

20. Conclusion

An Environmental Impact Assessment (EIA) and Appropriate Assessment (AA) will be undertaken for the Water Supply Project Eastern and Midlands Region. An Environmental Impact Statement (EIS) and Natura Impact Statement (NIS) will be prepared for the Final Scheme which will present the findings of the above assessments and will accompany Irish Water's Planning Application to An Bord Pleanála in late 2017. The planning application will be subject to a period of statutory consultation which will provide the public with an opportunity to have their say, following which the Board will determine whether consent should be granted (see project roadmap below).

Consultation with the public, statutory organisations and non-statutory organisations will be undertaken during the Environmental Impact Assessment process. The results of this consultation will be used to inform the EIS and will be incorporated into the project design where practical.

This EIS Scoping Report is intended to outline key issues to be addressed in the preparation of the EIS and the nature and likely scale of the potential environmental impacts that may arise from the proposed scheme.

Scoping ensures that potential environmental impacts are identified at the initial stages of the process while ensuring environmental protection is a key consideration in the development of the project design.

It should be noted that scoping is an ongoing process which does not end at the conclusion of this consultation period but continues throughout the Environmental Impact Assessment (EIA) Process.

Irish Water are now inviting submissions from the public and interested groups/parties on the issues and methodologies to be considered as part of the EIS. The consultation period will run for a period of 14 weeks from the 8th of November 2016 to the 14th of February 2017 inclusive.

To make a submission please use the following contact details:

Email: watersupply@water.ie

Postal Address: Water Supply Project, Merrion House, Merrion Road, Dublin 4.

LoCall: 1890 252 848 (ROI) or 084 5246 5059 (NI)

Website: www.watersupplyproject.ie

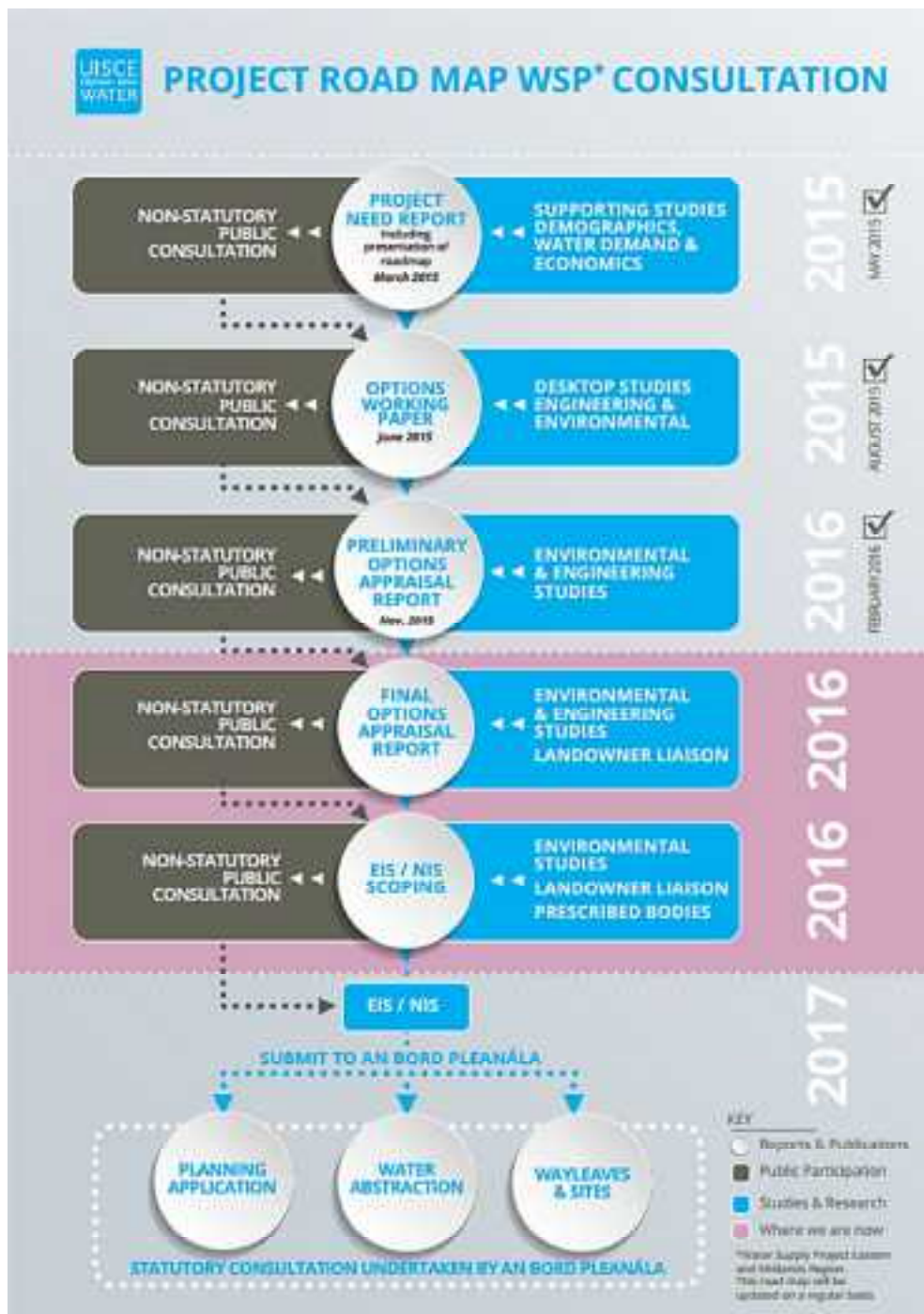
Irish Water would like your views on

- Is there any additional information that should be considered in the development of the Preferred Scheme?
- Are there any additional environmental issues or alternative methodologies that should be taken into consideration in preparing the EIS?
- How would you like Irish Water to communicate with you as the project progresses towards planning approval?

We also welcome all relevant submissions on the project.

A comprehensive engagement strategy will be utilised during the consultation period to ensure the key findings of the report are clearly communicated with the public and interested parties and this will include a number of open days which will be held along the route of the Preferred Scheme (see www.watersupplyproject.ie for further updates).

Following the completion of the consultation period, feedback received will be compiled within a consultation submissions report which will be made available on the project website (www.watersupplyproject.ie).



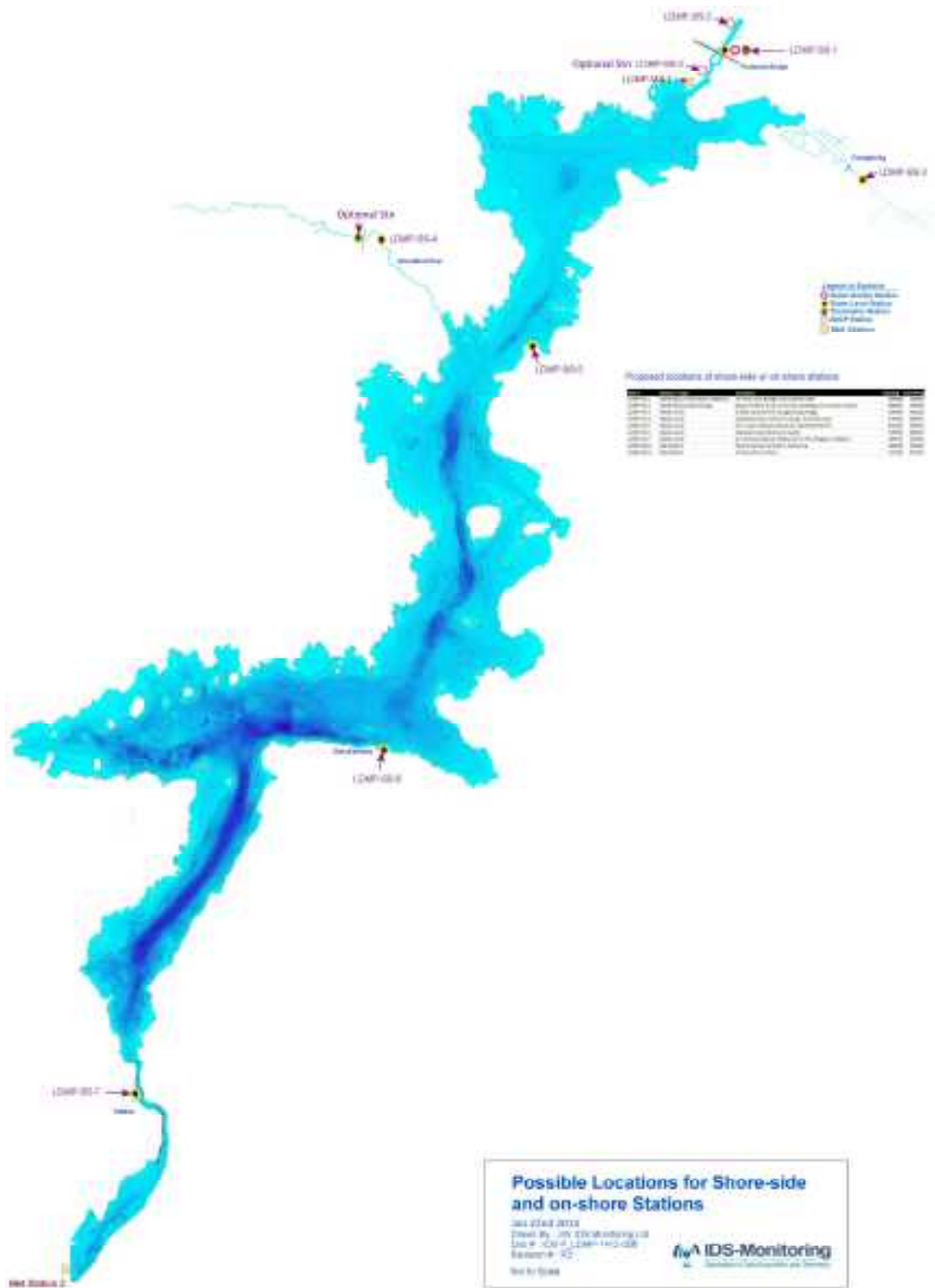
Appendix A. Additional Information

Appendix A-1. Environmental Objectives of the WFD

Environmental Objectives	Reference
Surface Water	
Member States shall implement the necessary measures to prevent deterioration of the status of all bodies of surface water.	Article 4.1(a)(i)
Member States shall protect, enhance and restore all bodies of surface water, subject to the application of subparagraph (iii) for artificial and heavily modified bodies of water, with the aim of achieving good surface water status by 2015.	Article 4.1(a)(ii)
Member States shall protect and enhance all artificial and heavily modified bodies of water, with the aim of achieving good ecological potential and good surface water chemical status by 2015.	Article 4.1(a)(iii)
Member States shall implement the necessary measures in accordance with Article 16(1) and (8), with the aim of progressively reducing pollution from priority substances and ceasing or phasing out emissions, discharges and losses of priority hazardous substances.	Article 4.1(a)(iv)
<p>Member States will not be in breach of this Directive when:</p> <ul style="list-style-type: none"> ▪ failure to achieve good ecological status or, where relevant, good ecological potential or to prevent deterioration in the status of a body of surface water is the result of new modifications to the physical characteristics of a surface water body, or ▪ failure to prevent deterioration from high status to good status of a body of surface water is the result of new sustainable human development activities. <p>and the following conditions are met:</p> <ul style="list-style-type: none"> ▪ All practicable steps are taken to mitigate the adverse impact on the status of the body of water. ▪ The reasons for those modifications or alterations are specifically set out and explained in the river basin management plan required under Article 13 and the objectives are reviewed every six year. ▪ The reasons for those modifications or alteration are of overriding public interest and/or the benefits to the environment and to society of achieving the objectives set out in paragraph 1 are outweighed by the benefits of the new modifications or alterations to human health, to the maintenance of human safety or to sustainable development. ▪ The beneficial objectives served by those modifications or alterations of the water body cannot for reasons of technical feasibility or disproportionate cost be achieved by other means, which are a significantly better environmental option. 	Article 4.7
Other water bodies	
Member State shall ensure that the application does not permanently exclude or compromise the achievement of the objectives of this Directive in other bodies of water within the same river basin district and is consistent with the implementation of other Community environmental legislation.	Article 4.8
Other EU legislation	
Member State shall ensure that the application of the new provisions guarantees at least the same level of protection as the existing Community legislation.	Article 4.9

Source: Article 4 of the WFD (2000/60/EC) for surface waters.

Appendix A-2. Monitoring Locations – onshore and shore side



Appendix A-4. Preferred 200m Pipeline Corridor Watercrossings

EU_CODE	NAME	Water Management	RBD	Hydro Area	WFD Status
IE_SH_25C020500	CAMCOR_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Good
IE_SH_25S020400	SILVER (KILCORMAC)_030	IE_SH_Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25S020200	SILVER (KILCORMAC)_020	IE_SH_Brosna	Shannon	Lower Shannon	Good
IE_SH_25L020600	LITTLE BROSNA_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Good
IE_SH_25N120710	Nenagh Trib 1_010	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25R020200	ROCK (BIRR)_020	IE_SH_Little Brosna	Shannon	Lower Shannon	Unassigned
IE_SH_25J270990	Kyleboher_010	IE_SH_Brosna	Shannon	Lower Shannon	Unassigned
IE_SH_25B020550	BALLYFINBOY_040	IE_SH_Nenagh	Shannon	Lower Shannon	Moderate
IE_SH_25T030100	TULLAMORE_020	IE_SH_Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K040800	GARRYARD STREAM_010	IE_SH_Nenagh	Shannon	Lower Shannon	Moderate
IE_SH_25T030030	TULLAMORE_010	IE_SH_Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25R020050	ROCK (BIRR)_010	IE_SH_Little Brosna	Shannon	Lower Shannon	Good
IE_SH_25C060340	CLODIAGH (TULLAMORE)_030	IE_SH_Brosna	Shannon	Lower Shannon	Good
IE_SH_25K150085	KILCOMIN STREAM_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K150085	KILCOMIN STREAM_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K150085	KILCOMIN STREAM_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K150085	KILCOMIN STREAM_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K150085	KILCOMIN STREAM_030	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25A040100	ARDGREGANE STREAM_010	IE_SH_LoughDerg	Shannon	Lower Shannon	Moderate
IE_SH_25A040100	ARDGREGANE STREAM_010	IE_SH_LoughDerg	Shannon	Lower Shannon	Moderate
IE_SH_25A040100	ARDGREGANE STREAM_010	IE_SH_LoughDerg	Shannon	Lower Shannon	Moderate
IE_SH_25C130600	CLAREEN STREAM/FUARAWN_020	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25C130600	CLAREEN STREAM/FUARAWN_020	IE_SH_Little Brosna	Shannon	Lower Shannon	Moderate
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25K040300	KILMASTULLA_020	IE_SH_Nenagh	Shannon	Lower Shannon	Unassigned
IE_SH_25S110100	SHINRONE STREAM_010	IE_SH_Little Brosna	Shannon	Lower Shannon	Poor
IE_SH_25S110100	SHINRONE STREAM_010	IE_SH_Little Brosna	Shannon	Lower Shannon	Poor
IE_SH_25K041000	KILMASTULLA_040	IE_SH_Nenagh	Shannon	Lower Shannon	Good
IE_SH_25K041000	KILMASTULLA_040	IE_SH_Nenagh	Shannon	Lower Shannon	Good
IE_SH_25K041000	KILMASTULLA_040	IE_SH_Nenagh	Shannon	Lower Shannon	Good
IE_SH_25K041000	KILMASTULLA_040	IE_SH_Nenagh	Shannon	Lower Shannon	Good
IE_SH_25M520760	MEELAGHANS_010	IE_SH_Brosna	Shannon	Lower Shannon	Unassigned
IE_SH_25M520760	MEELAGHANS_010	IE_SH_Brosna	Shannon	Lower Shannon	Unassigned
IE_SH_25M520760	MEELAGHANS_010	IE_SH_Brosna	Shannon	Lower Shannon	Unassigned

EU_CODE	NAME	Water Management	RBD	Hydro Area	WFD Status
IE_EA_07B020060	BLACKWATER (LONGWOOD)_010	IE_EA_BlackwaterSouth	Eastern	Boyne	Poor
IE_EA_07B020060	BLACKWATER (LONGWOOD)_010	IE_EA_BlackwaterSouth	Eastern	Boyne	Poor
IE_EA_09L020035	LYREEN_010	IE_EA_Ryewater	Eastern	Liffey and Dublin Bay	Poor
IE_EA_09L020035	LYREEN_010	IE_EA_Ryewater	Eastern	Liffey and Dublin Bay	Poor
IE_EA_09L020035	LYREEN_010	IE_EA_Ryewater	Eastern	Liffey and Dublin Bay	Poor
IE_EA_09L020035	LYREEN_010	IE_EA_Ryewater	Eastern	Liffey and Dublin Bay	Poor

Appendix A-4. Summary of Draft Scoping Feedback

Water Supply Project: Eastern & Midlands Region				
	Stakeholder	Email/Letter/Meeting	Date Received	Principal Submission Topics
1	Department of Agriculture, Food and the Marine	Email	31st May 2016	1. Interruption of Land Drainage systems is potentially an issue post construction, if not properly mitigated during the construction phase.
2	EPA	Email	26th May 2016	1. Understood that orthophosphate dosing may be part of the treatment regime and that this water would be provided to urban areas along the benefitting corridor. 2. IW would need to consider the impact of providing this water to the ecological status of the water bodies to which this water would subsequently be discharged after use. 3. Tables 10.1 and 10.2 can be updated from June 2015. 4. Table 10.2 - crossing points assessments needed. 5. Section 10.2.2 - EPA may need access to information for 2nd cycle of RBMP. 6. New RBMPs consultation end of 2016 - IW may have to input into public consultation. 7. Page 70-71 well survey. 8. Sections 9.3.1 and 9.3.2 - also potential impacts to water supplies and GW flow to wetlands. 9. Section 10.1.1 - should include GW regs in Ch. 10 as well as Ch. 9
3	Fáilte Ireland	Email	20th May 2016	1. Tourism and the environment in Ireland - largely based around environmental factors i.e. scenery, unspoilt environment, flora and fauna. 2. Sets out how factors are considered within and EIS, and set out under EIA topic headings and how they interact with tourism. 3. Project Factors affecting Tourism/existing tourism: (a) New Developments, (b) Social Considerations, (c) Land-uses and activities. 4. Mitigating adverse impact on Tourism

