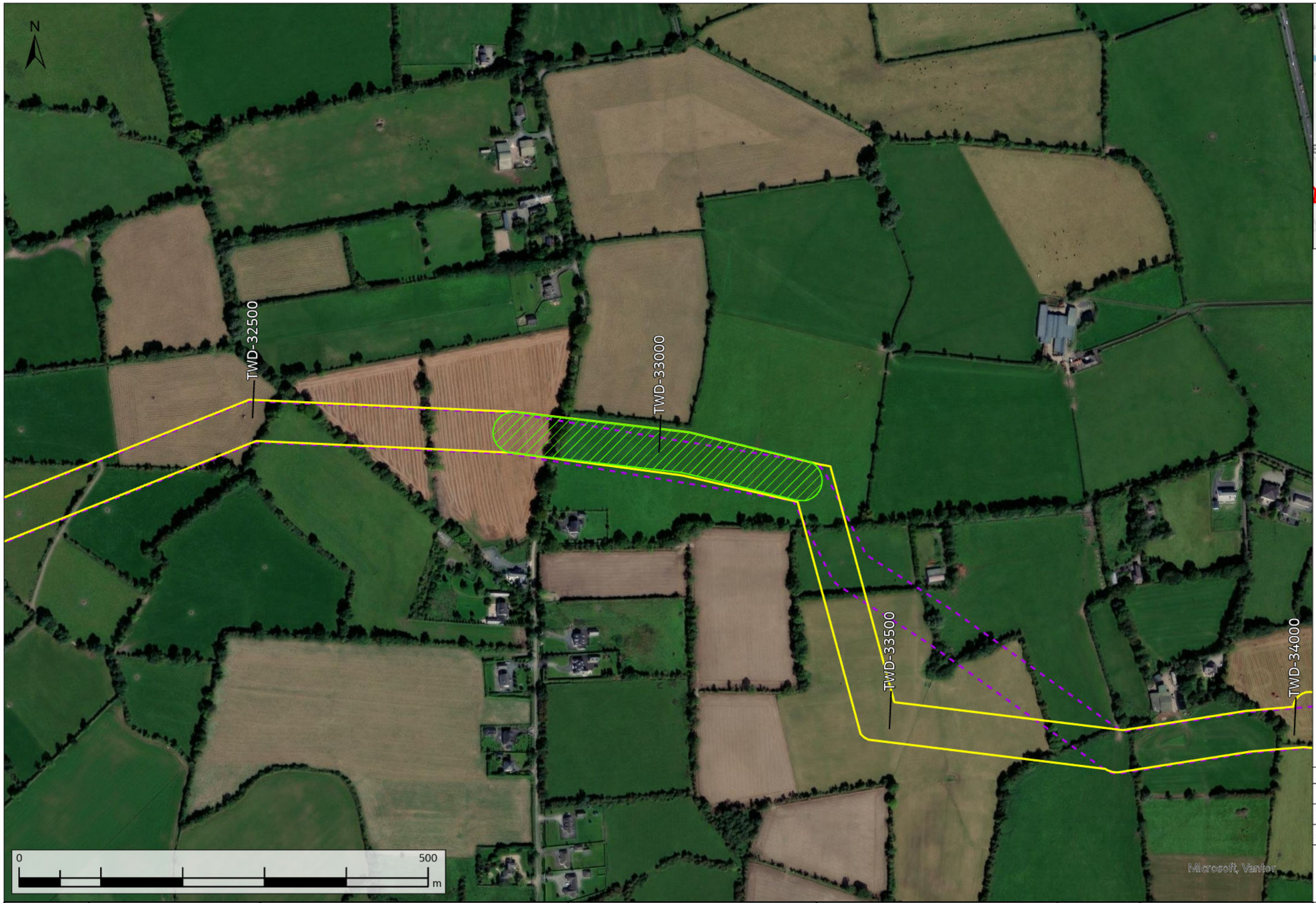
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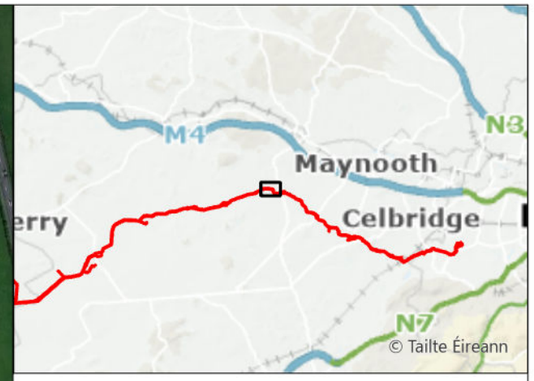
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FIGURE 147

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL383	Landowner Reroute Request - alignment amendment to the north slightly to run parallel to field boundary.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.
TWD-32750						

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Drawing Title: REROUTE MAPPING

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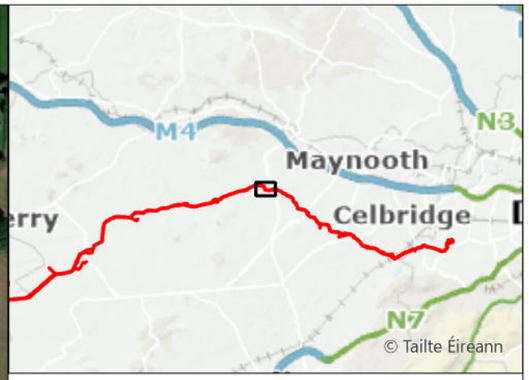
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FIGURE 148

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL385	Landowner Reroute Request - alignment amendment to the south.	No environmental objection. Reroute would reduce the number of hedgerows and treelines impacted.	Reroute is technically less favourable however this location is constrained by proximity to existing properties. No technical objection.	Adjacent landowners have been consulted and proposed reroute has been accepted. Reroute would have less impact on adjacent landowners.	Facilitated	Request has been facilitated due to reduced impact on existing property and environmental benefits.
TWD-33100						

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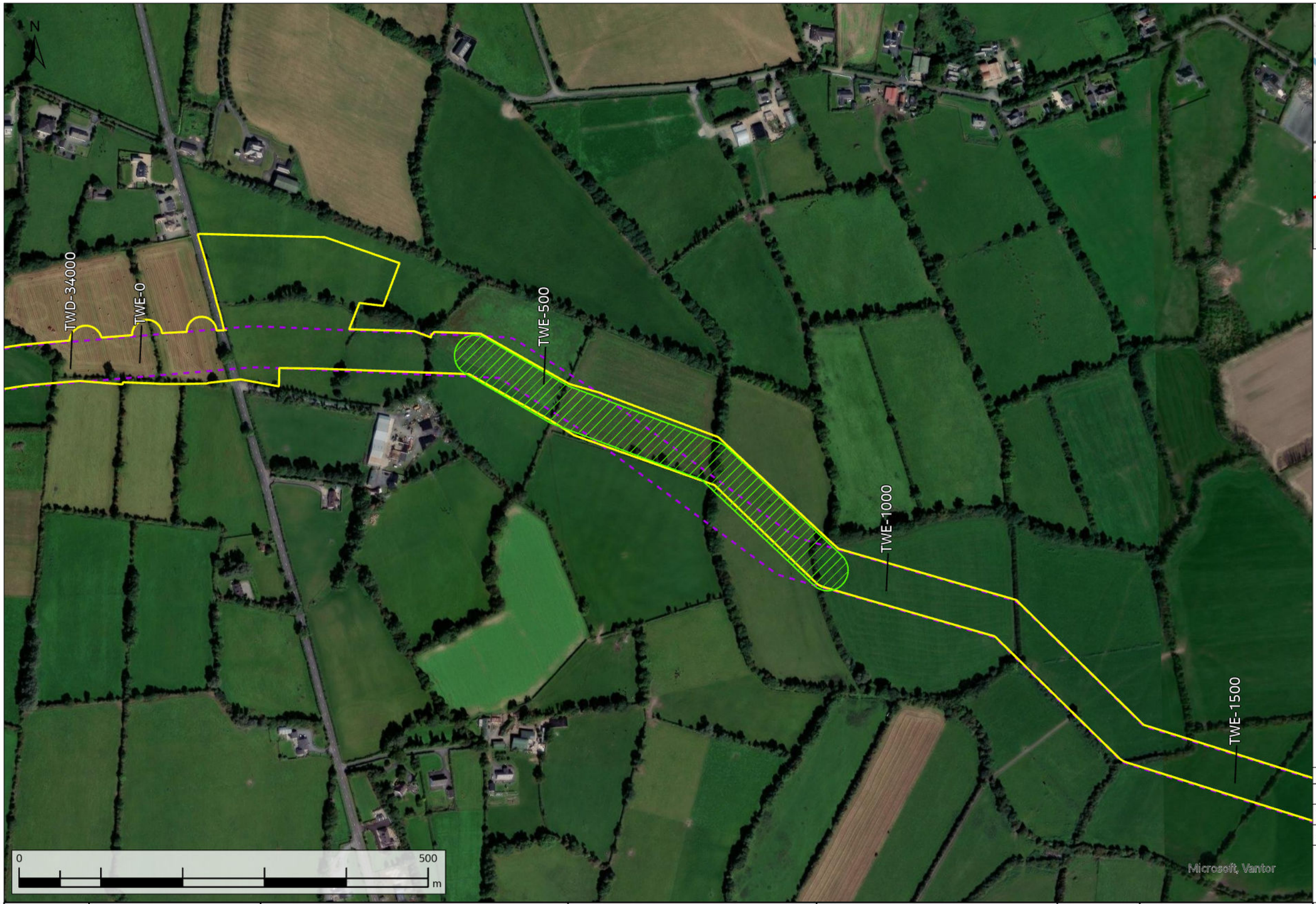
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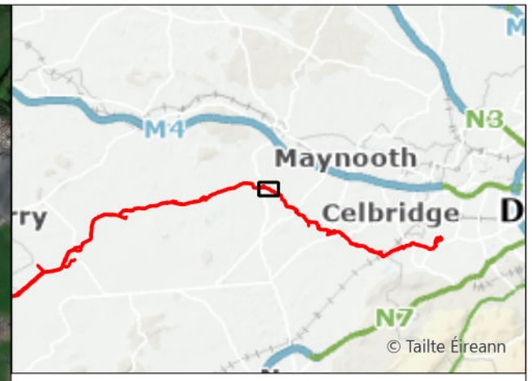
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FIGURE 149





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL389	Landowner Reroute Request - alignment amendment to the north.	No environmental objection.	No technical objection.	Adjacent landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.
TWE-500						

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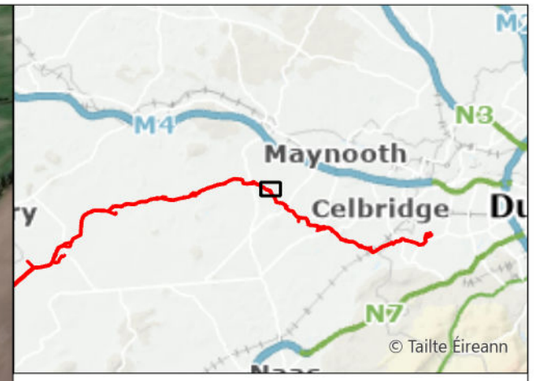
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FIGURE 150

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL392 TWE-1550	Landowner Reroute Request - alignment amendment to the north to reroute out of landowner's land.	No environmental objection.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted and reroute has not been accepted.	Not facilitated	Request not facilitated due to impacts on additional landowners and the requirement to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

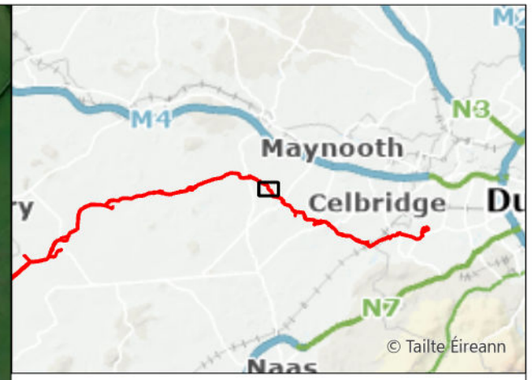
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FIGURE 151





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL393 TWE-1800	Landowner Reroute Request - alignment amendment options to reduce the impact on landowner's land.	No environmental objection.	No technical objection to the facilitated reroute. Rejected reroute Option A would compromise hydraulic performance by introducing additional bends, while poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted and partially facilitated reroute has been accepted. Rejected reroute Option B would cause unacceptable impact to adjacent landowner.	Partially facilitated	Request partially facilitated. Request could not be fully facilitated in the north due to technical impact (Option A) and landowner impact (Option B).

