

ENVIRONMENTAL IMPACT STATEMENT

Volume II

MAY 2001



ARUP

**Mayo - Galway Gas
Pipeline**

**Environmental Impact
Statement
Volume 11 - Figures**

May2001

Job No. C689/10

For inspection purposes only.
Consent of copyright owner required for any other use.

Mayo - Galway
Gas Pipeline

Environmental
Impact Statement
Volume 11 - Figures

Prepared By: Daniel Garvey
Signed:

[Signature]

Date: 11 05 01

Checked By: Ria Lyden
Signed:

[Signature]

Date: 11-05-01

Passed By: Eoghan Lynch
Signed:

[Signature]

Date: 11 May 2001

Revision Record

Issue No.	Date	Status	Prepared	Checked	Passed
1	1 May 2001	Draft	DG	RL	EJL
2	11 May 2001	Final Issue	DG <i>[Signature]</i>	RL	EJL <i>[Signature]</i>

LIST OF FIGURES (VOLUME II)

- Figure 4.1: Pipeline Route and Alternatives Considered (Sheet 1 of 8)
- Figure 4.2: Pipeline Route and Alternatives Considered (Sheet 2 of 8)
- Figure 4.3: Pipeline Route and Alternatives Considered (Sheet 3 of 8)
- Figure 4.4: Pipeline Route and Alternatives Considered (Sheet 4 of 8)
- Figure 4.5: Pipeline Route and Alternatives Considered (Sheet 5 of 8)
- Figure 4.6: Pipeline Route and Alternatives Considered (Sheet 6 of 8)
- Figure 4.7: Pipeline Route and Alternatives Considered (Sheet 7 of 8)
- Figure 4.8: Pipeline Route and Alternatives Considered (Sheet 8 of 8)
- Figure 5.1: Location of Block Valve Stations and Pipe Storage Depots /Compounds
- Figure 5.2: Typical Layout of a Block Valve Station with Pig Trap
- Figure 5.3: Typical Layout of a Block Valve Station
- Figure 8.1: Existing and Proposed Bord Gáis Éireann Transmission Network
- Figure 9.1: Ecological Assessment Phase 1 Habitat Maps (Sheet 1 of 36)
- Figure 9.2: Ecological Assessment Phase 1 Habitat Maps (Sheet 2 of 36)
- Figure 9.3: Ecological Assessment Phase 1 Habitat Maps (Sheet 3 of 36)
- Figure 9.4: Ecological Assessment Phase 1 Habitat Maps (Sheet 4 of 36)
- Figure 9.5: Ecological Assessment Phase 1 Habitat Maps (Sheet 5 of 36)
- Figure 9.6: Ecological Assessment Phase 1 Habitat Maps (Sheet 6 of 36)
- Figure 9.7: Ecological Assessment Phase 1 Habitat Maps (Sheet 7 of 36)
- Figure 9.8: Ecological Assessment Phase 1 Habitat Maps (Sheet 8 of 36)
- Figure 9.9: Ecological Assessment Phase 1 Habitat Maps (Sheet 9 of 36)
- Figure 9.10: Ecological Assessment Phase 1 Habitat Maps (Sheet 10 of 36)
- Figure 9.11: Ecological Assessment Phase 1 Habitat Maps (Sheet 11 of 36)
- Figure 9.12: Ecological Assessment Phase 1 Habitat Maps (Sheet 12 of 36)
- Figure 9.13: Ecological Assessment Phase 1 Habitat Maps (Sheet 13 of 36)
- Figure 9.14: Ecological Assessment Phase 1 Habitat Maps (Sheet 14 of 36)
- Figure 9.15: Ecological Assessment Phase 1 Habitat Maps (Sheet 15 of 36)
- Figure 9.16: Ecological Assessment Phase 1 Habitat Maps (Sheet 16 of 36)
- Figure 9.17: Ecological Assessment Phase 1 Habitat Maps (Sheet 17 of 36)
- Figure 9.18: Ecological Assessment Phase 1 Habitat Maps (Sheet 18 of 36)
- Figure 9.19: Ecological Assessment Phase 1 Habitat Maps (Sheet 19 of 36)
- Figure 9.20: Ecological Assessment Phase 1 Habitat Maps (Sheet 20 of 36)
- Figure 9.21: Ecological Assessment Phase 1 Habitat Maps (Sheet 21 of 36)

Figure 9.22: Ecological Assessment Phase 1 Habitat Maps (Sheet 22 of 36)

Figure 9.23: Ecological Assessment Phase 1 Habitat Maps (Sheet 23 of 36)

Figure 9.24: Ecological Assessment Phase 1 Habitat Maps (Sheet 24 of 36)

Figure 9.25: Ecological Assessment Phase 1 Habitat Maps (Sheet 25 of 36)

Figure 9.26: Ecological Assessment Phase 1 Habitat Maps (Sheet 26 of 36)

Figure 9.27: Ecological Assessment Phase 1 Habitat Maps (Sheet 27 of 36)

Figure 9.28: Ecological Assessment Phase 1 Habitat Maps (Sheet 28 of 36)

Figure 9.29: Ecological Assessment Phase 1 Habitat Maps (Sheet 29 of 36)

Figure 9.30: Ecological Assessment Phase 1 Habitat Maps (Sheet 30 of 36)

Figure 9.31: Ecological Assessment Phase 1 Habitat Maps (Sheet 31 of 36)

Figure 9.32: Ecological Assessment Phase 1 Habitat Maps (Sheet 32 of 36)

Figure 9.33: Ecological Assessment Phase 1 Habitat Maps (Sheet 33 of 36)

Figure 9.34: Ecological Assessment Phase 1 Habitat Maps (Sheet 34 of 36)

Figure 9.35: Ecological Assessment Phase 1 Habitat Maps (Sheet 35 of 36)

Figure 9.36: Ecological Assessment Phase 1 Habitat Maps (Sheet 36 of 36)

Figure 10.1: river Crossings (Sheet 1 of 8)

Figure 10.2: river Crossings (Sheet 2 of 8)

Figure 10.3: river Crossings (Sheet 3 of 8)

Figure 10.4: river Crossings (Sheet 4 of 8)

Figure 10.5: river Crossings (Sheet 5 of 8)

Figure 10.6: river Crossings (Sheet 6 of 8)

Figure 10.7: river Crossings (Sheet 7 of 8)

Figure 10.8: river Crossings (Sheet 8 of 8)

Figure 11.1: Ice limits and General Directions of Ice Movement During the Late Midlandian Cold Stage

Figure 11.2: Glacial Geomorphological Features

Figure 11.3: Simplified Bedrock Geology for Section of Pipeline Route North of Castlebar

Figure 11.4: Changes in Surface Morphology South of Castlehackett

Figure 11.5: Soils Map (Sheet 1 of 4)

Figure 11.6: Soils Map (Sheet 2 of 4)

Figure 11.7: Soils Map (Sheet 3 of 4)

Figure 11.8: Soils Map (Sheet 4 of 4)

Figure 11.9: Karst Features in The Vicinity of the Pipeline (Sheet 1 of 2)

Figure 11.10: Karst Features in The Vicinity of the Pipeline (Sheet 2 of 2)

Figure 13.1: Present and Former Drainage Patterns in Northeast Galway.

Figure 13.2: Discharge Versus Exceedence Duration for Three Named Rivers Crossed by the Pipeline

Figure 13.3: Major Aquifers of Ireland

Figure 13.4: Established Groundwater Flow Paths in Dunkellin-Lavally Catchment

Figure 14.1: Archaeological Features (Sheet 1 of 8)

Figure 14.2: Archaeological Features (Sheet 2 of 8)

Figure 14.3: Archaeological Features (Sheet 3 of 8)

Figure 14.4: Archaeological Features (Sheet 4 of 8)

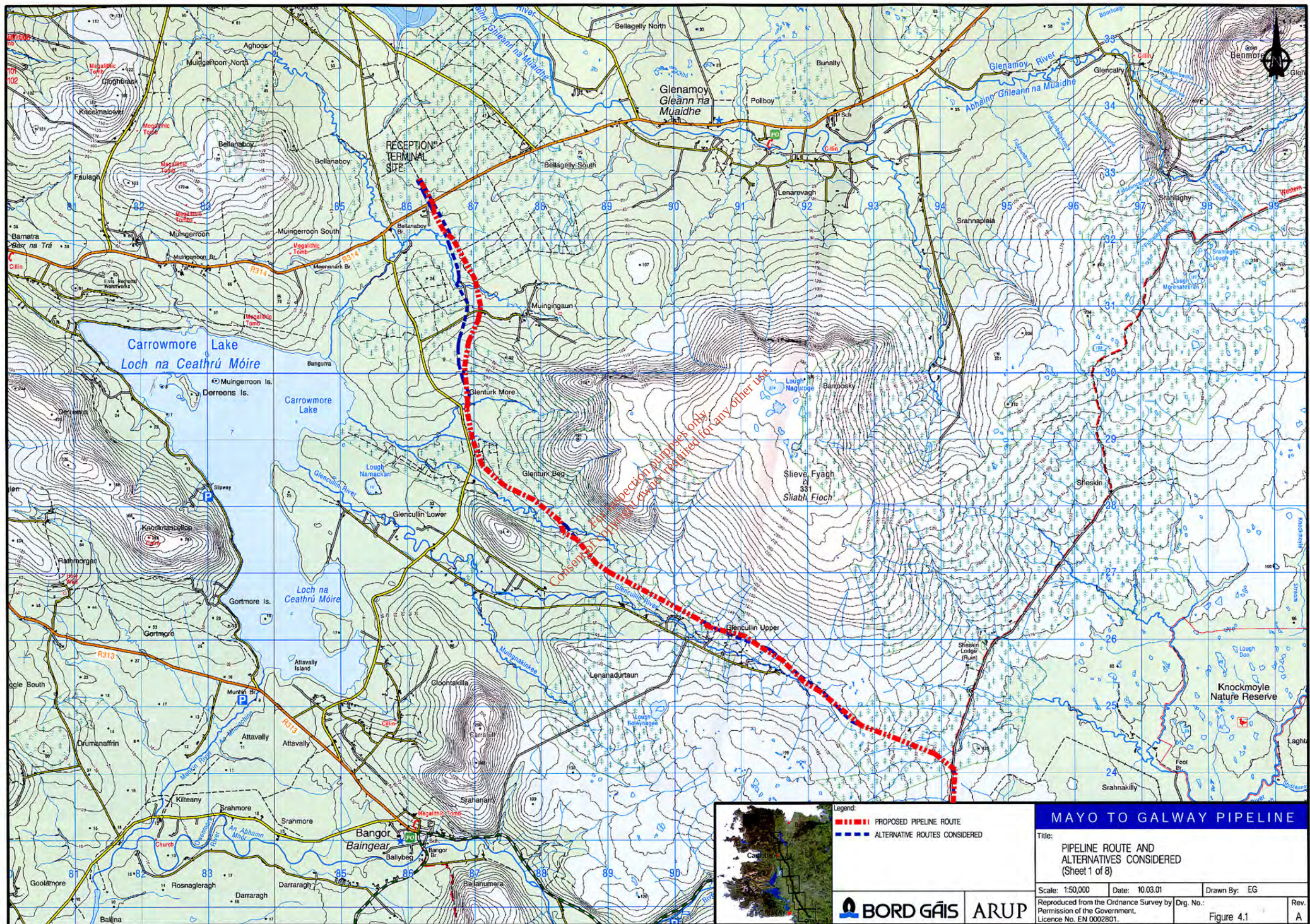
Figure 14.5: Archaeological Features (Sheet 5 of 8)

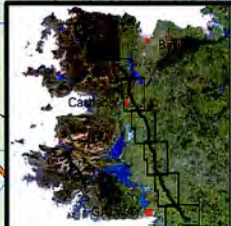
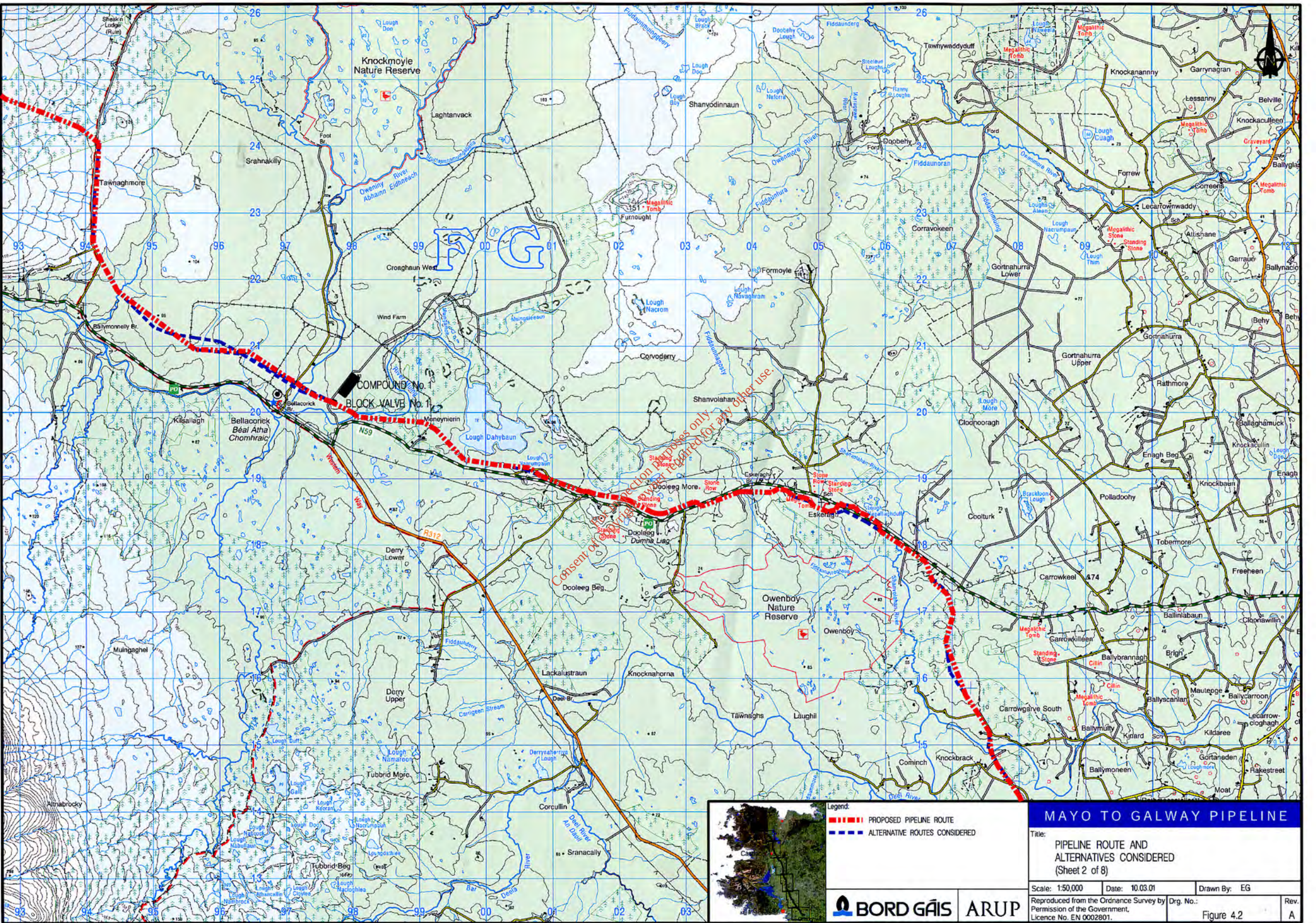
Figure 14.6: Archaeological Features (Sheet 6 of 8)

Figure 14.7: Archaeological Features (Sheet 7 of 8)

Figure 14.8: Archaeological Features (Sheet 8 of 8)

For inspection purposes only.
Consent of copyright owner required for any other use.





Legend:

- PROPOSED PIPELINE ROUTE
- ALTERNATIVE ROUTES CONSIDERED

BORD GÁIS **ARUP**

MAYO TO GALWAY PIPELINE

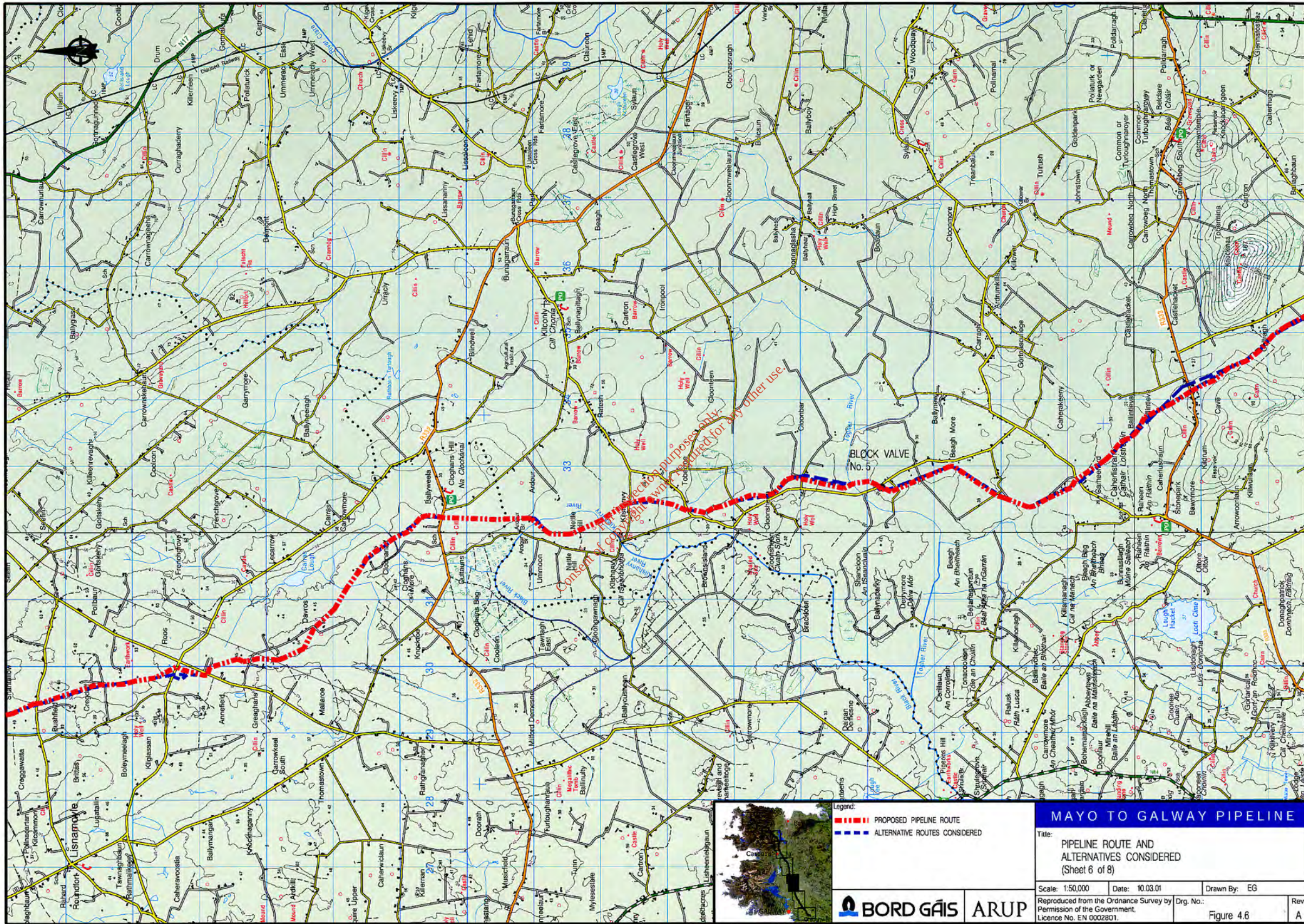
Title: PIPELINE ROUTE AND ALTERNATIVES CONSIDERED (Sheet 2 of 8)

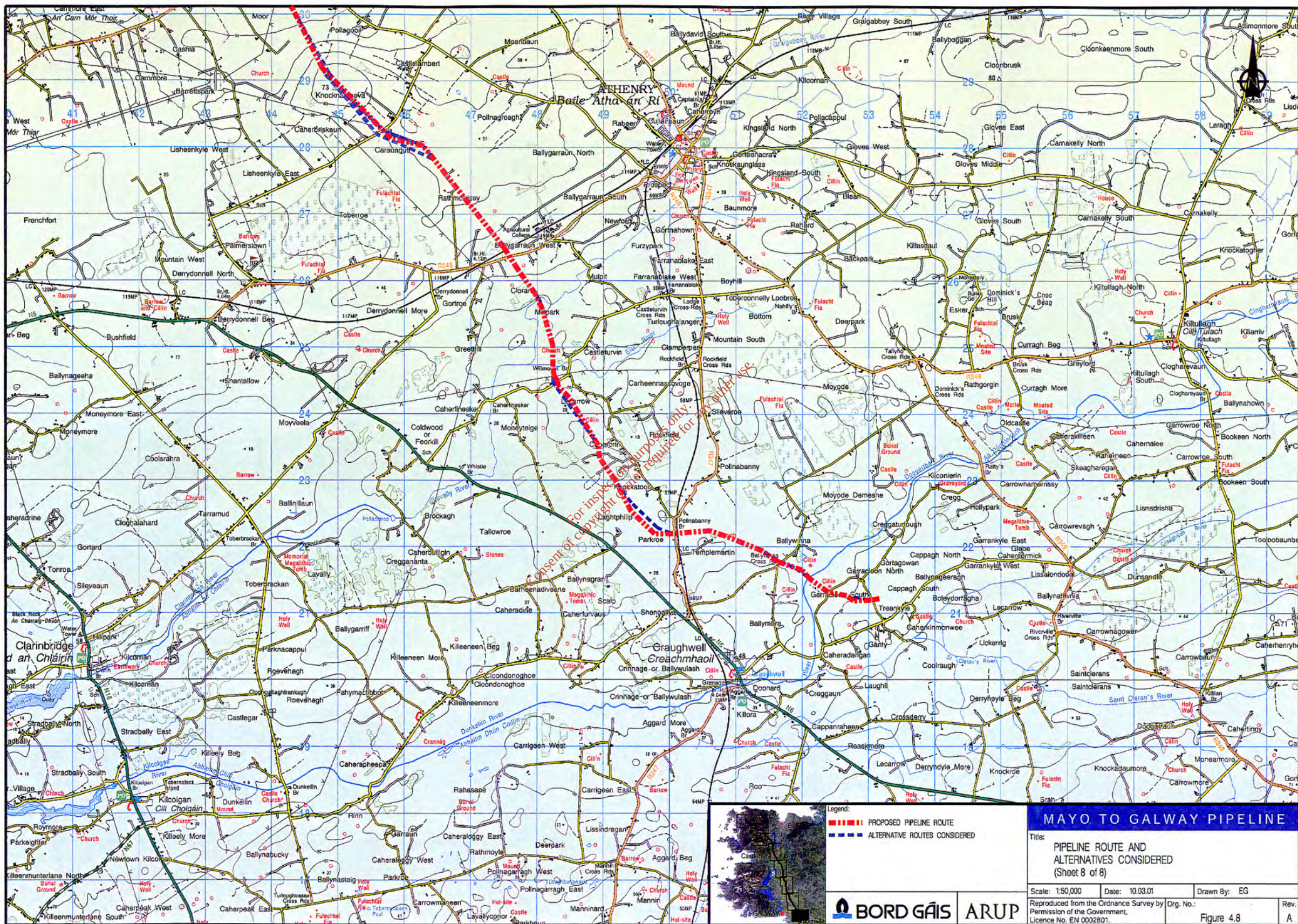
Scale: 1:50,000	Date: 10.03.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Rev. A

Figure 4.2











MAYO TO GALWAY PIPELINE

Title: LOCATION OF BLOCK VALVE STATIONS,
PIPE STORAGE DEPOTS AND
CONSTRUCTION COMPOUNDS

Scale: N.T.S.