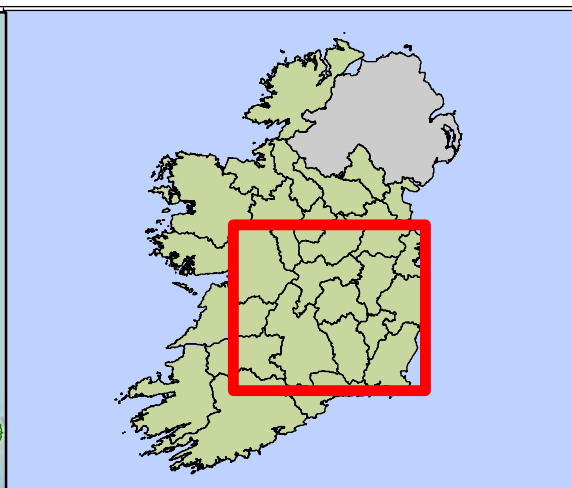
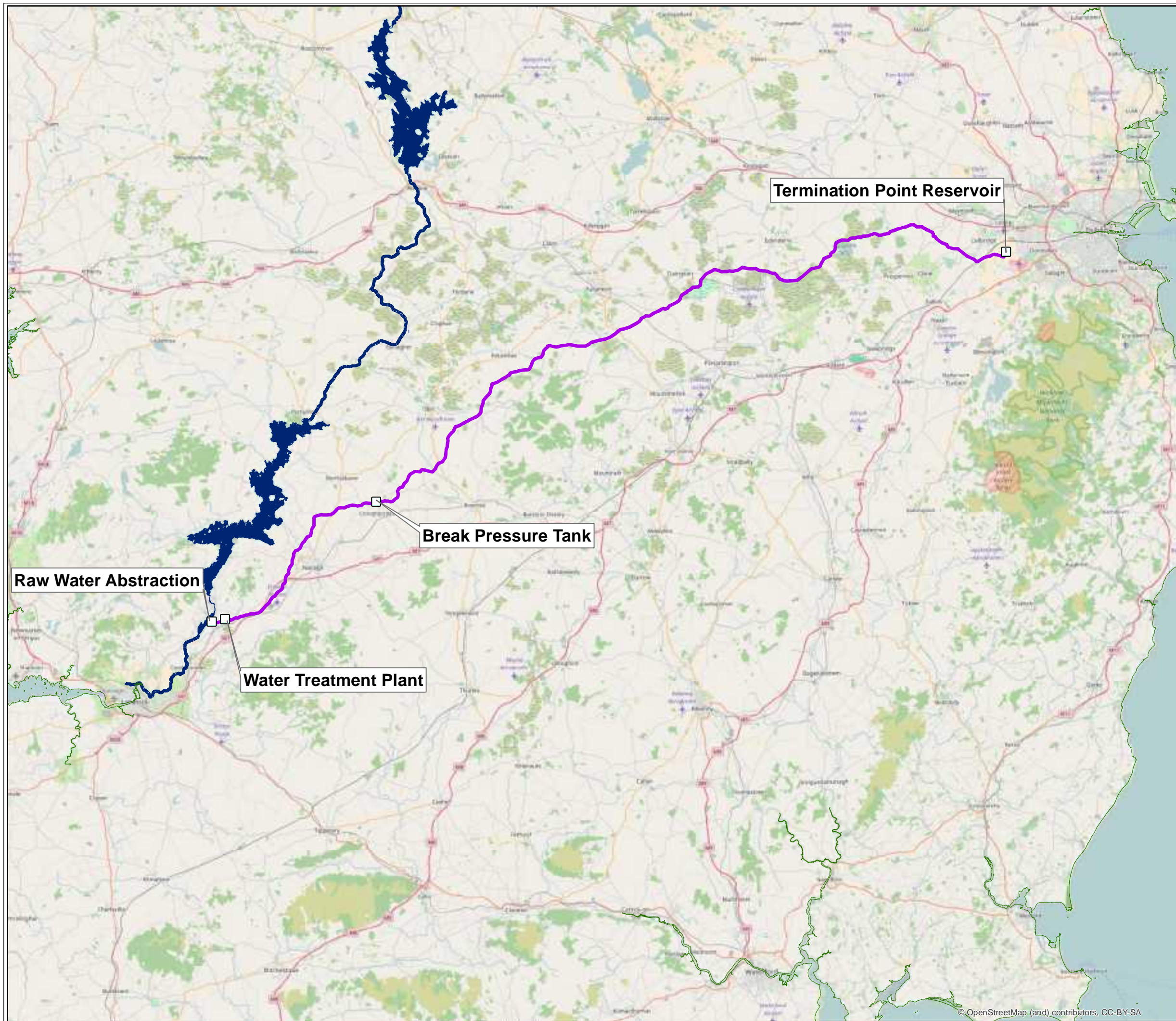
Water Supply Project: Eastern & Midlands Region				
	Stakeholder	Email/Letter/Meeting	Date Received	Principal Submission Topics
4	Inland Fisheries Ireland (IFI)	Email & Meeting	30th May 2016 & 30 th September 2016	<p>1. WFD - impacts on water quality, quantity, ecology and hydrog. 2. Impact of abstraction on assimilative capacity in the R. Shannon downstream of the Parteen should be reviewed within the EIS. 3. Noise and Vibration - fish should be regarded. The SSRS does not provide a useful and robust result as Q values. 4. Electro-fishing/fisheries/surveys should be licensed by DCCCNR. 5. Water abstraction for dust suppression is an issue. 6. Implications for biological diversity is essential. 7. Potential Operational Phase Impacts. 8. Impact of light fish at abstraction. 9. Impact to low lake levels. 10. Amenity - boating, safety 11. Level of treatment and the water treatment plant 12. potential improvement to current demands including abstraction rates on the Vartry 13. pipeline cleaning and assessment of impact of zebra mussels 14. no and location of river crossings 15. Temporary crossings to be addressed in the EIS 16. impacts of invasive species 17. Management of groundwater intrusions within open trenching 18. Soil management and waste management</p>
5	Tipperary County Council	Email	31st May 2016	<p>Issues from March Submission. No further observations. 1. Water Services Issues - Group Water Schemes in Co. Tipperary. 2. Public Water Schemes - interaction with Public Water Schemes - Newport/Ballina, Nenagh, Roscrea, Borrisokane, Cloughjordan, Castlecranna, Lorrha/Rathcabbin. 3. Group Water Schemes. 4. Road Issues - already creaking infrastructure. Construction movements/haulage placing pressure on bridges. Recommend full dilapidation survey. Impacts to tourism in Ballina/Killaloe. Will not grant any road closure on the main roads into Ballina. 5. Environmental Issues - waste, noise, pollution, disposal of material, SPA, SAC, NHA etc. 6. Community Gain - gains package.</p>

Water Supply Project: Eastern & Midlands Region				
	Stakeholder	Email/Letter/Meeting	Date Received	Principal Submission Topics
6	Transport Infrastructure Ireland (TII)	Letter	27th May 2016	<p>1. Several potential interfaces with National Road Network. (a) M7 - drawing 2.2 (b) M7 - drawing 2.3 (C) N52 - drawing 2.4 (d) N62 - drawing 2.6 (e) N80 - drawing 2.10. 2. Potential conflict with future road network. 3. Request consult with relevant Co. Co. 4. National Roads and Policy 5. Crossings: above or below motorway subject to agreement of TII and Co. Co. 6. Traffic Management: Traffic and Transport Assessment needed. 7. Environmental Issues: dust and other material deposition. 8. TII would welcome further consultation and suggest Irish Water develop a protocol to address this and future projects.</p>
7	Waterways Ireland	Email	31st May 2016	<p>1. Pipe supply line to cross at the Grand Canal at Ticknevin Co. Kildare - BnM Factory. 2. This section is still infested with invasive aquatic plant Crassula Helmsii. 3. WI should be consulted if the pipeline is to be cut into the canal rather than drilled/bored under the canal - Bio-security issues. 4. Concerns about the proposed crossing west of Hazelhatch bridge - drawing 2.16 and west of Hamilton Bridge, Ticknevin. 5. IW should be aware of the policy adopted by WI for sch. canal crossings - namely (a) Works carried out between Nov- Feb and (b) Provide capacity to allow max flow 2.5m³ of water through works at all times.</p>
8	Iarnród Éireann	Email	26th May 2016	<p>1. Pipeline running close to railway lines at 2 locations - Limerick and Cork line. And actual crossing point on Galway line. 2. Will pipeline works disrupt rail services - esp. the Galway line? 3. IE is looking for clarity on the above and consultation at earliest possible stage.</p>
9	South Dublin County Council	Email	2nd June 2016	<p>1. Concerned that the location of the reservoir in its proposed location and elevation, will pose operational difficulties in supplying water to lands in the immediate vicinity.</p>
10	Department of Arts, Heritage and	Email	13th June 2016	<p>1. Shipwrecks and Underwater archeology. 2. Licensing requirements for underwater surveys. 3. The Underway</p>


Water Supply Project: Eastern & Midlands Region				
	Stakeholder	Email/Letter/Meeting	Date Received	Principal Submission Topics
	The Gaeltacht			Archaeology Unit (UAU) - inventory of shipwrecks.
11	Kildare County Council	Letter	14th June 2016	1. Noted the Kildare County Development Plans 2011-2017 & Draft Kildare County Development Plan 2017-2023. 2. Air Quality - cover all potential impacts. 3. Noise and Vibration – describe existing conditions and all potential impacts. 4. Landscape and Visual – EIS should have regard to the County Landscape Character Areas. 5. Archaeology, Cultural Heritage and Architectural Heritage – direct and indirect impacts. 6. Soils, Geology and Hydrology – potential impacts during construction and operations. 7. Water – information on all watercourse crossings. 8. Agronomy – Impact to EU schemes. 9. Waste – Waste Management Act 1996. 10. Cumulative Impact – Overall development is required on a range of receptors. 11. Community Gain – Outline clear proposals in relation to the public consultation initiatives proposed and detail community involvement initiatives proposed.
12	Laois County Council	Email	16th June 2016	1. Sub-Option - Parteen Weir and Storage at Garryhinch. 2. Matrix of impacts of the four options under consideration in the POAR. 3. The EIS draft Scoping Report in advance of the FOAR Report. 4. EIS scope and benefitting corridors. 6. Planning and Development (Strategic Infrastructure) Act 2006 - fund. 7. Cumulative impacts assessment. 9. Air quality - Greenhouse gas emissions arising from the construction or operational phases. 10. Soil, geology and hydrogeology - Extraction activities related to the development. 10. Assessment of vulnerable groundwater bodies. 11. Potential impact on groundwater levels, well yields and groundwater quality. 12. WFD catchment characterisation. 13. Laois County Council requests that it is included in the list of Local Authorities that will be consulted in respect of traffic and transport impacts. 14. Traffic and

Water Supply Project: Eastern & Midlands Region				
	Stakeholder	Email/Letter/Meeting	Date Received	Principal Submission Topics
				transport should include the emissions of greenhouse gases arising from the construction phase in particular. 15. Road safety impacts on road users, and on vulnerable road users - county roads 16. Amenity in Section 12.2.1 and 12.3.1 should include an assessment of the impacts by traffic and transport, including the impact from a road safety perspective. 17. Section 13.3.1 should refer to the road safety impacts as well as the nuisance created by traffic volume during construction.
13	National Parks and Wildlife Service	Meeting	25th August 2016	1. Desalination Option. 2. SEA review and water re-use. 3. DAU to be the reference point for contact. 4. Consultation with Old River Shannon Research Group. 5. Formal ABP EIA Scoping Process. 6 NIS Scoping. 7. Red line boundary and inclusion of all projects elements. 8. Water demand and drought conditions. 8. Orthophosphate dosing. 9. 95th percentile to 100th percentile flow. 9. Alternative options. 10. Study Area Extent and benefiting corridor. 11. Northern abstraction options and evidence base for their non-preference. 12. Benthic Studies. 13. Mesh system for design. 14. Annex I priority types. 15. IPPC licence in Bord na Mona lands.16. Works during the bird breeding season. 17. Waste management plans.

Appendix B. Drawings



Legend

 Preferred 200m Pipeline Corridor

Raw Water Abstraction

Water Treatment Plant

Break Pressure Tank

Termination Point Reservoir

1	26/10/2016	Draft Issue	PW	CC	CC	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Apprd



Client 

Project Water Supply Project - Eastern and Midlands Region

Drawing Title Project Overview

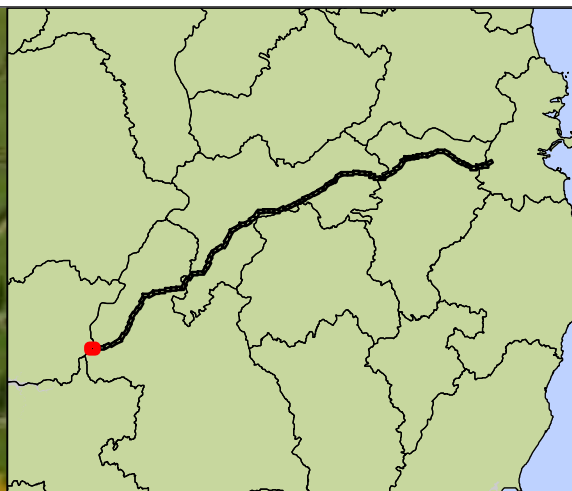
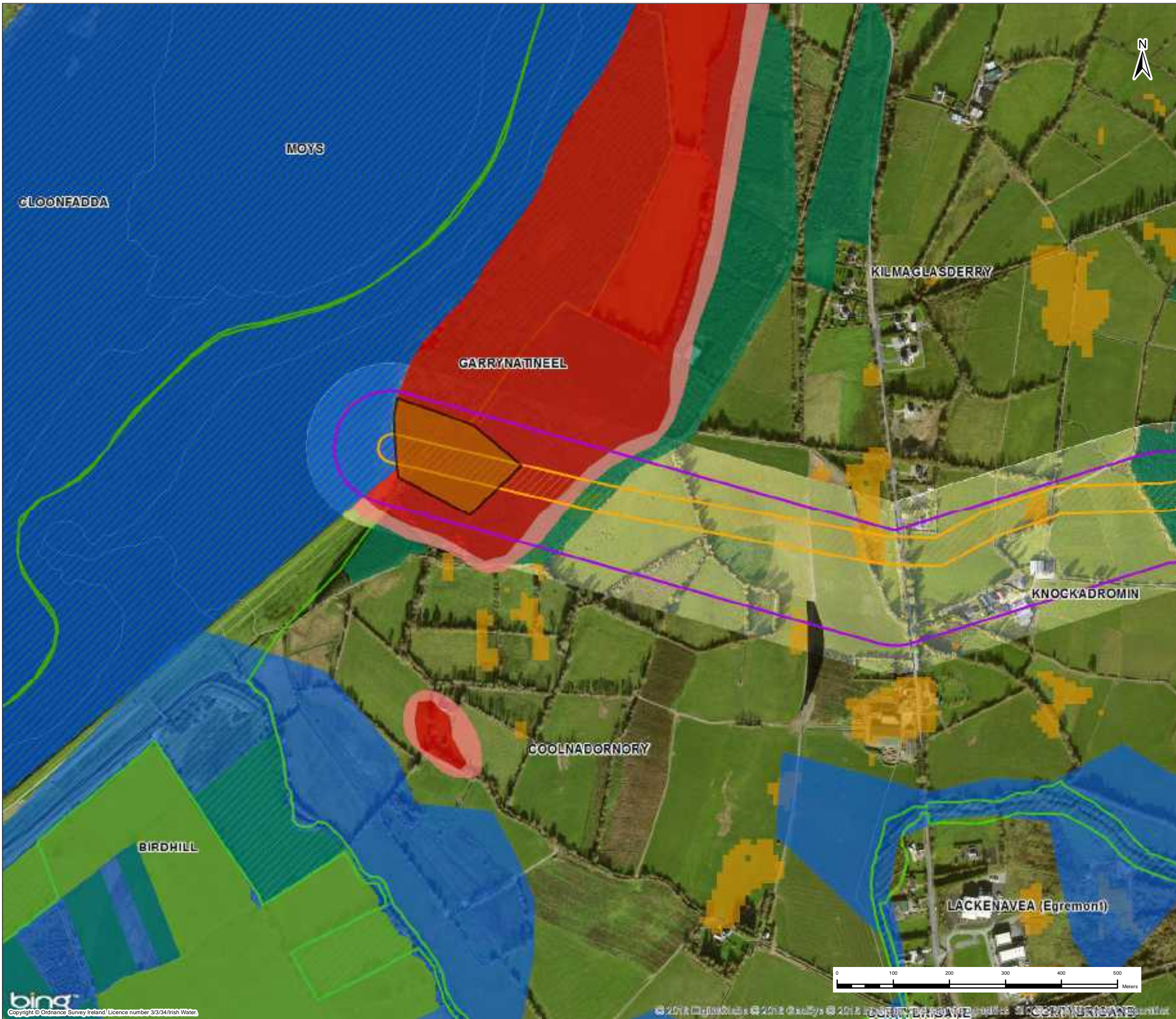
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Jacobs No. 32105801 Client No. WSP1

Filepath

Drawing No. 1



Key

- Least Constrained Raw Water Abstraction Site
- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Special Area of Conservation
- Woodland_Habitats
- Lakes
- Forestry
- Native Woodland Survey
- Semi Natural Grasslands
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

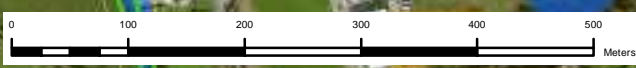
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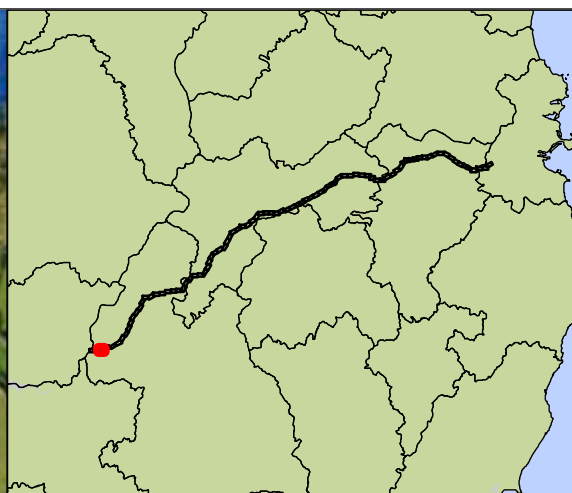
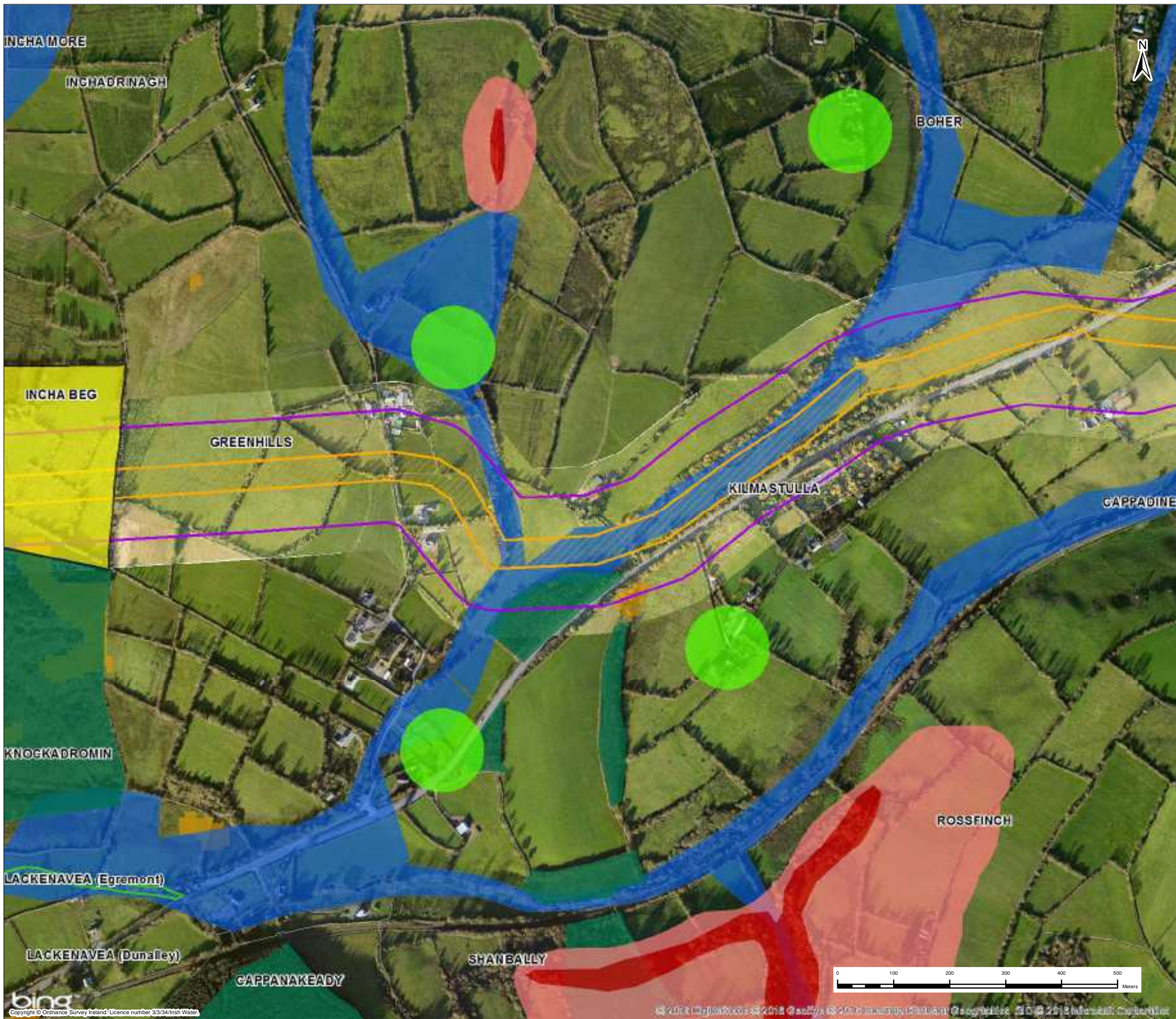
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Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.1

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





Key

- Least Constrained Water Treatment Plant Site
- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Special Area of Conservation
- Forestry
- SMR Zone
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