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

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FIGURE 152





Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB | 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL395 TWE-2450	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries and to avoid a copse of mature trees and a line of trees along the boundary.	No environmental objection. Mitigation measures could be required to maintain a suitable distance to the mature trees along the southern boundary to ensure the canopies are avoided during construction works.	No technical objection.	Adjacent landowner has been consulted and proposed reroute has been accepted. Landowner requested that the route be moved closer to the southern boundary of two land holdings. The route has been brought to the western boundary in line with a joint request with the adjacent landowner.	Facilitated	Request has been facilitated. The seven trees of importance identified by the landowner have been avoided.

Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

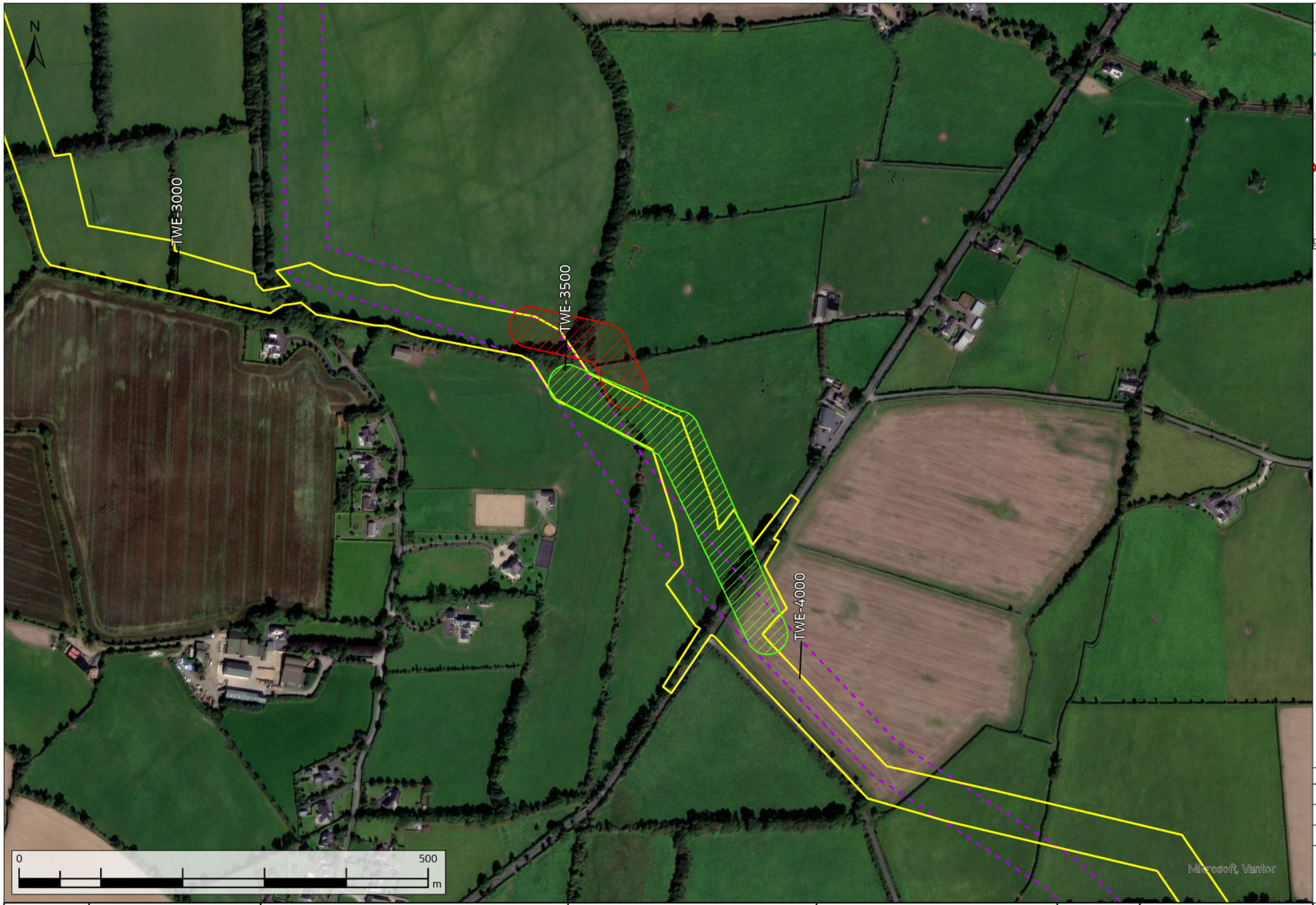
Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00153

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FIGURE 153

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL396 TWE-3500	Landowner Reroute Request - alignment amendment to the east to reroute the pipeline to the Graigsallah side of the Lyreen River.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and part of the route was rejected as the landowner was unwilling to accommodate reroute request in their land. A partially facilitated route was accepted.	Partially facilitated	Reroute has been partially facilitated as adjacent landowner was unwilling to facilitate the reroute in their land.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

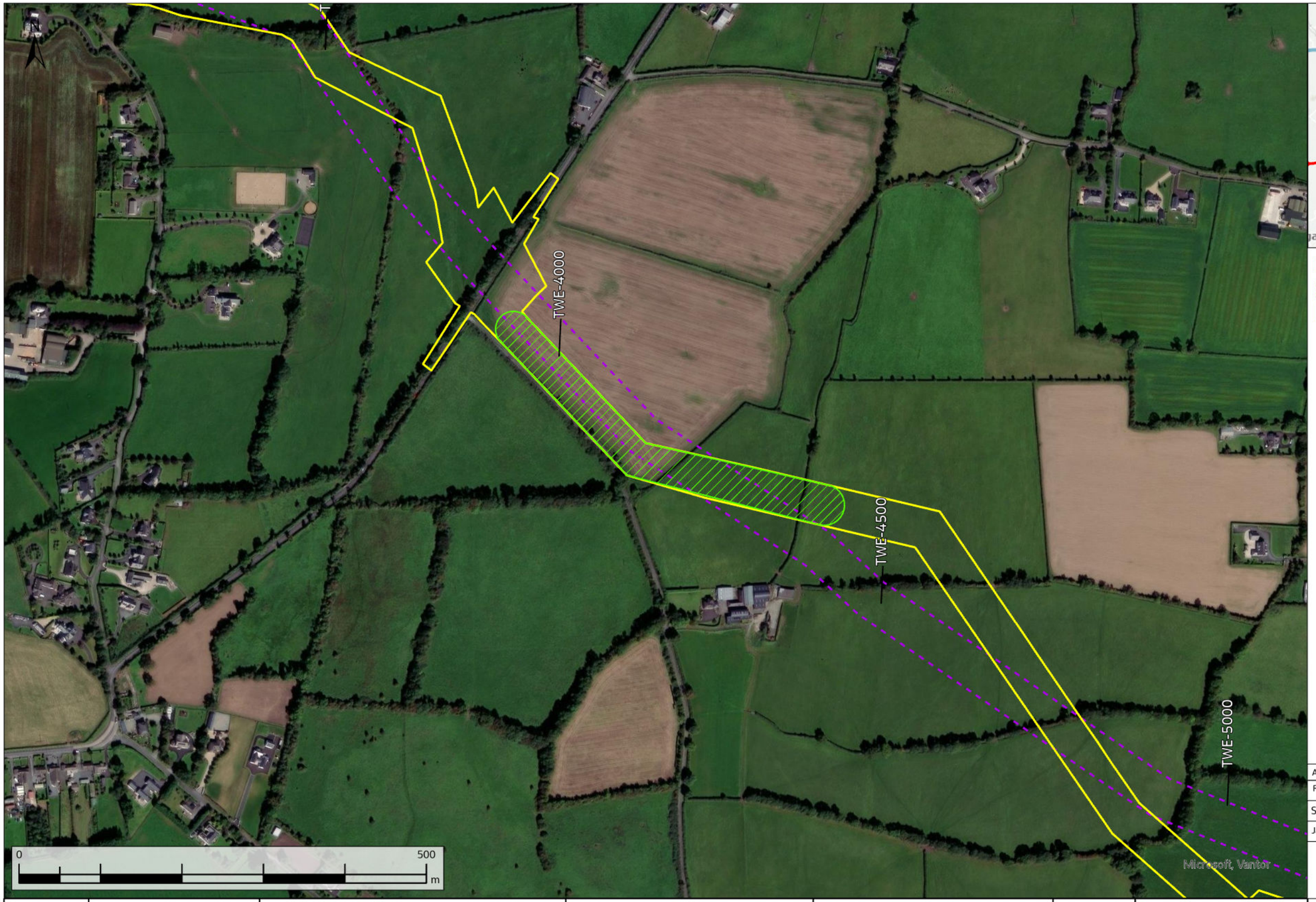
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FIGURE 154

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL397 TWE-4000	Landowner reroute request - alignment amendment to the pipeline to the south to run adjacent to the southern field boundary.	No environmental objection.	No technical objection.	Proposed reroute has been accepted by the adjacent landowner.	Facilitated	Request has been facilitated.

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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00155

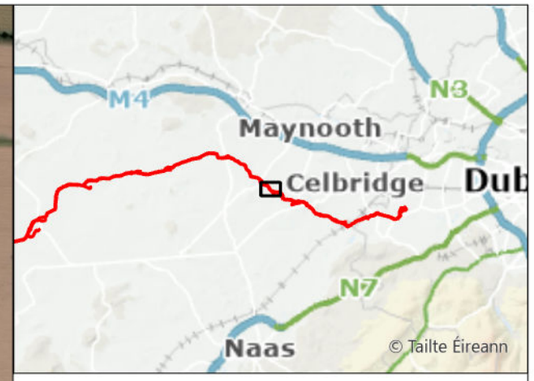
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FIGURE 155

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL399 TWE-5250	Landowner Reroute Request - alignment amendment to the south.	No envionmental objection. Reroute would be closer to residential property, but standard mitigation would avoid significant effects.	No technical objection.	The adjacent landowner to the west has been consulted and requested that the alignment be moved further from their property. This has been accommodated as part of this request.	Facilitated	Request has been facilitated.