Date: 20.04.01

Drawn By: EG



BORD GÁIS

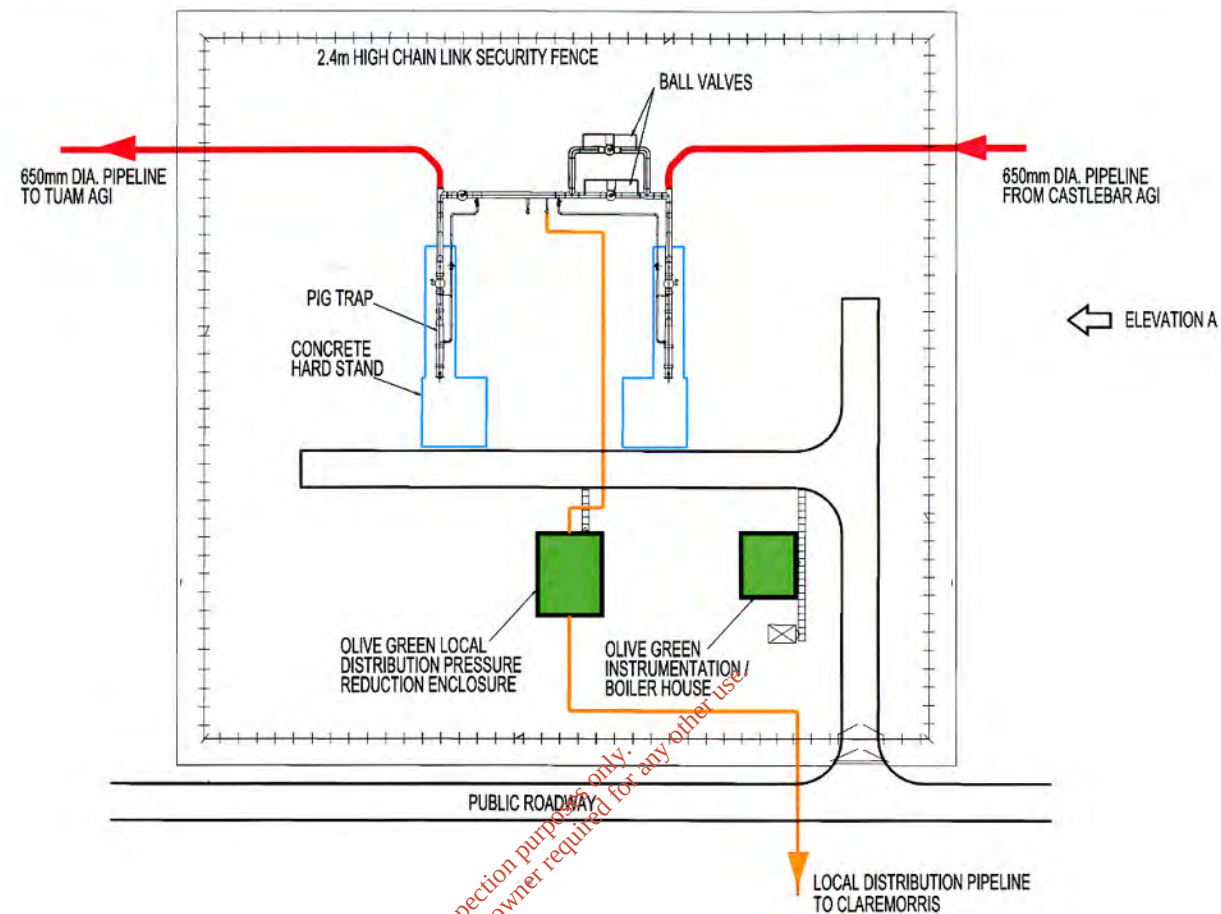
ARUP

Reproduced from the Ordnance Survey by
Permission of the Government,
Licence No. EN 0002801.

Drg. No.:

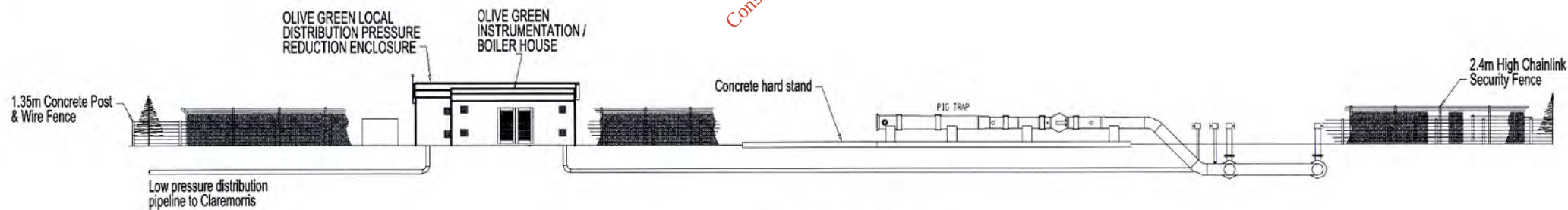
Figure 5.1

Rev.
A



PLAN

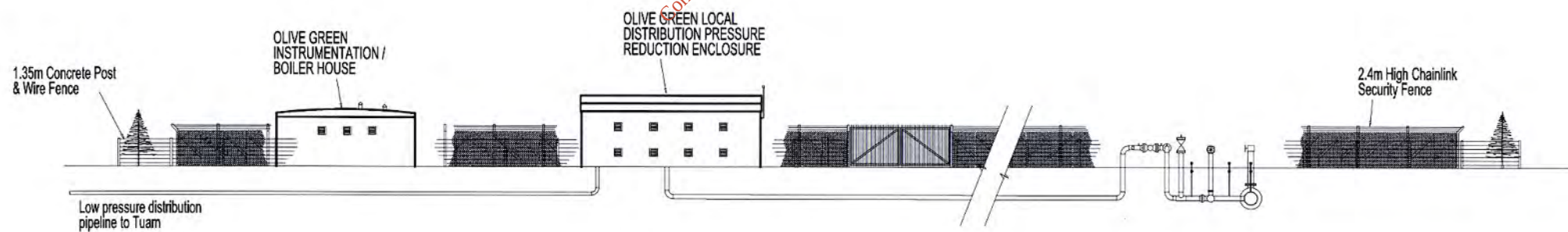
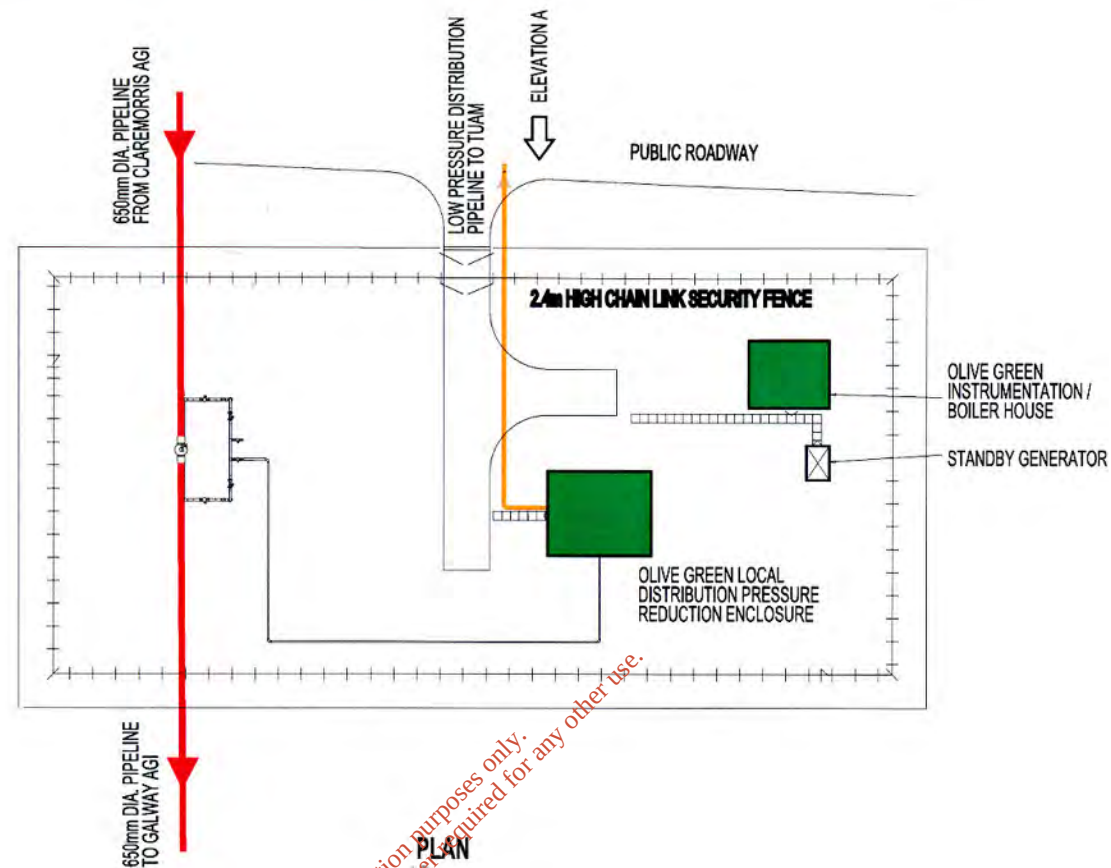
For inspection purposes only.
Consent of copyright owner required for any other use.



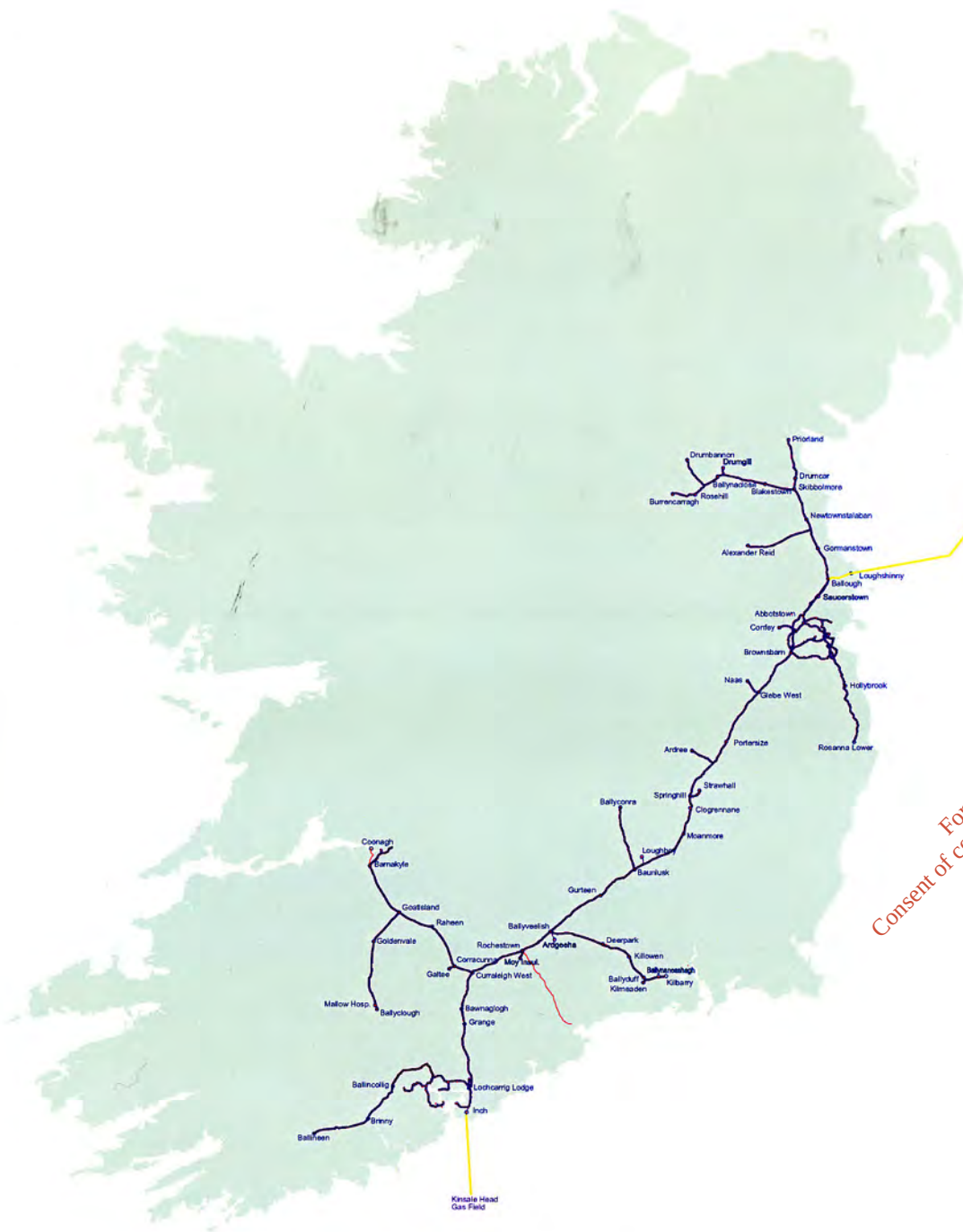
ELEVATION A



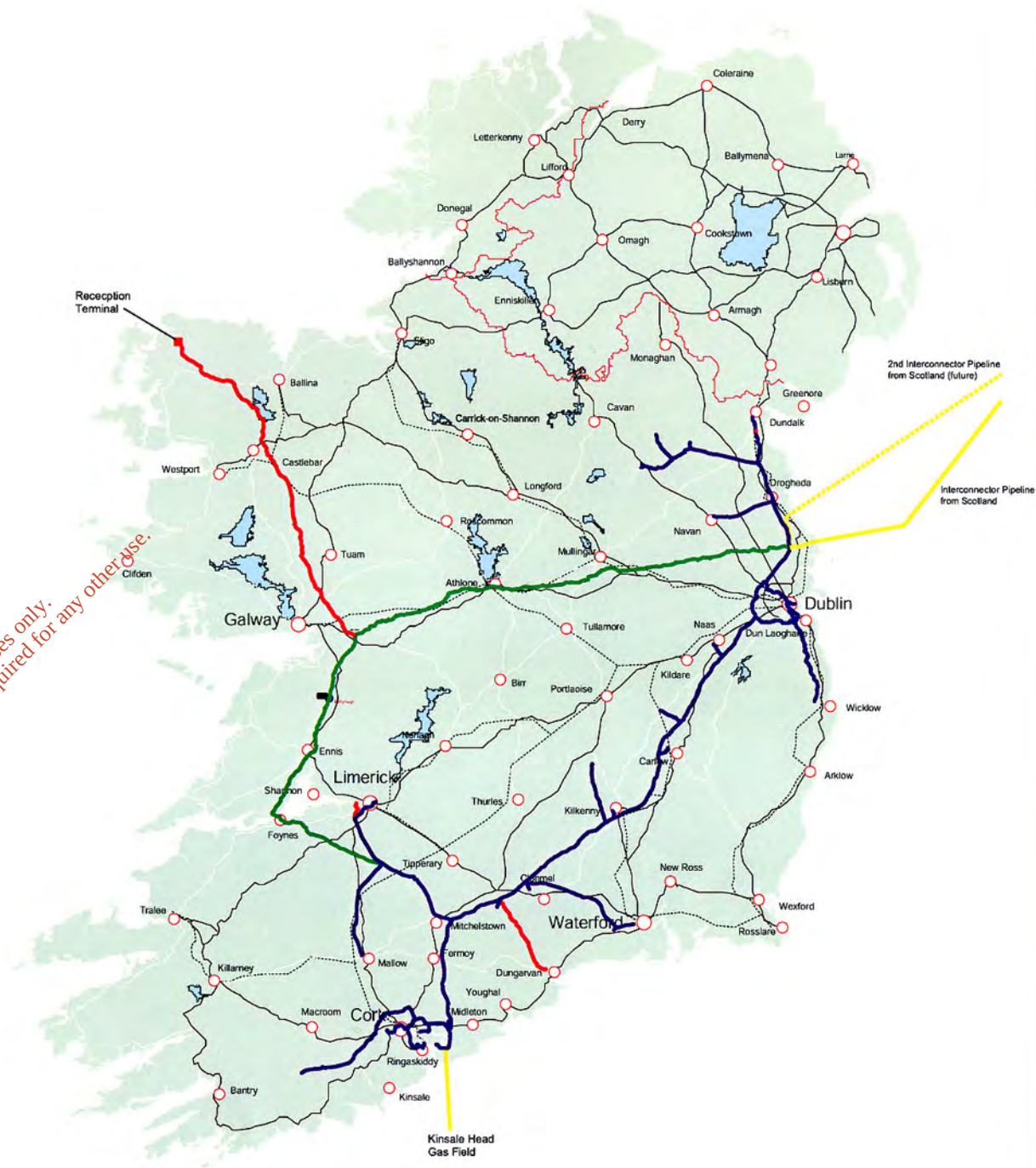
MAYO TO GALWAY PIPELINE			
Title: TYPICAL LAYOUT OF A BLOCK VALVE STATION WITH PIG TRAP			
Scale: N.T.S.	Date: 25.04.01	Drawn By: EG	
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Dr. No.: Figure 5.2	Rev. A



 BORD GÁIS	MAYO TO GALWAY PIPELINE		
	Title: TYPICAL LAYOUT OF A BLOCK VALVE STATION		
ARUP	Scale: N.T.S.	Date: 25.04.01	Drawn By: EG
	Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.: Figure 5.3 Rev. A