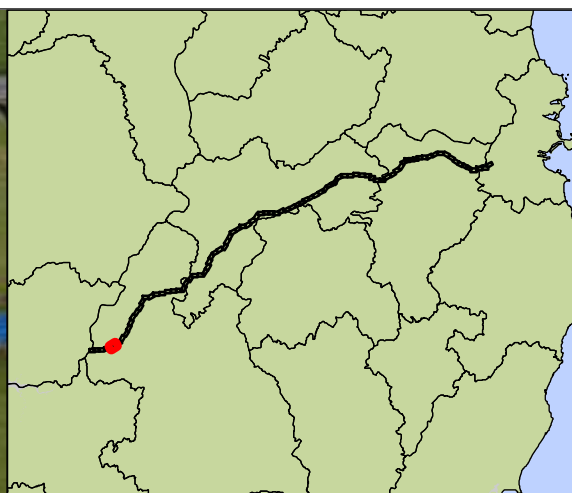
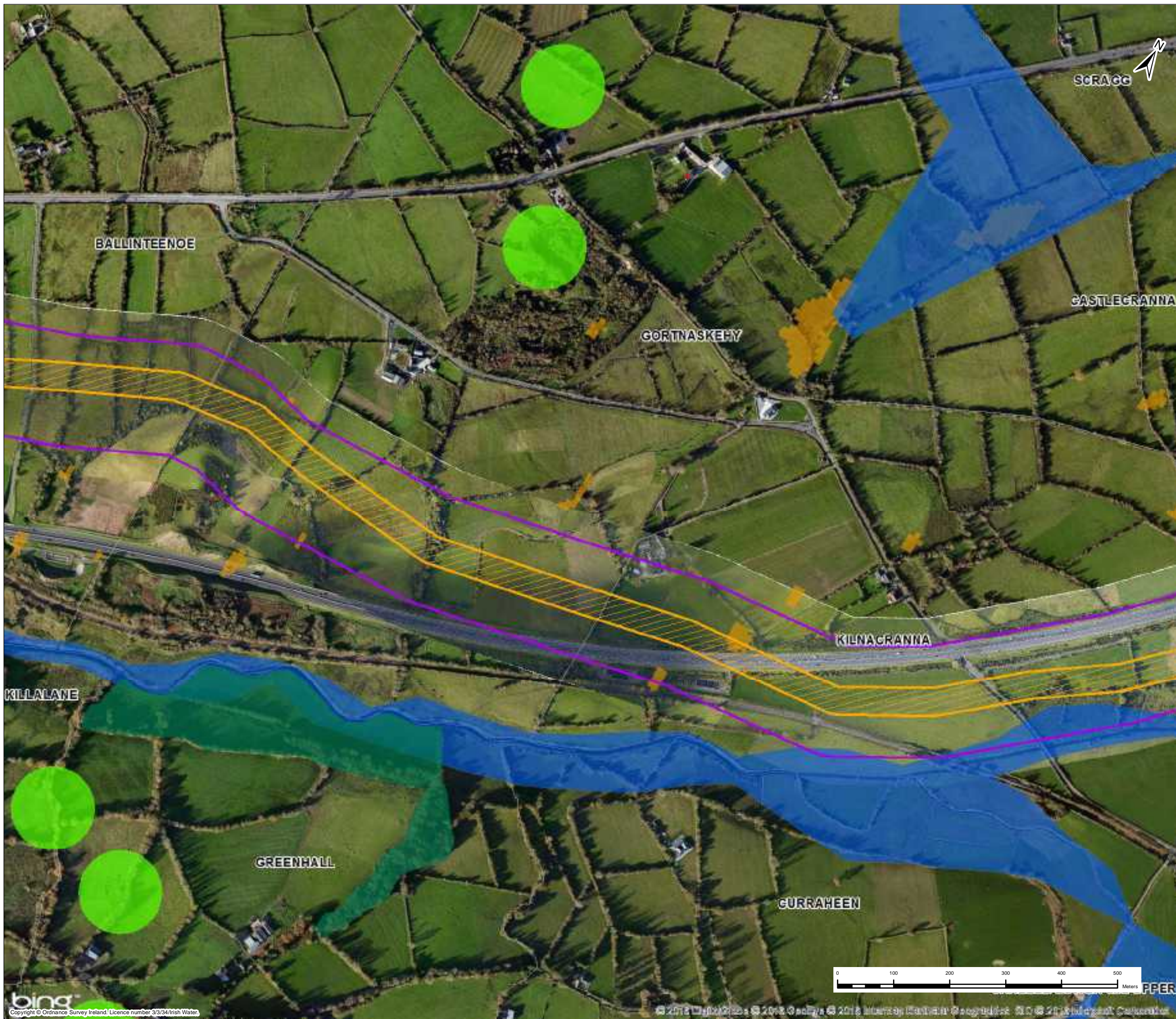
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Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.3

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Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- RPS_9_Countries
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

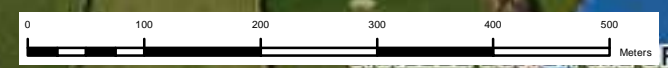
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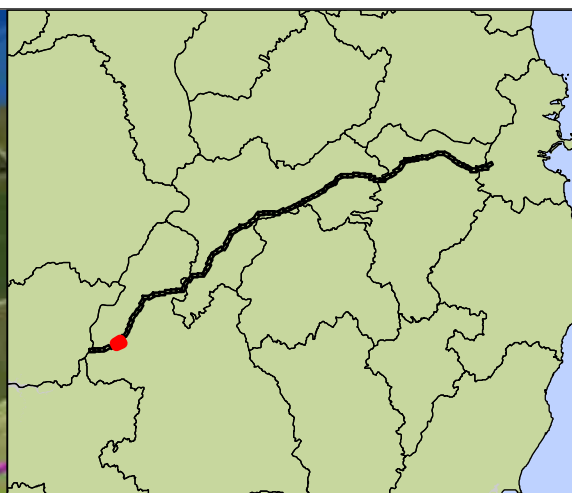
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Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.5

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- Key**
-  Indicative 50m Working Width
 -  Preferred 200m Pipeline Corridor
 -  MINES_SiteBoundaries
 -  Groundwater Vulnerability Extreme
 -  Groundwater Vulnerability Rock at or Near Surface or Karst feature
 -  Forestry
 -  Fluvial Indicative Flooding 1%AEP
 -  Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client: 

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

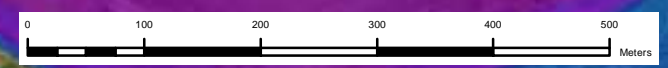
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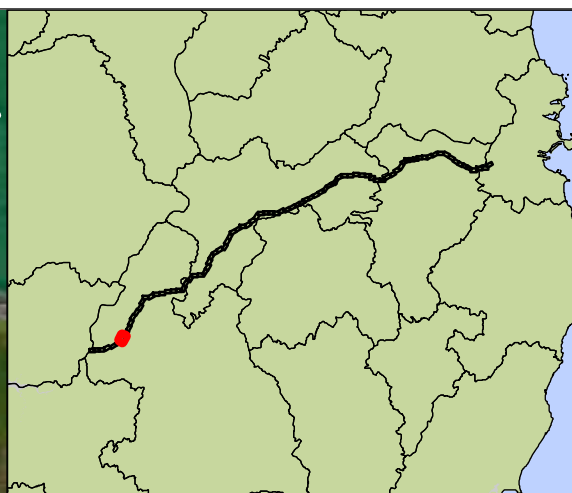
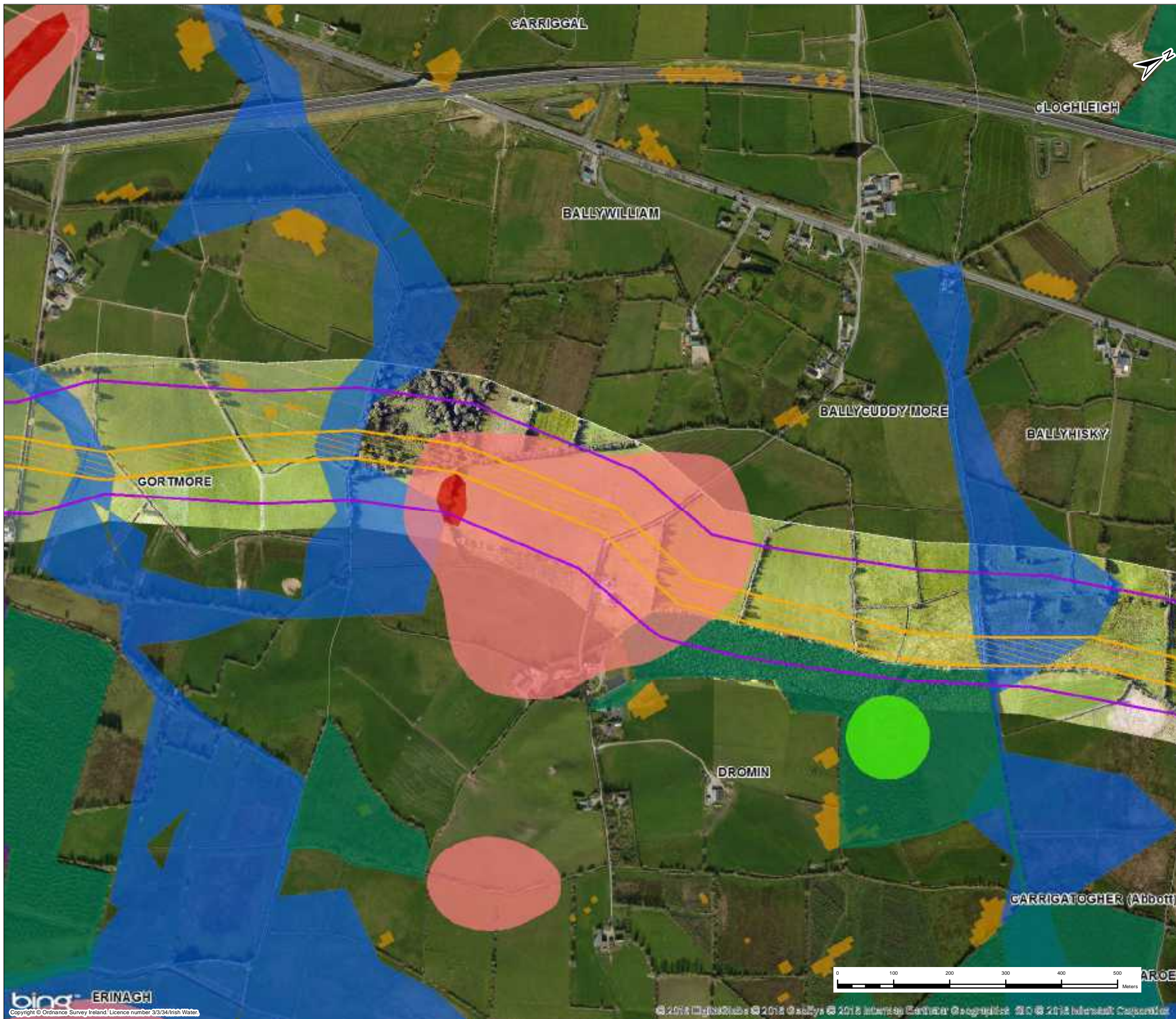
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JACOBS No.: 32105801 Client No.: WSP1

Drawing No.: 2.6

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Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- MINES_SiteBoundaries
- Groundwater Vulnerability Extreme
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- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
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Client

Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

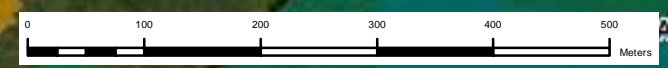
Drawing Status
For Issue

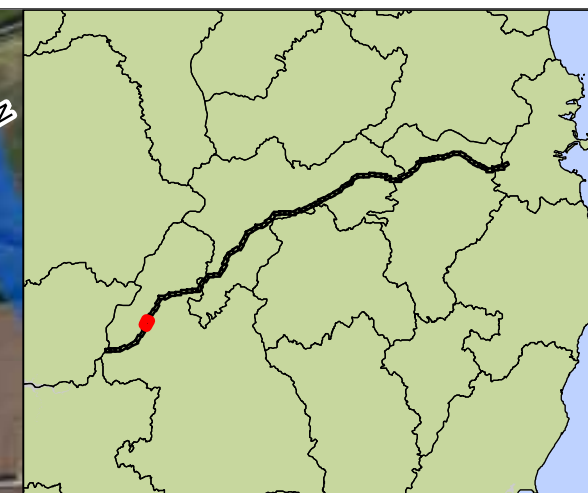
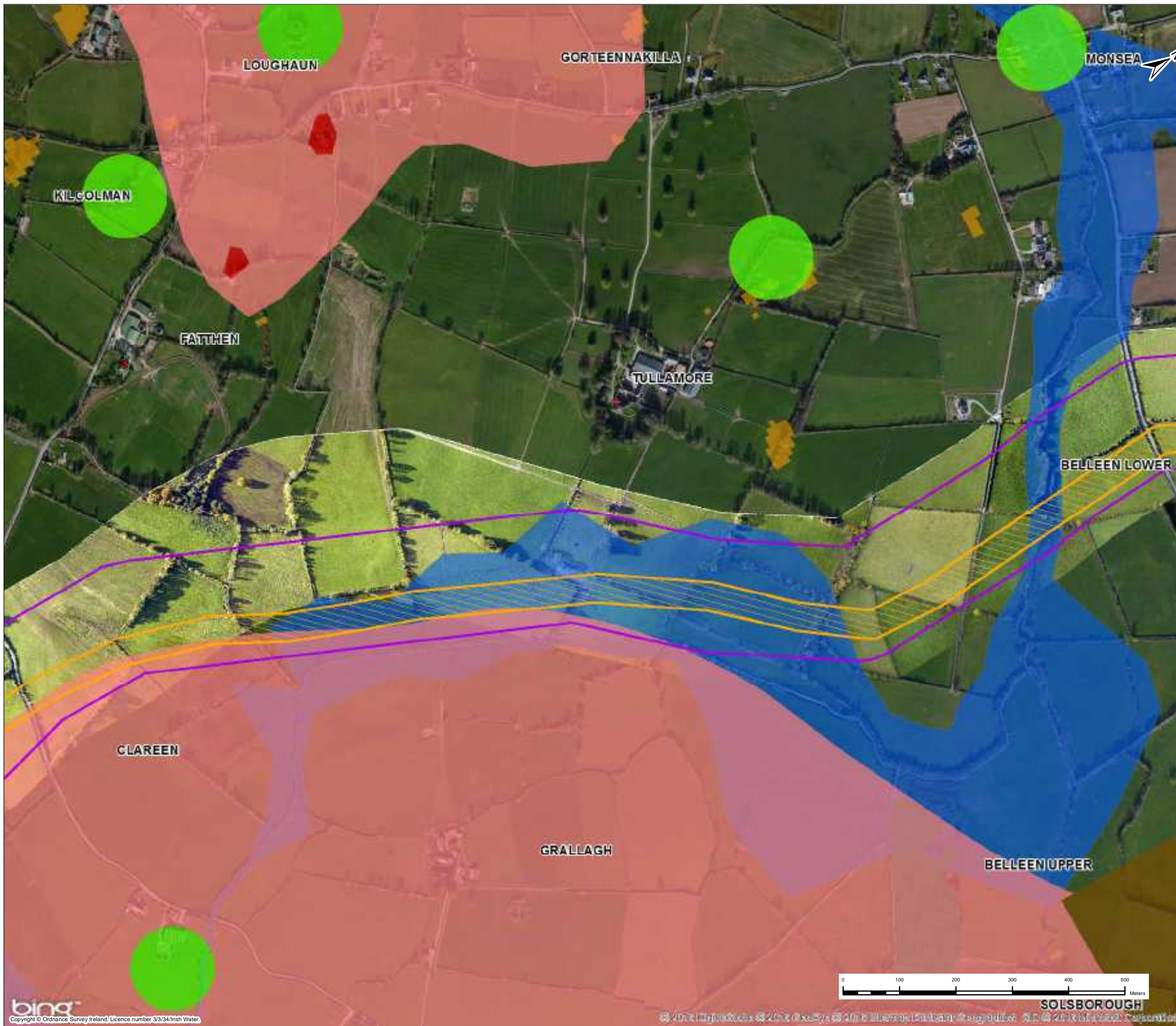
Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Filepath
 Drawing No. 2.7

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Building Density >100 Properties per km²
- Settlements
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS__9_Counties
- Forestry
- SMR Zone
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

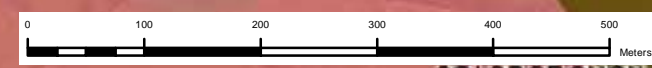
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

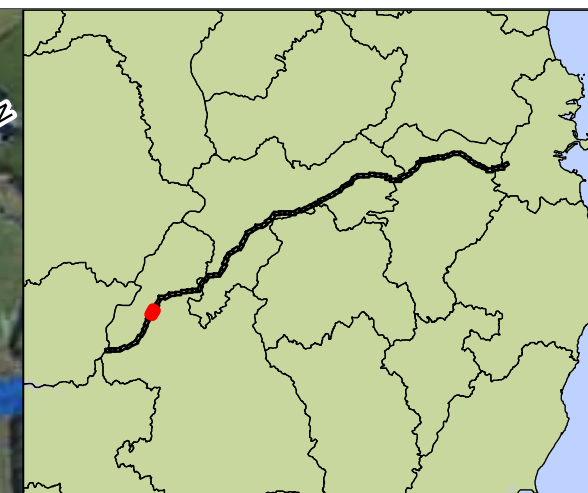
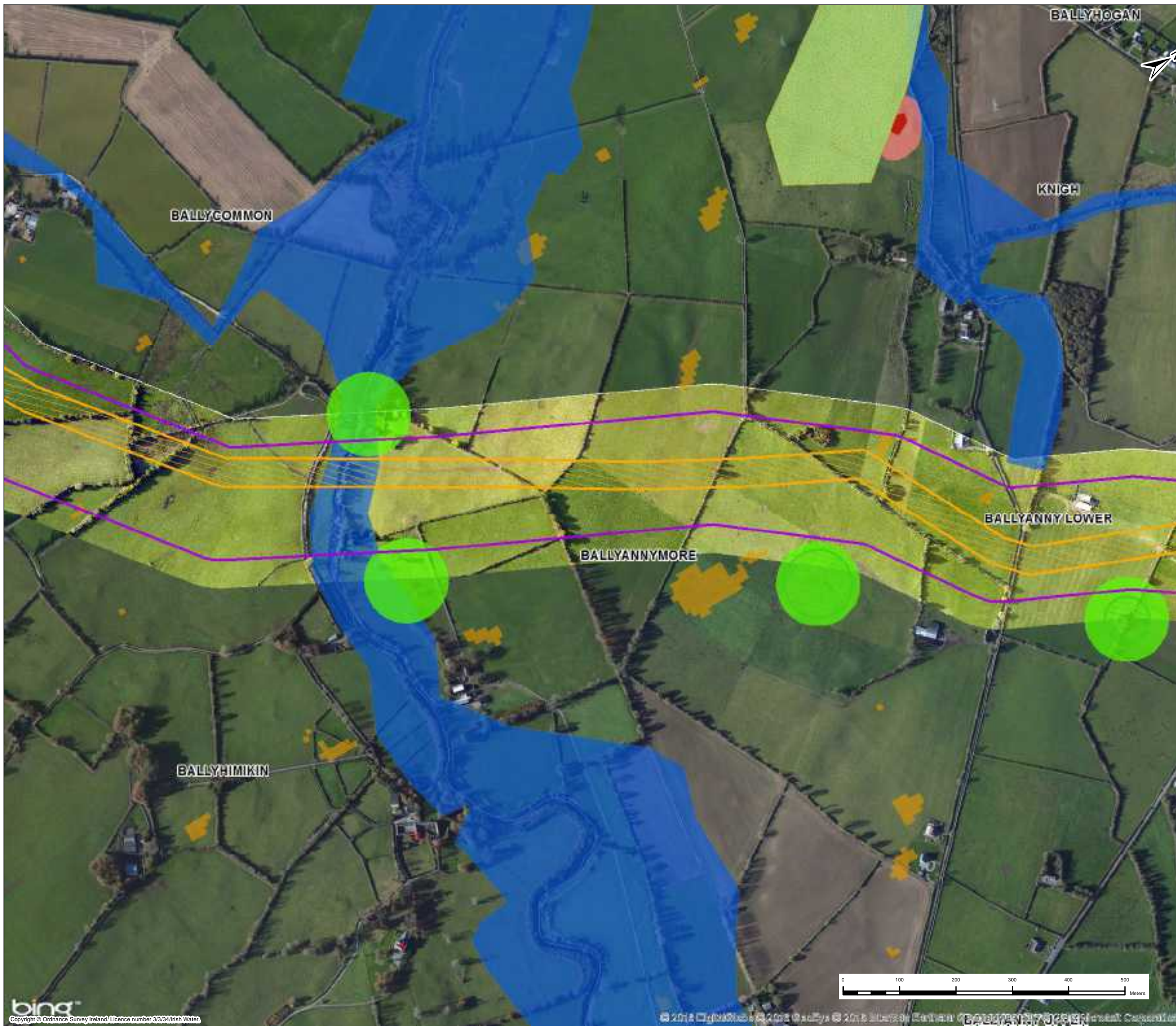
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.10





- Key**
- Indicative 50m Working Width
 - Preferred 200m Pipeline Corridor
 - National Monuments (75 Metre Radius)
 - Additional Habitats
 - Groundwater Vulnerability Extreme
 - Groundwater Vulnerability Rock at or Near Surface or Karst feature
 - RPS_9_Counties
 - SMR Zone
 - Fluvial Indicative Flooding 1%AEP
 - Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

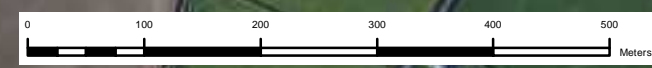
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

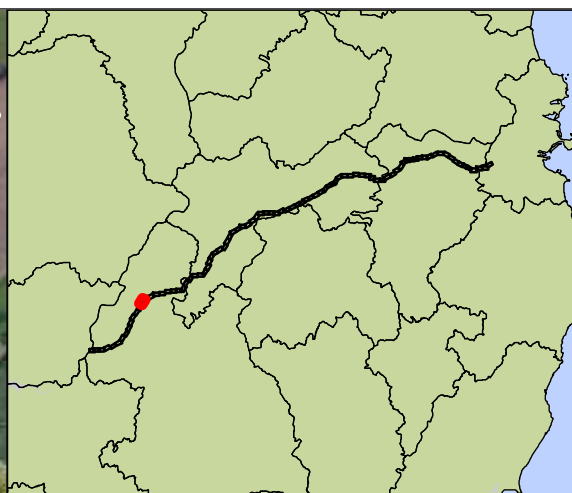
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.12





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Lakes
- Forestry
- SMR Zone
- Pluvial Indicative Flooding 1% AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

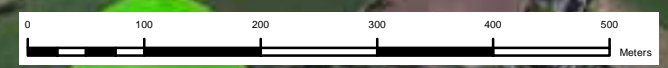
Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