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

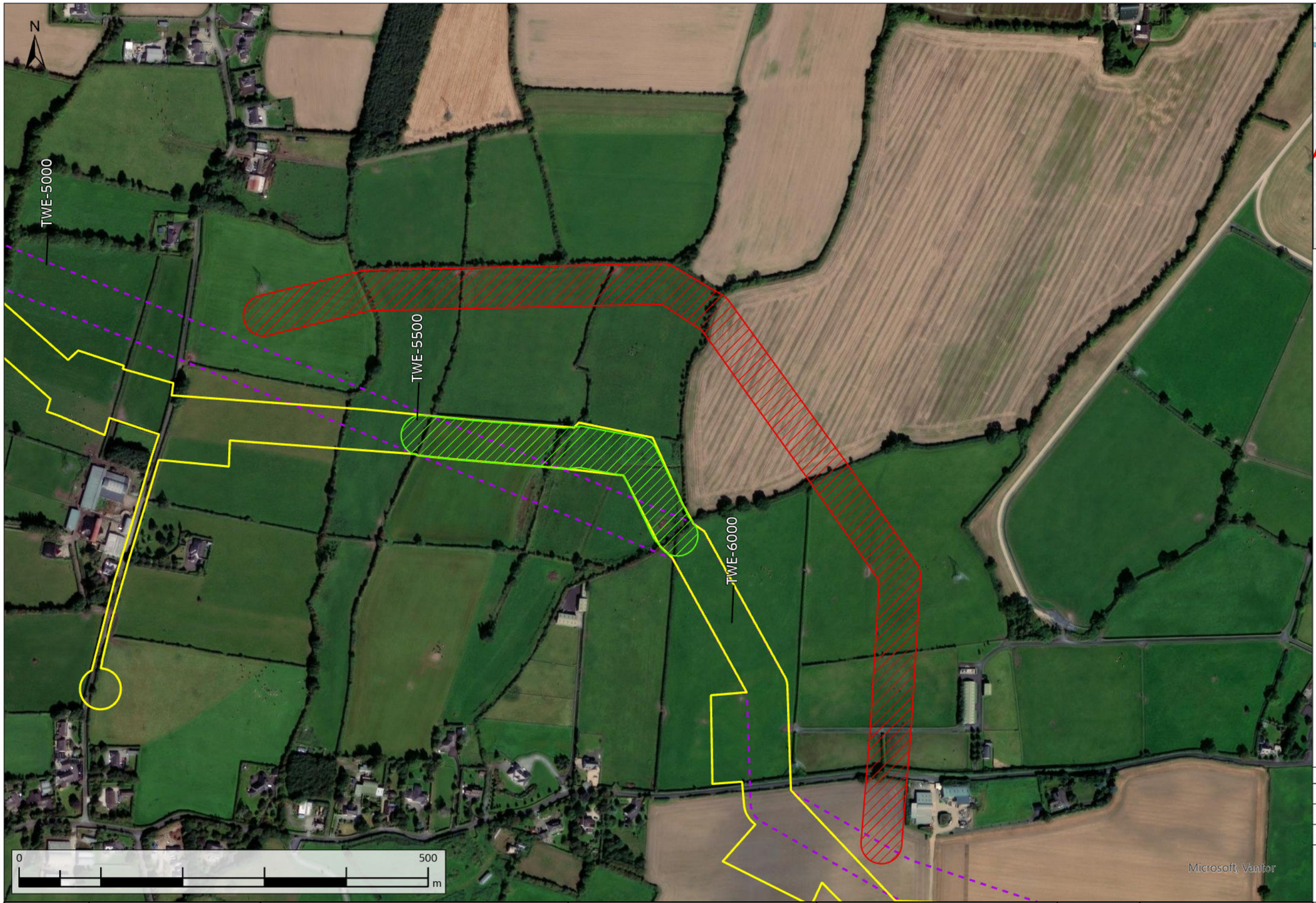
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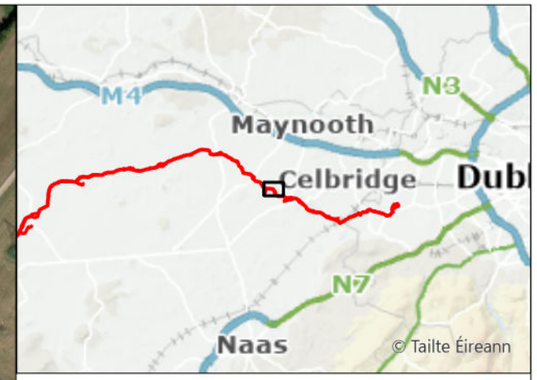
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FIGURE 156





Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL401 TWE-5500	Landowner Reroute Request - alignment amendment to the northeast to run closer to the field boundaries. Landowner considering planning permission in the future within the study area.	No environmental objection.	Reroute options are technically less favourable. Facilitated reroute would be preferable over the rejected option. Rejected reroute would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Landowners have been consulted and no additional folios would be impacted by the partially facilitated alignment. Rejected reroute would have conflicted with adjacent landowners.	Partially facilitated	Request has been partially facilitated. The rejected reroute could not be accomodated due to the requirement to maintain an acceptable pipeline alignment and to manage the impact on adjacent landowner.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

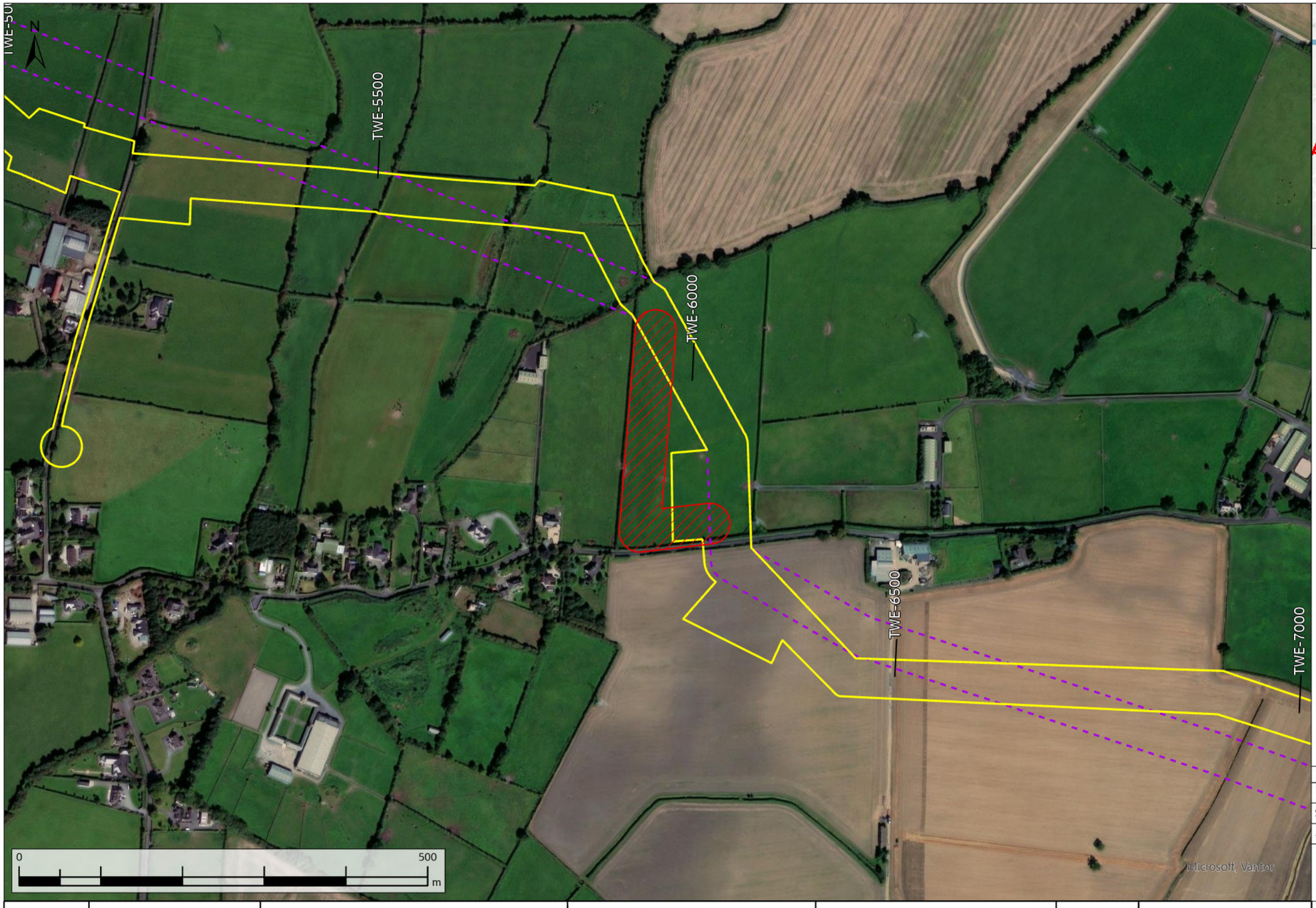
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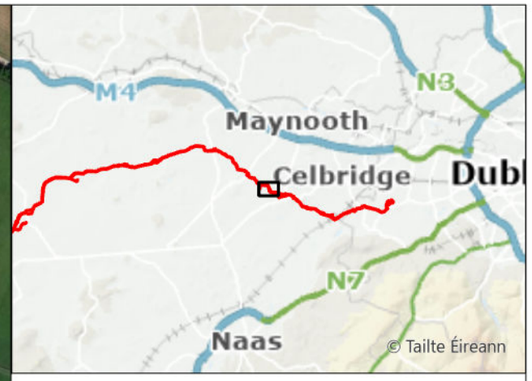
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FIGURE 157





Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL402 TWE-5850	Landowner Reroute Request - alignment amendment to the west to run closer to the field boundary.	No environmental objection.	Reroute is technically less favourable. Reroute would compromise hydraulic performance by introducing acute bends, while poor alignment would introduce construction complexity and operational inefficiencies.	No landowner engagement undertaken.	Not facilitated	Request not facilitated due to the requirement to maintain acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

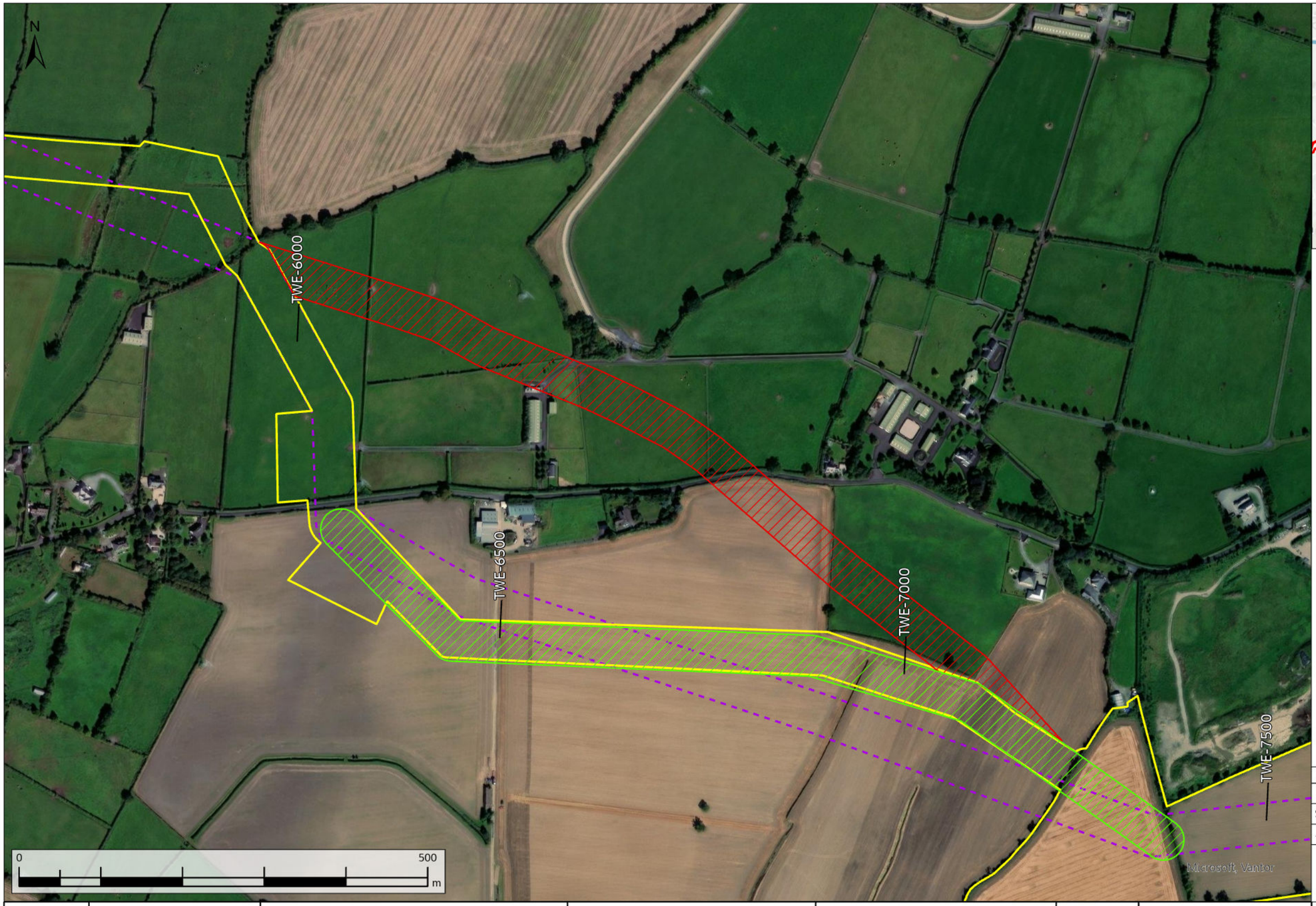
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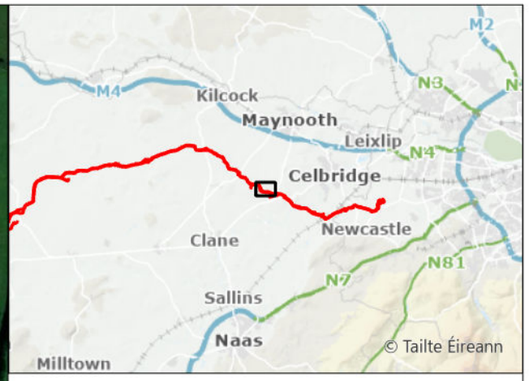
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FIGURE 158