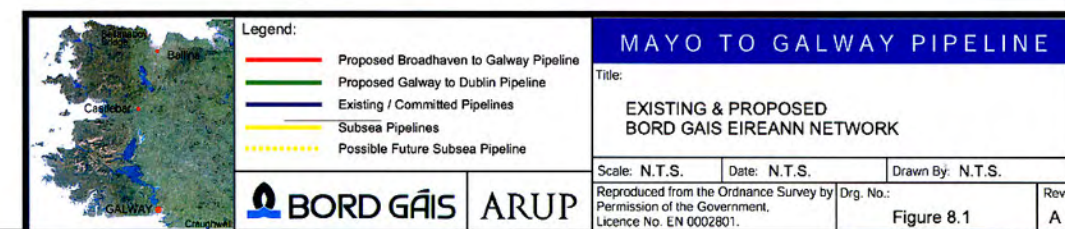


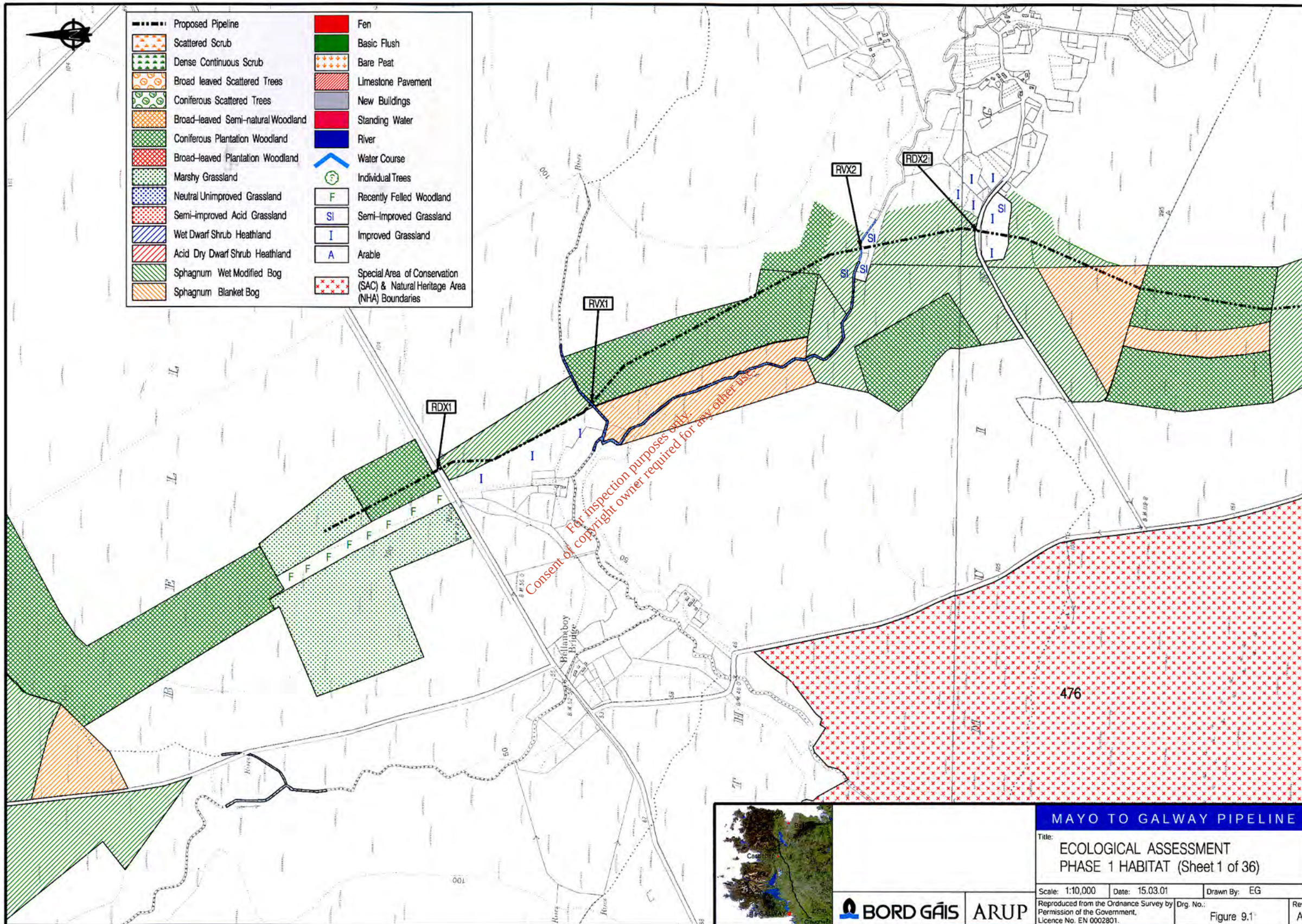
Existing Bord Gáis Eireann Transmission Network

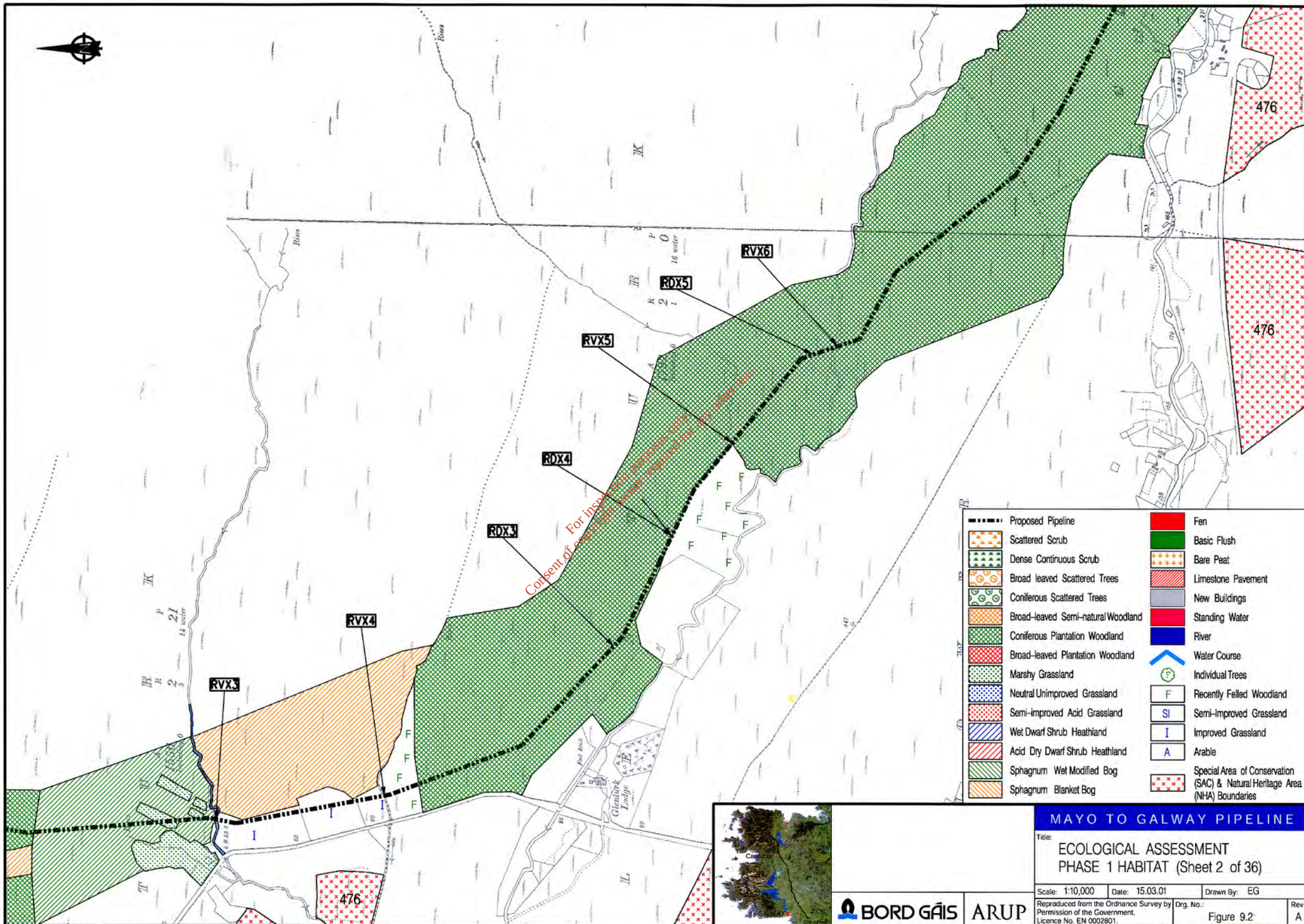


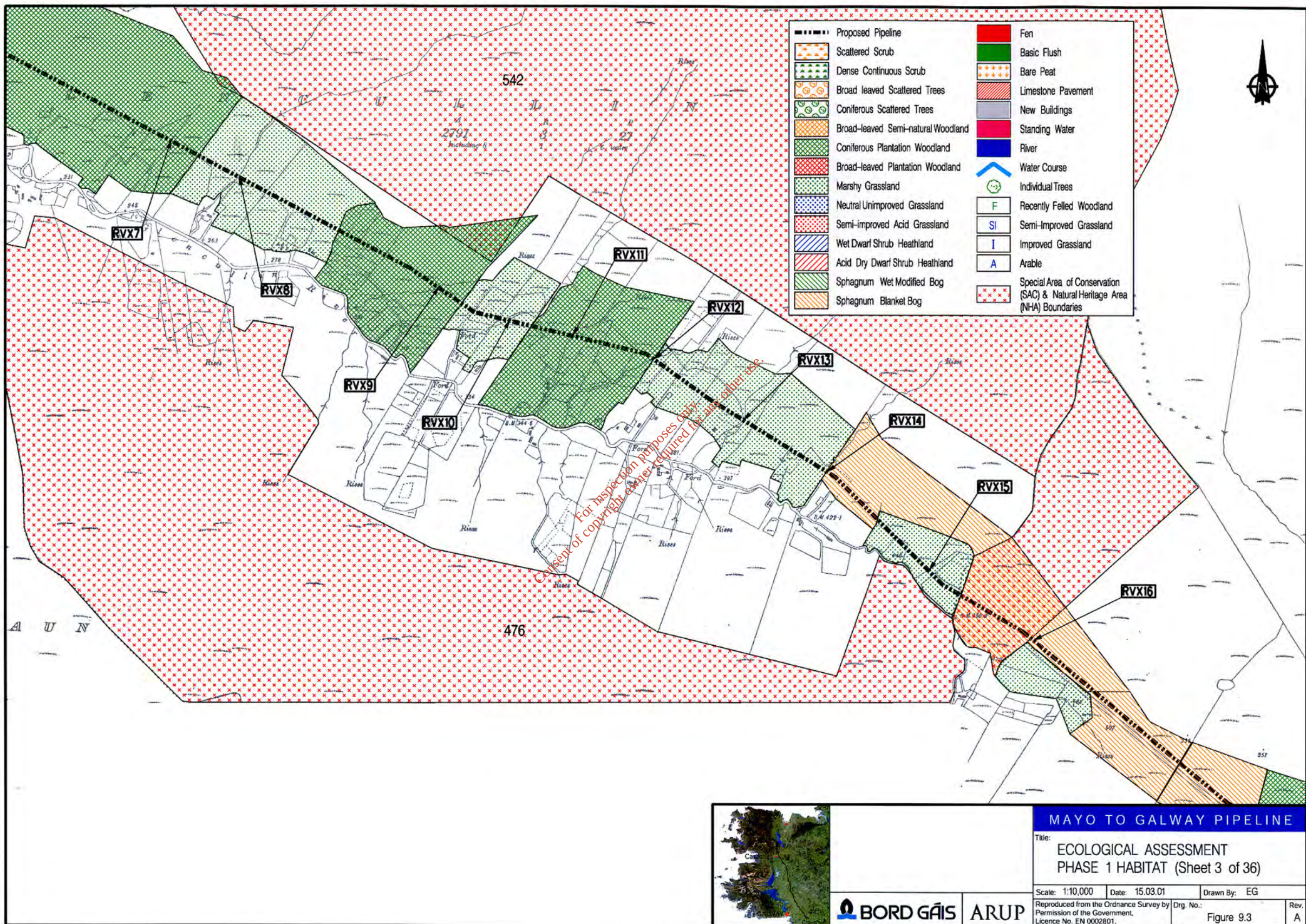
Proposed Bord Gáis Eireann Network

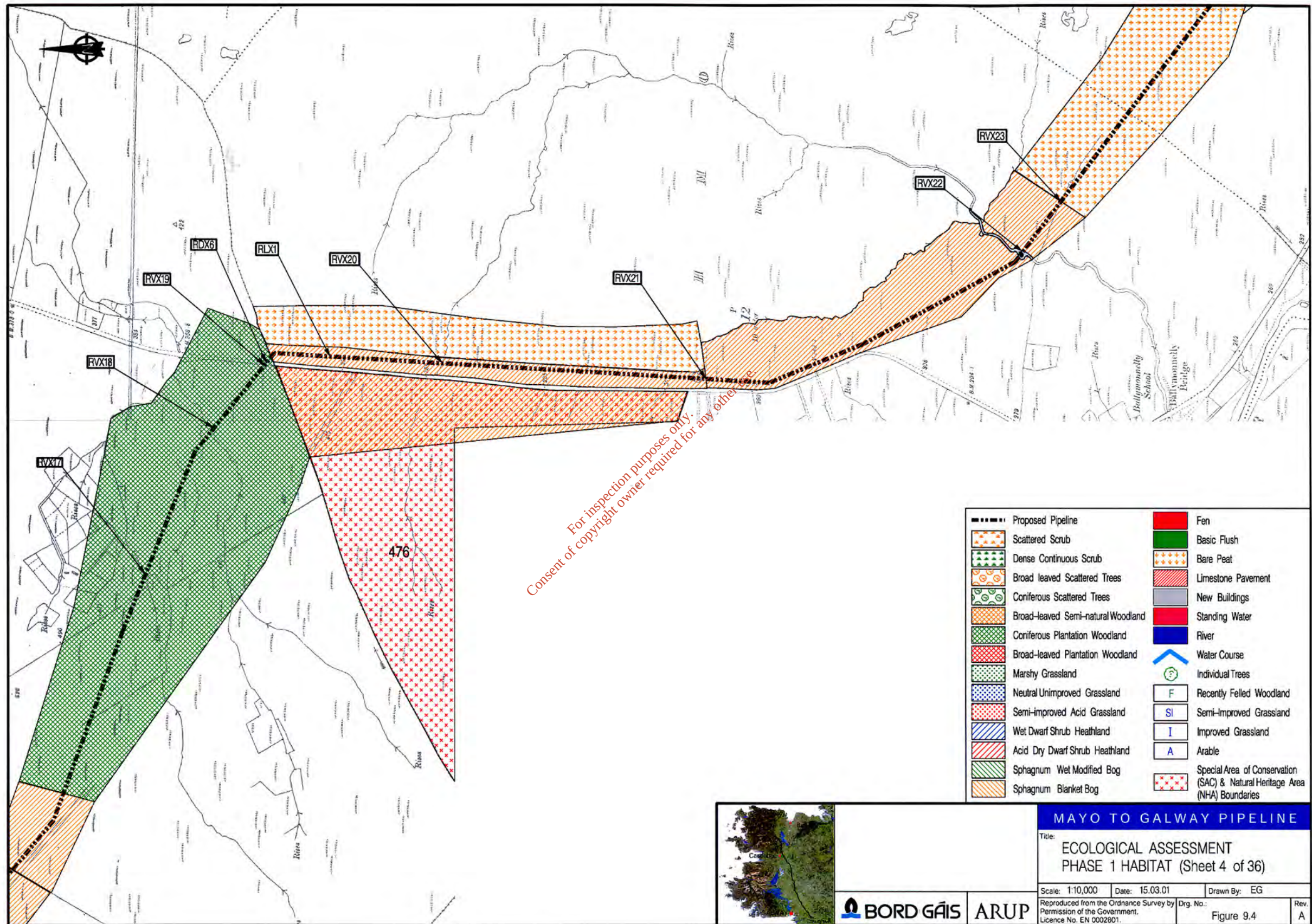
For inspection purposes only.
Consent of copyright owner required for any other use.