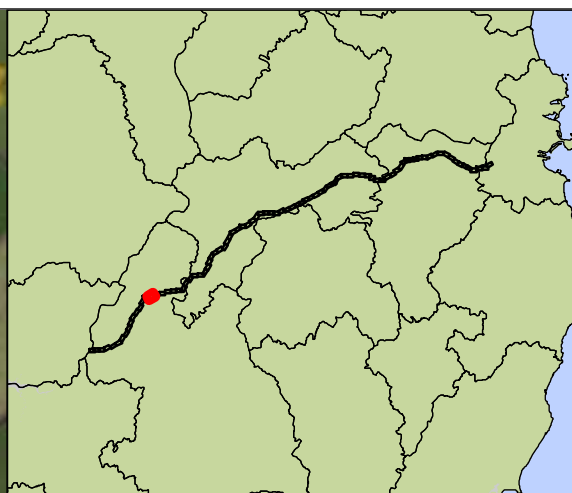
Drawing Status
For Issue

Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.14





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS_9_Counties
- SMR Zone
- Mineral Locations
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

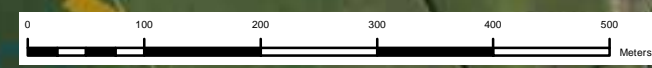
Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

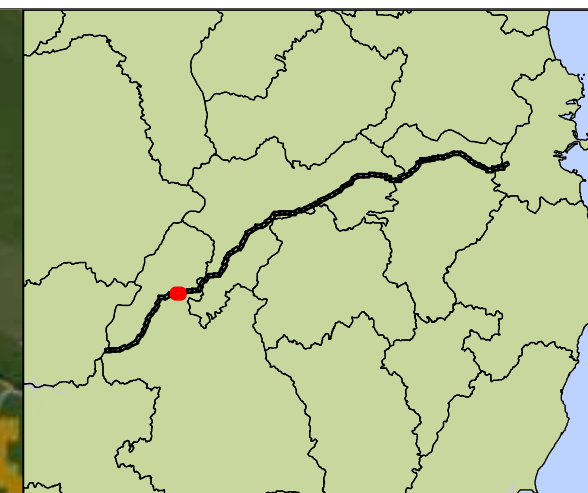
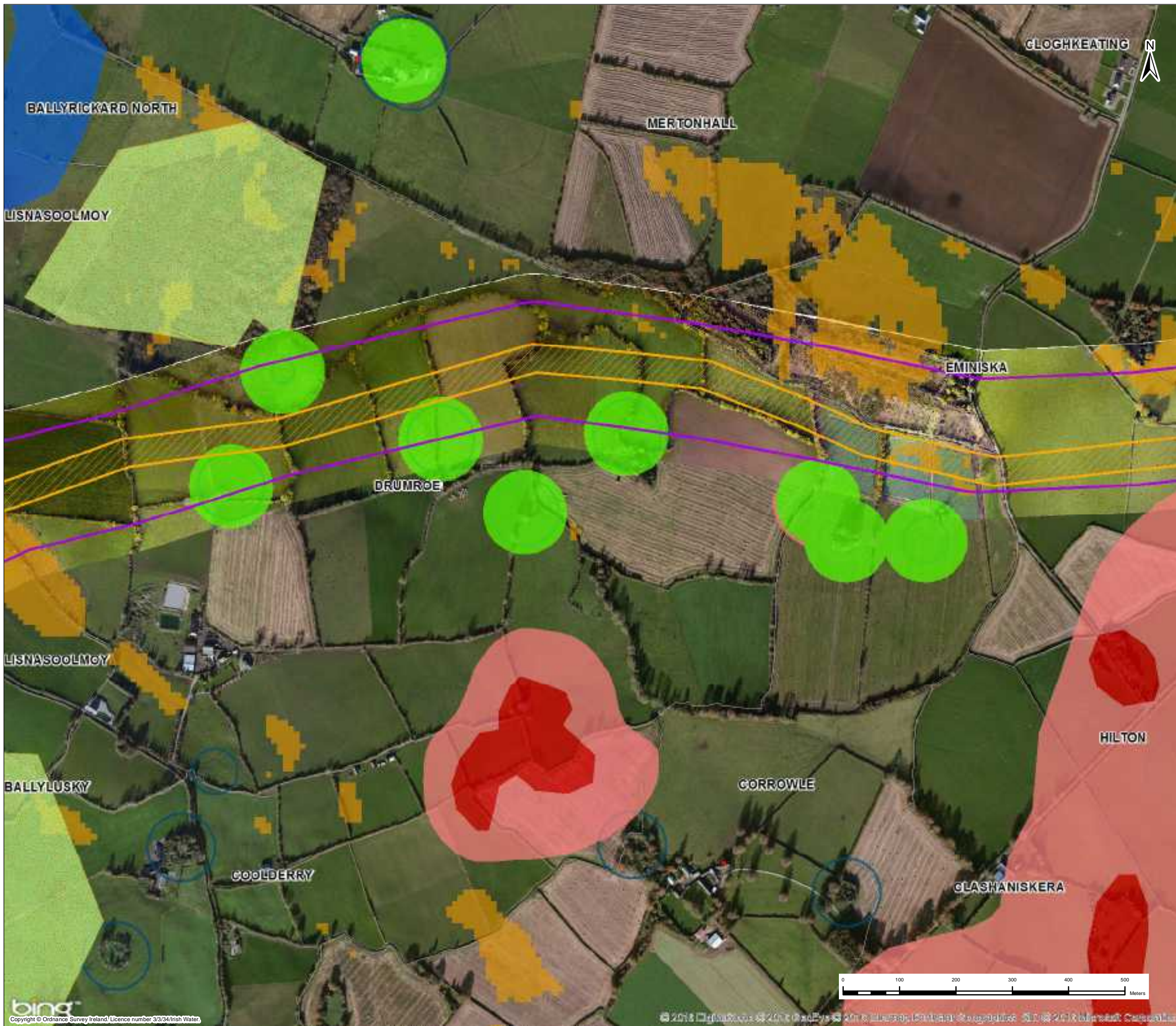
Drawing Status
For Issue

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.16





- Key**
- Indicative 50m Working Width
 - Preferred 200m Pipeline Corridor
 - National Monuments (75 Metre Radius)
 - Additional Habitats
 - Groundwater Vulnerability Extreme
 - Groundwater Vulnerability Rock at or Near Surface or Karst feature
 - RPS_9_Counties
 - SMR Zone
 - Fluvial Indicative Flooding 1%AEP
 - Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

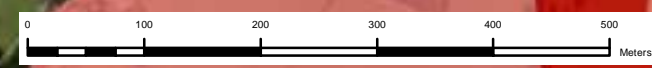
Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

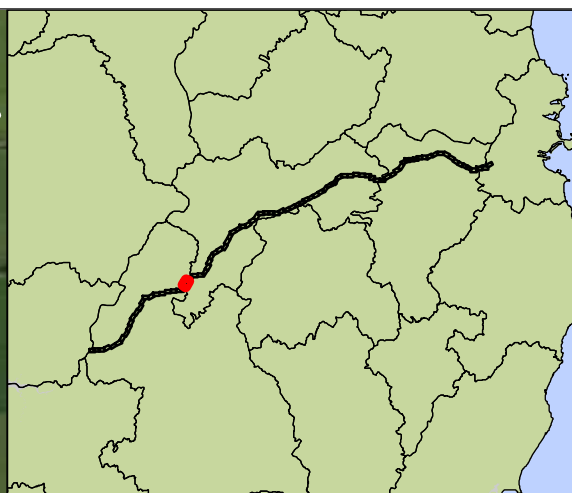
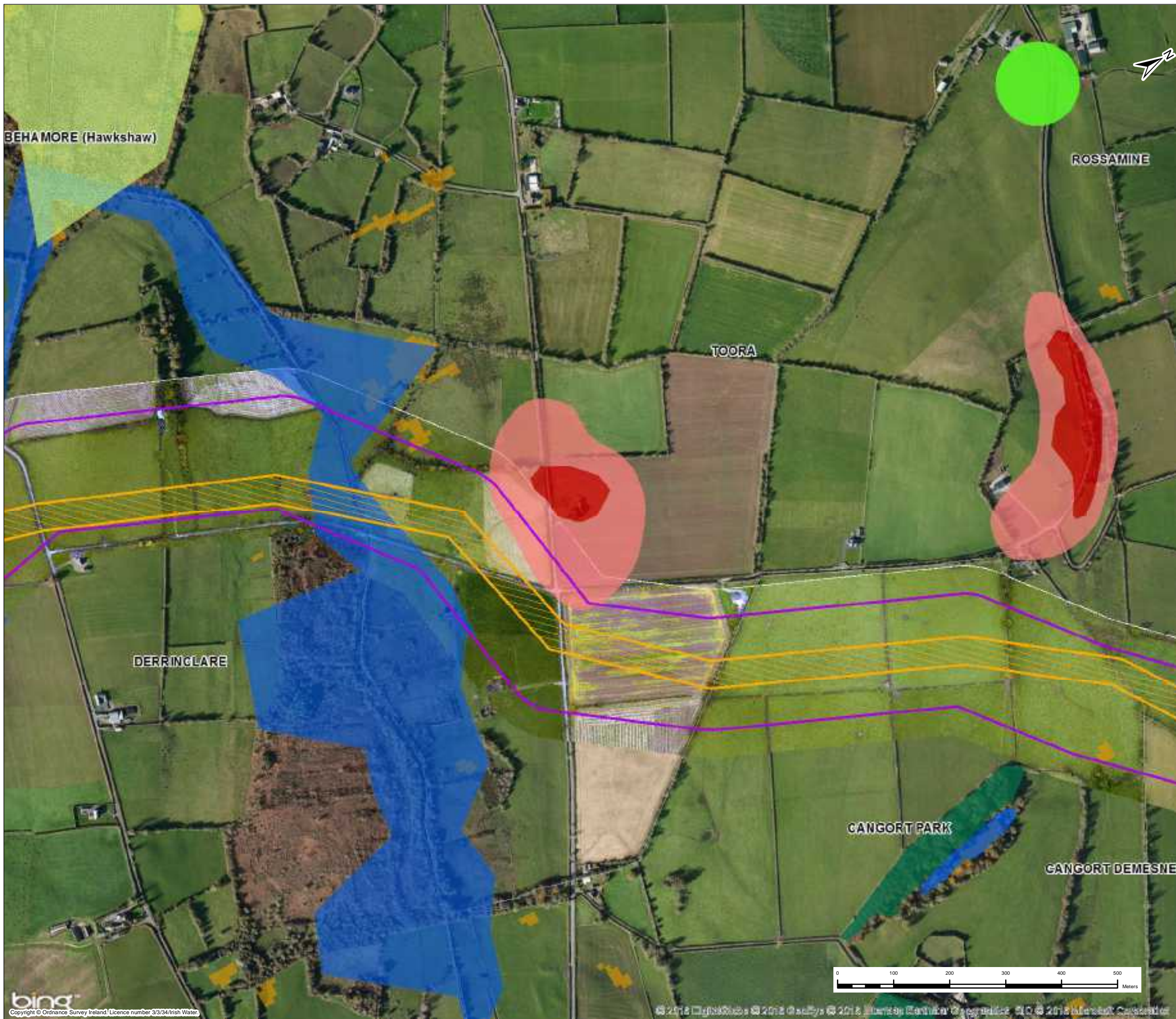
Drawing Status
For Issue

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.18





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Lakes
- Forestry
- Architectural Conservation Areas Offaly
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

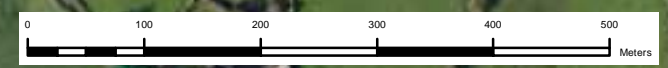
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

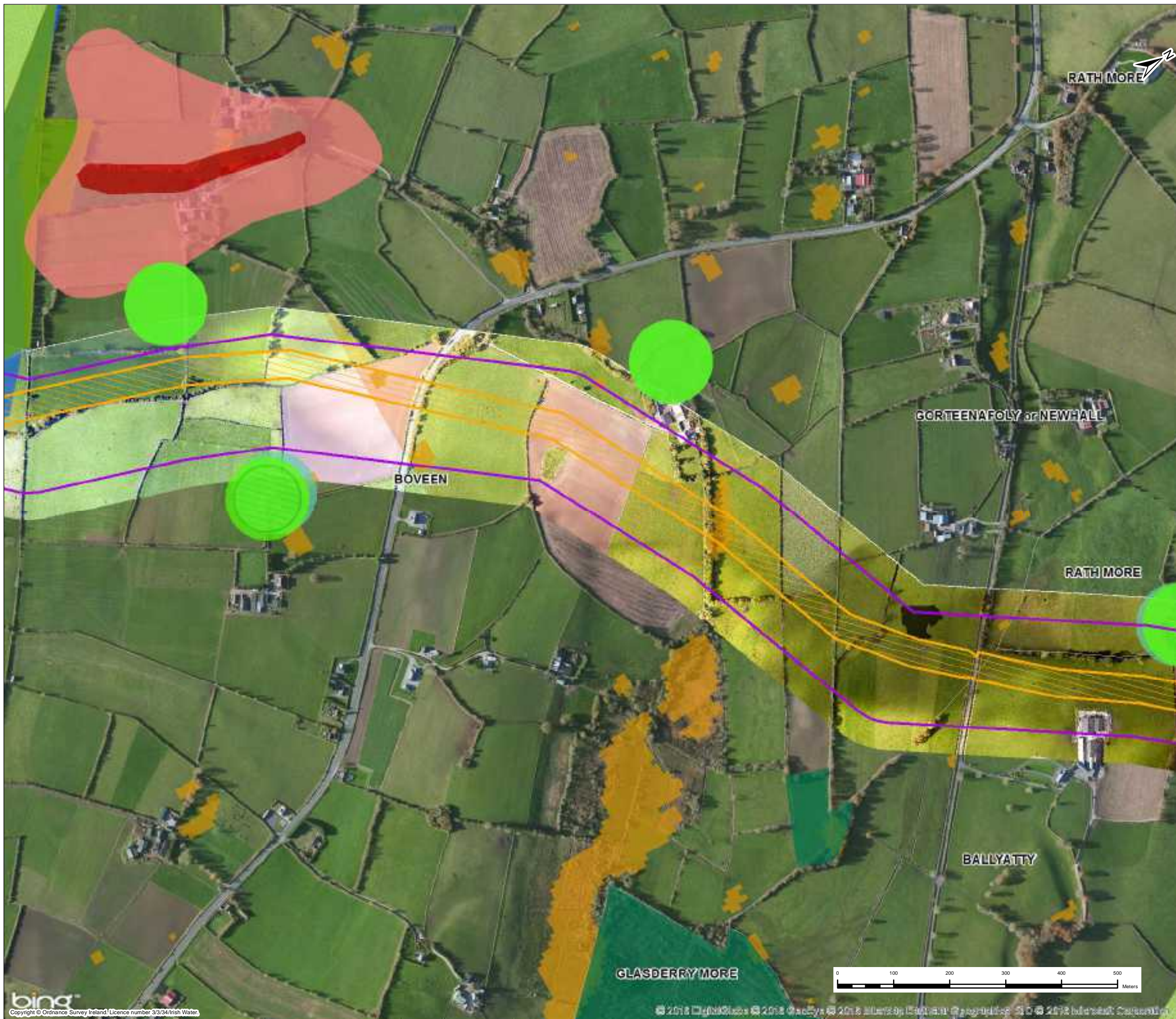
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.23





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Forestry
- SMR Zone
- Semi Natural Grasslands
- Architectural Conservation Areas Offaly
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

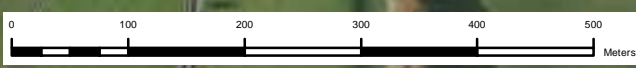
Drawing Status: For Issue

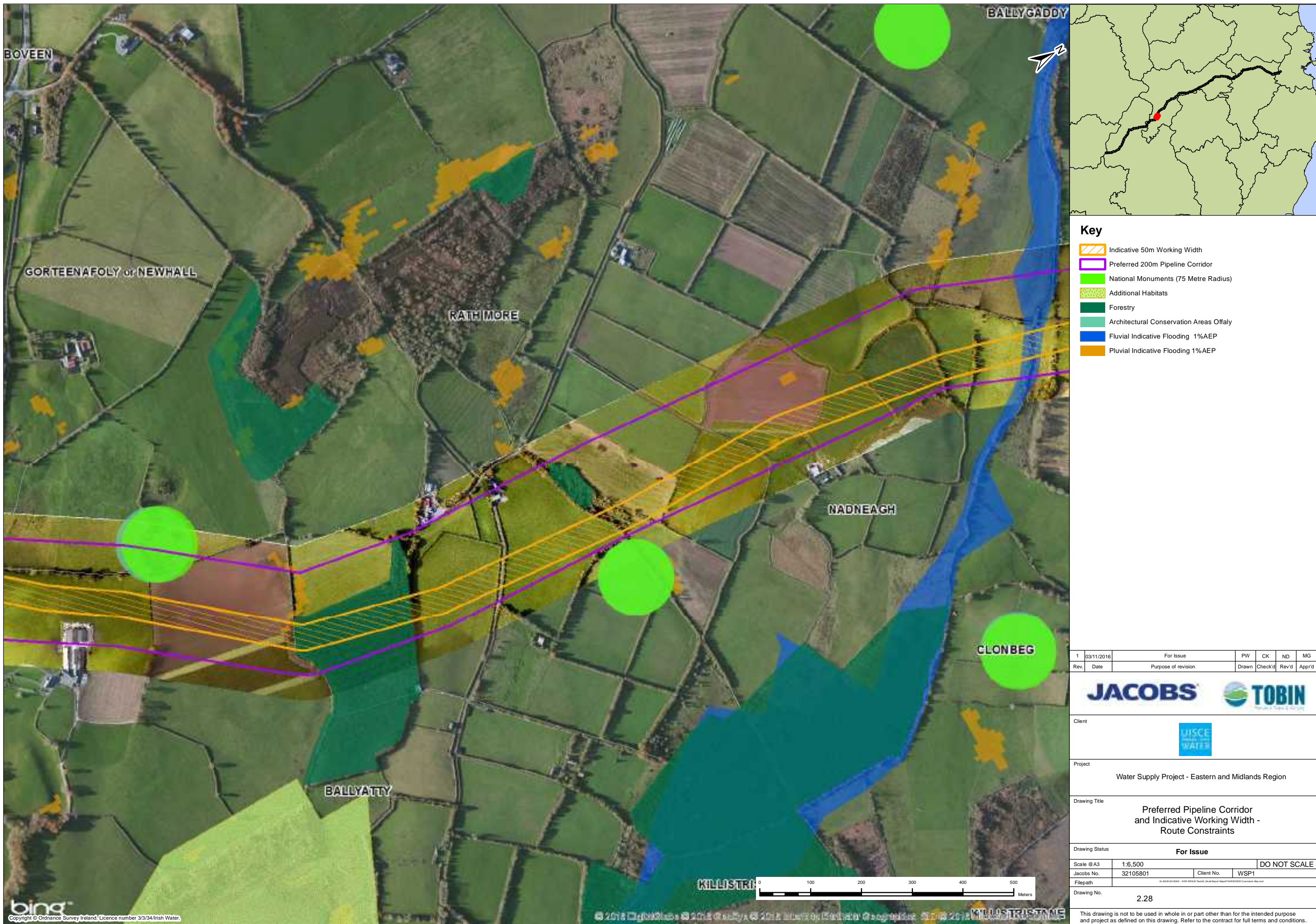
Scale @ A3: 1:6,500 | DO NOT SCALE

Jacobs No.: 32105801 | Client No.: WSP1

Drawing No.: 2.27

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Additional Habitats
- Forestry
- Architectural Conservation Areas Offaly
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