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL403 TWE-6200	Landowner Reroute Request - alignment amendment to avoid landowner's land.	Partially facilitated route - no environmental objection. The rejected route would be adjacent to existing properties.	Partially facilitated route - no technical objection. The rejected route would be adjacent to existing properties, and could create a pinch point in the construction working width.	Landowner has been consulted and partially facilitated reroute has been accepted. Rejected reroute would have impacted on the land of adjacent landowners.	Partially facilitated	Reroute partially facilitated. Full reroute could not be accomodated because it would significantly impact adjacent landowner. Landowner is willing to accept the partially facilitated reroute.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

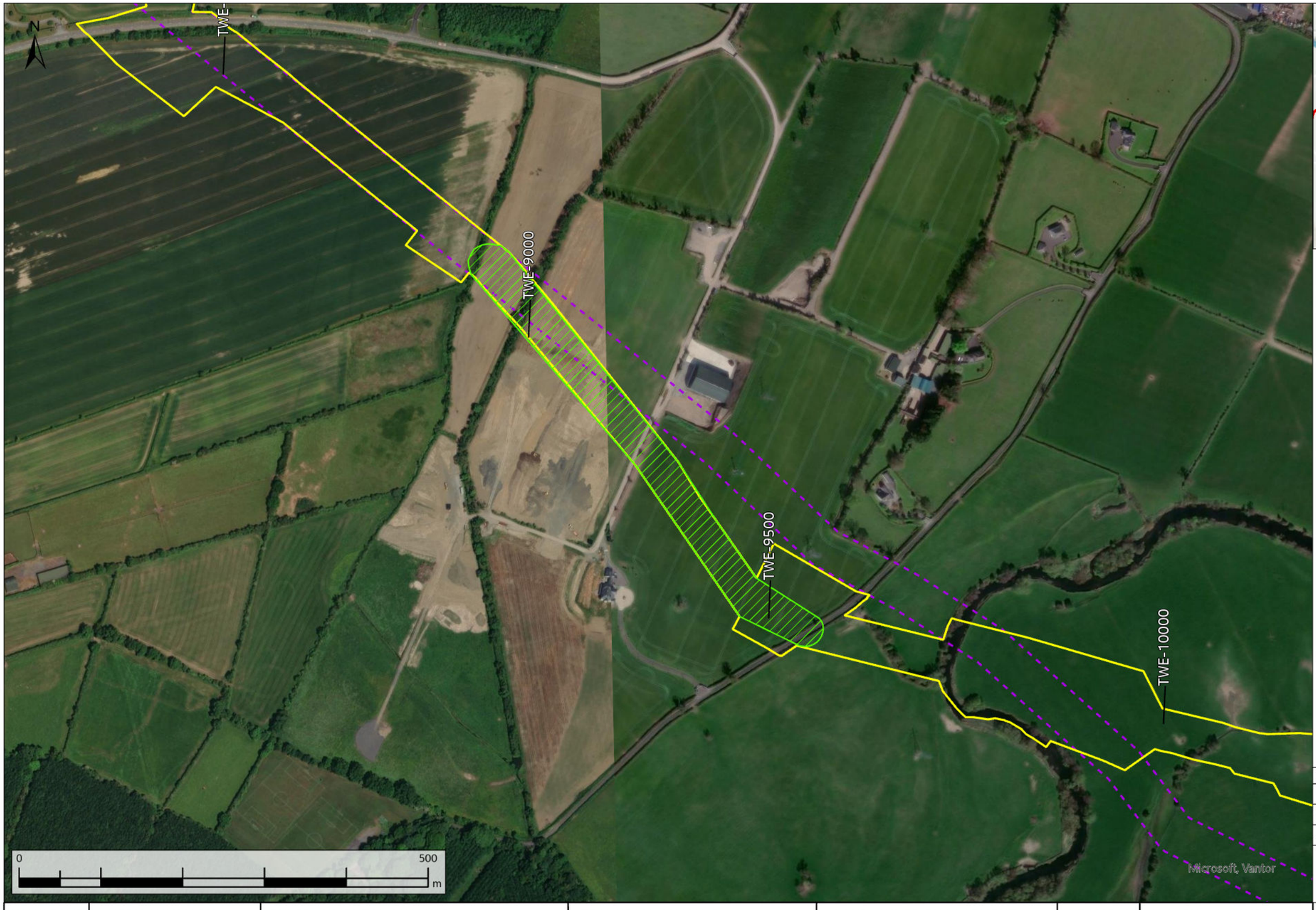
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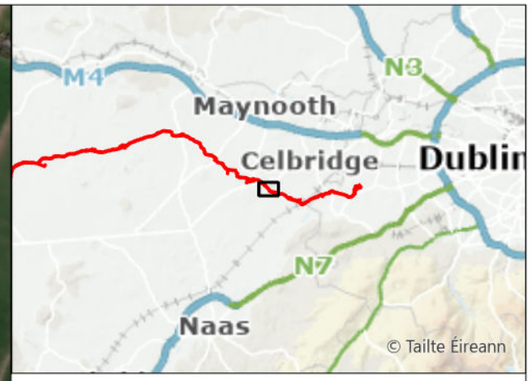
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FIGURE 159

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Request Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL407 TWE-9000	Landowner Reroute Request - alignment amendment options to avoid landowner access and potential development site. Several variations of this request have previously been assessed for this location (omitted from map for clarity).	No environmental objection. Reroute would be closer to residential property, but standard mitigation would avoid significant effects.	No technical objection to current facilitated reroute.	Landowner has been consulted and proposed reroute has been accepted. No additional landowners impacted.	Facilitated	Request has been facilitated.

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

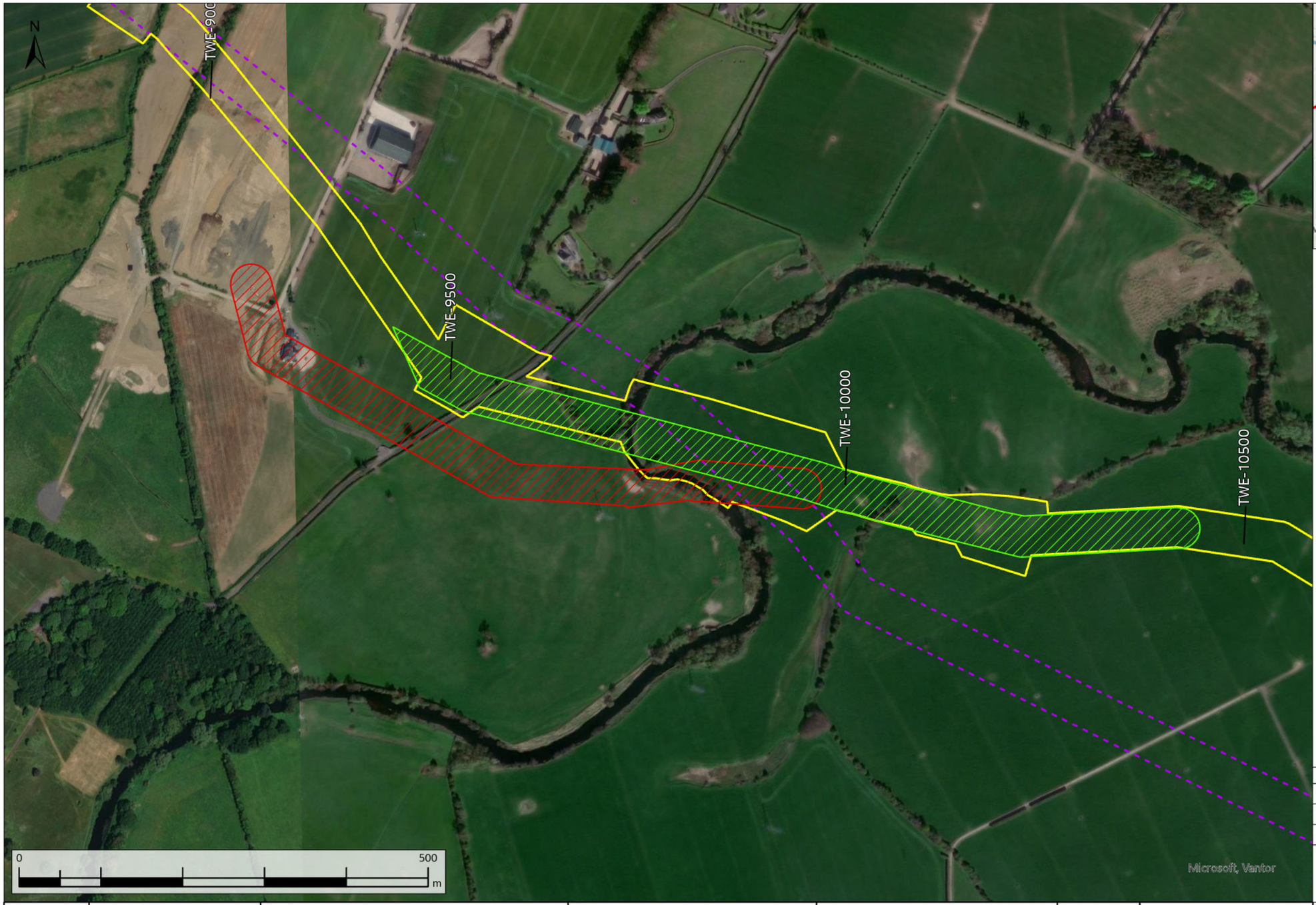
Drawing Title: REROUTE MAPPING

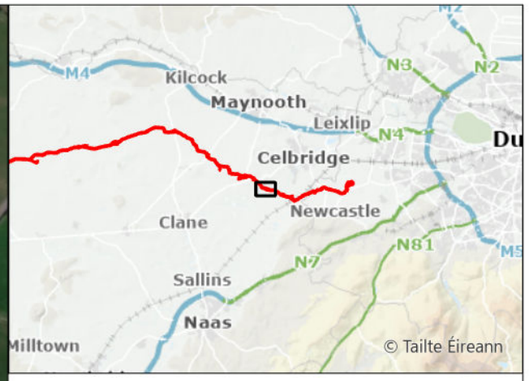
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FIGURE 160





- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL408 TWE-9500	Landowner Reroute Request - alignment amendment options to the south to increase buffer to properties to the north.	Less favourable reroute environmentally. Mitigation measures could be required to address the reroute south crossing a potential badger sett.	No technical objection to the facilitated reroute. Alignment amendment would remove deep excavation through hill and increase distance from adjacent ESB pylon.	Partially facilitated reroute has been accepted in conjunction with requests from both adjacent landowners.	Partially facilitated	Request partially facilitated in conjunction with requests from both adjacent landowners.