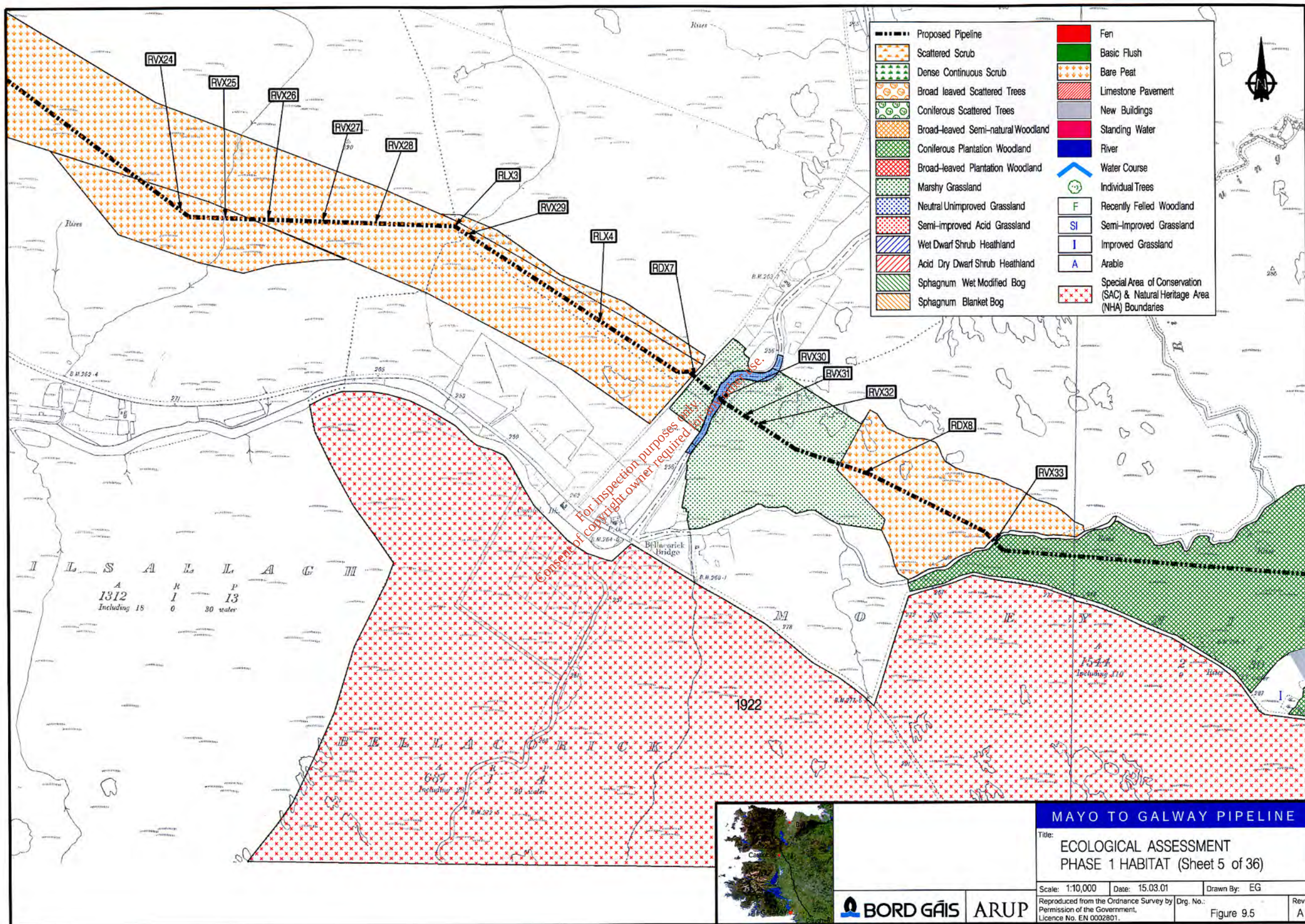


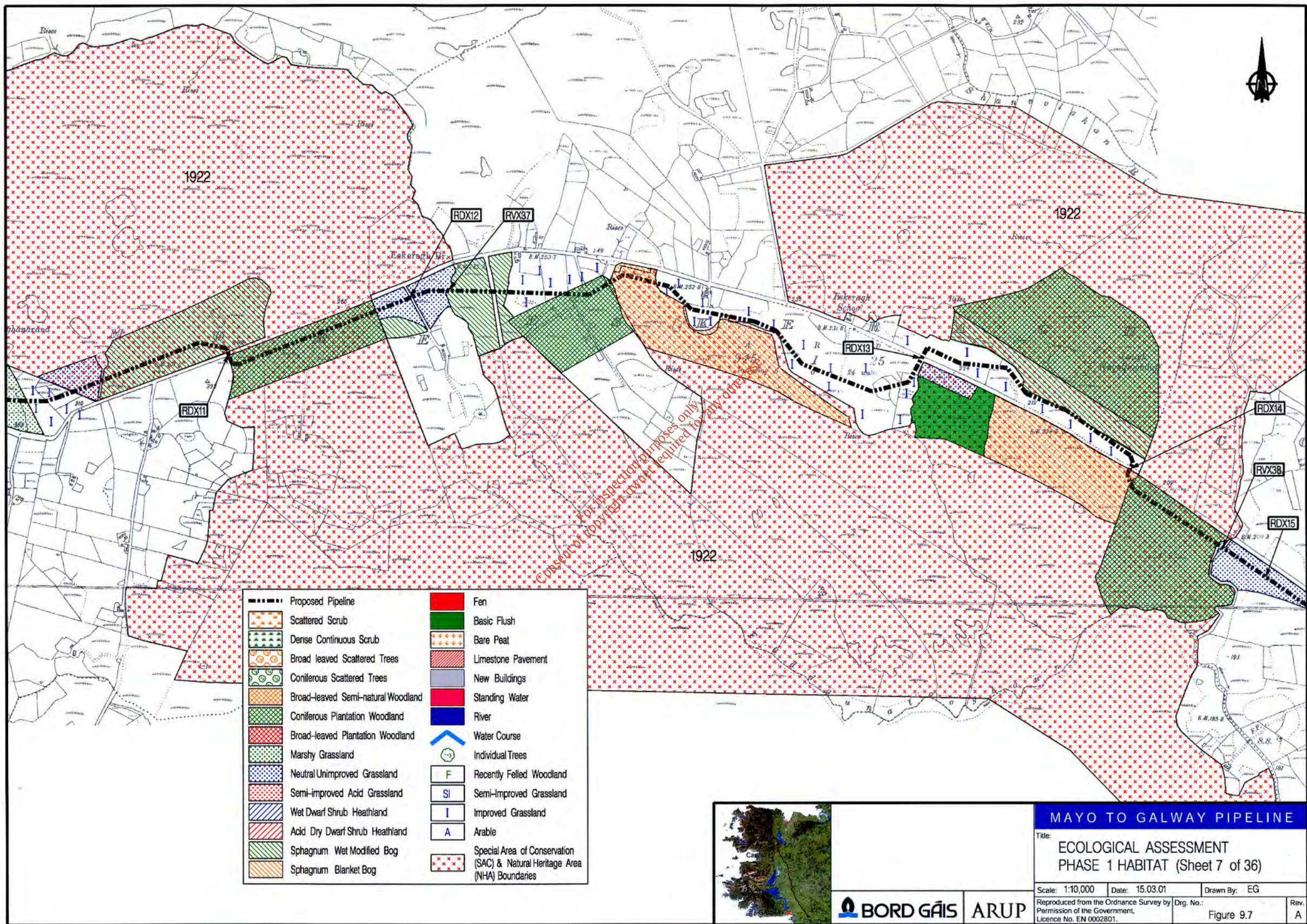








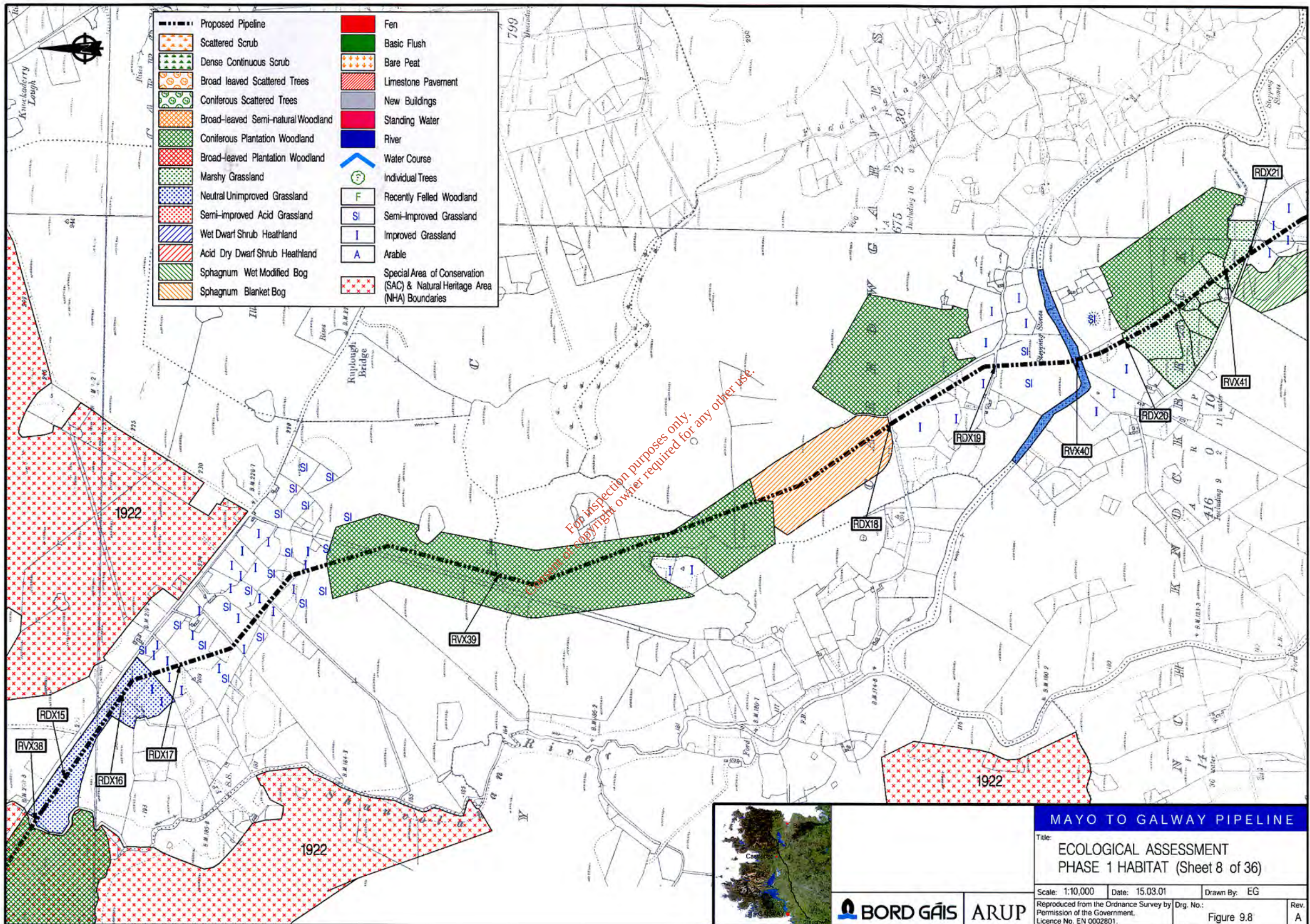


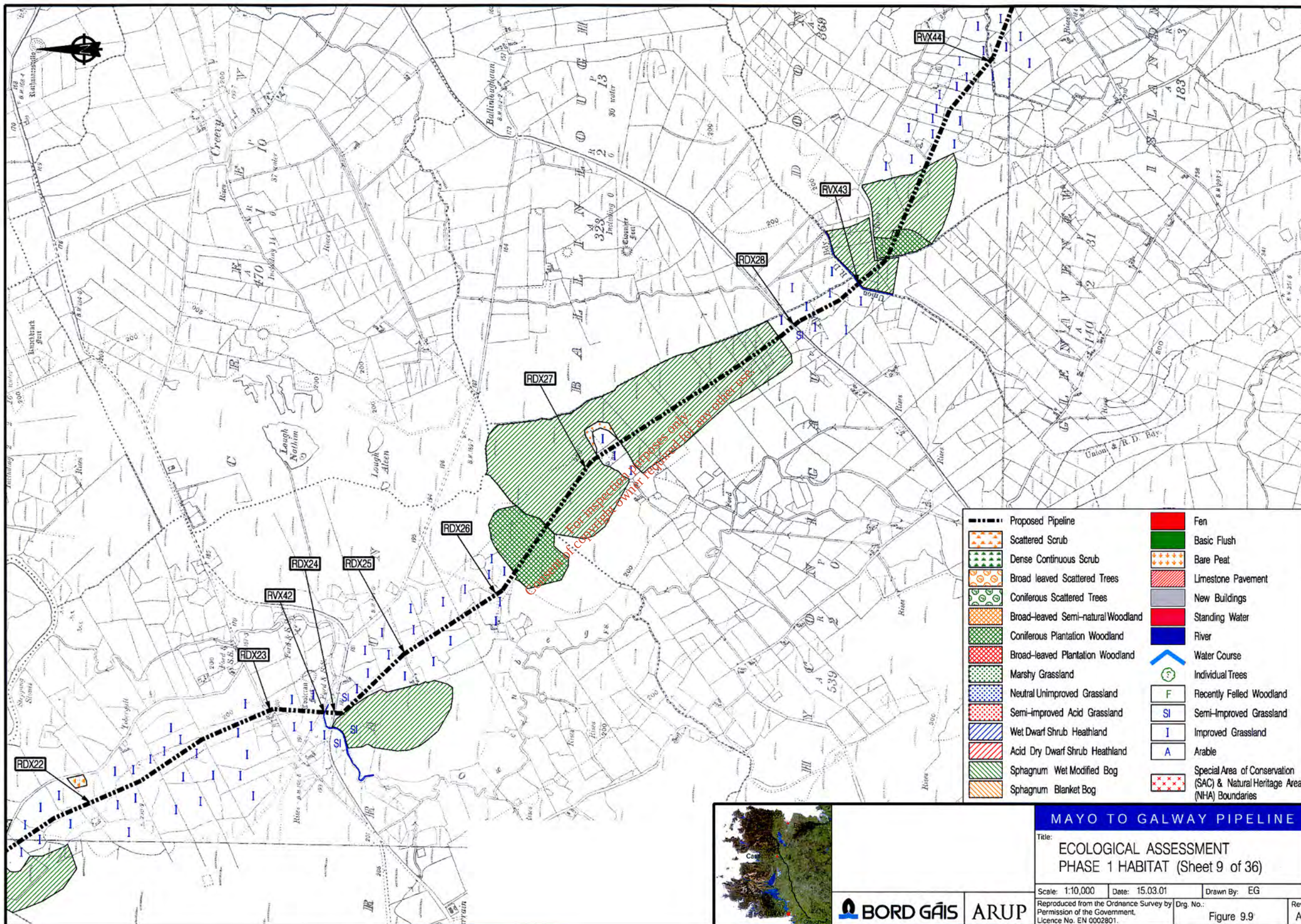


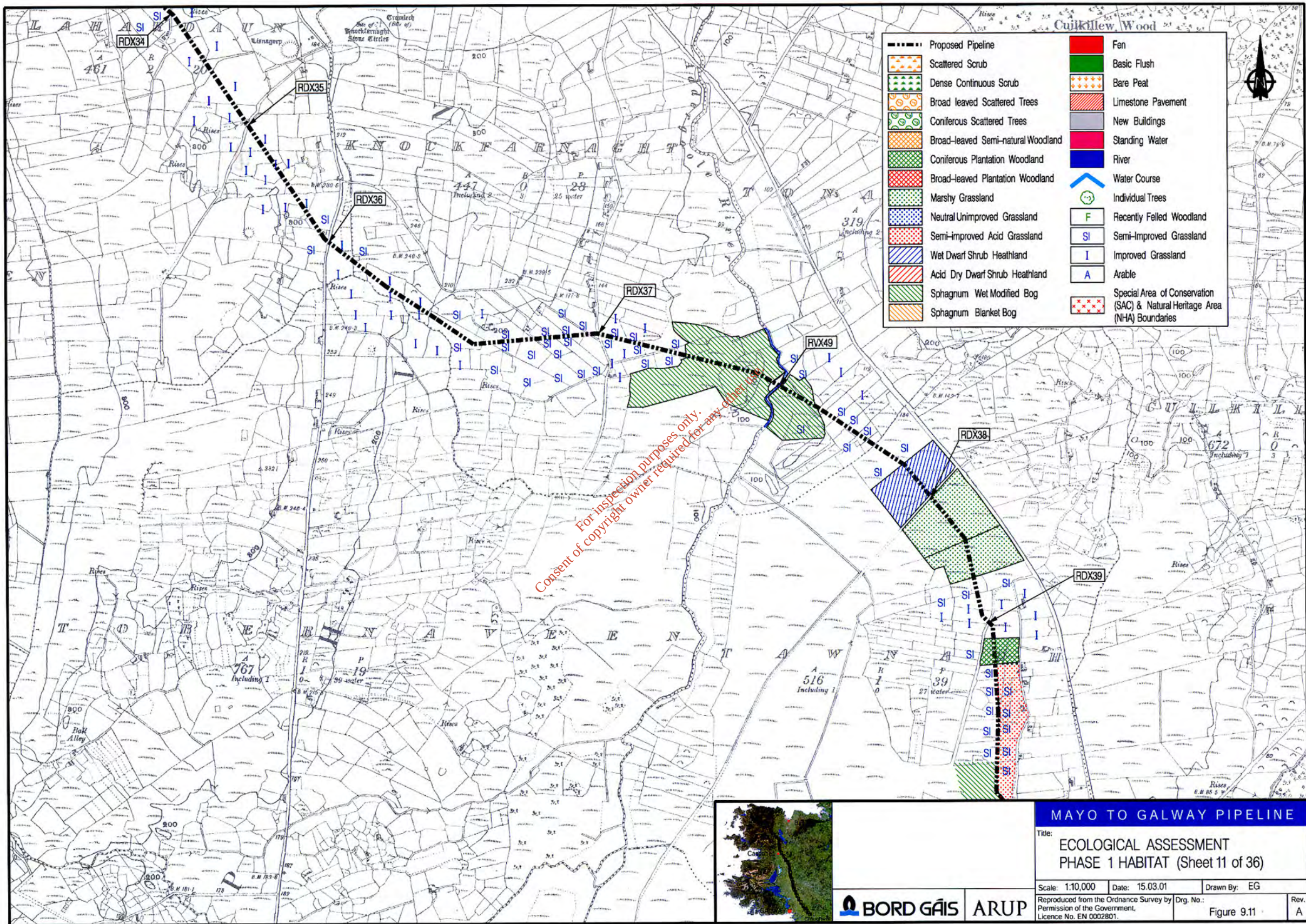
	Proposed Pipeline		Fen
	Scattered Scrub		Basic Flush
	Dense Continuous Scrub		Bare Peat
	Broad leaved Scattered Trees		Limestone Pavement
	Coniferous Scattered Trees		New Buildings
	Broad-leaved Semi-natural Woodland		Standing Water
	Coniferous Plantation Woodland		River
	Broad-leaved Plantation Woodland		Water Course
	Marshy Grassland		Individual Trees
	Neutral Unimproved Grassland		Recently Felled Woodland
	Semi-improved Acid Grassland		Semi-Improved Grassland
	Wet Dwarf Shrub Heathland		Improved Grassland
	Acid Dry Dwarf Shrub Heathland		Arable
	Sphagnum Wet Modified Bog		Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries
	Sphagnum Blanket Bog		



MAYO TO GALWAY PIPELINE			
Title: ECOLOGICAL ASSESSMENT PHASE 1 HABITAT (Sheet 7 of 36)			
Scale: 1:10,000	Date: 15.03.01	Drawn By: EG	
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Figure 9.7	
		Rev. A	







- | | | | |
|----------|------------------------------------|----------|---|
| ----- | Proposed Pipeline | [Red] | Fen |
| [Orange] | Scattered Scrub | [Green] | Basic Flush |
| [Green] | Dense Continuous Scrub | [Orange] | Bare Peat |
| [Orange] | Broad leaved Scattered Trees | [Red] | Limestone Pavement |
| [Green] | Coniferous Scattered Trees | [Grey] | New Buildings |
| [Orange] | Broad-leaved Semi-natural Woodland | [Red] | Standing Water |
| [Green] | Coniferous Plantation Woodland | [Blue] | River |
| [Red] | Broad-leaved Plantation Woodland | [Blue] | Water Course |
| [Green] | Marshy Grassland | [Green] | Individual Trees |
| [Blue] | Neutral Unimproved Grassland | [F] | Recently Felled Woodland |
| [Red] | Semi-improved Acid Grassland | [SI] | Semi-Improved Grassland |
| [Blue] | Wet Dwarf Shrub Heathland | [I] | Improved Grassland |
| [Red] | Acid Dry Dwarf Shrub Heathland | [A] | Arable |
| [Green] | Sphagnum Wet Modified Bog | [Red] | Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries |
| [Orange] | Sphagnum Blanket Bog | | |



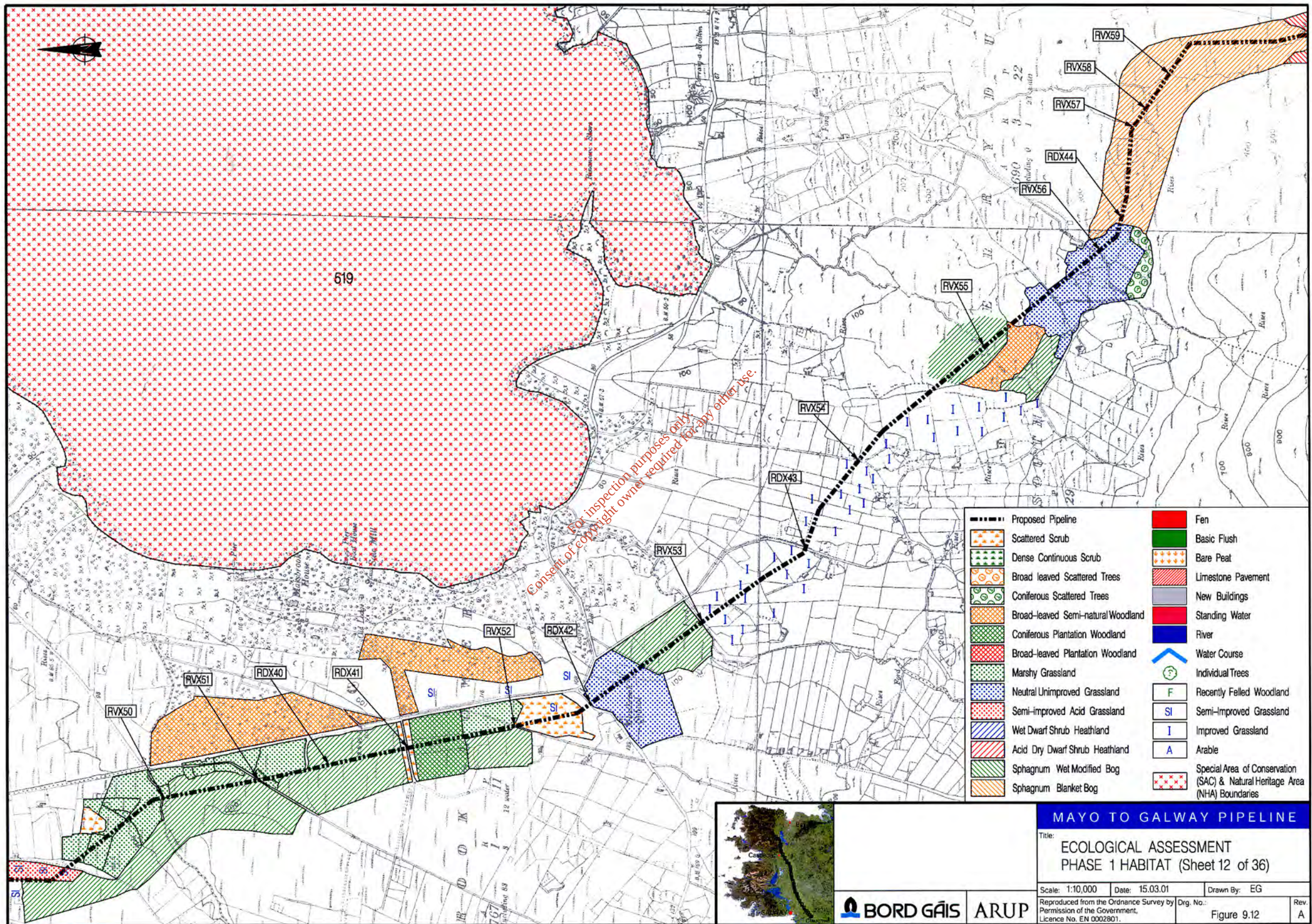
MAYO TO GALWAY PIPELINE

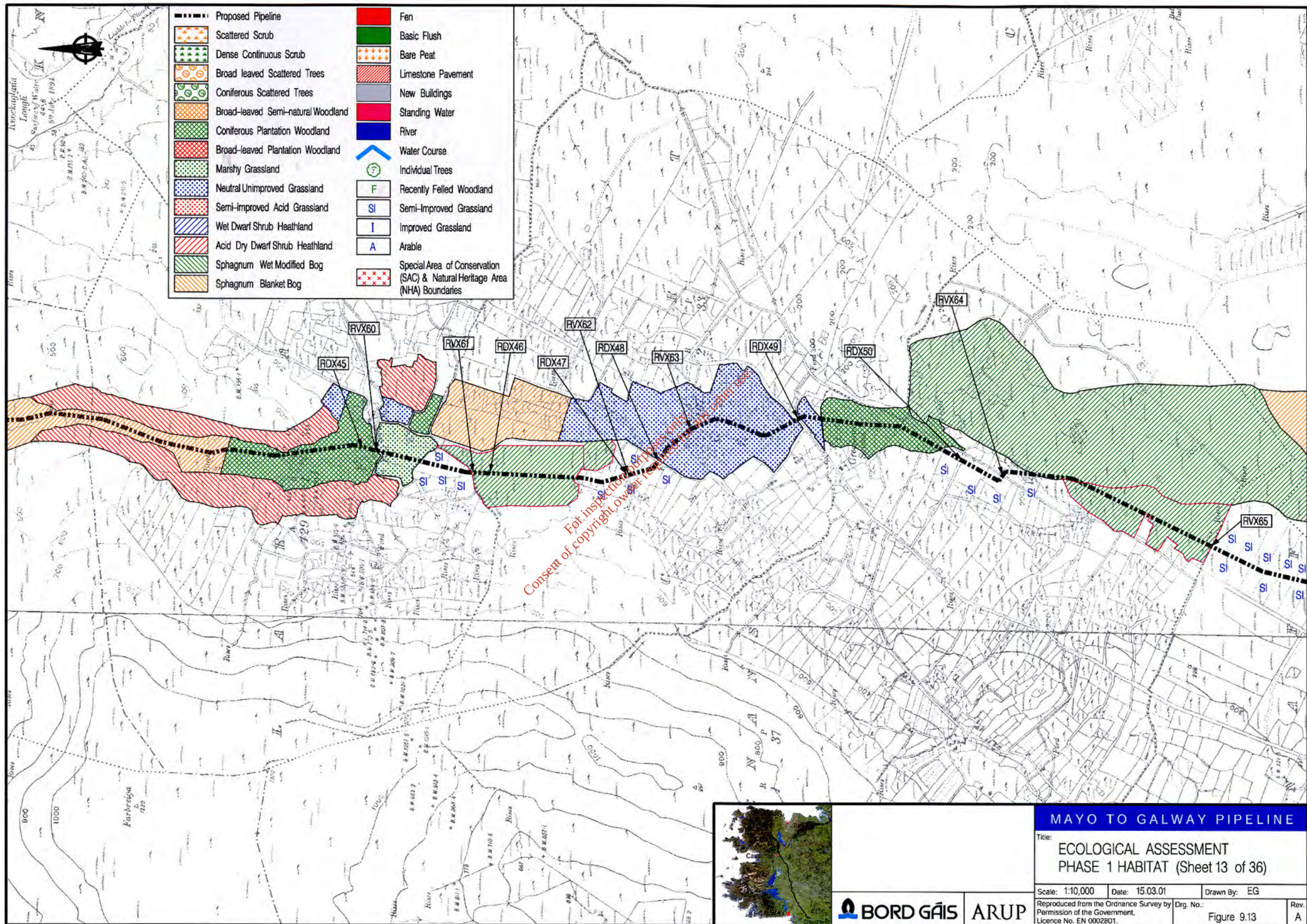
Title:
**ECOLOGICAL ASSESSMENT
PHASE 1 HABITAT (Sheet 11 of 36)**