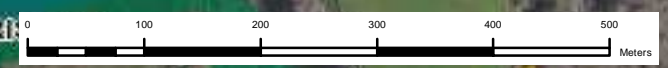
Drawing Status: **For Issue**

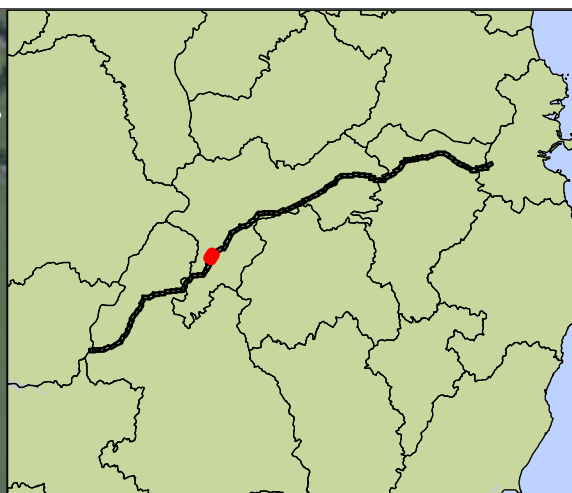
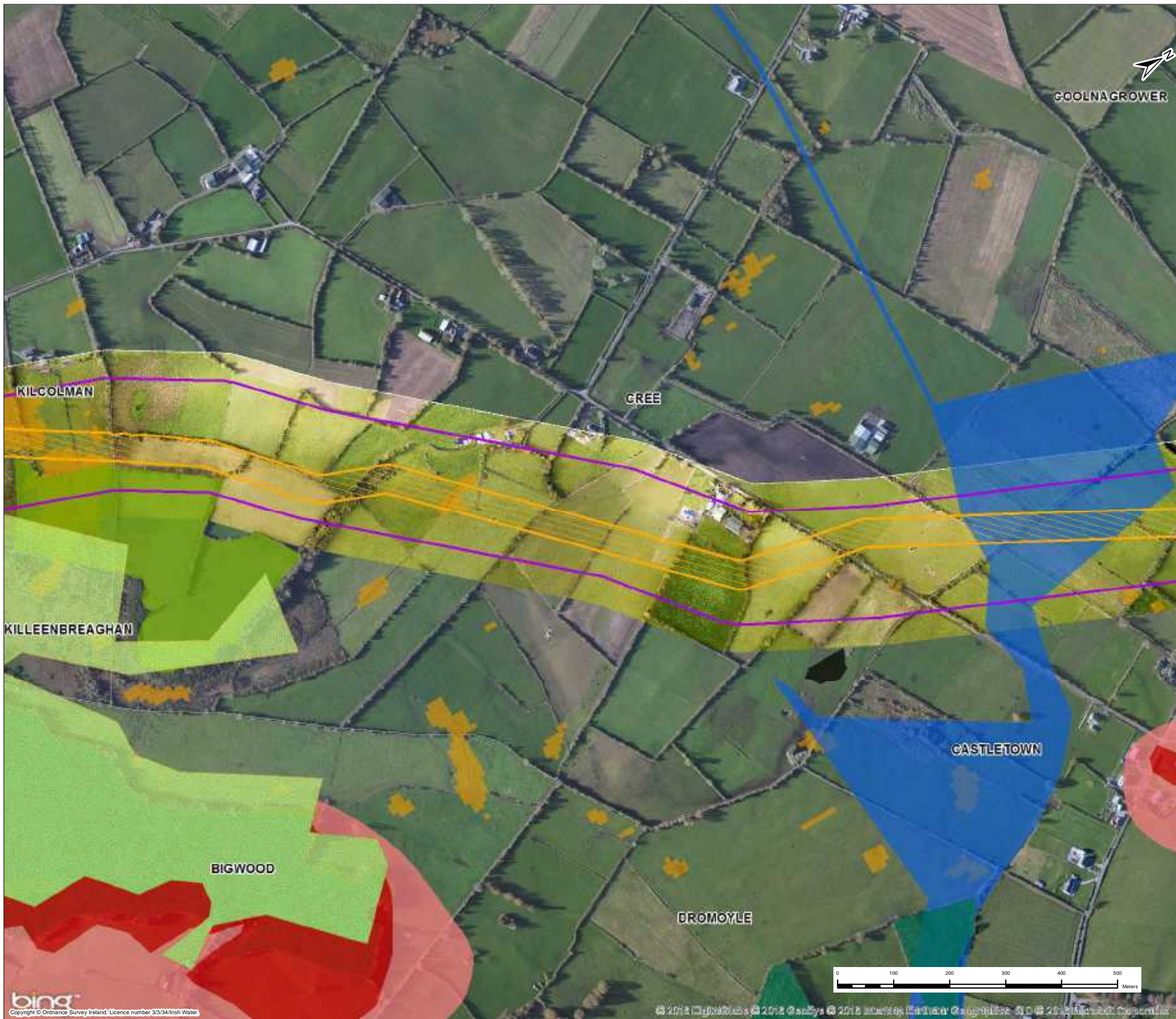
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.28

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Pits And Quarries
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Woodland_Habitats
- Forestry
- Native Woodland Survey
- Semi Natural Grasslands
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client

Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

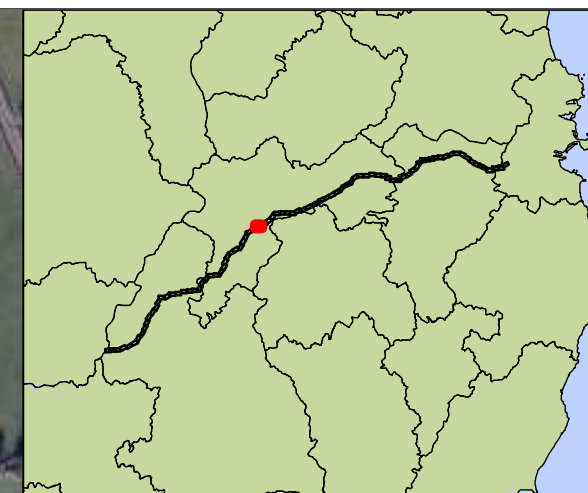
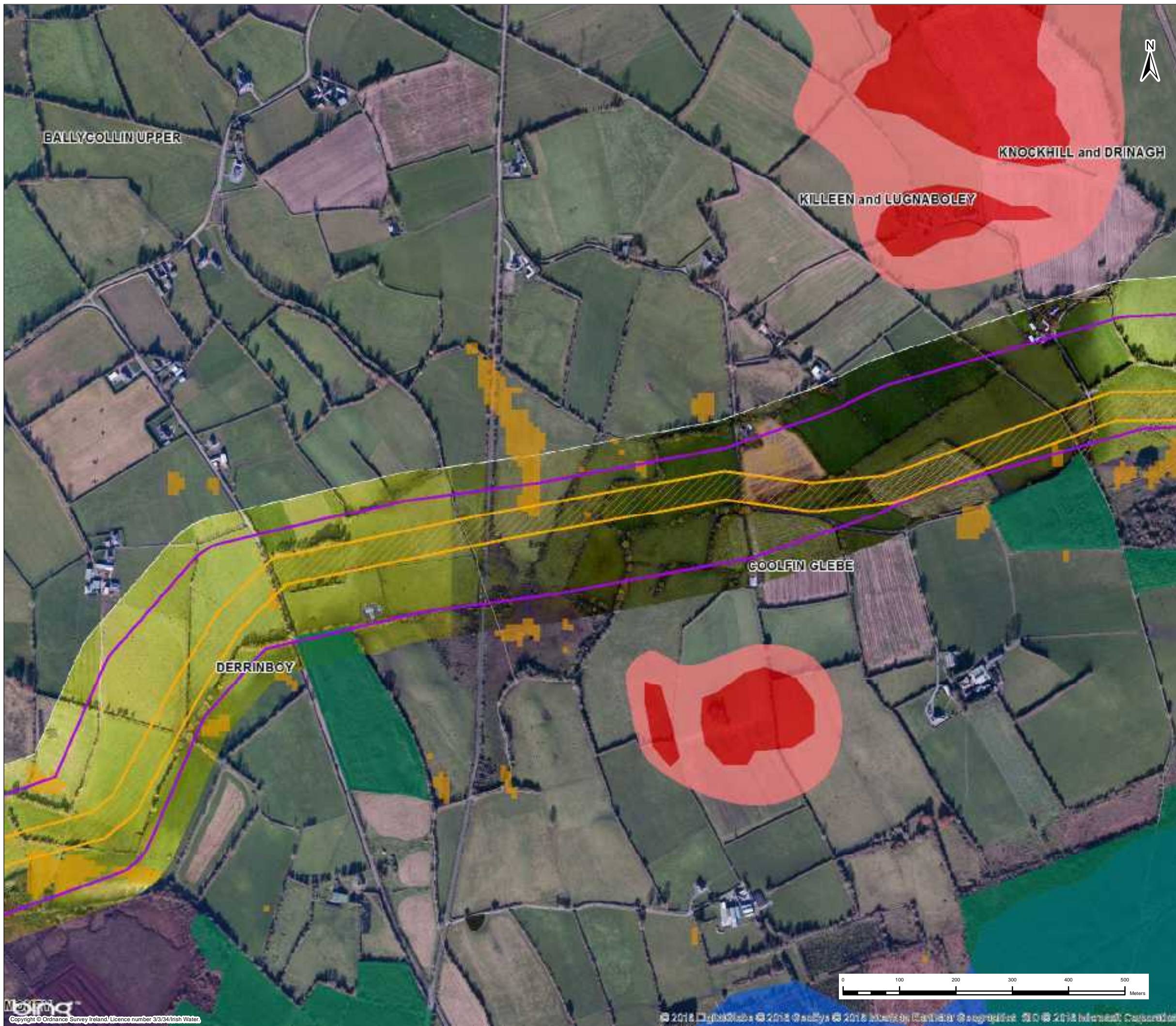
Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Filepath

Drawing No. 2.30

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



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client:

Project: Water Supply Project - Eastern and Midlands Region

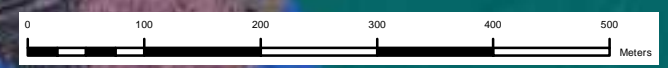
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

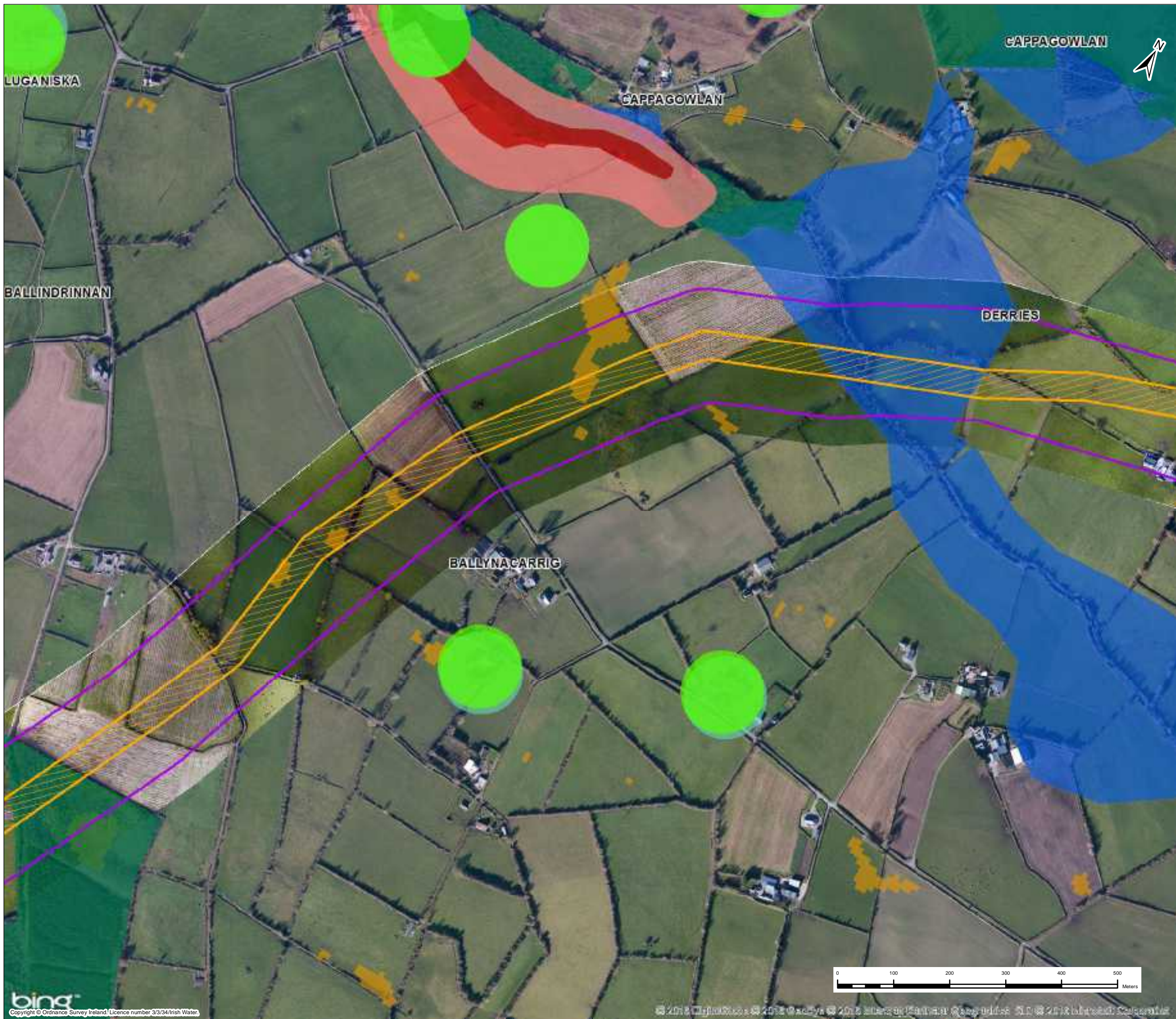
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.38





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Forestry
- Architectural Conservation Areas Offaly
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

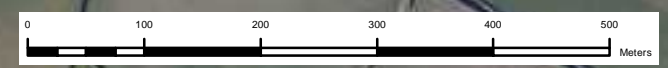
Drawing Status
For Issue

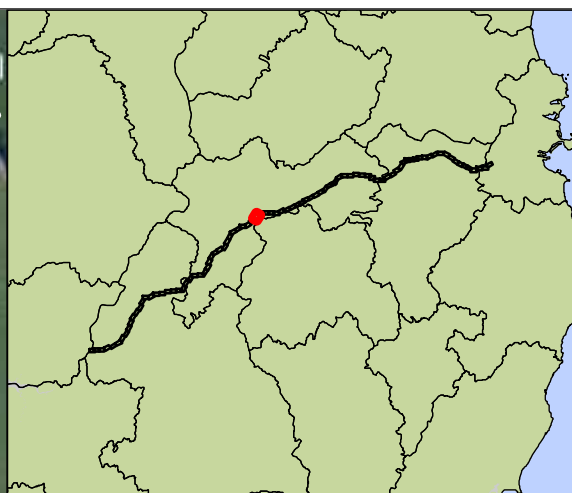
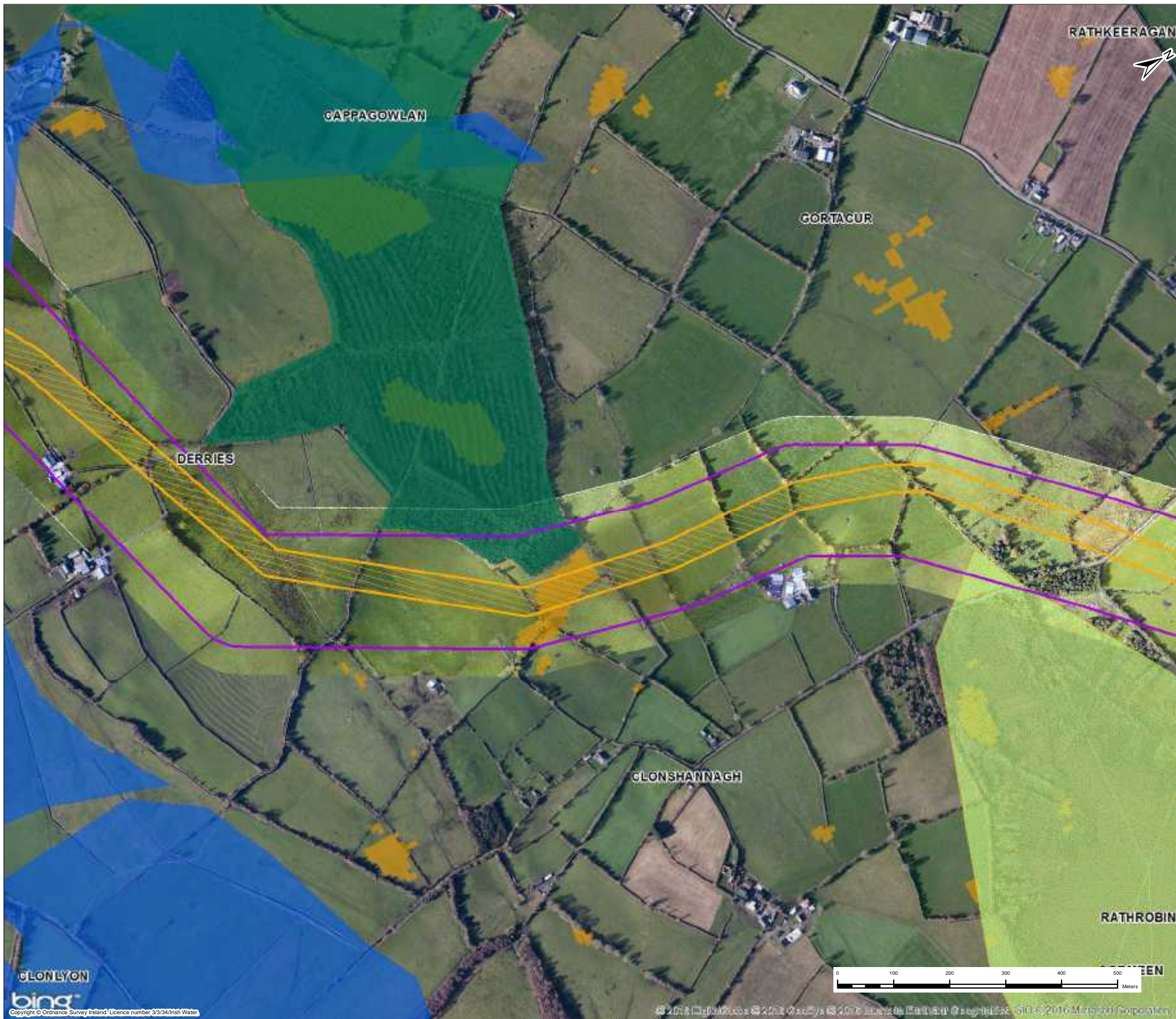
Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1







Drawing No. 2.40

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





Key

-  Indicative 50m Working Width
-  Preferred 200m Pipeline Corridor
-  Additional Habitats
-  Forestry
-  Fluvial Indicative Flooding 1%AEP
-  Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client


Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

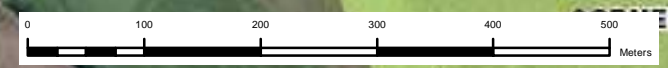
Scale @ A3
 1:6,500 DO NOT SCALE

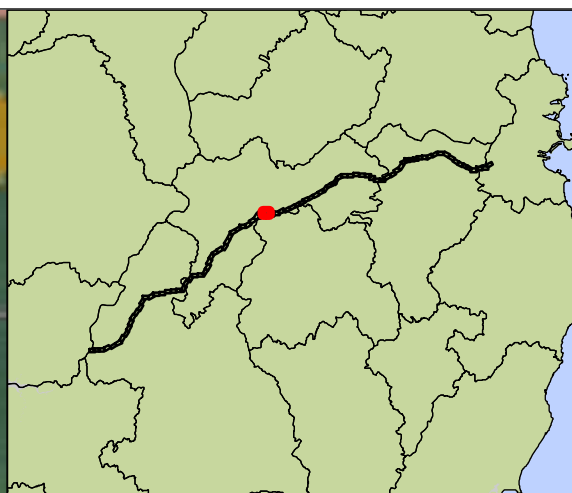
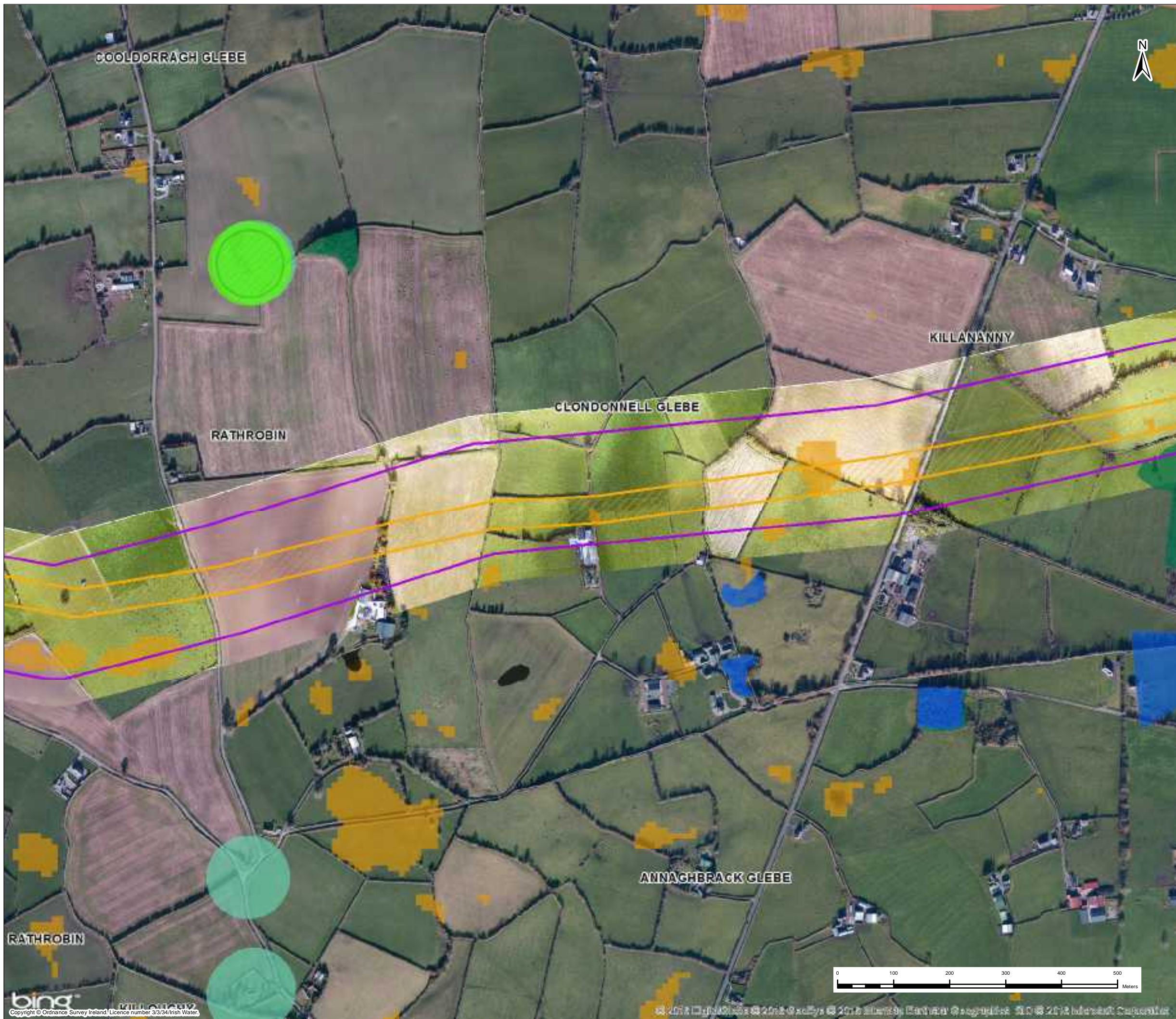
Jacobs No. 32105801 Client No. WSP1