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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00161

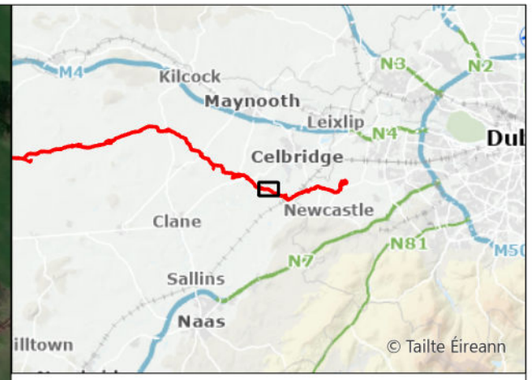
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FIGURE 161

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Request Facilitated
Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL409 TWE-9800	Landowner Reroute Request - alignment amendment options to avoid paddocks.	Partially facilitated route - no environmental objection. Rejected route is in close proximity to the River Liffey. A separation distance should be maintained with the river.	Facilitated route - no technical objection. Rejected reroutes would compromise hydraulic performance by introducing additional bends. Poor alignment would introduce construction complexity and operational inefficiencies.	Adjacent landowners have been consulted and partially facilitated reroute has been accepted.	Partially facilitated	Request partially facilitated. Full reroute not accomondated in order to maintain separation distance with River Liffey.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

Drawing No.: 32105801/300/00162

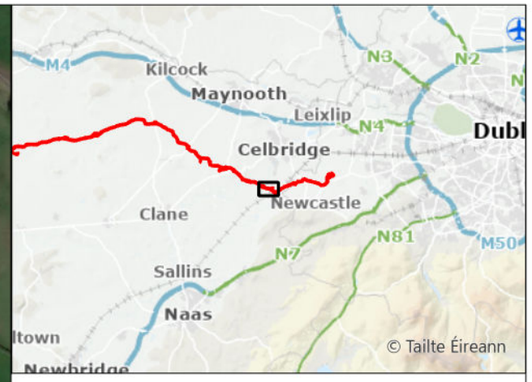
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FIGURE 162

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No. 321120BB — 9318

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL410 TWE-11750	Landowner Reroute Request - alignment amendment to the north to avoid existing properties.	No environmental objection.	No technical objection. Reroute would avoid crossing the yard of an existing property and would cross the railway perpendicularly. Trenchless excavation should be implemented. Irish Rail were met with on site and culvert constraint was noted. Alignment amendment would mitigate the impact.	Adjacent landowners have been consulted and proposed reroute has been accepted. Landowners in the northwest required an overall reroute in the area and a crossing of the railway further east was required.	Facilitated	Request partially facilitated as amended alignment does not intersect landowner's land.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

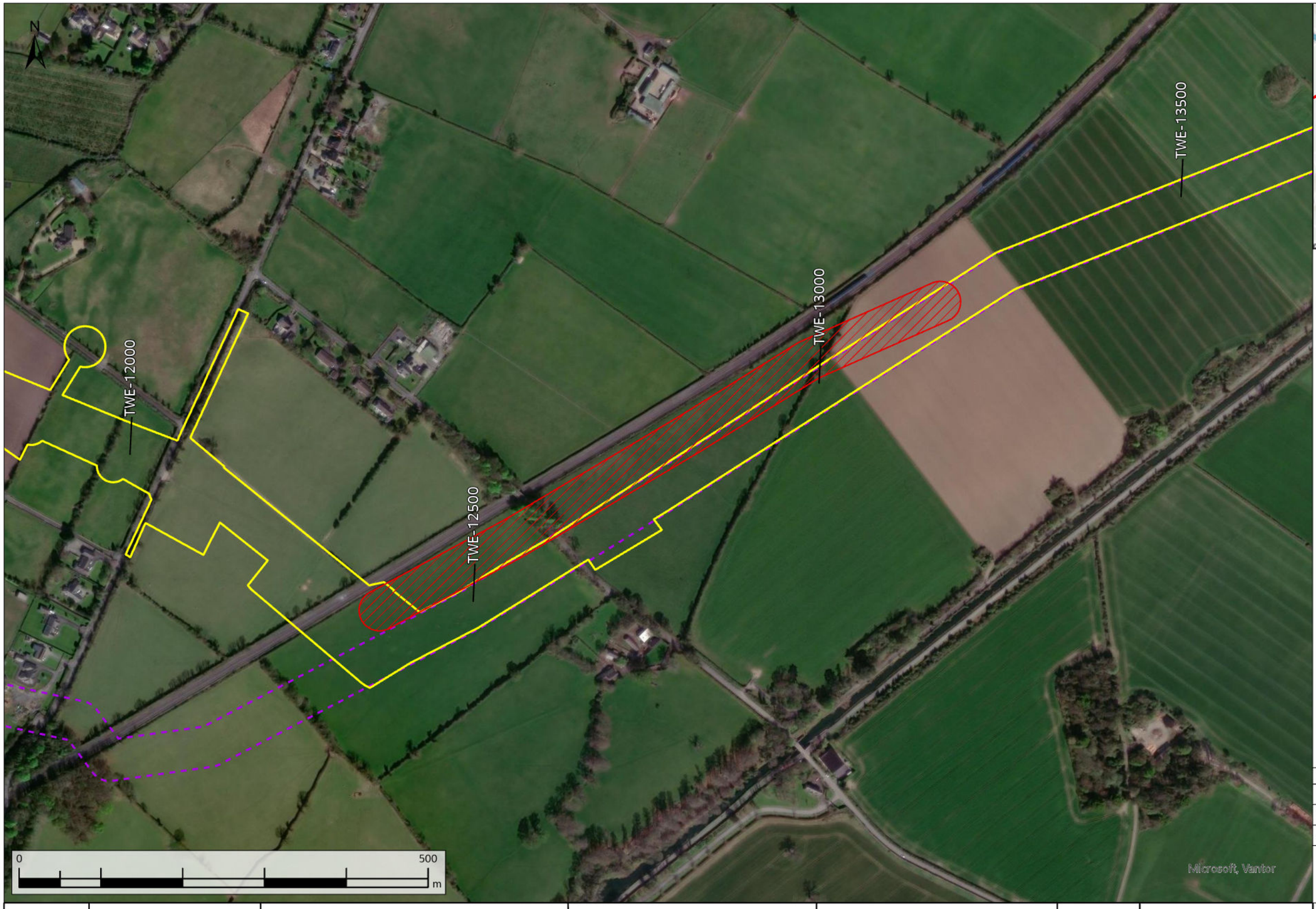
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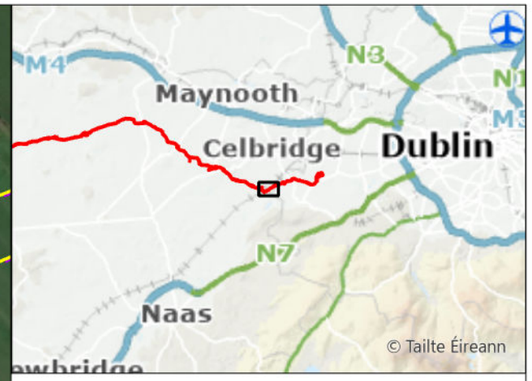
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FIGURE 163

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Request Not Facilitated
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL412 TWE-12000	Landowner Reroute Request - alignment amendment to the west to run closer to the railway line.	No environmental objection.	Reroute is technically unfavourable. A crossing of the railway would involve very deep excavations in excess of 7m, which would be undertaken by tunnelling. Mitigation measures and temporary works would be required to maintain the structural integrity of the railway. It is a requirement to maintain a buffer zone with the railway for these works.	Adjacent landowner have been consulted.	Not facilitated	Request not facilitated as an adequate buffer zone must be maintained with the railway line.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

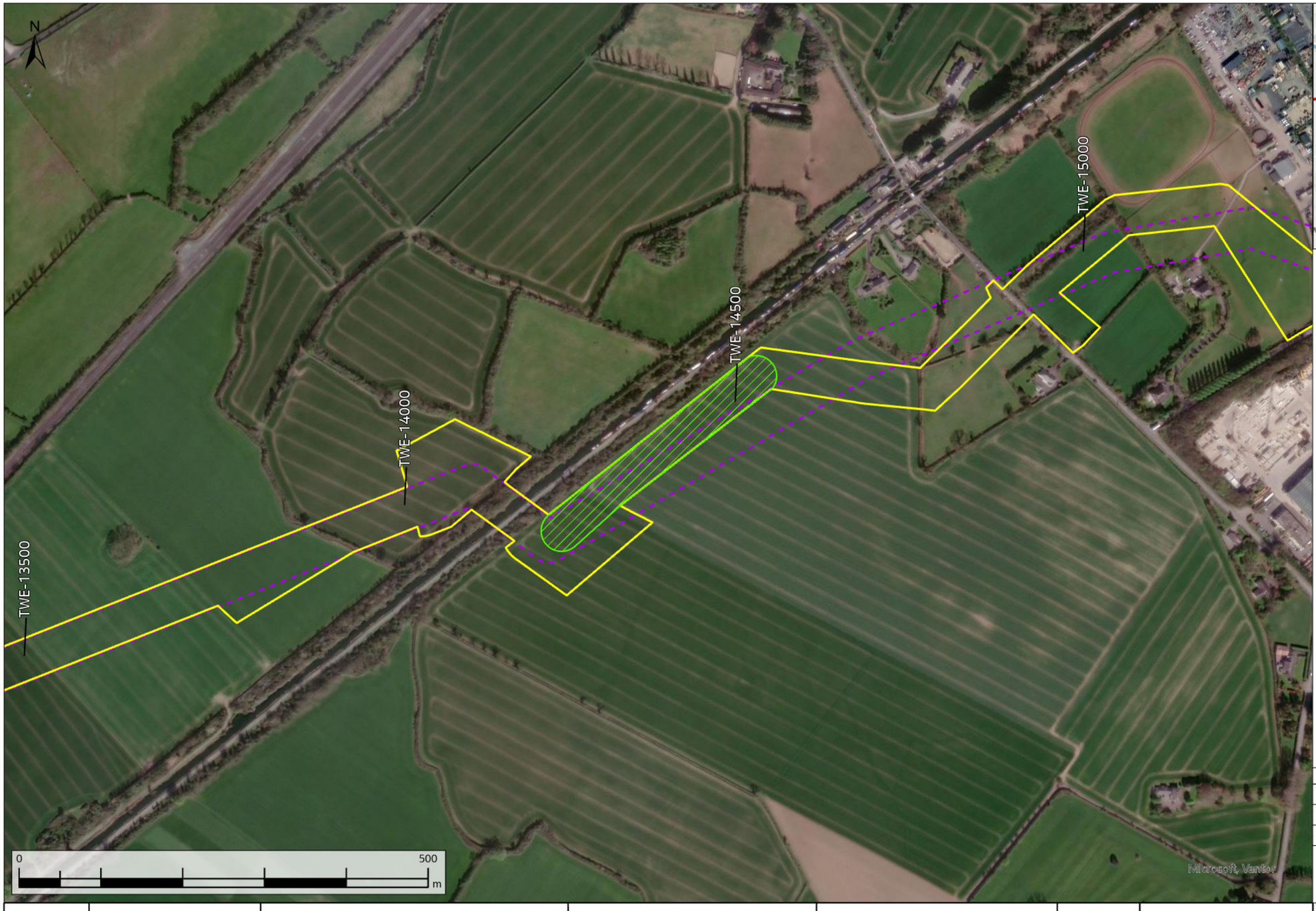
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FIGURE 164

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Request Facilitated

Original Indicative 50m Pipeline Corridor (Nov. 2016)

Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL417	Landowner Reroute Request - alignment amendment to the east to run closer to the canal.	No environmental objection.	No technical objection. Alignment would maintain acceptable buffer to the canal.	Adjacent landowners have been consulted and proposed reroute has been accepted.	Facilitated	Request has been facilitated.
TWE-14150						

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Client: Uisce Éireann Irish Water

Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

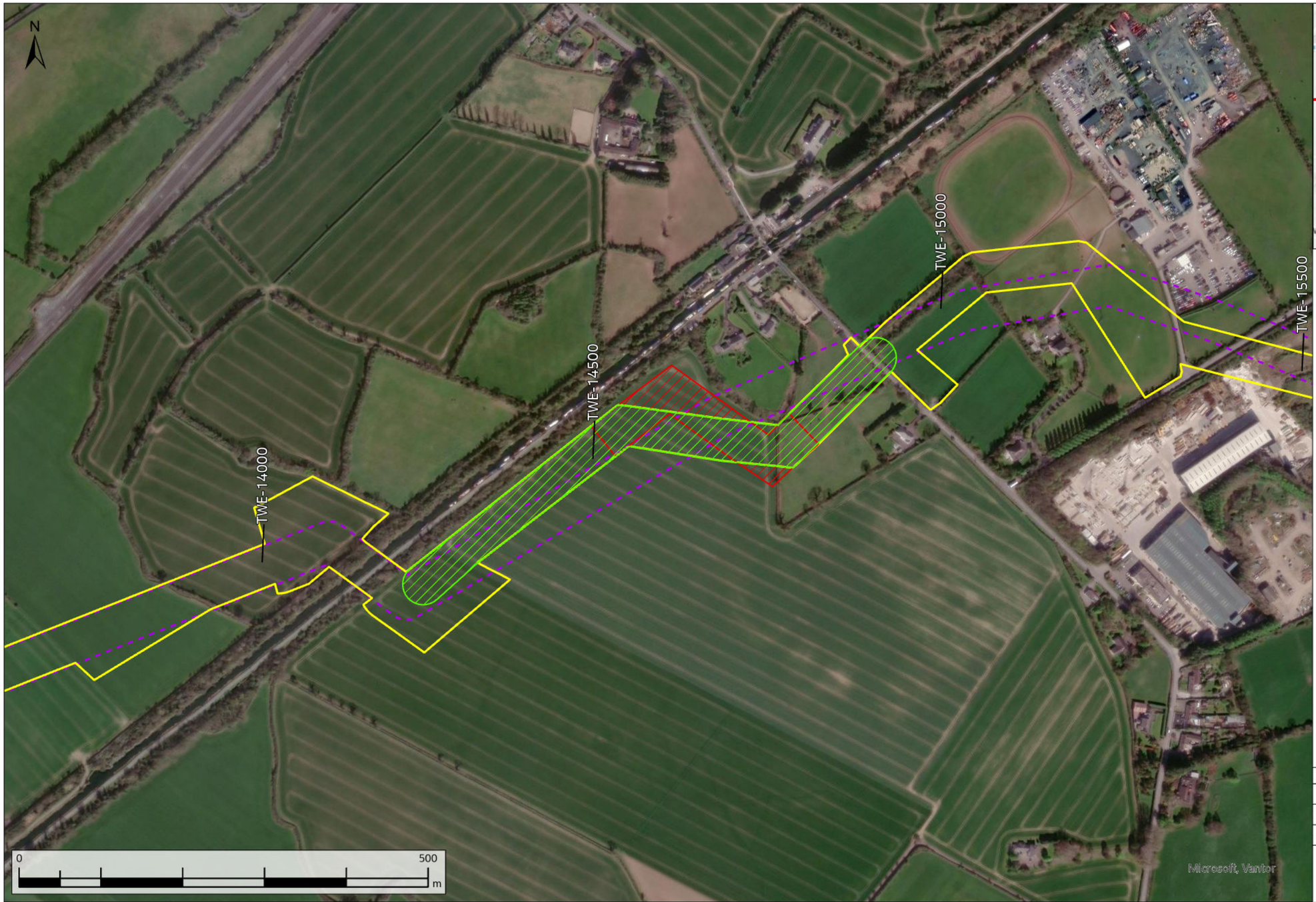
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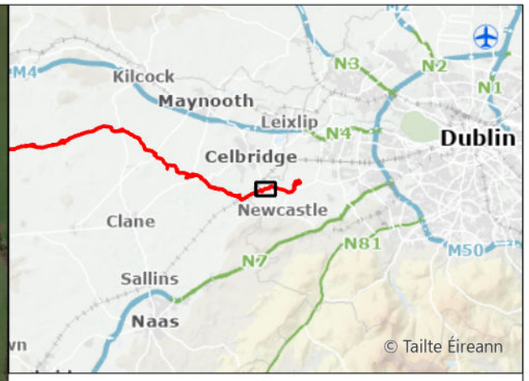
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FIGURE 165

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- Request Facilitated
- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL418 TWE-14700	Landowner Reroute Request - alignment amendment to avoid existing properties' garden and further to the east to run closer to the eastern field boundary and avoid land split.	No environmental objection. Reroute would be closer to residential property, but standard mitigation would avoid significant effects.	No technical objection to facilitated alignment, which would be slightly less efficient operationally, but acceptable. Rejected alignment would result in significant construction complexity and operational inefficiencies.	Adjacent landowners have been consulted and reroute has been accepted.	Partially facilitated	Request has been partially facilitated. Full reroute was not accomodated in order to maintain an acceptable pipeline alignment.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

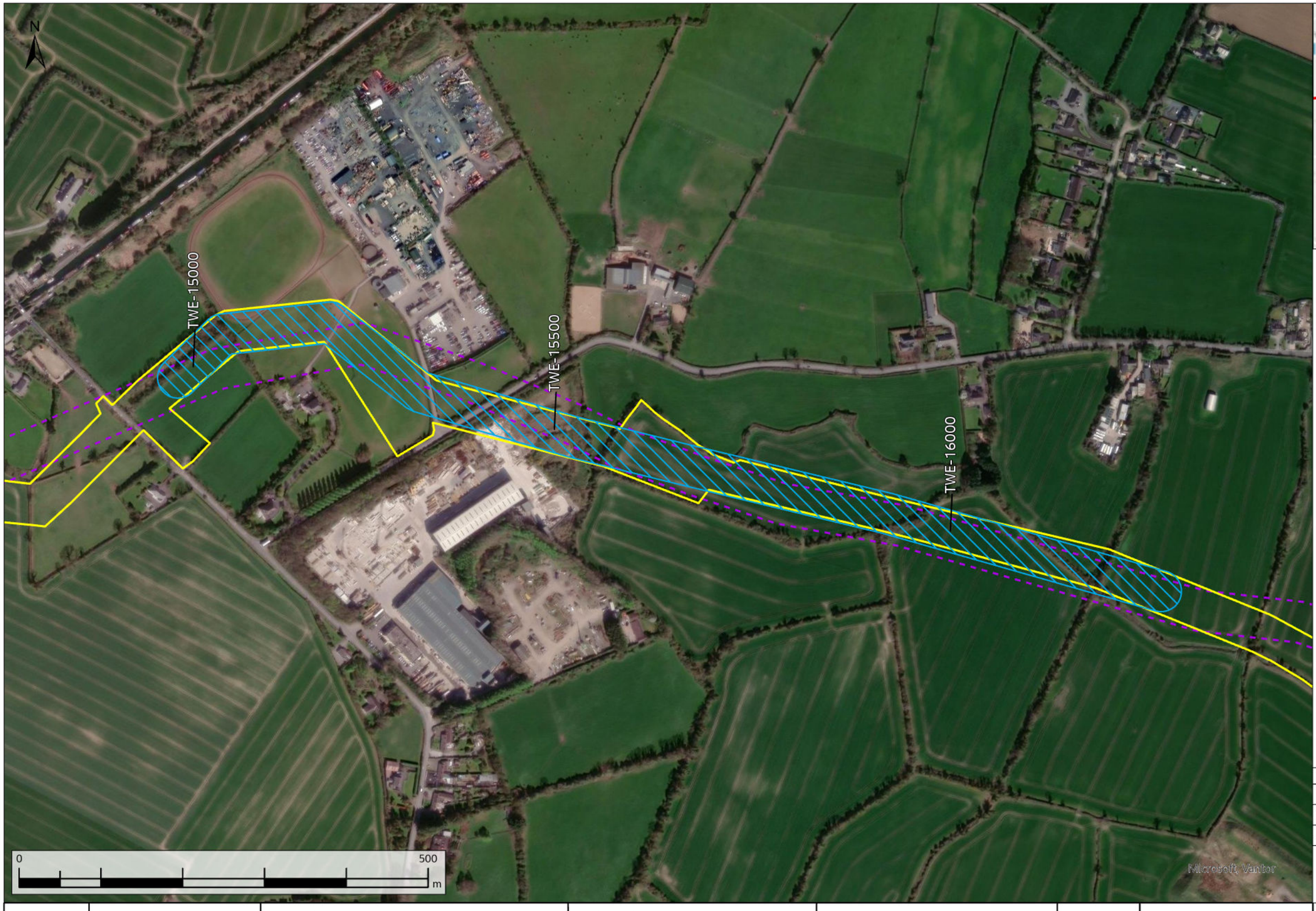
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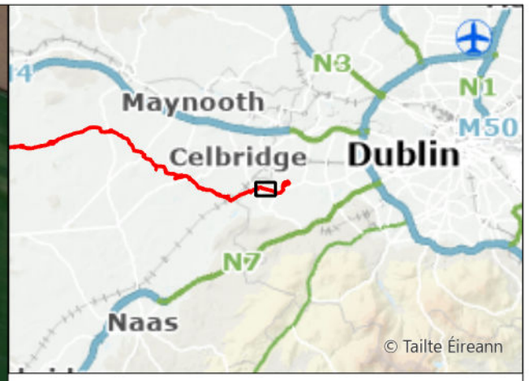
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FIGURE 166

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL419 TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

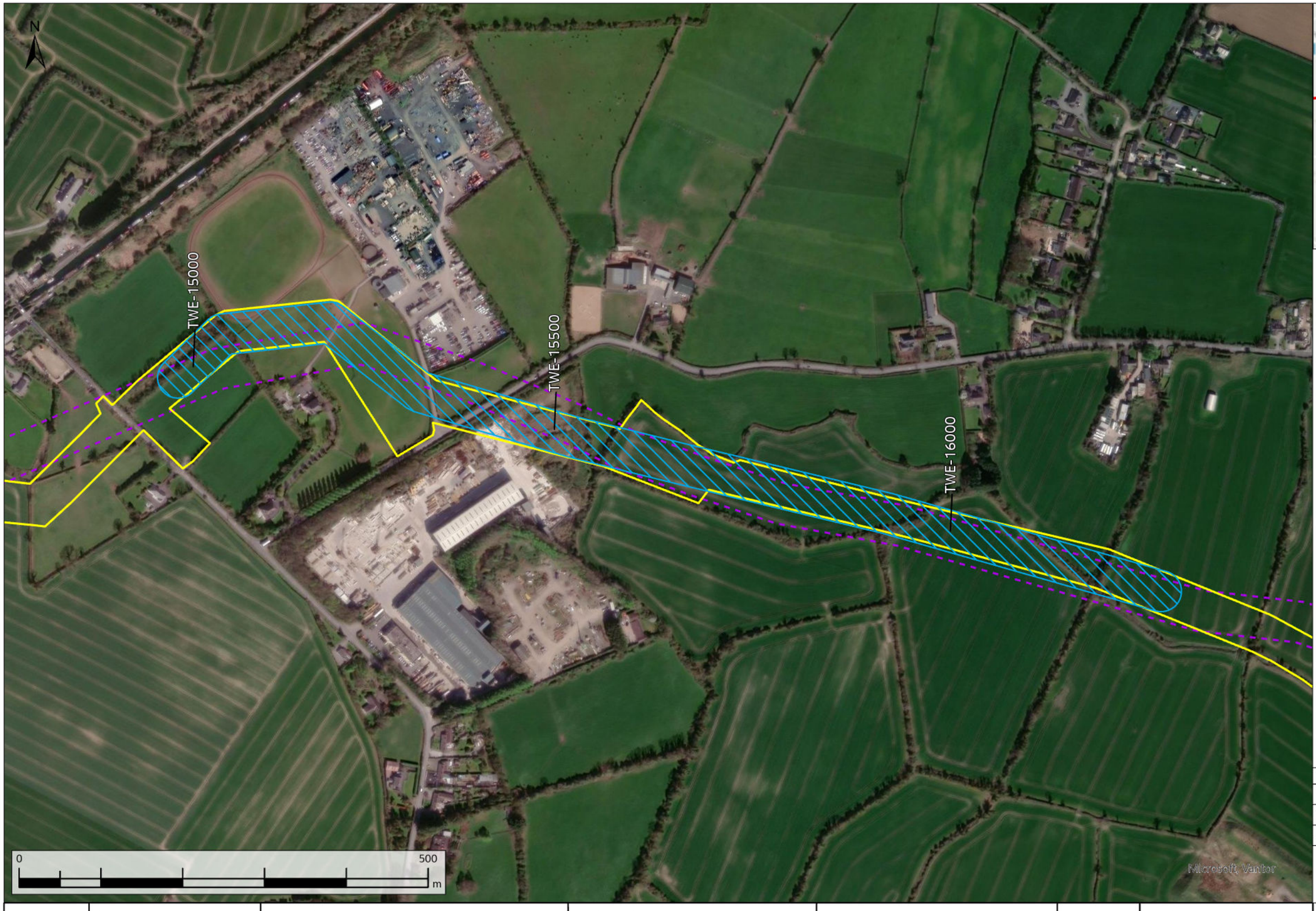
Drawing Title: REROUTE MAPPING

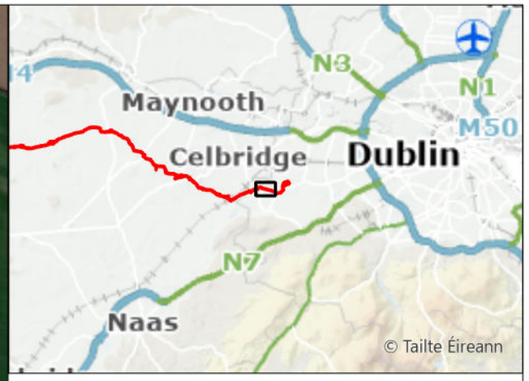
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FIGURE 167