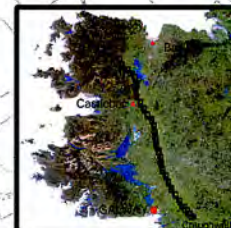
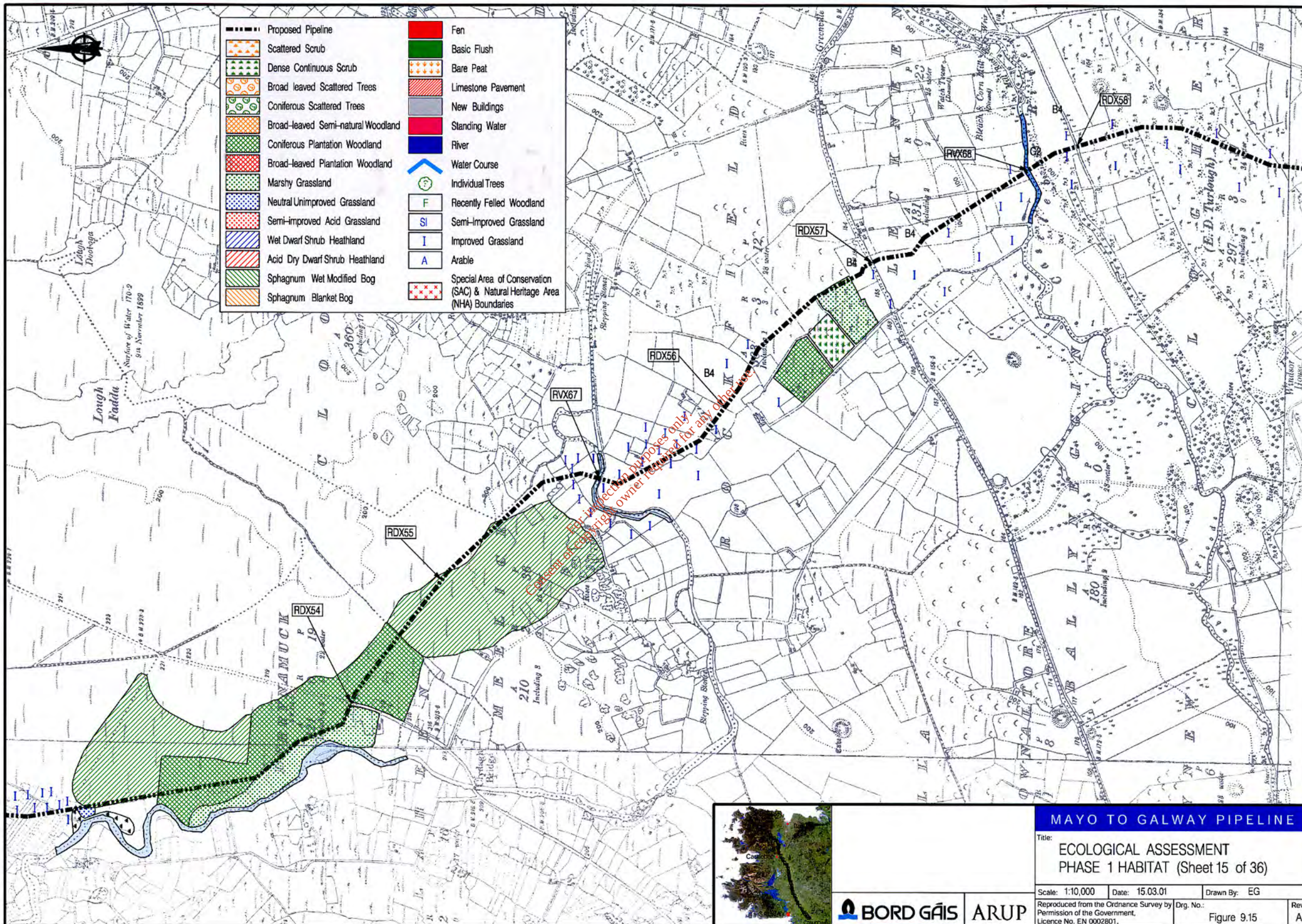
Scale: 1:10,000	Date: 15.03.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Rev. A

BORD GÁIS **ARUP**

Figure 9.11





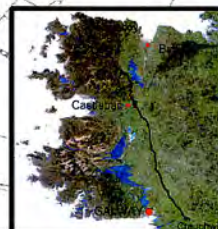
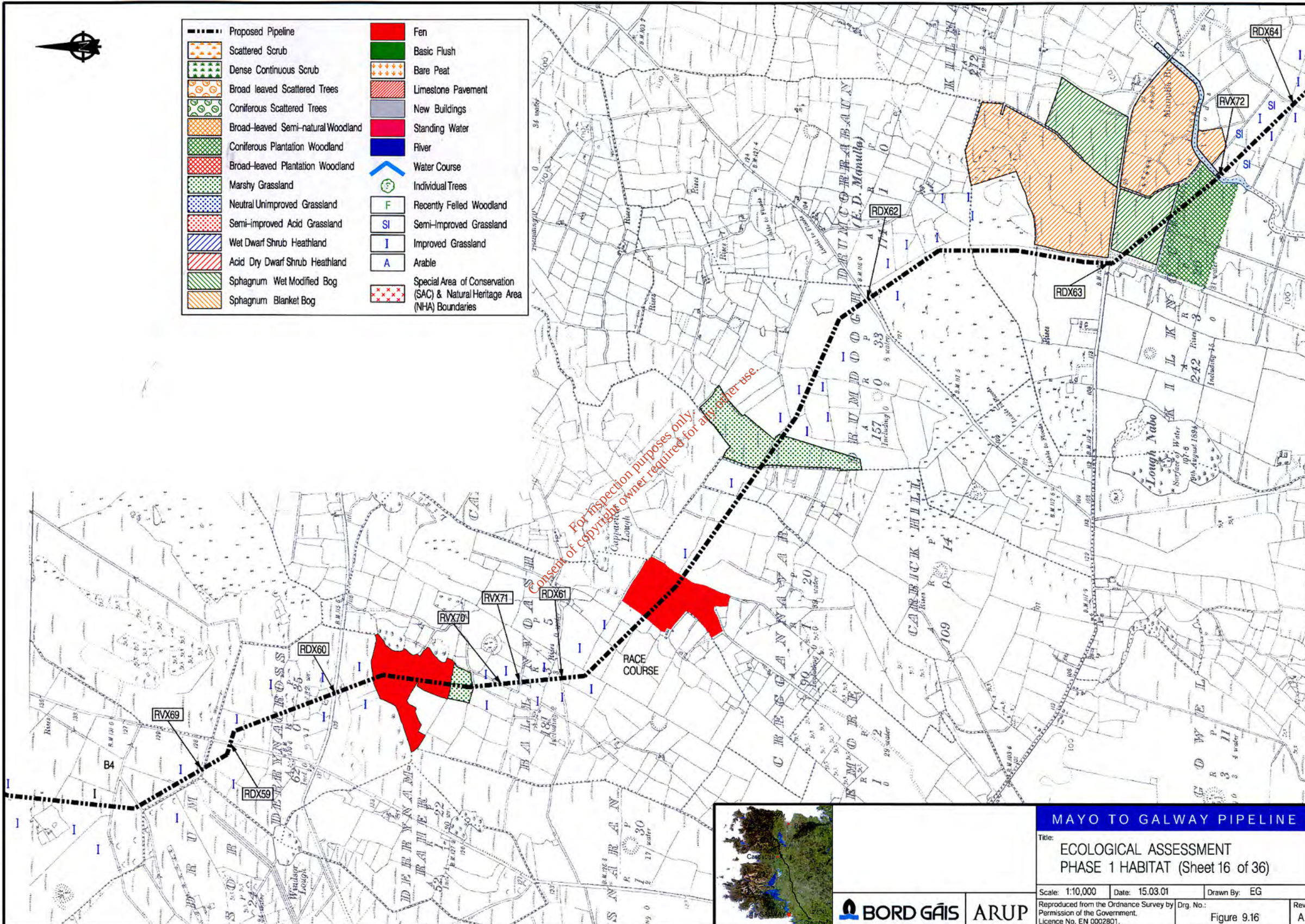


MAYO TO GALWAY PIPELINE			
Title: ECOLOGICAL ASSESSMENT PHASE 1 HABITAT (Sheet 15 of 36)			
Scale: 1:10,000	Date: 15.03.01	Drawn By: EG	
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.:	Rev. A
		Figure 9.15	

BORD GÁIS **ARUP**



-----	Proposed Pipeline		Fen
[Orange dots]	Scattered Scrub		Basic Flush
[Green dots]	Dense Continuous Scrub	[Orange stars]	Bare Peat
[Orange circles]	Broad leaved Scattered Trees	[Red diagonal lines]	Limestone Pavement
[Green circles]	Coniferous Scattered Trees	[Grey rectangle]	New Buildings
[Orange squares]	Broad-leaved Semi-natural Woodland	[Red rectangle]	Standing Water
[Green squares]	Coniferous Plantation Woodland	[Blue rectangle]	River
[Red squares]	Broad-leaved Plantation Woodland	[Blue line]	Water Course
[Green cross-hatch]	Marshy Grassland	[Green circle with cross]	Individual Trees
[Blue cross-hatch]	Neutral Unimproved Grassland	[F in box]	Recently Felled Woodland
[Red cross-hatch]	Semi-improved Acid Grassland	[SI in box]	Semi-Improved Grassland
[Blue diagonal lines]	Wet Dwarf Shrub Heathland	[I in box]	Improved Grassland
[Red diagonal lines]	Acid Dry Dwarf Shrub Heathland	[A in box]	Arable
[Green diagonal lines]	Sphagnum Wet Modified Bog		Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries
[Orange diagonal lines]	Sphagnum Blanket Bog		

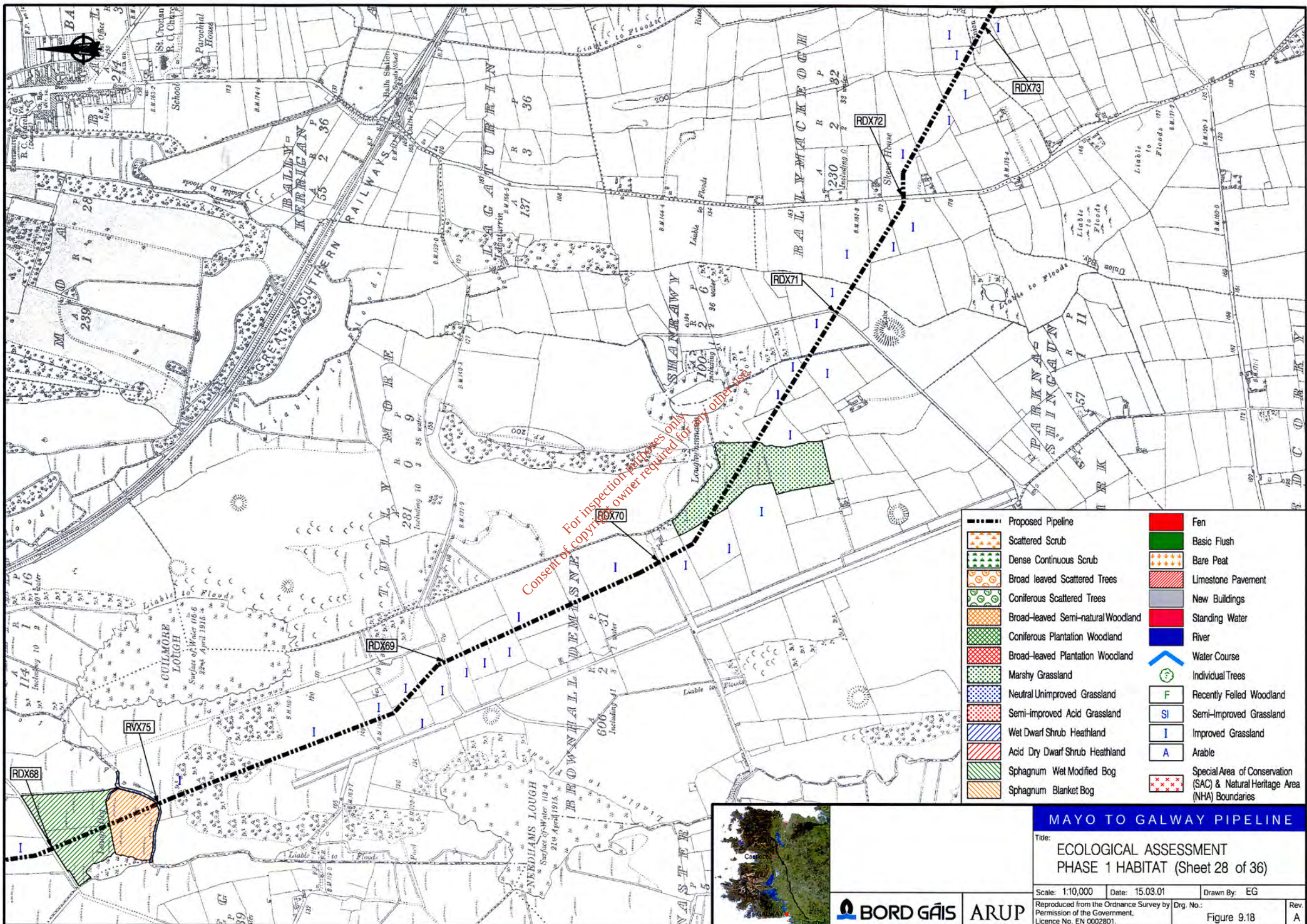


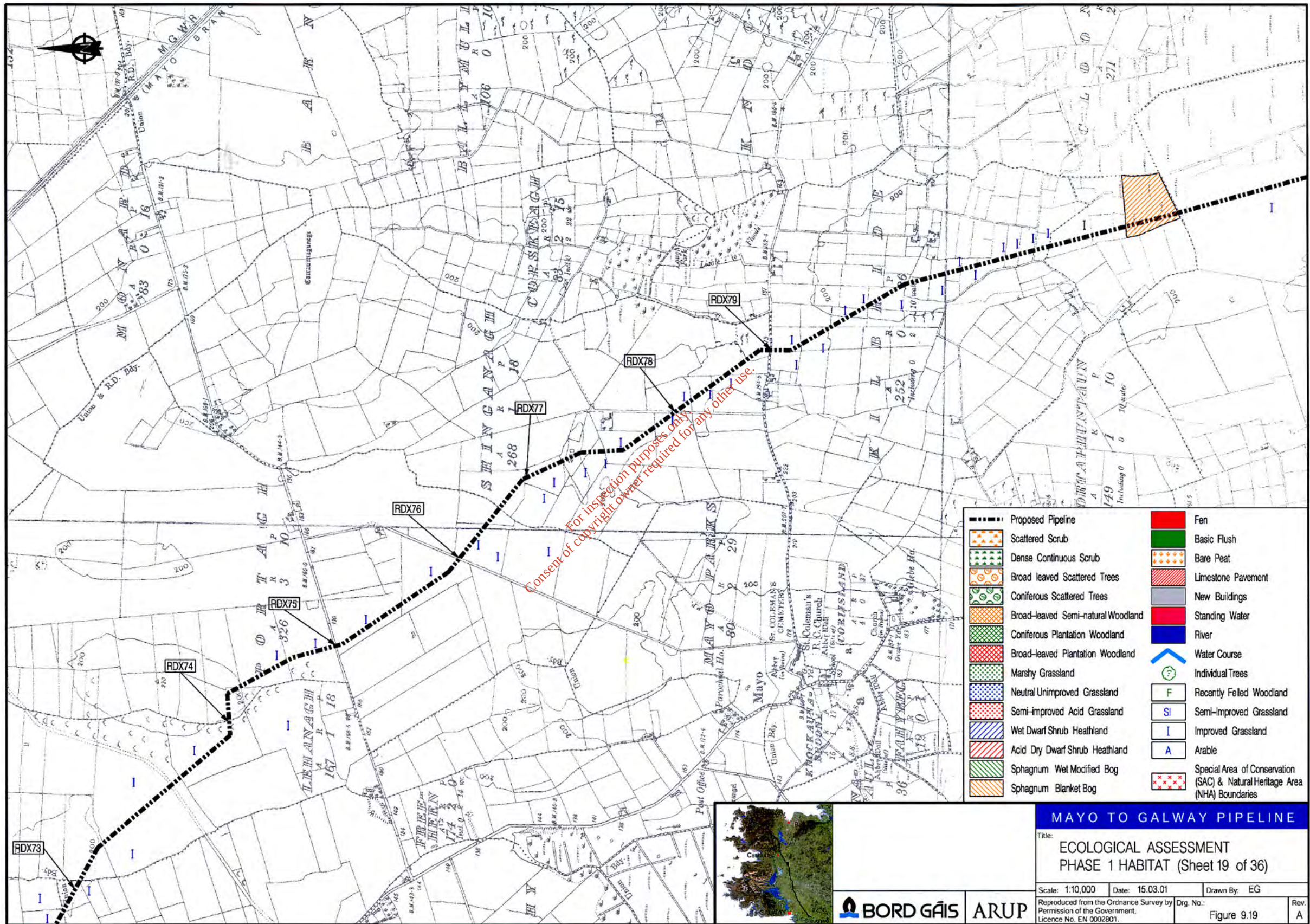
MAYO TO GALWAY PIPELINE

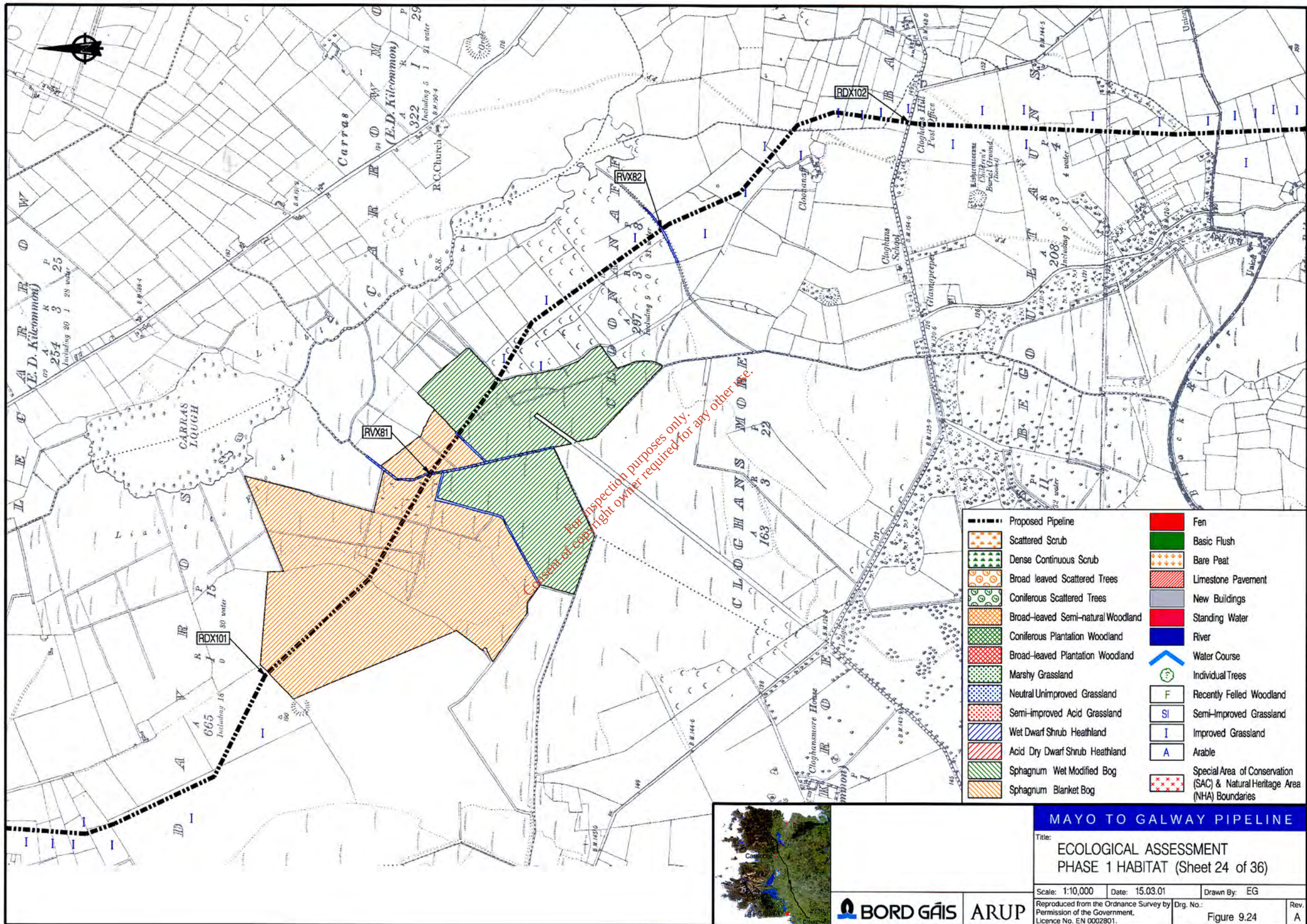
Title:
ECOLOGICAL ASSESSMENT
PHASE 1 HABITAT (Sheet 16 of 36)