Filepath

Drawing No. 2.41

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Lakes
- Forestry
- SMR Zone
- Architectural Conservation Areas Offaly
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

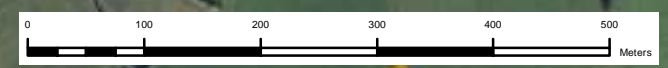
Drawing Status: **For Issue**

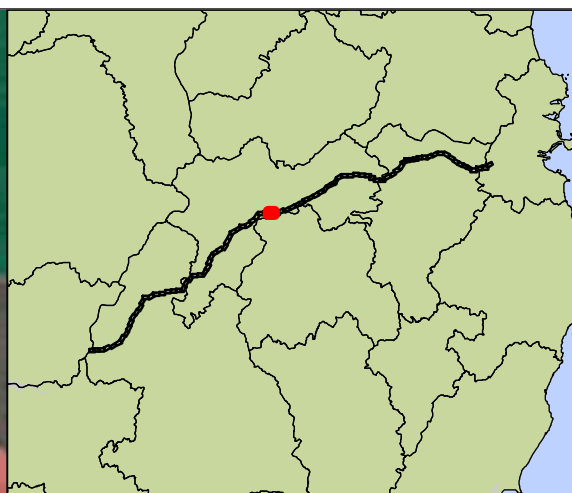
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.43

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Additional Habitats
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Proposed Natural Heritage Area
- Woodland_Habitats
- Lakes
- Forestry
- Native Woodland Survey
- Landscape Classification Areas Offaly High Sensitivity
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project Water Supply Project - Eastern and Midlands Region

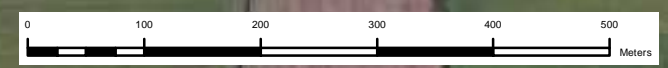
Drawing Title Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

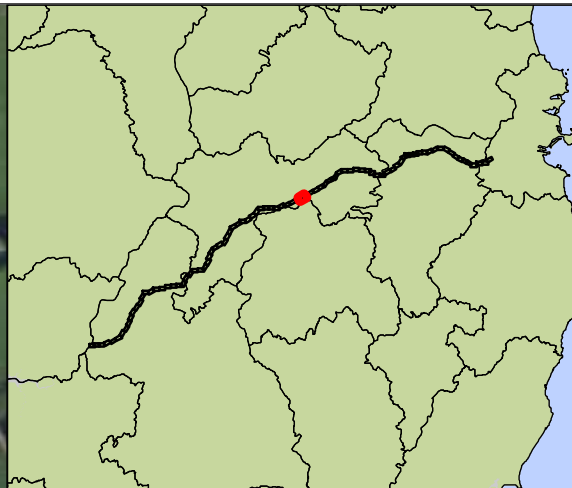
Drawing Status **For Issue**

Scale @ A3 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.44





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Forestry
- SMR Zone
- Source Protection Areas
- Architectural Conservation Areas Offaly
- Mineral Locations
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client:

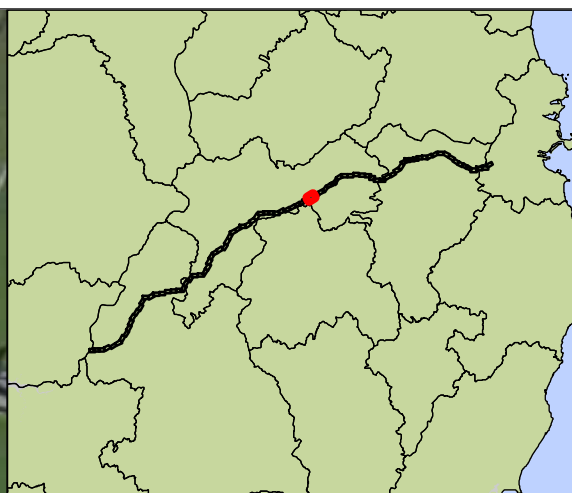
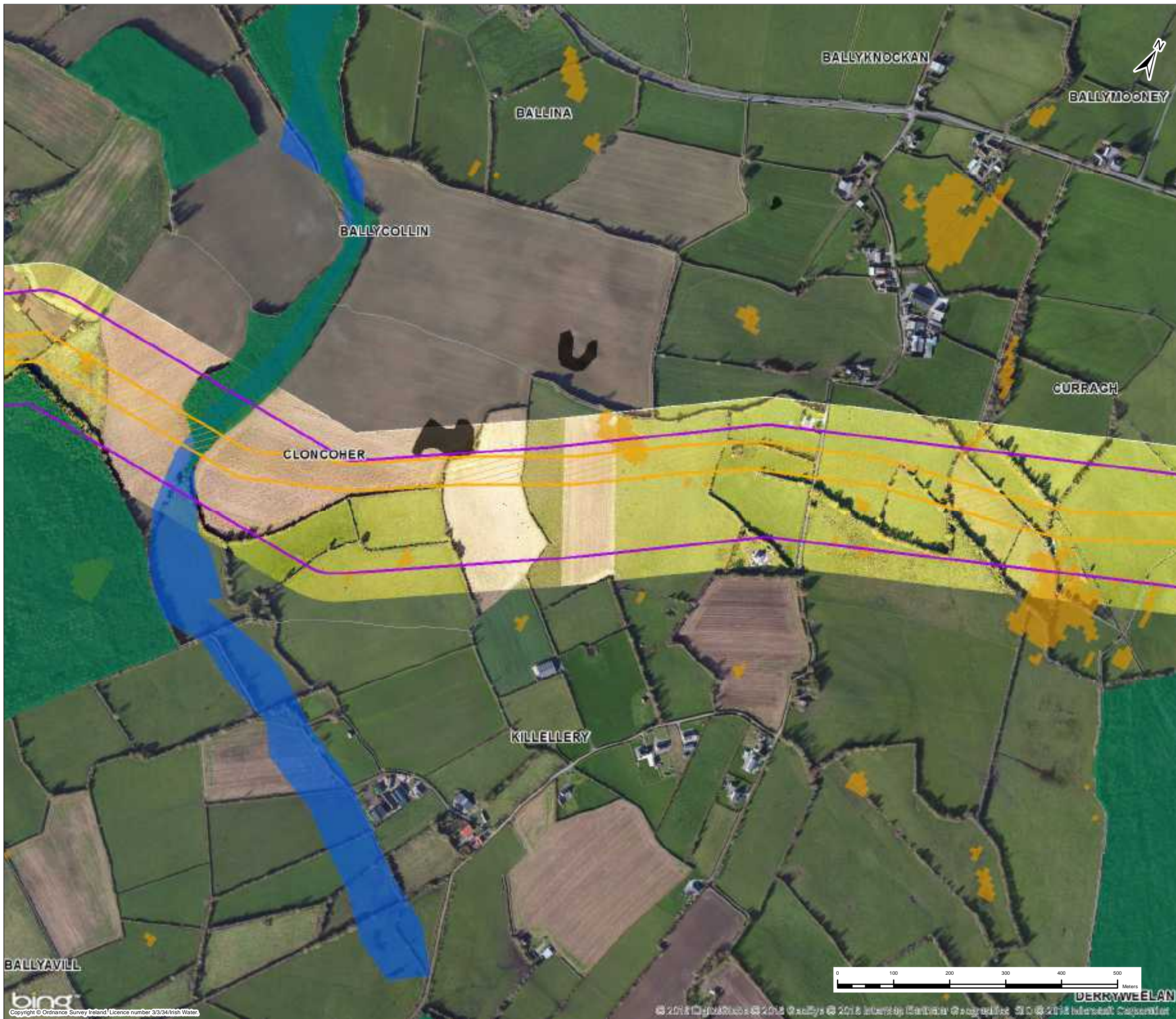
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: **For Issue**

Scale @ A3	1:6,500	DO NOT SCALE
Jacobs No.	32105801	Client No. WSP1
Filepath	<small>© 2016 Jacobs U.S. All rights reserved. This drawing is the property of Jacobs U.S. and is not to be distributed outside the project team without the written permission of Jacobs U.S.</small>	
Drawing No.	2.50	

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



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Pits And Quarries
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

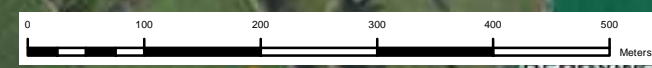
Drawing Status: **For Issue**

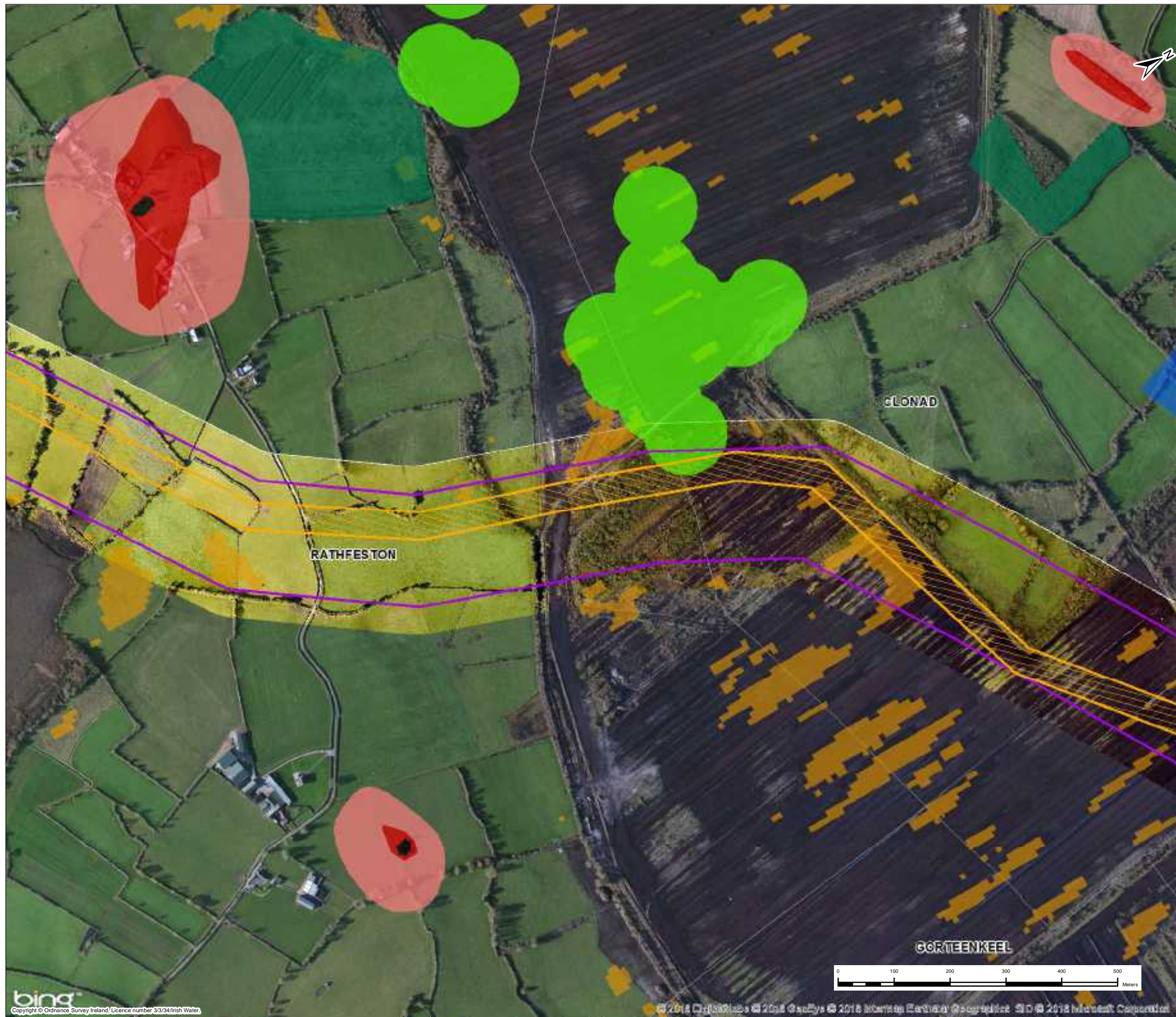
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.52

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- Forestry
- Mineral Locations
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



Client:

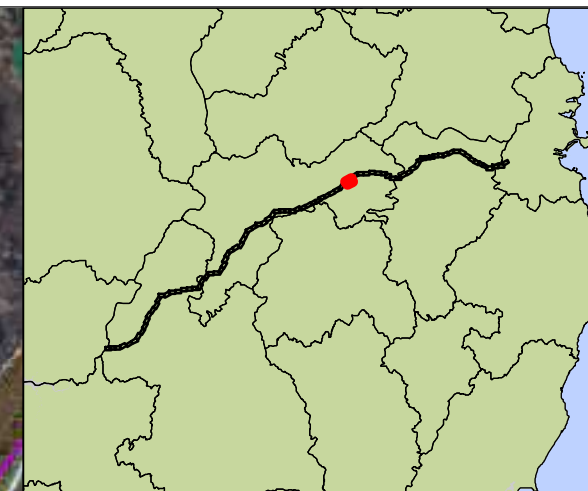
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: For Issue

Scale @ A3	1:6,500	DO NOT SCALE	
Jacobs No.	32105801	Client No.	WSP1
Filepath: <small>(C:\GIS\2016\WSP\GIS\2016\WSP_010001\Task\WSP_Route_Report\GIS\2016\2016_001_001\Map.mxd)</small>			
Drawing No.	2.55		

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



- Key**
- Indicative 50m Working Width
 - Preferred 200m Pipeline Corridor
 - National Monuments (75 Metre Radius)
 - Forestry
 - SMR Zone
 - Source Protection Areas
 - Architectural Conservation Areas Offaly
 - Pluvial Indicative Flooding 1%AEP

CLONARROW or RIVERLYONS

ISLAND

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

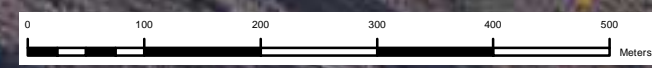
Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.57





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



Client: LIISCE WATER

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: For Issue

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.66

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



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

CUSHALING

TICKNEVIN

LULLYBEG

LULLYMORE WEST

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client
Water Supply Project - Eastern and Midlands Region

Drawing Title
Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

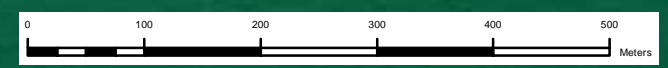
Drawing Status
For Issue

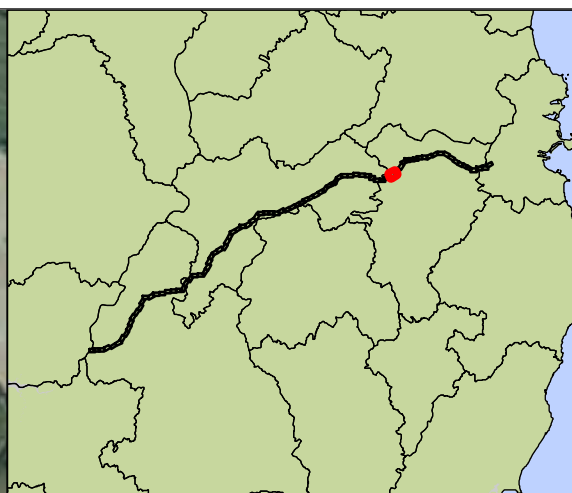
Scale @ A3
1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Filepath

Drawing No. 2.68





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



Client:

Project: Water Supply Project - Eastern and Midlands Region

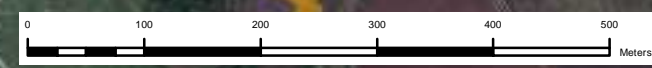
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

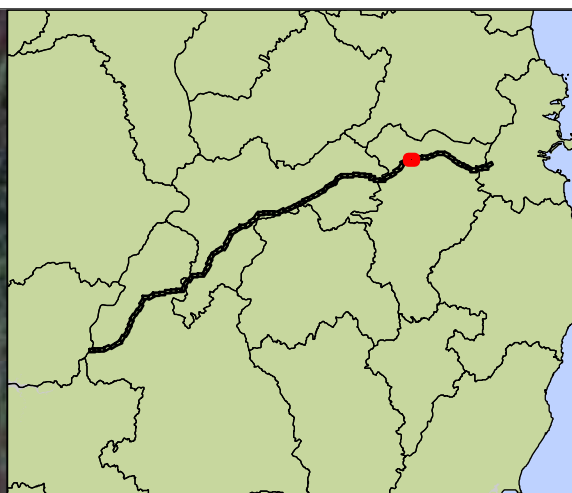
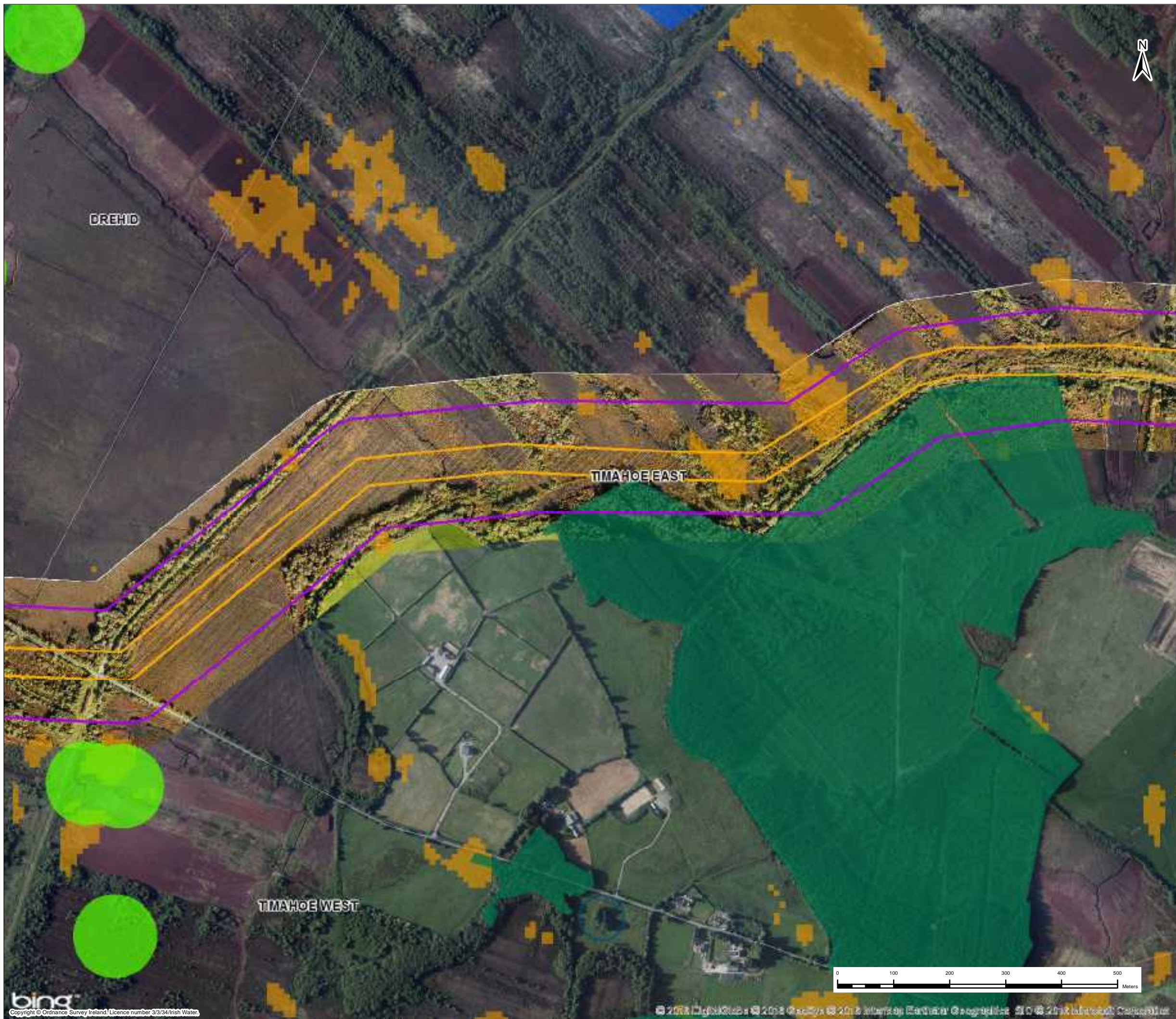
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.69





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Woodland_Habitats
- Forestry
- Native Woodland Survey
- SMR Zone
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