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL420 TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

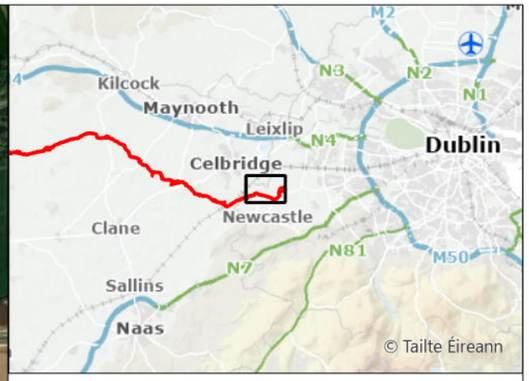
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FIGURE 168





- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL421a TWE-15000	Landowner Reroute Request - alignment amendment to the north to avoid landowner's land.	No environmental objection.	No technical objection. A section of the proposed reroute would run parallel to the canal. The proposed reroute is preferable to Waterways Ireland.	Adjacent landowner has been consulted and has rejected the proposed reroute.	Not facilitated	Request not facilitated as the adjacent landowner did not agree with the reroute.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

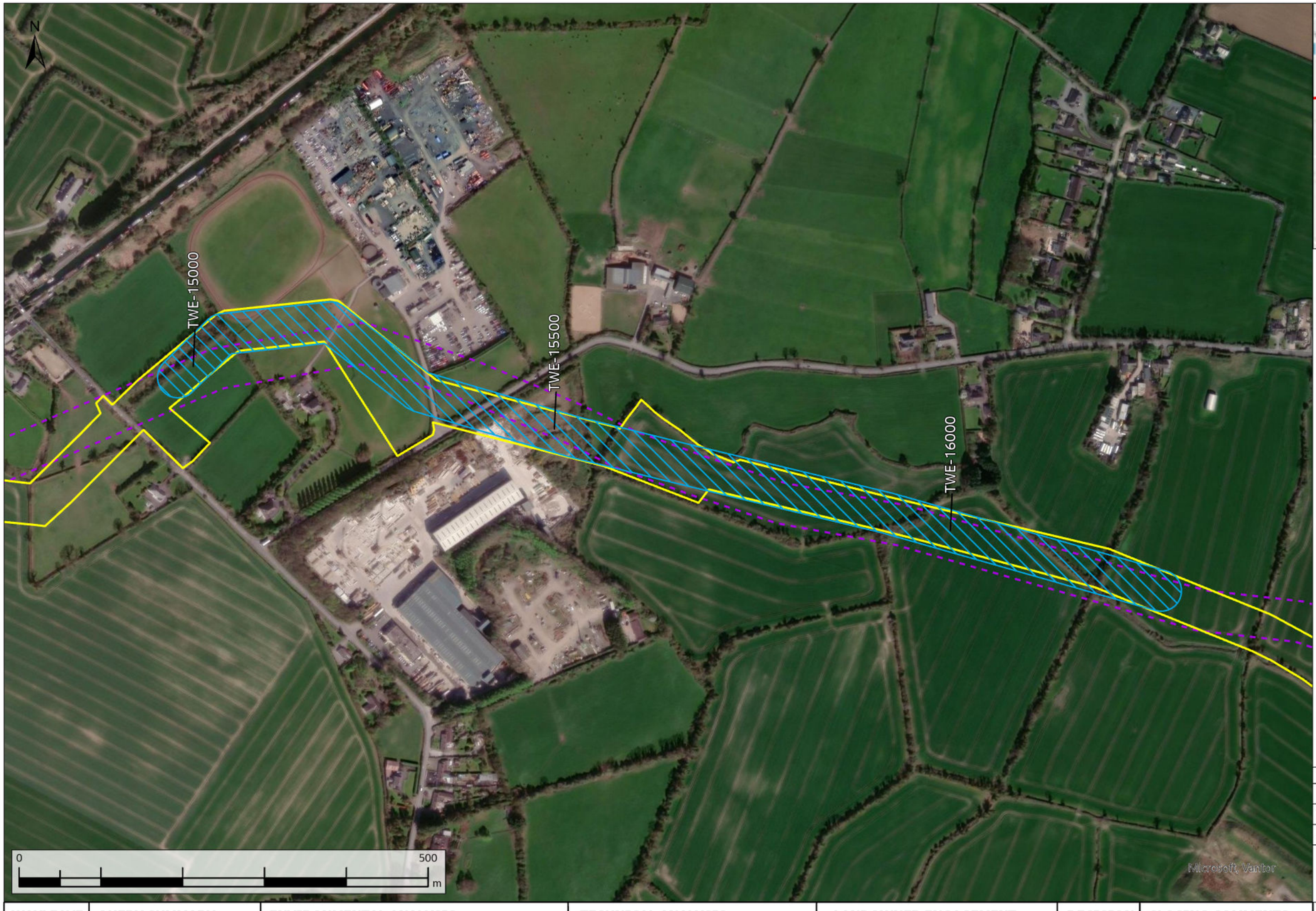
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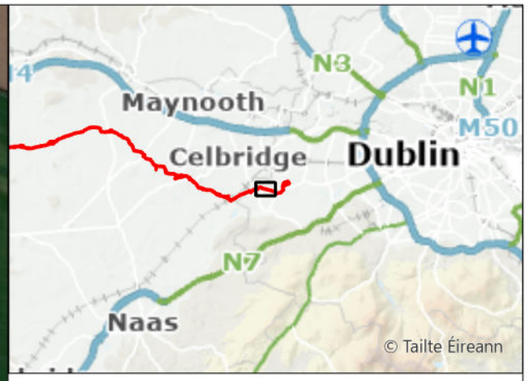
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FIGURE 169

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Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

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WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL421b TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

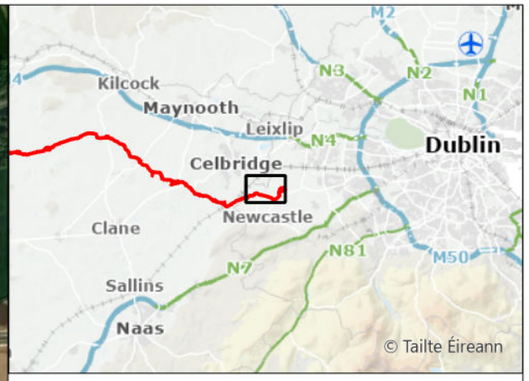
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FIGURE 170





- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL422 TWE-15350	Landowner Reroute Request - alignment amendment to the north to avoid landowner's site.	No environmental objection.	No technical objection.	Adjacent landowner has been consulted and has rejected the proposed reroute.	Not facilitated	Request not facilitated as the adjacent landowner did not agree with the reroute.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

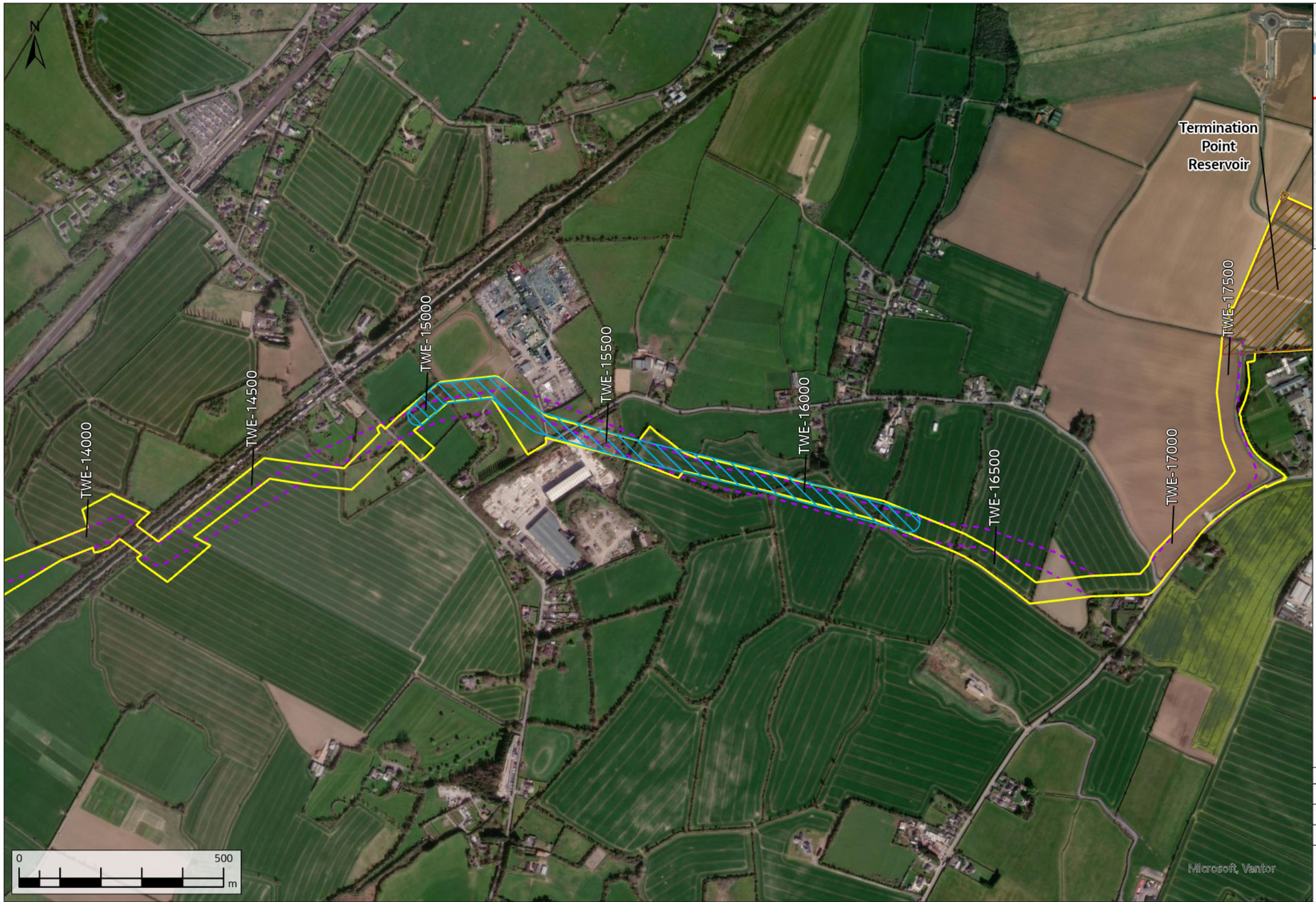
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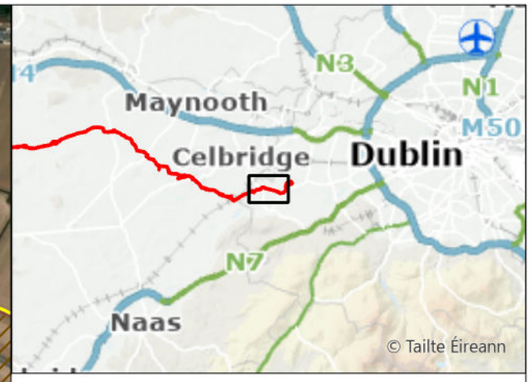
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FIGURE 171