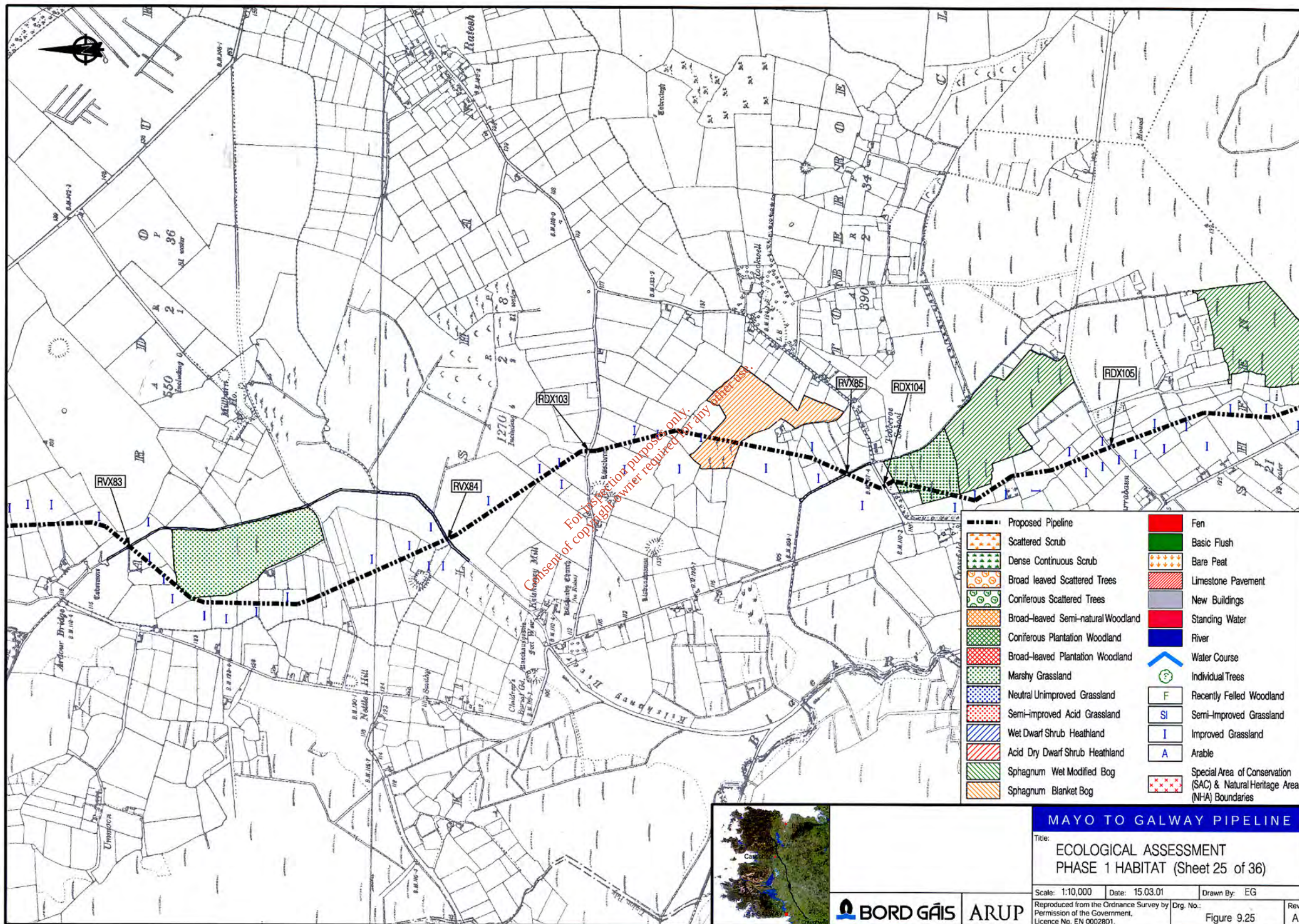
Scale: 1:10,000 Date: 15.03.01 Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government. Licence No. EN 0002801. Dr. No.:
Figure 9.16 Rev. A

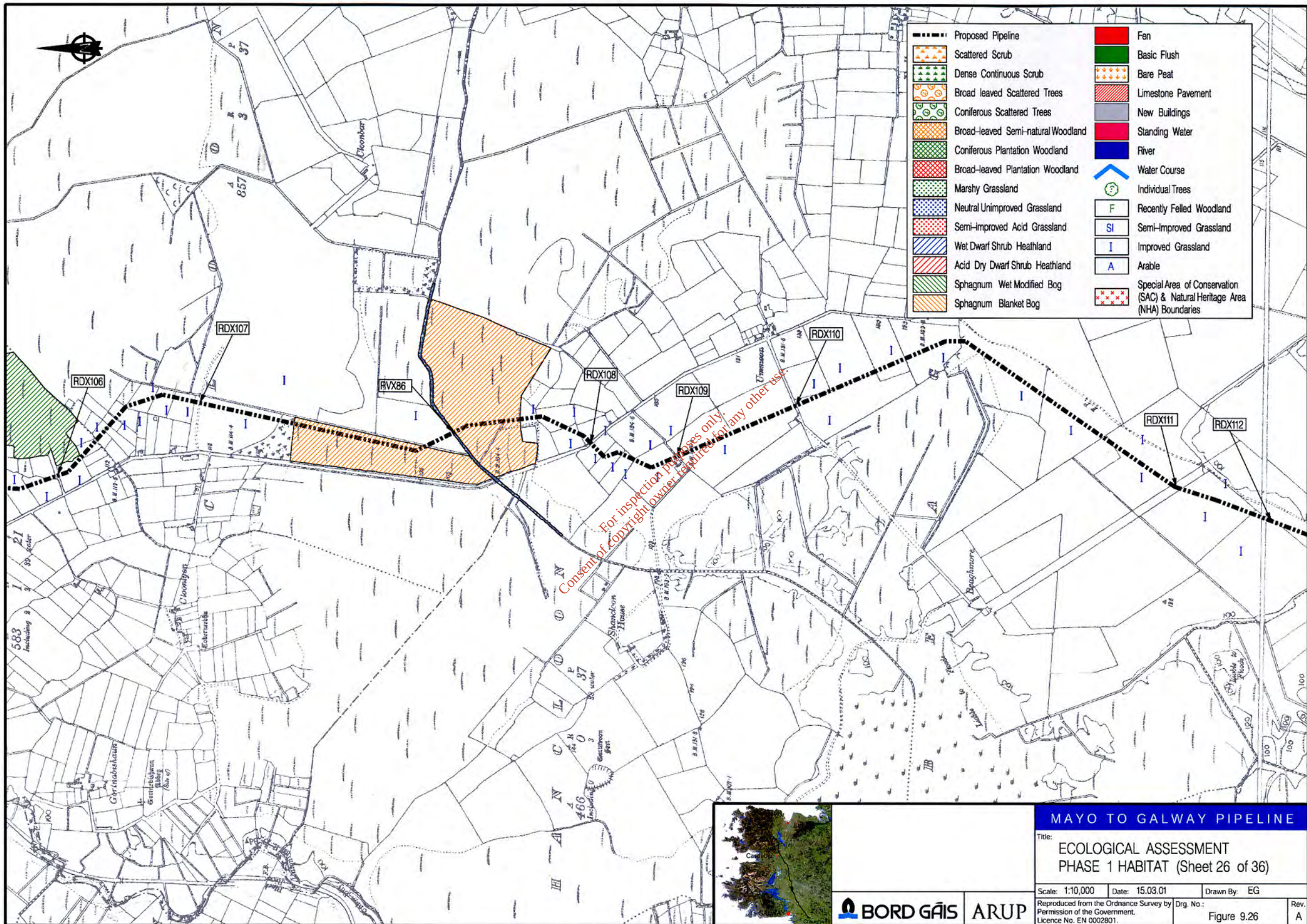




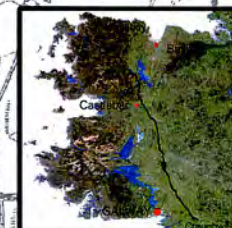




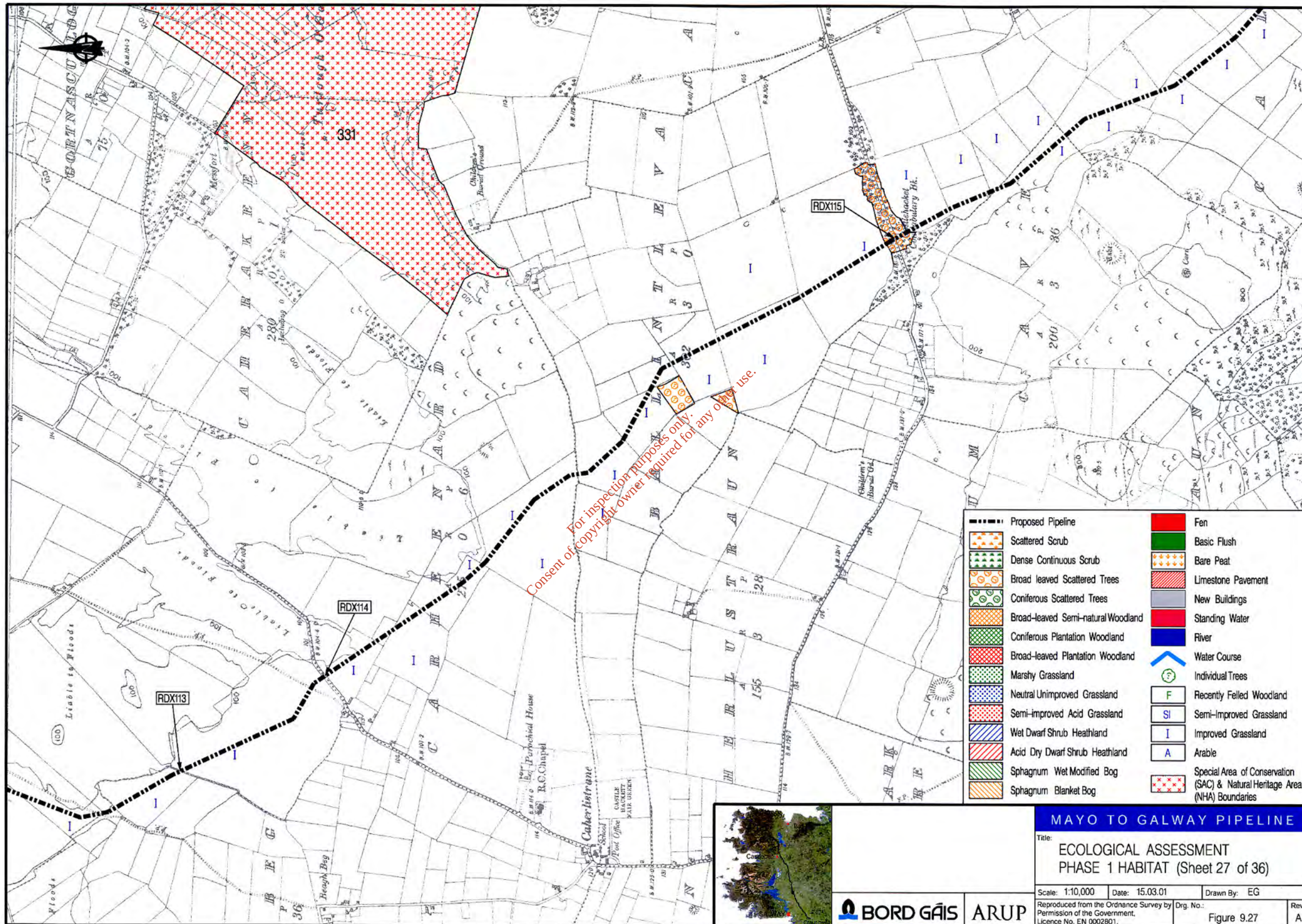




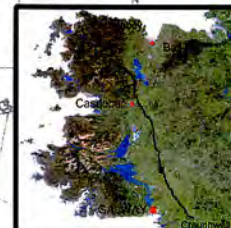
- | | |
|------------------------------------|---|
| Proposed Pipeline | Fen |
| Scattered Scrub | Basic Flush |
| Dense Continuous Scrub | Bare Peat |
| Broad leaved Scattered Trees | Limestone Pavement |
| Coniferous Scattered Trees | New Buildings |
| Broad-leaved Semi-natural Woodland | Standing Water |
| Coniferous Plantation Woodland | River |
| Broad-leaved Plantation Woodland | Water Course |
| Marshy Grassland | Individual Trees |
| Neutral Unimproved Grassland | Recently Felled Woodland |
| Semi-improved Acid Grassland | Semi-Improved Grassland |
| Wet Dwarf Shrub Heathland | Improved Grassland |
| Acid Dry Dwarf Shrub Heathland | Arable |
| Sphagnum Wet Modified Bog | Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries |
| Sphagnum Blanket Bog | |



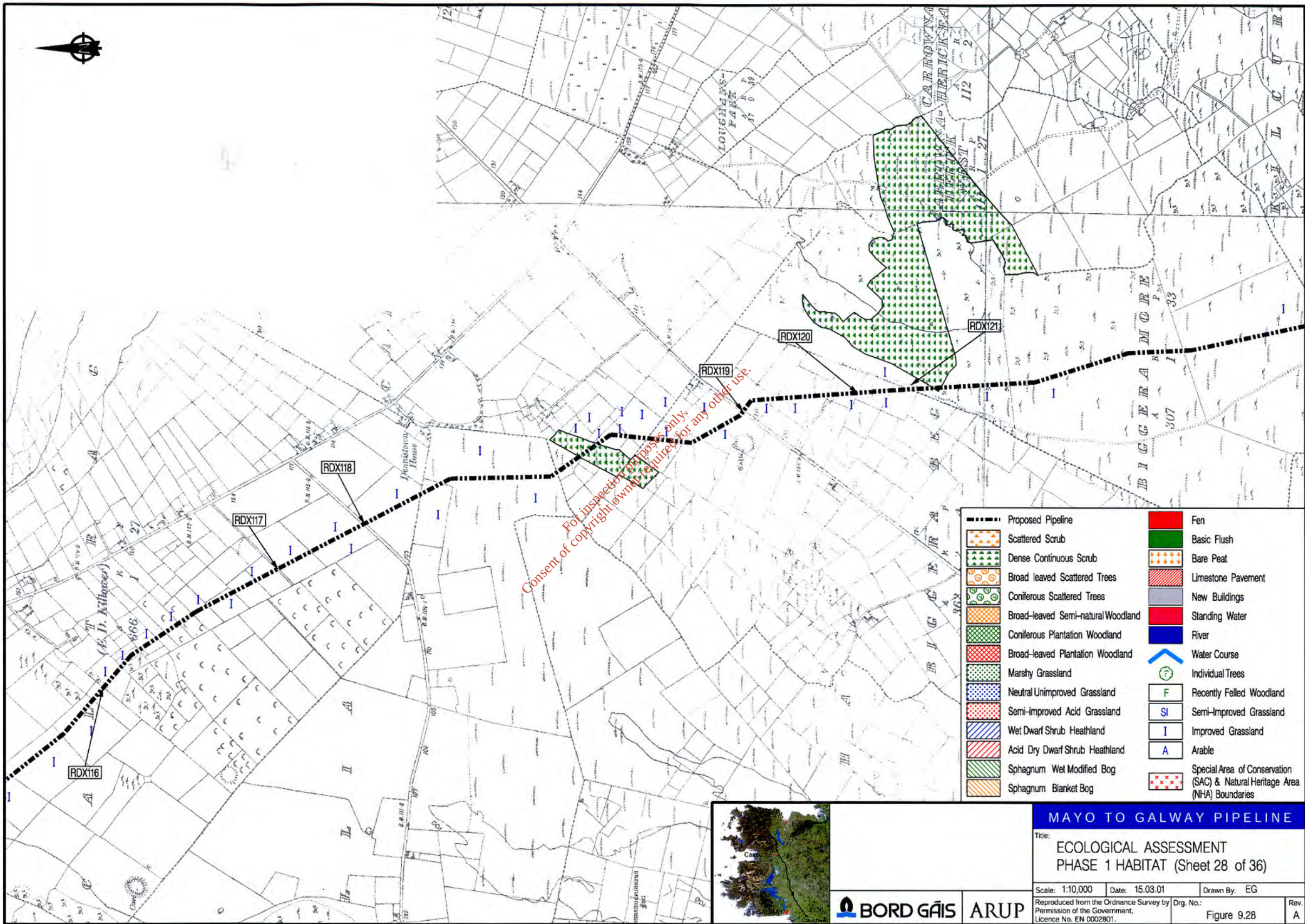
MAYO TO GALWAY PIPELINE			
Title: ECOLOGICAL ASSESSMENT PHASE 1 HABITAT (Sheet 26 of 36)			
Scale: 1:10,000	Date: 15.03.01	Drawn By: EG	
Reproduced from the Ordnance Survey by Permission of the Government. Licence No. EN 0002801.		Drg. No.:	Rev. A
BORD GÁIS ARUP		Figure 9.26	



- | | |
|------------------------------------|---|
| ----- Proposed Pipeline | Fen |
| Scattered Scrub | Basic Flush |
| Dense Continuous Scrub | Bare Peat |
| Broad leaved Scattered Trees | Limestone Pavement |
| Coniferous Scattered Trees | New Buildings |
| Broad-leaved Semi-natural Woodland | Standing Water |
| Coniferous Plantation Woodland | River |
| Broad-leaved Plantation Woodland | Water Course |
| Marshy Grassland | Individual Trees |
| Neutral Unimproved Grassland | Recently Felled Woodland |
| Semi-improved Acid Grassland | Semi-improved Grassland |
| Wet Dwarf Shrub Heathland | Improved Grassland |
| Acid Dry Dwarf Shrub Heathland | Arable |
| Sphagnum Wet Modified Bog | Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries |
| Sphagnum Blanket Bog | |



MAYO TO GALWAY PIPELINE			
Title: ECOLOGICAL ASSESSMENT PHASE 1 HABITAT (Sheet 27 of 36)			
Scale: 1:10,000	Date: 15.03.01	Drawn By: EG	Rev. A
Reproduced from the Ordnance Survey by permission of the Government, Licence No. EN 0002801.			



For inspection purposes only.
Consent of copyright owner required for any other use.