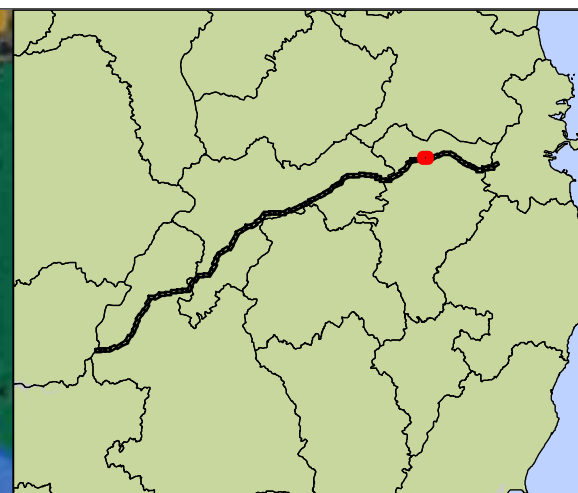
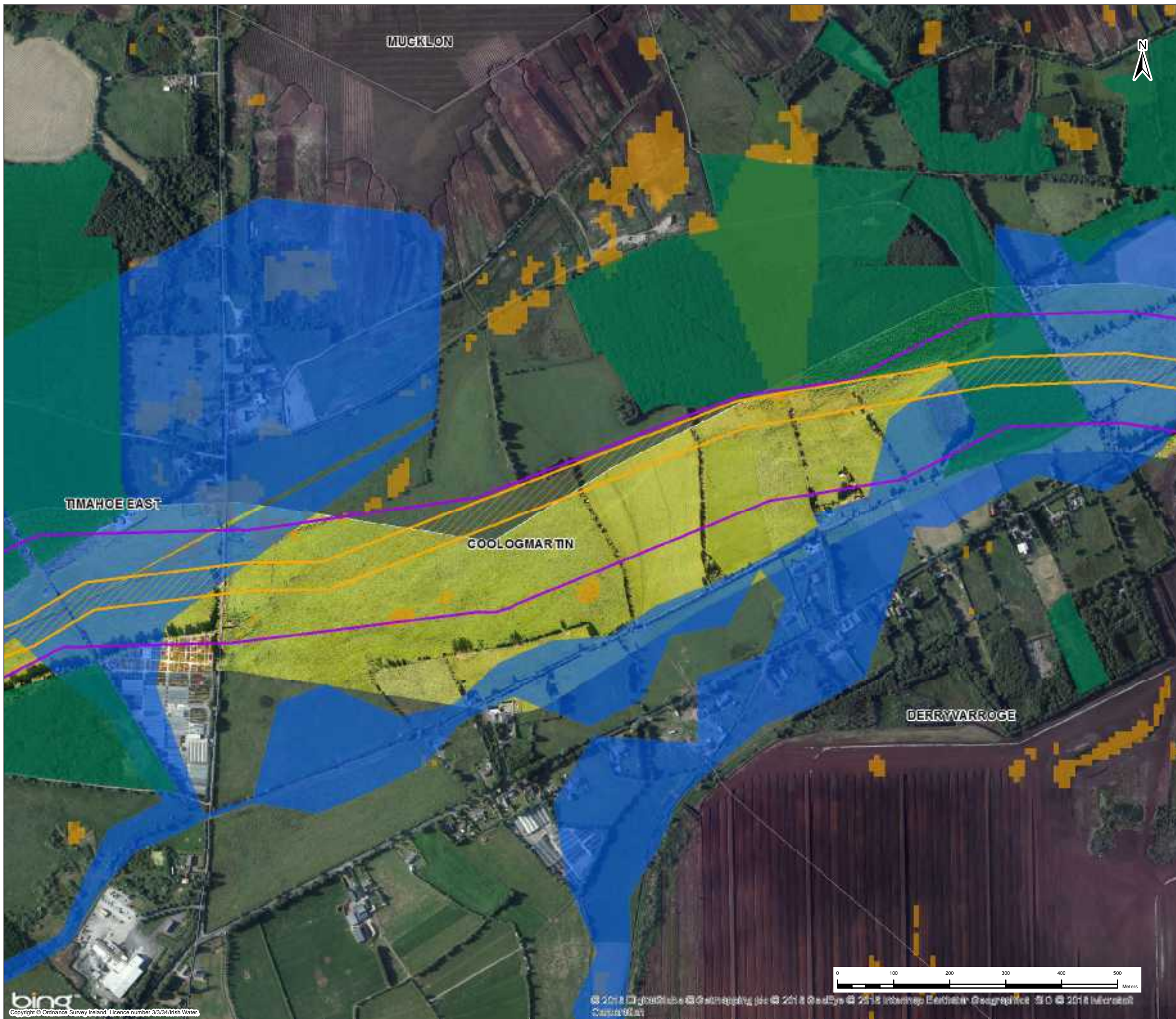
Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.74



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

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



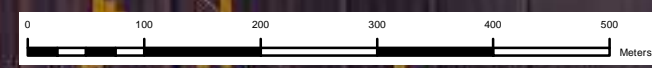
Client

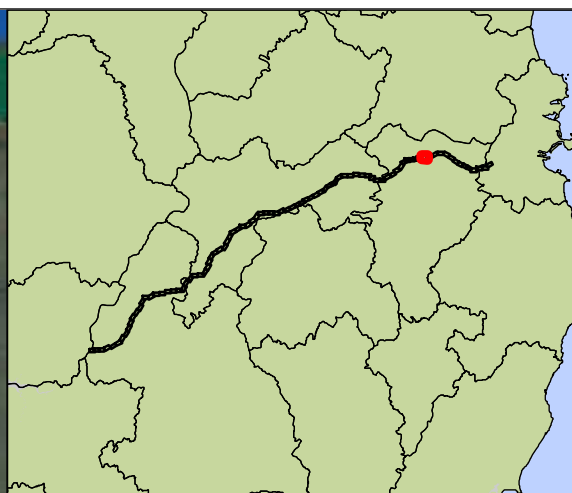
Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: **For Issue**

Scale @ A3	1:6,500	DO NOT SCALE	
JACOBS No.	32105801	Client No.	WSP1
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Drawing No.	2.76		





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Forestry
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client
Water Supply Project - Eastern and Midlands Region

Drawing Title
Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

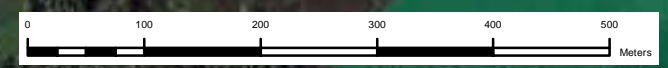
Scale @ A3
1:6,500 DO NOT SCALE

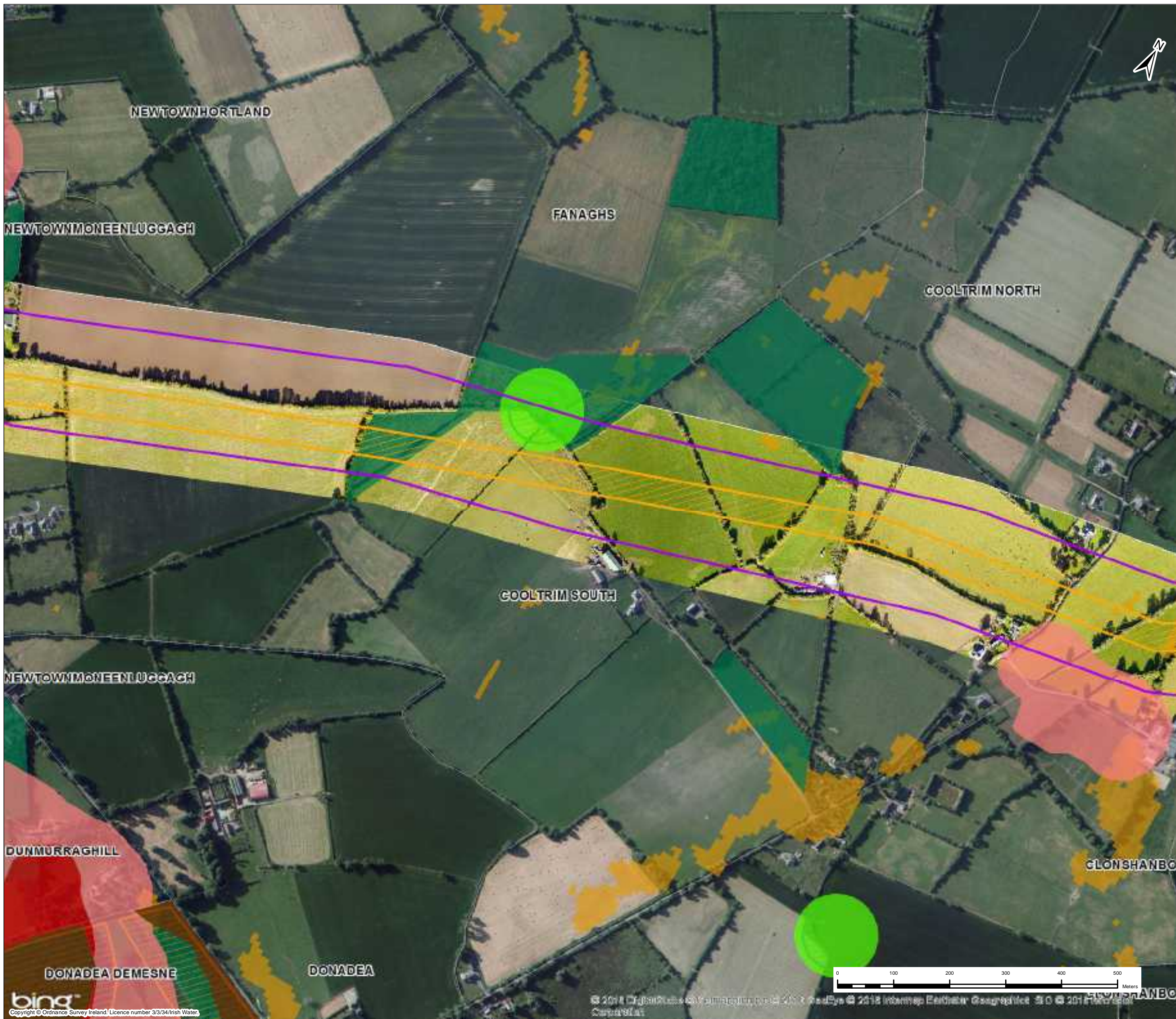
Jacobs No. 32105801 Client No. WSP1

Filepath

Drawing No. 2.77

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Ancient Woodland
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS_9_Counties
- Proposed Natural Heritage Area
- Woodland_Habitats
- Forestry
- Native Woodland Survey
- SMR Zone
- Pluvial Indicative Flooding 1% AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

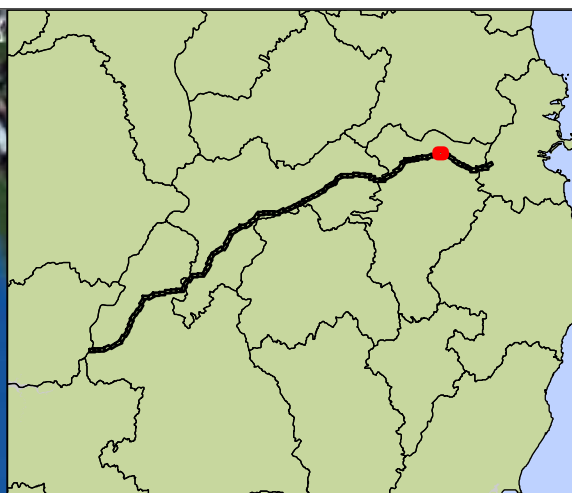
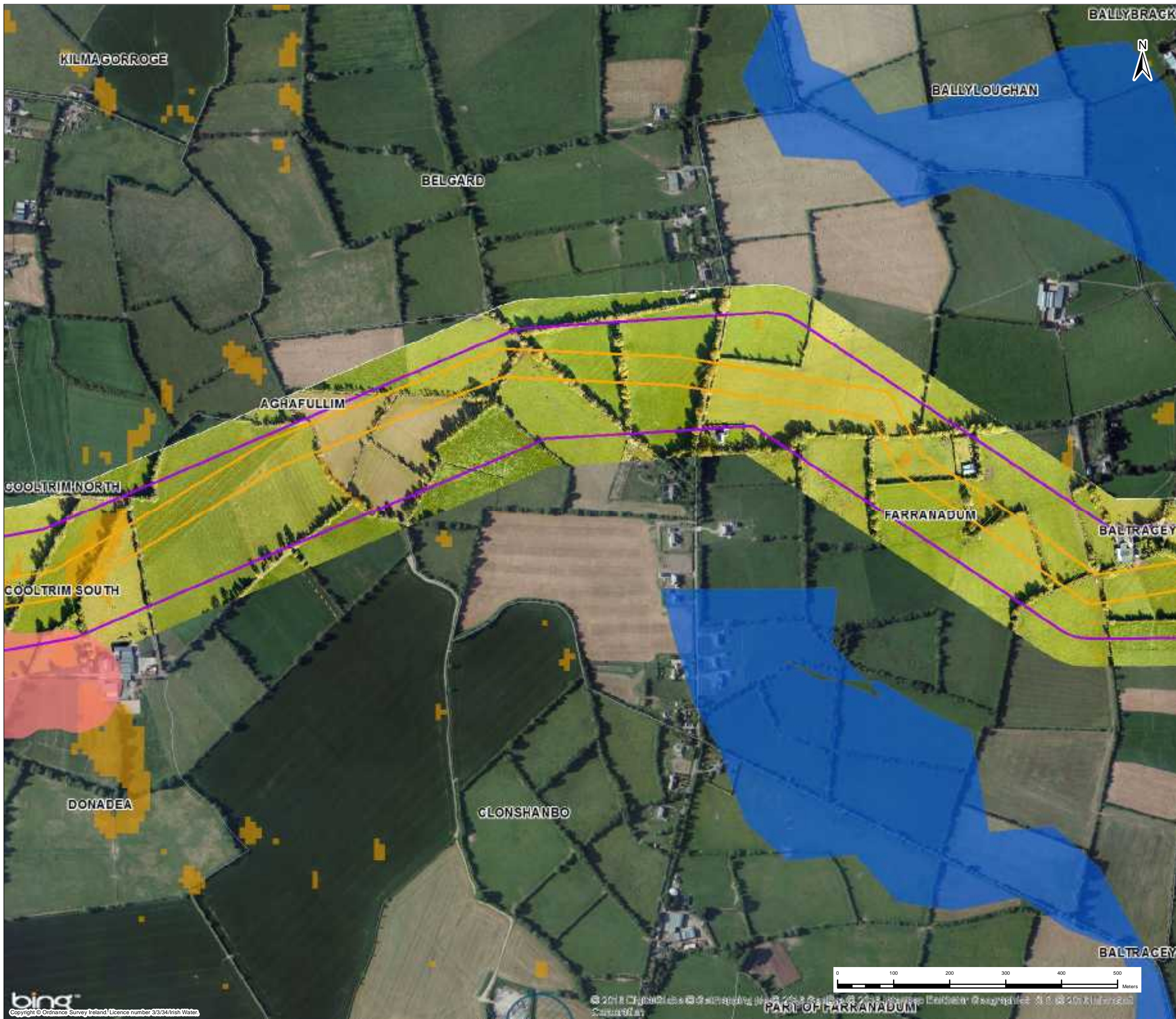
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.79

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



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- Groundwater Vulnerability Extreme
- SMR Zone
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



Client

Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

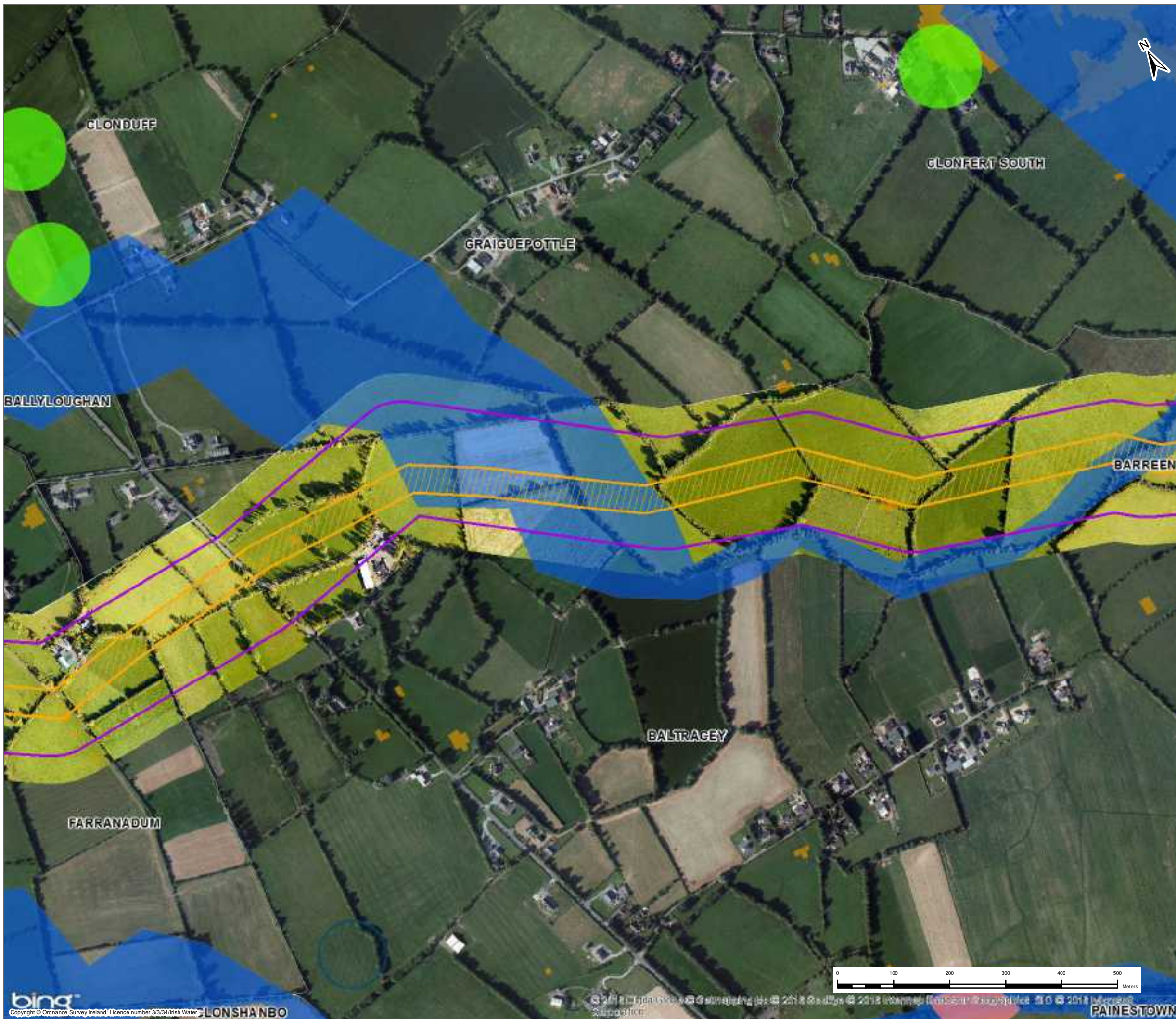
Drawing Status
 For Issue

Scale @ A3
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Jacobs No. 32105801 Client No. WSP1

Filepath \\01\GIS\20160303_1016\GIS\2016_1016\WSP1\03_11_16\WSP1_Route_Constraints_Map.mxd
 Drawing No. 2.80

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



Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Groundwater Vulnerability Extreme
- SMR Zone
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



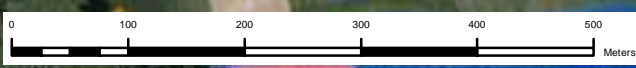
Client:

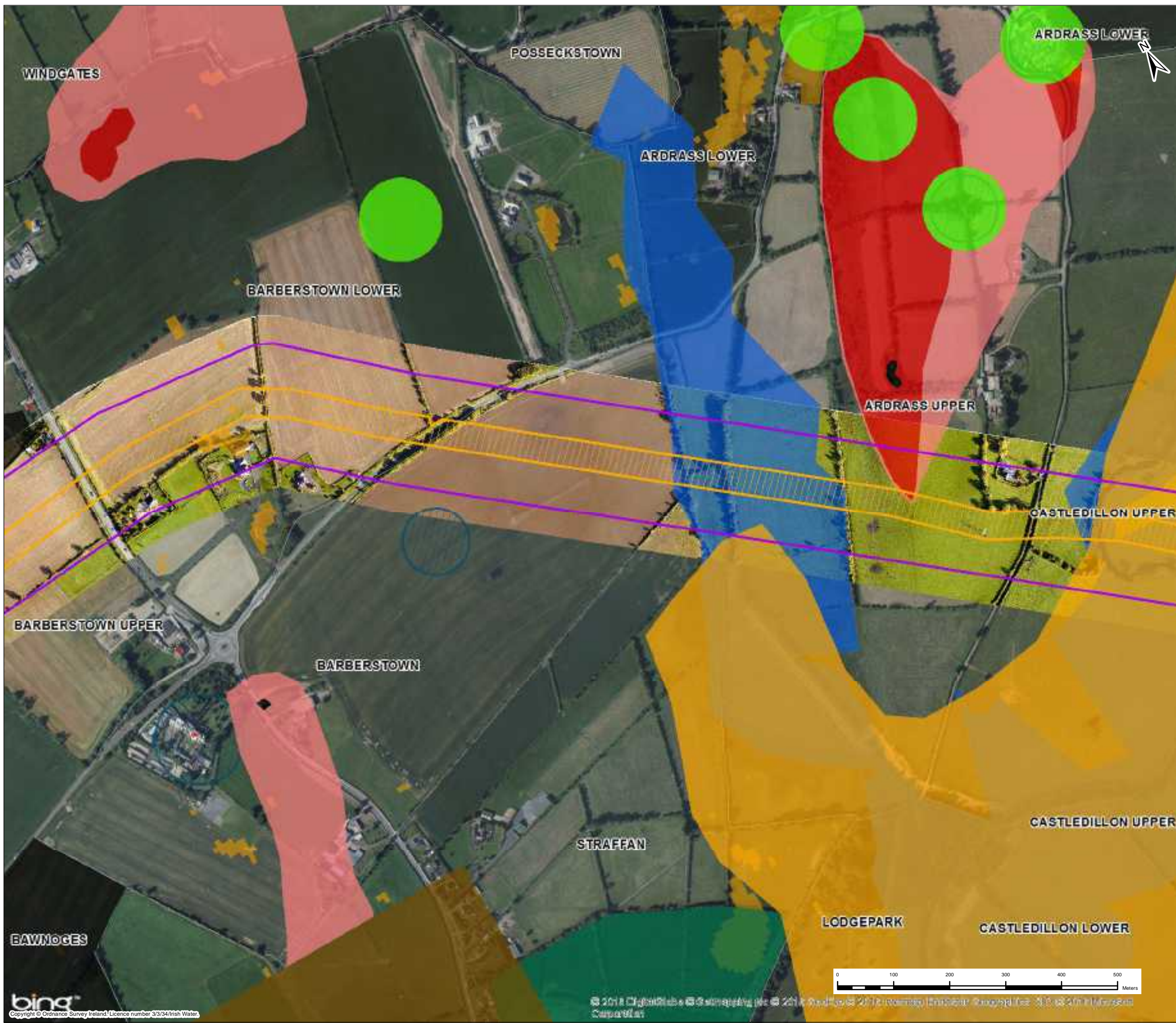
Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: **For Issue**