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL422a TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Drawing Title: REROUTE MAPPING

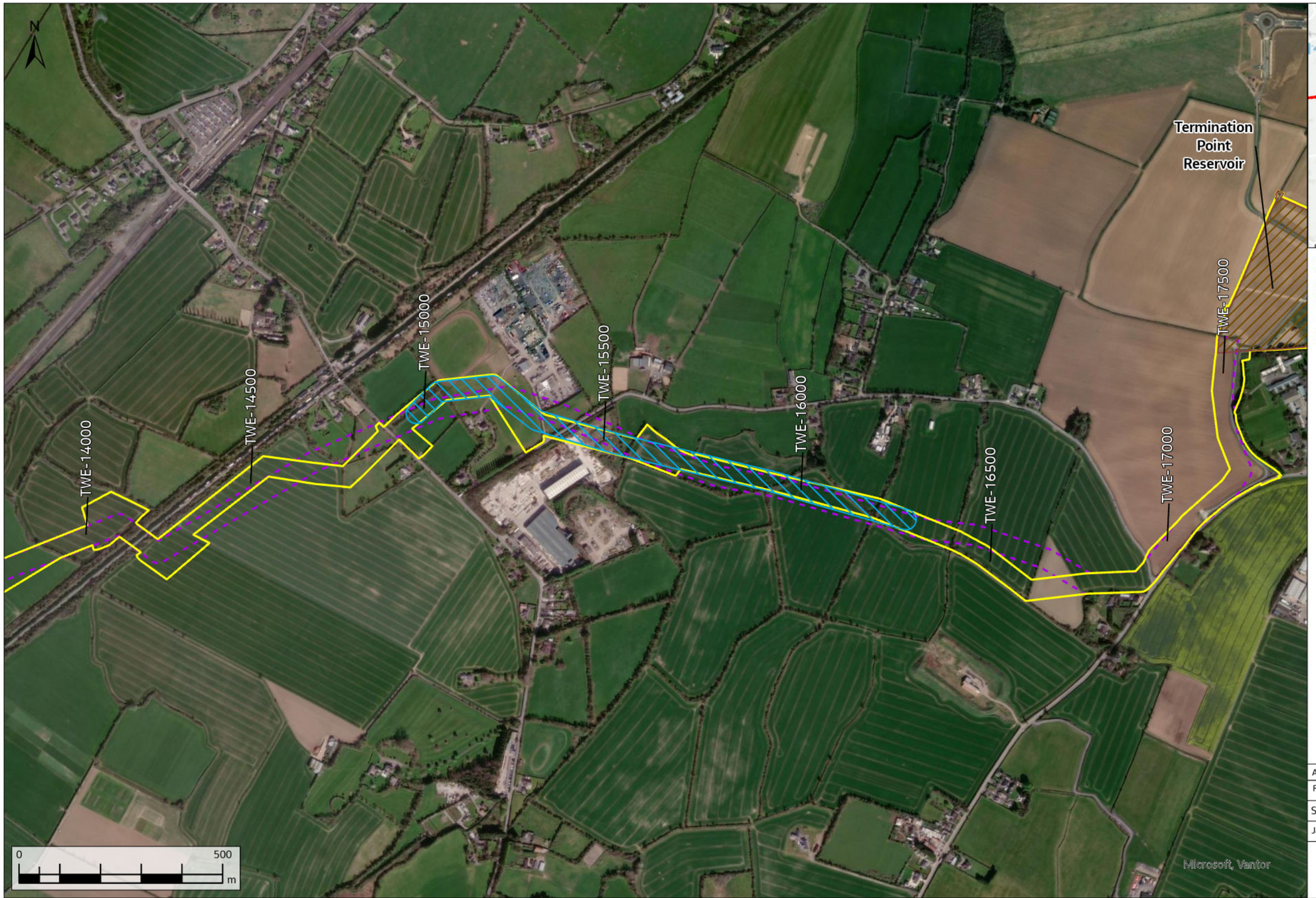
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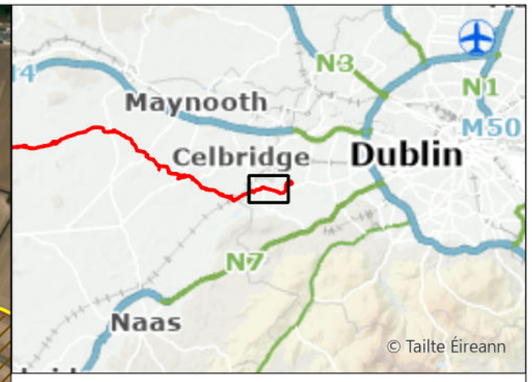
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FIGURE 172

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- Technical Reroute
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL423 TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

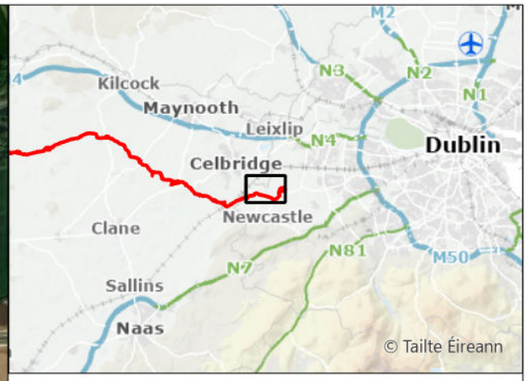
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FIGURE 173

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- Request Not Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL424a TWE-15500	Landowner Reroute Request - alignment amendment to the north.	No environmental objection.	No technical objection. A section of the proposed reroute would run parallel to the canal. The proposed reroute is preferable to Waterways Ireland.	Adjacent landowner has been consulted and has rejected the proposed reroute.	Not facilitated	Request not facilitated as the adjacent landowner did not agree with the reroute.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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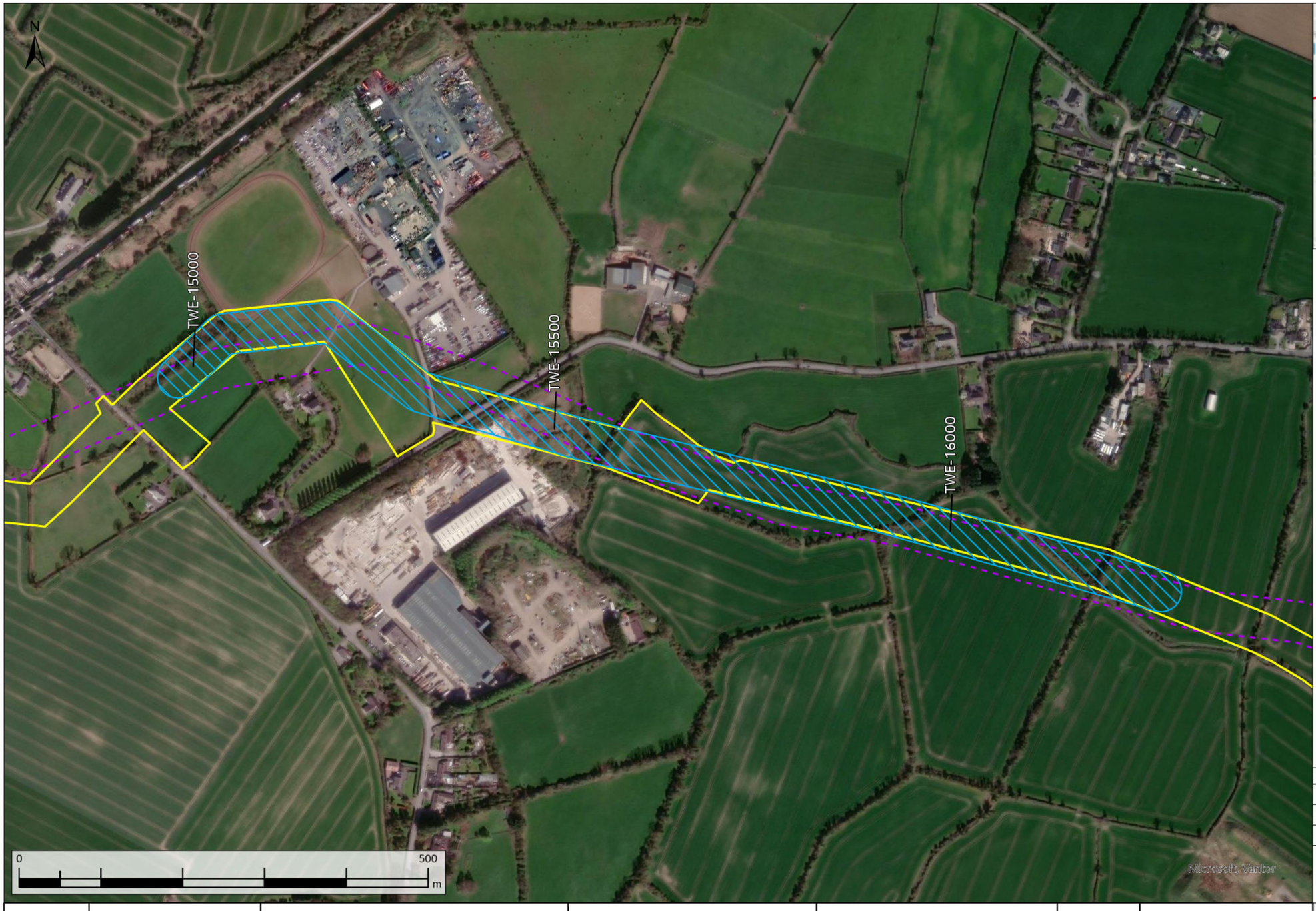
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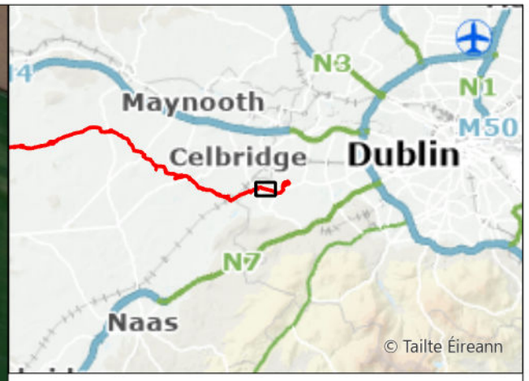
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FIGURE 174





Technical Reroute
Original Indicative 50m Pipeline Corridor (Nov. 2016)
Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL424b TWE-15000	Technical Reroute Request - alignment amendment to avoid treeline and crossing existing properties, and improve alignment and pipeline efficiency.	No environmental objection. Mitigation measures could be required as treeline would be outside the amended pipeline alignment but within the proposed construction working width.	No technical objection.	Landowner has been made aware of the technical reroute.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project: WATER SUPPLY PROJECT MIDLANDS AND EASTERN REGION

Drawing Title: REROUTE MAPPING

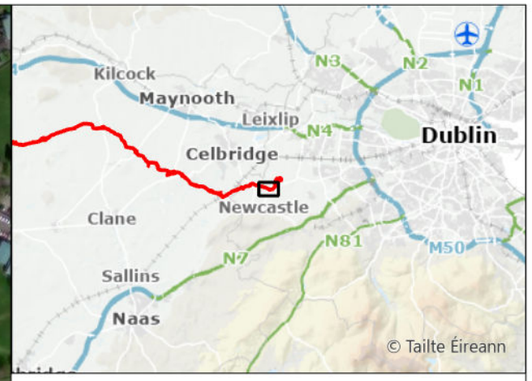
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FIGURE 175





- Request Facilitated
- Original Indicative 50m Pipeline Corridor (Nov. 2016)
- Termination Point Reservoir
- Current Construction Working Width

WAYLEAVE	QUERY SUMMARY	ENVIRONMENTAL ANALYSIS	TECHNICAL ANALYSIS	LANDOWNER ENGAGEMENT	DECISION	CLOSING COMMENTS
WL425 TWE-16300	Landowner Reroute Request - alignment amendment to the south to run closer to the southern field boundaries.	No environmental objection. Mitigation measures could be required to ensure that there is no impact on adjacent drainage ditch and hedgerow.	No technical objection.	Adjacent landowner has been consulted and reroute has been accepted.	Facilitated	Request has been facilitated.

Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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FIGURE 176

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