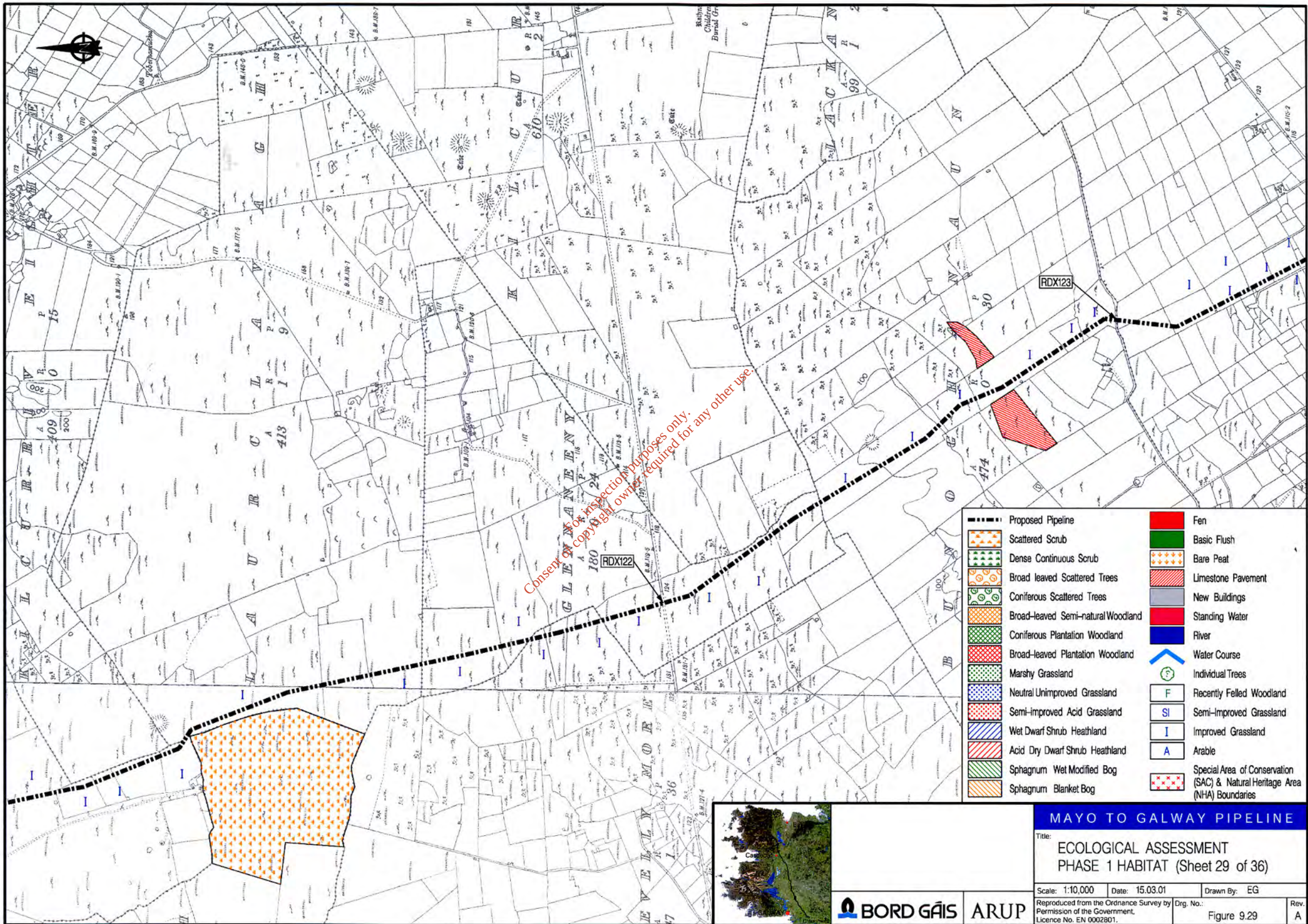
- | | |
|------------------------------------|---|
| --- Proposed Pipeline | Fen |
| Scattered Scrub | Basic Flush |
| Dense Continuous Scrub | Bare Peat |
| Broad leaved Scattered Trees | Limestone Pavement |
| Coniferous Scattered Trees | New Buildings |
| Broad-leaved Semi-natural Woodland | Standing Water |
| Coniferous Plantation Woodland | River |
| Broad-leaved Plantation Woodland | Water Course |
| Marshy Grassland | Individual Trees |
| Neutral Unimproved Grassland | Recently Felled Woodland |
| Semi-improved Acid Grassland | Semi-Improved Grassland |
| Wet Dwarf Shrub Heathland | Improved Grassland |
| Acid Dry Dwarf Shrub Heathland | Arable |
| Sphagnum Wet Modified Bog | Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries |
| Sphagnum Blanket Bog | |



MAYO TO GALWAY PIPELINE

Title:
ECOLOGICAL ASSESSMENT
PHASE 1 HABITAT (Sheet 28 of 36)

Scale: 1:10,000	Date: 15.03.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.: Figure 9.28
BORD GÁIS ARUP		Rev. A



- | | |
|------------------------------------|---|
| --- Proposed Pipeline | Fen |
| Scattered Scrub | Basic Flush |
| Dense Continuous Scrub | Bare Peat |
| Broad leaved Scattered Trees | Limestone Pavement |
| Coniferous Scattered Trees | New Buildings |
| Broad-leaved Semi-natural Woodland | Standing Water |
| Coniferous Plantation Woodland | River |
| Broad-leaved Plantation Woodland | Water Course |
| Marshy Grassland | Individual Trees |
| Neutral Unimproved Grassland | Recently Felled Woodland |
| Semi-improved Acid Grassland | Semi-Improved Grassland |
| Wet Dwarf Shrub Heathland | Improved Grassland |
| Acid Dry Dwarf Shrub Heathland | Arable |
| Sphagnum Wet Modified Bog | Special Area of Conservation (SAC) & Natural Heritage Area (NHA) Boundaries |
| Sphagnum Blanket Bog | |



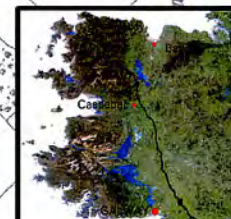
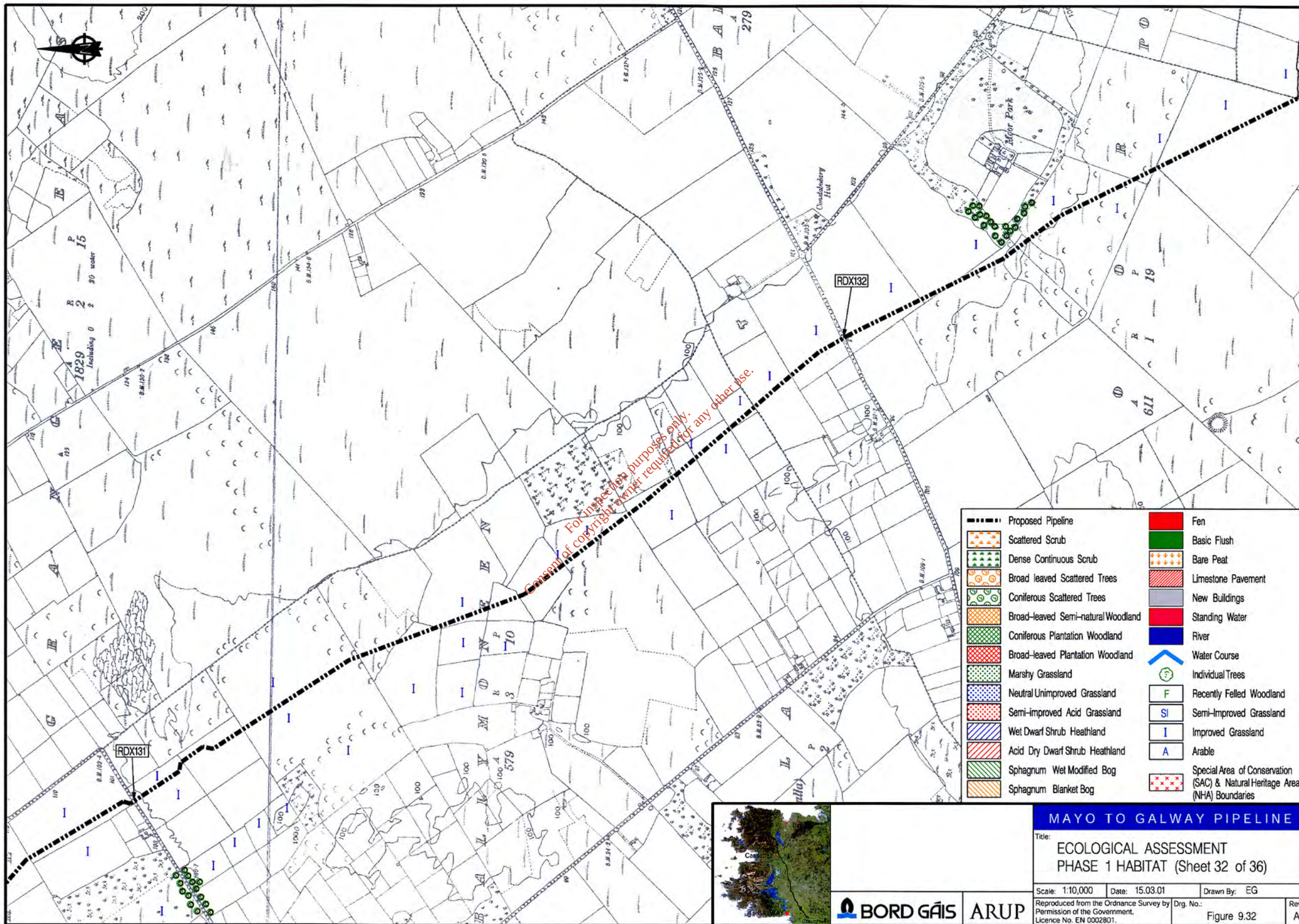
MAYO TO GALWAY PIPELINE

Title:
**ECOLOGICAL ASSESSMENT
PHASE 1 HABITAT (Sheet 29 of 36)**

Scale: 1:10,000	Date: 15.03.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Rev. A



Figure 9.29

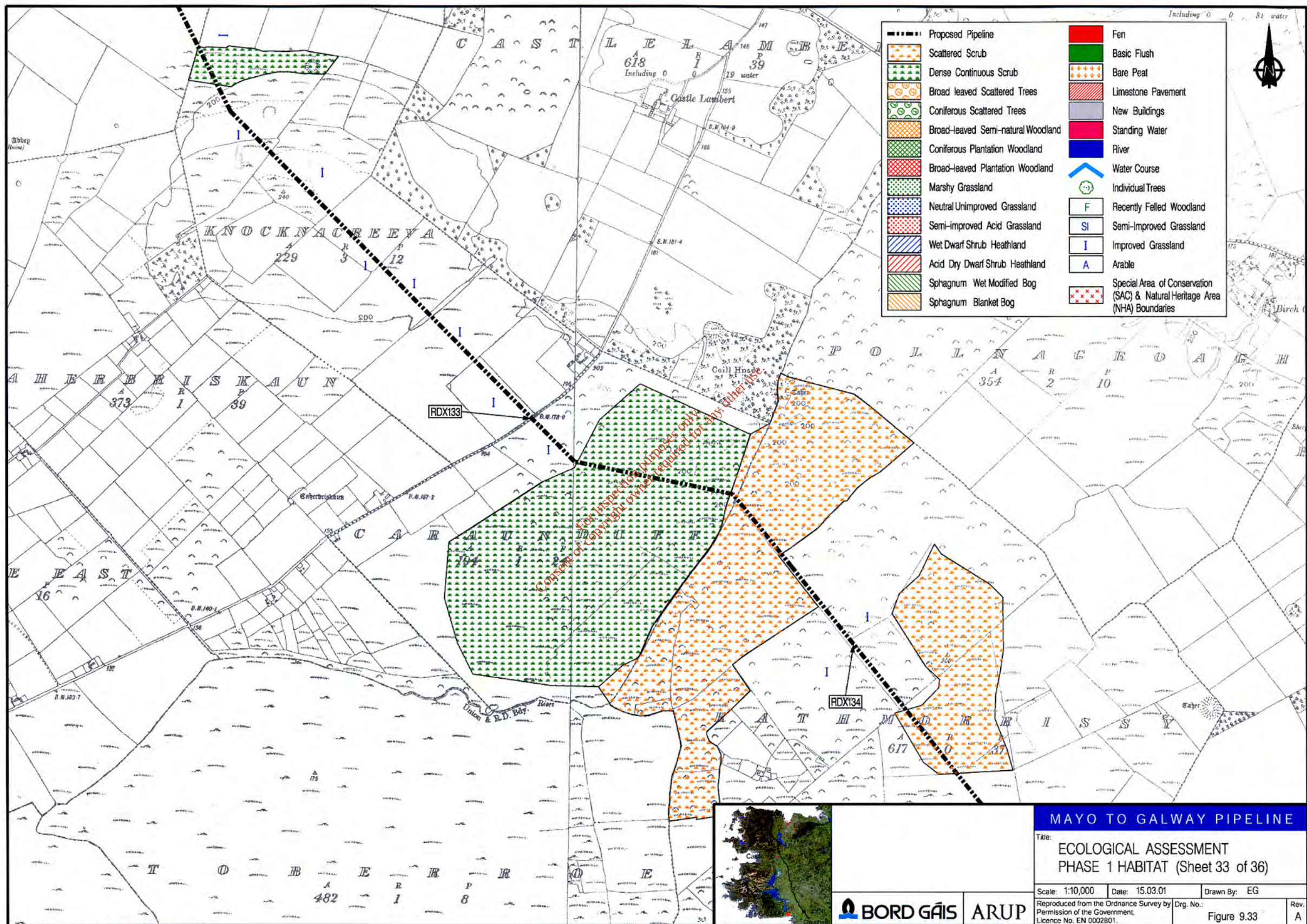


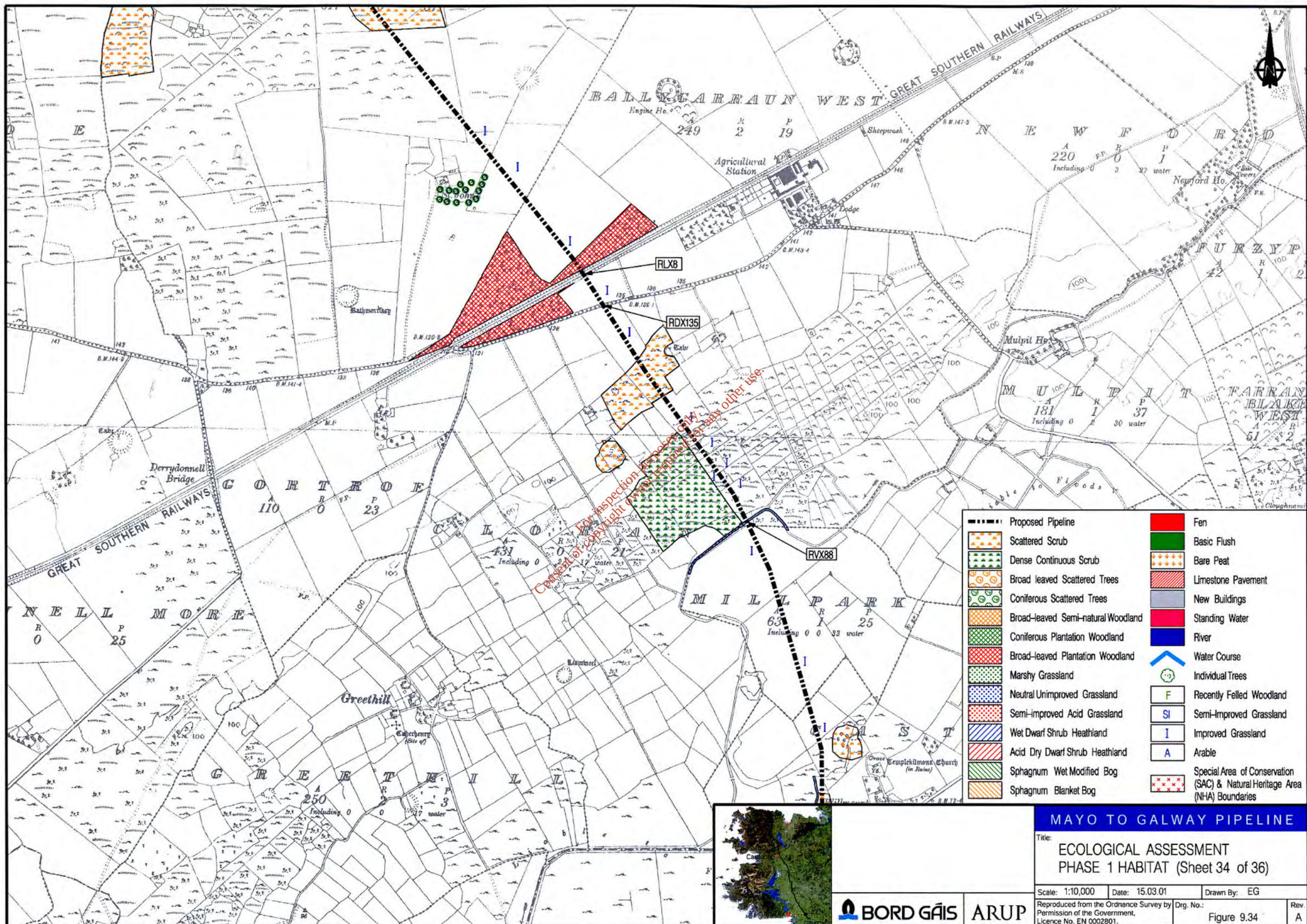
MAYO TO GALWAY PIPELINE

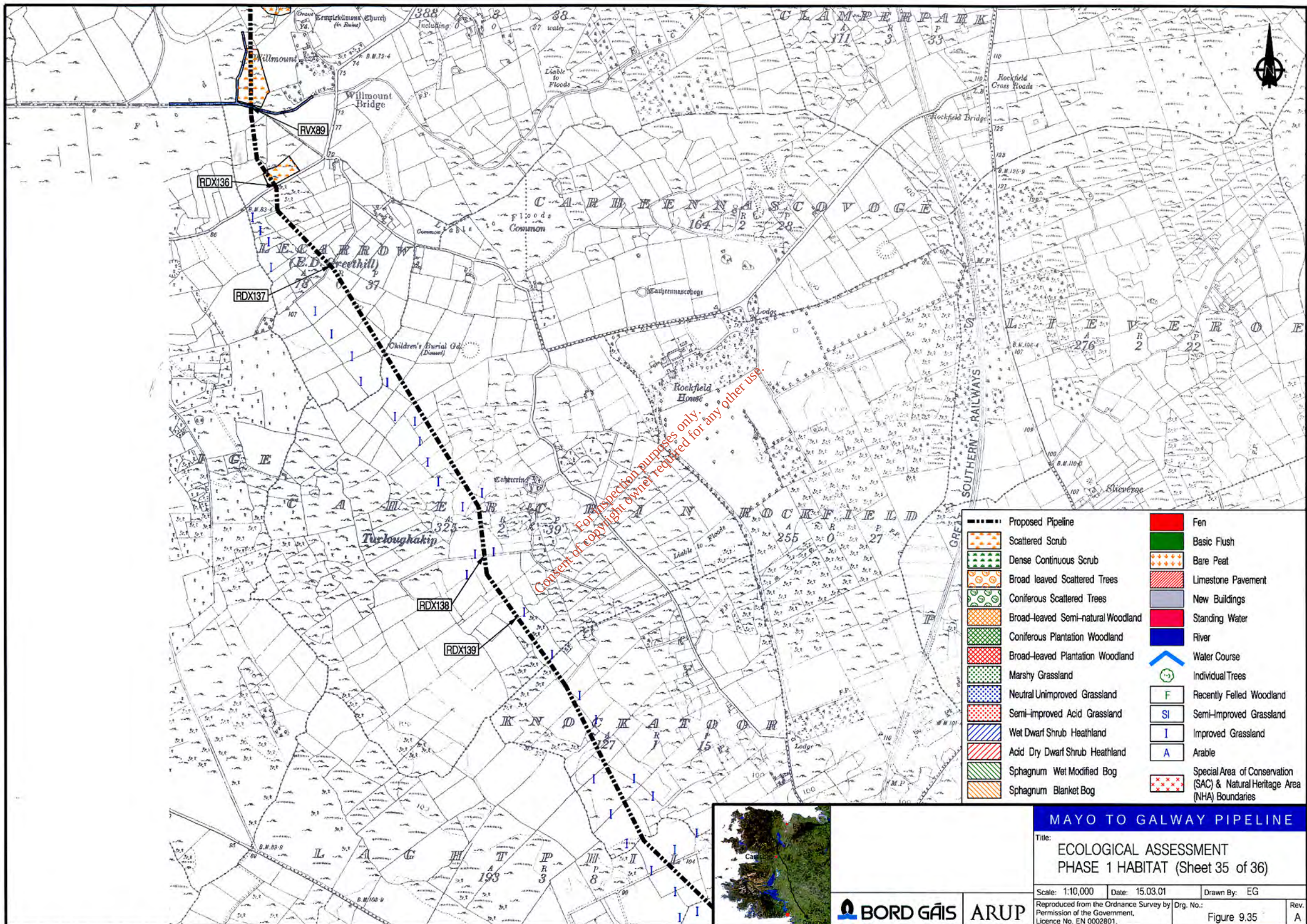
Title: **ECOLOGICAL ASSESSMENT
PHASE 1 HABITAT (Sheet 32 of 36)**

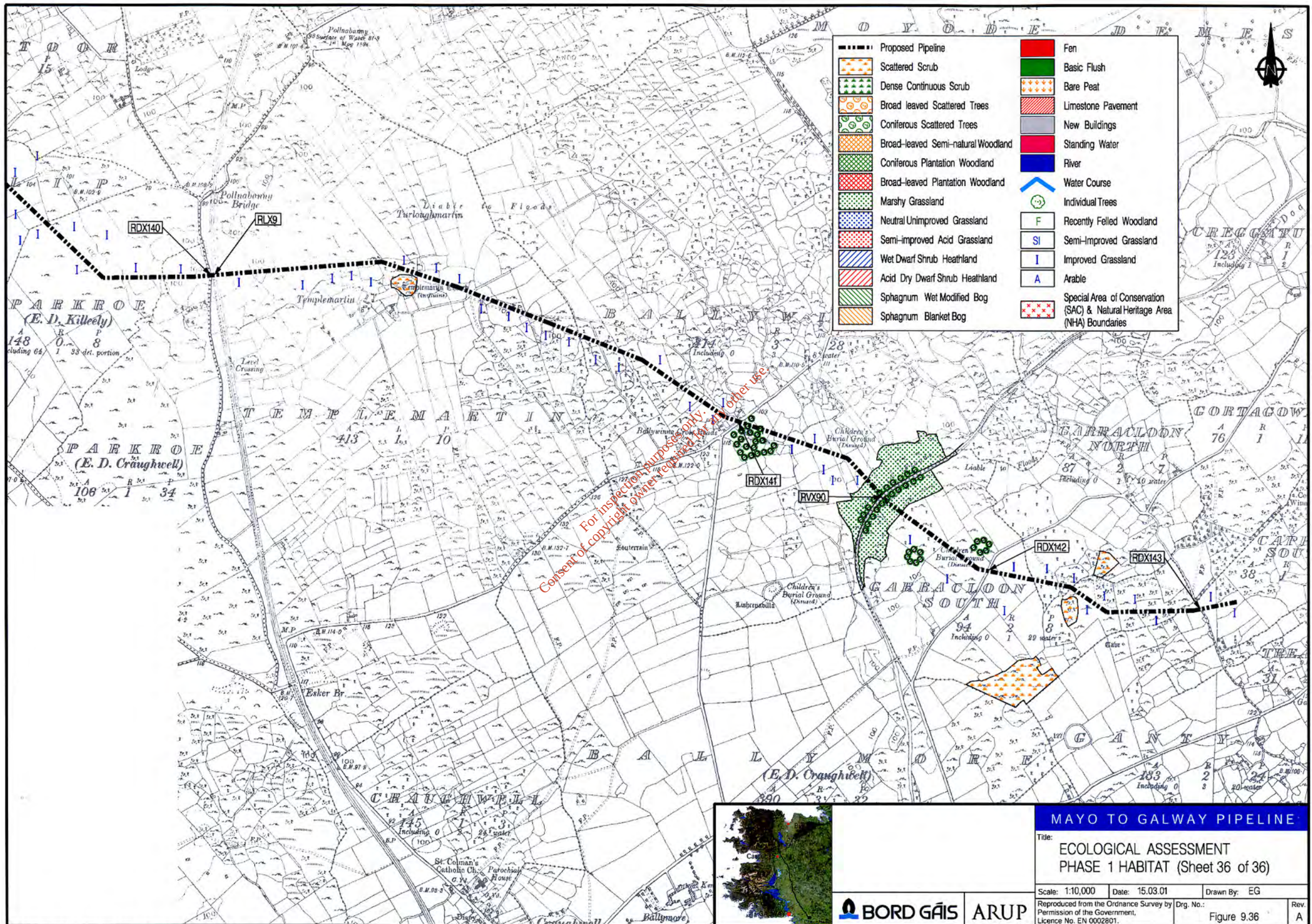
Scale: 1:10,000 Date: 15.03.01 Drawn By: EG