Scale @ A3	1:6,500	DO NOT SCALE	
Jacobs No.	32105801	Client No.	WSP1
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Drawing No.	2.81		





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Building Density >100 Properties per km²
- Settlements
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS__9_Counties
- Landscape Classification Areas Kildare High
- Forestry
- SMR Zone
- Geological Heritage Sites Bound
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	Apprd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

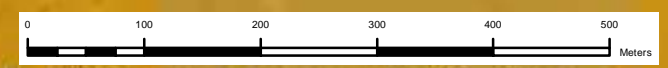
Drawing Status: **For Issue**

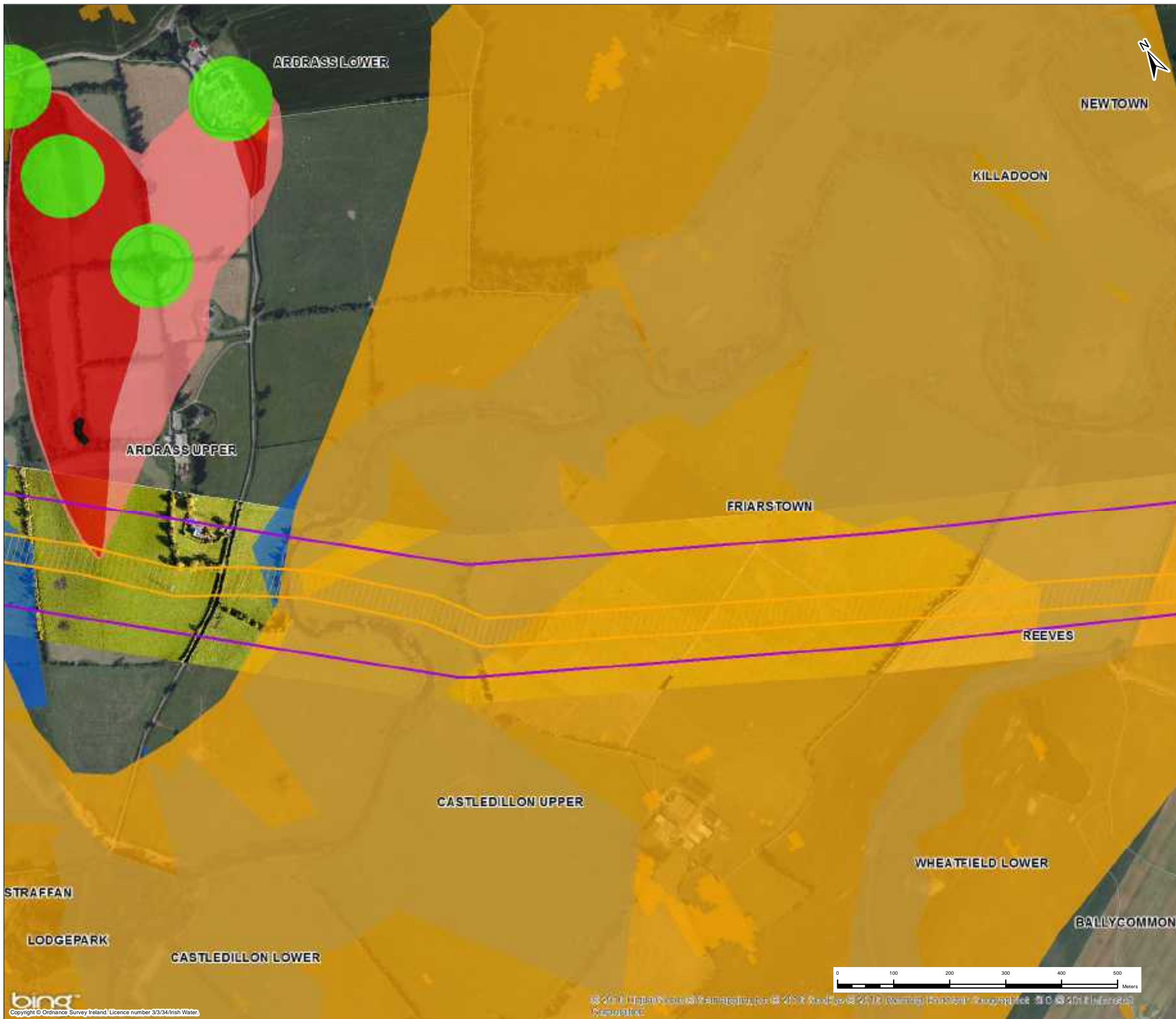
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.85

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





Key

- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS__9_Counties
- Landscape Classification Areas Kildare High
- Forestry
- SMR Zone
- Geological Heritage Sites Bound
- Fluvial Indicative Flooding 1%AEP
- Pluvial Indicative Flooding 1%AEP

1	03/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status: **For Issue**

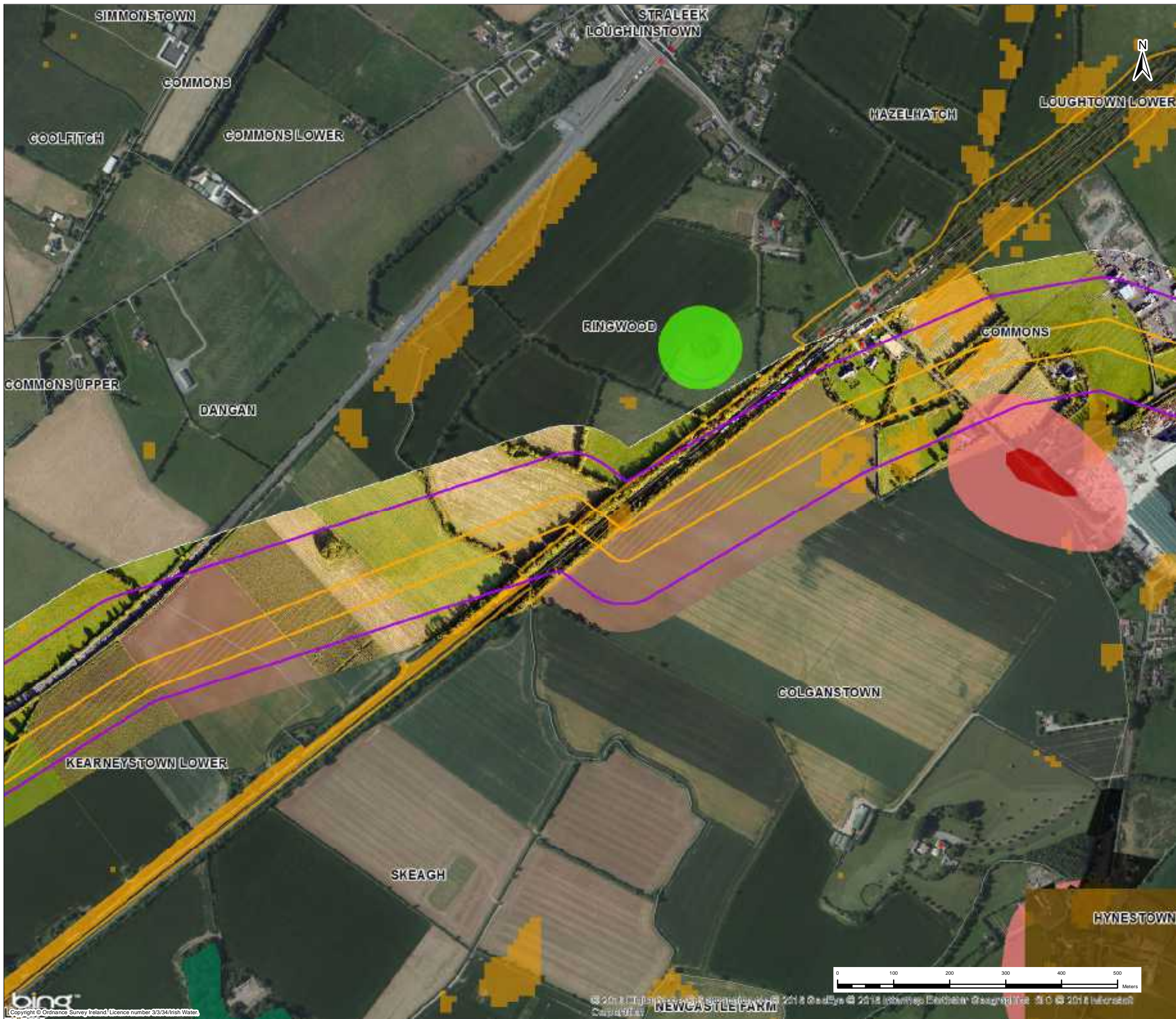
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No.: 32105801 Client No.: WSP1

Drawing No.: 2.86

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





- Key**
- Indicative 50m Working Width
 - Preferred 200m Pipeline Corridor
 - National Monuments (75 Metre Radius)
 - Building Density >100 Properties per km²
 - Settlements
 - Pits And Quarries
 - Groundwater Vulnerability Extreme
 - Groundwater Vulnerability Rock at or Near Surface or Karst feature
 - RPS__9_Counties
 - Landscape Classification Areas Kildare High
 - Proposed Natural Heritage Area
 - Forestry
 - SMR Zone
 - Pluvial Indicative Flooding 1%AEP

1	04/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

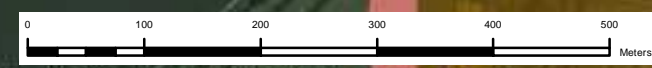
Drawing Status: **For Issue**

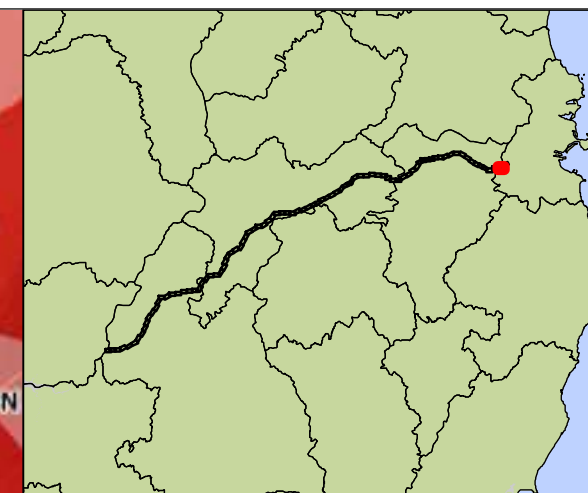
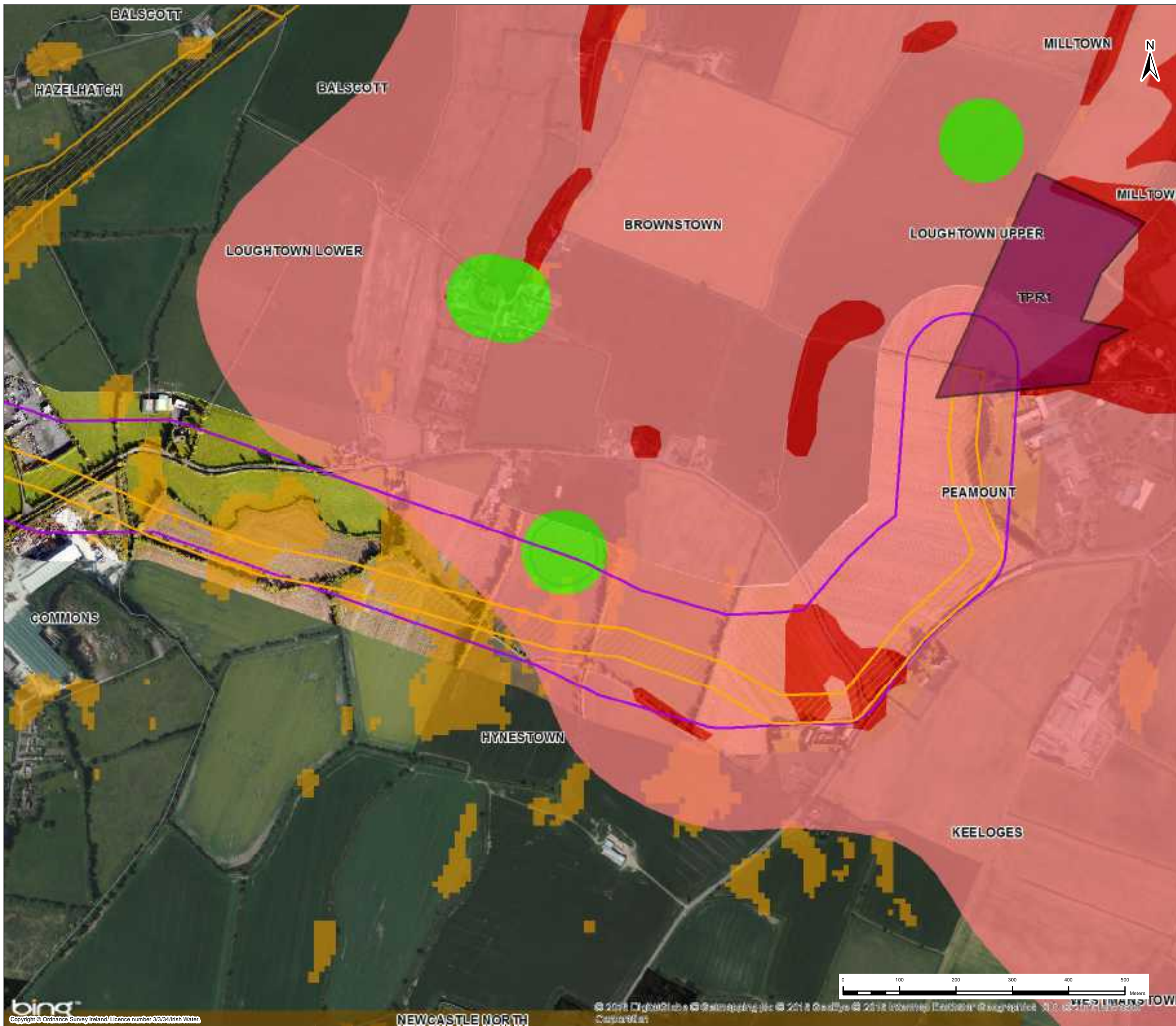
Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.88

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





Key

- Least Constrained Termination Point Reservoir Site
- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Building Density >100 Properties per km²
- Settlements
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS__9_Counties
- Proposed Natural Heritage Area
- SMR Zone
- Pluvial Indicative Flooding 1%AEP

1	04/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client:

Project: Water Supply Project - Eastern and Midlands Region

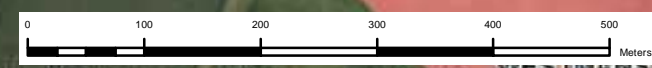
Drawing Title: Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

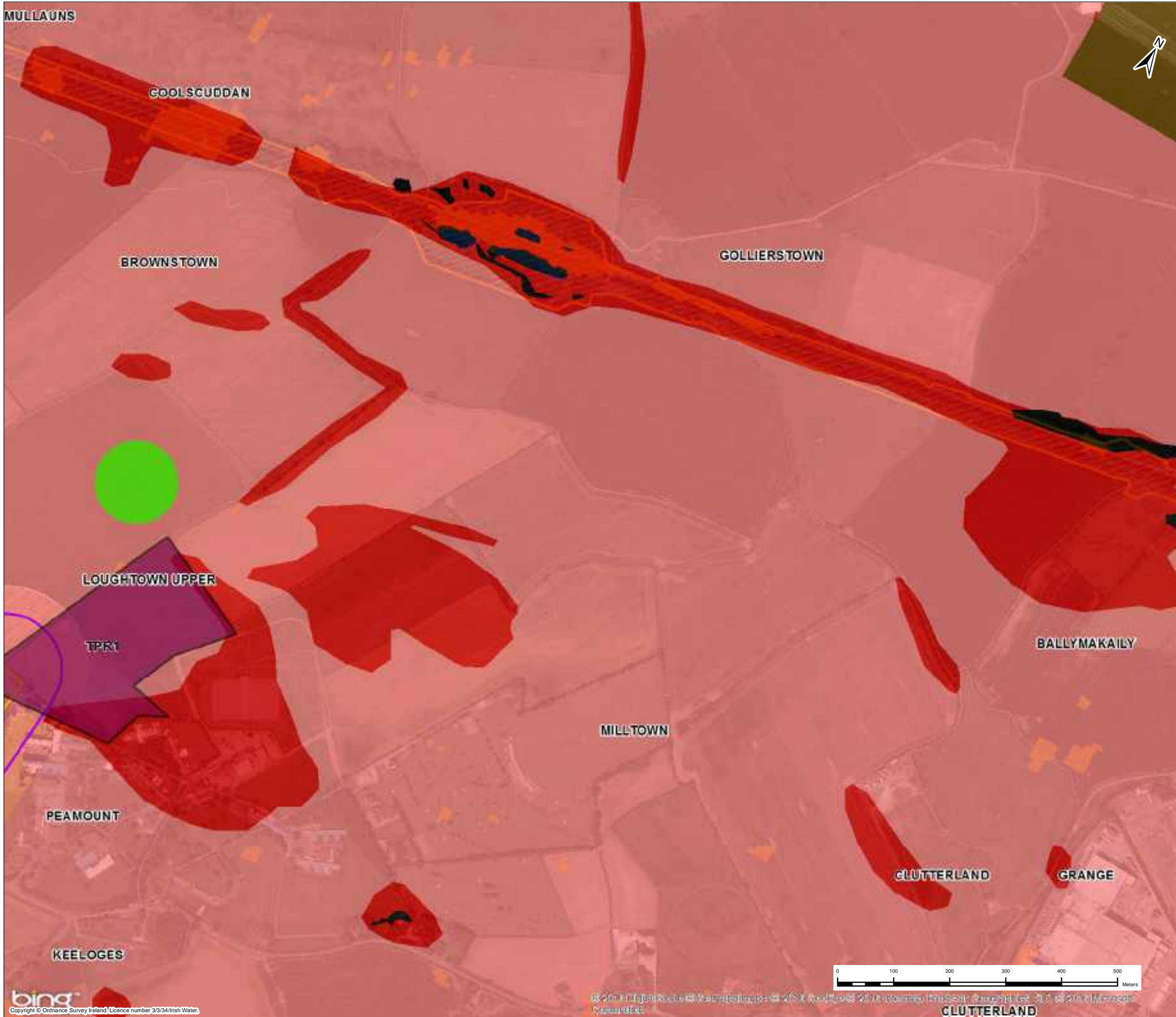
Drawing Status: **For Issue**

Scale @ A3: 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Drawing No. 2.89





Key

- Least Constrained Termination Point Reservoir Site
- Indicative 50m Working Width
- Preferred 200m Pipeline Corridor
- National Monuments (75 Metre Radius)
- Building Density >100 Properties per km²
- Settlements
- Pits And Quarries
- Groundwater Vulnerability Extreme
- Groundwater Vulnerability Rock at or Near Surface or Karst feature
- RPS__9_Counties
- Proposed Natural Heritage Area
- Lakes
- Pluvial Indicative Flooding 1%AEP

1	04/11/2016	For Issue	PW	CK	ND	MG
Rev.	Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



Client

Project
 Water Supply Project - Eastern and Midlands Region

Drawing Title
 Preferred Pipeline Corridor and Indicative Working Width - Route Constraints

Drawing Status
For Issue

Scale @ A3
 1:6,500 DO NOT SCALE

Jacobs No. 32105801 Client No. WSP1

Filepath
\\0100010000\WSP\GIS\2016\WSP_GIS\2016\WSP_Report\Report\GIS\2016\2016_Constraints_Map.mxd

Drawing No. 2.90

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