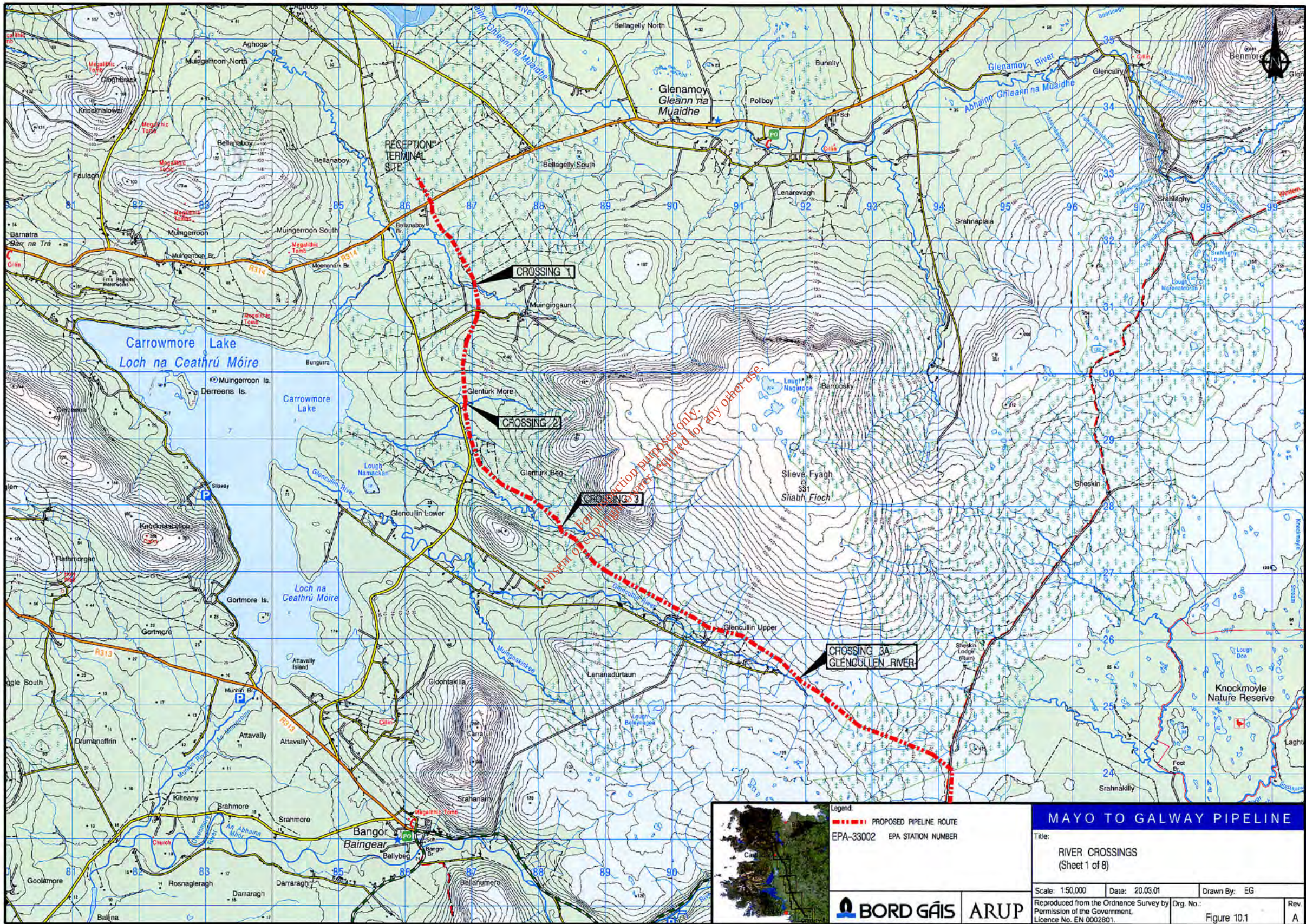
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801. Drg. No.: Figure 9.32 Rev. A



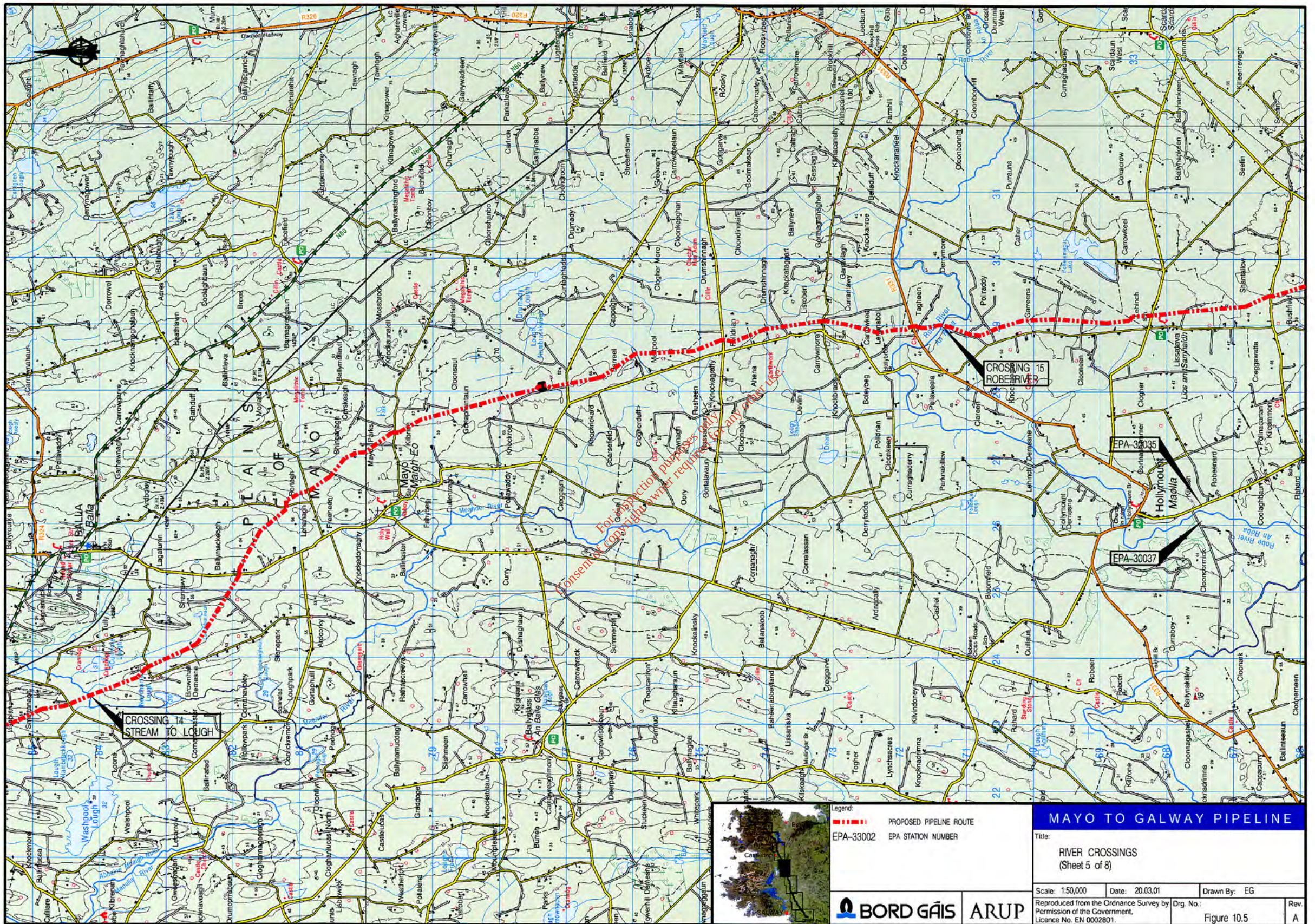


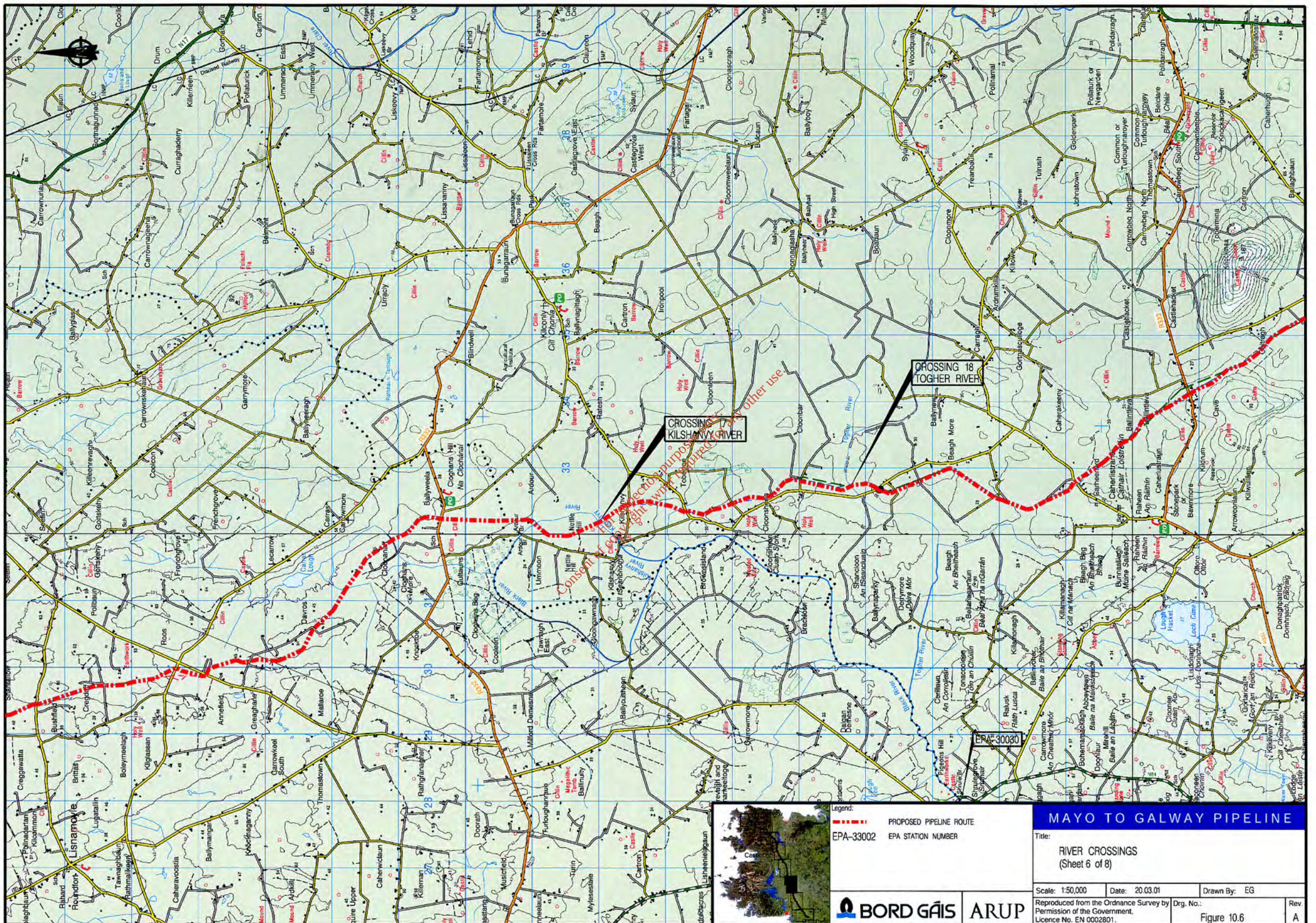


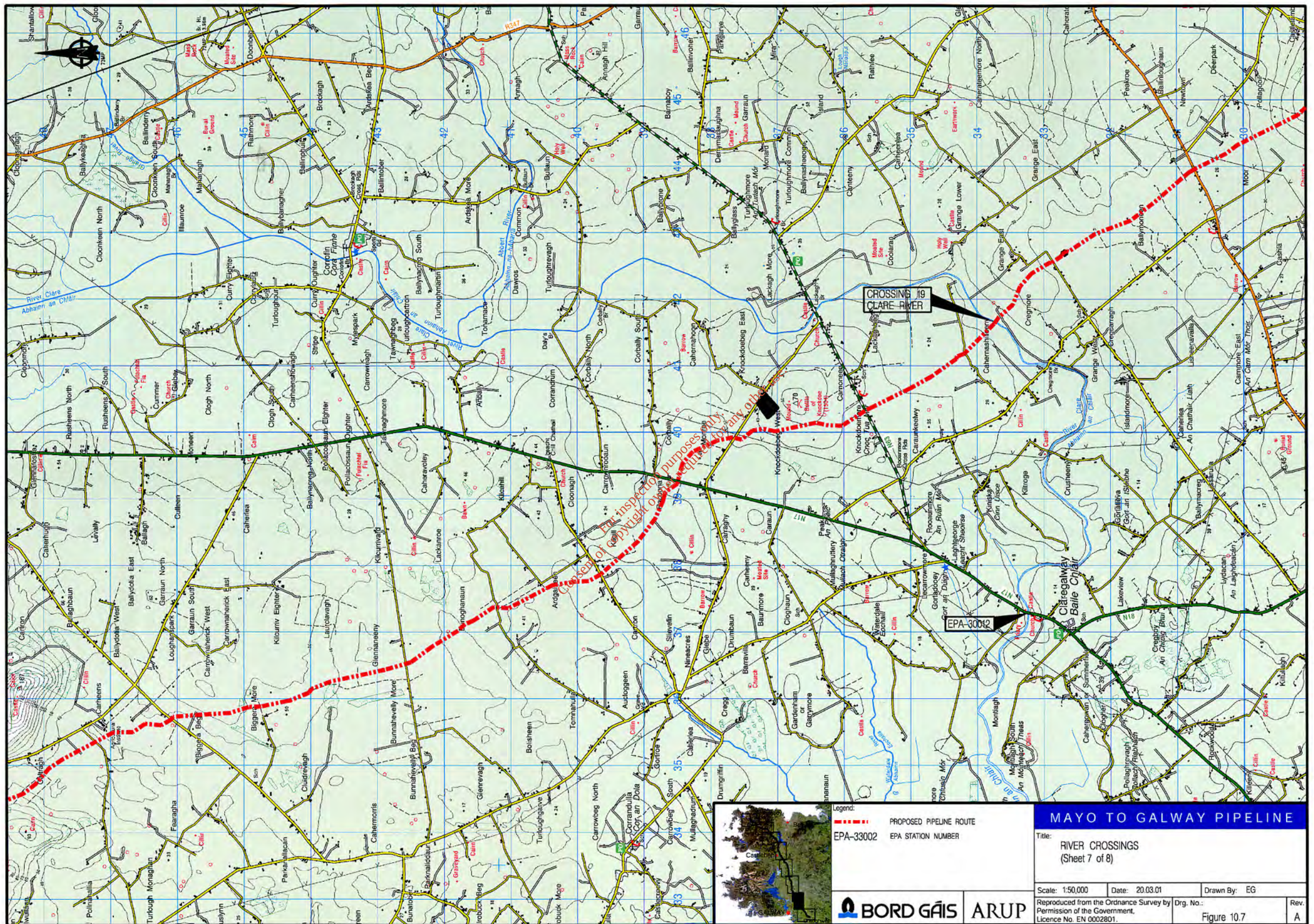


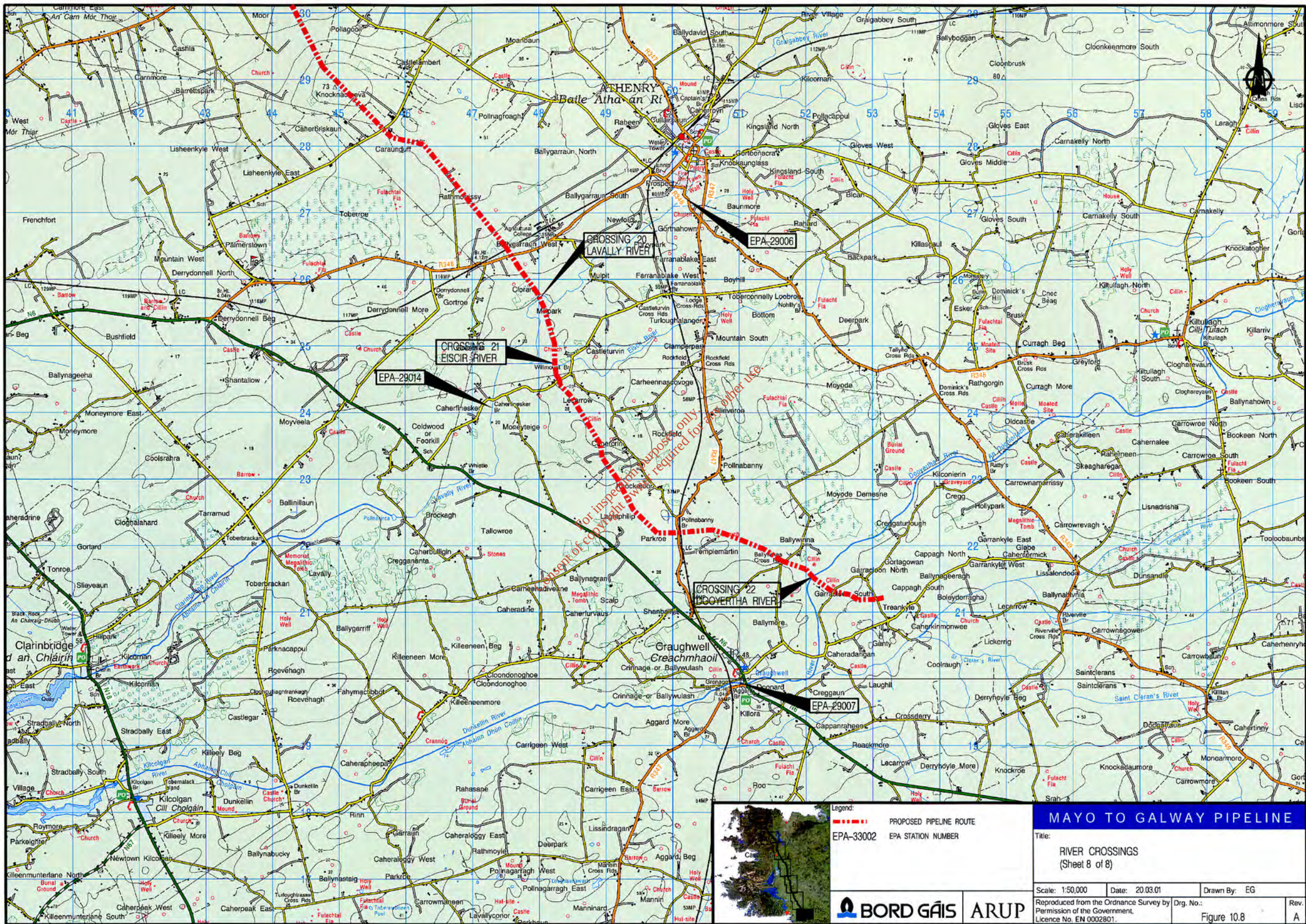


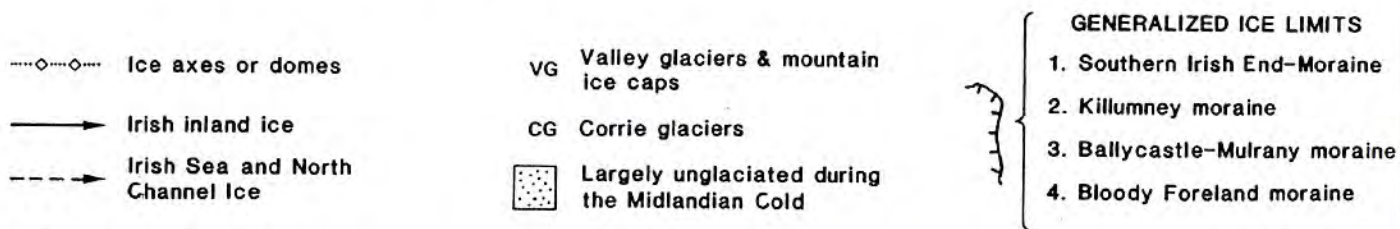
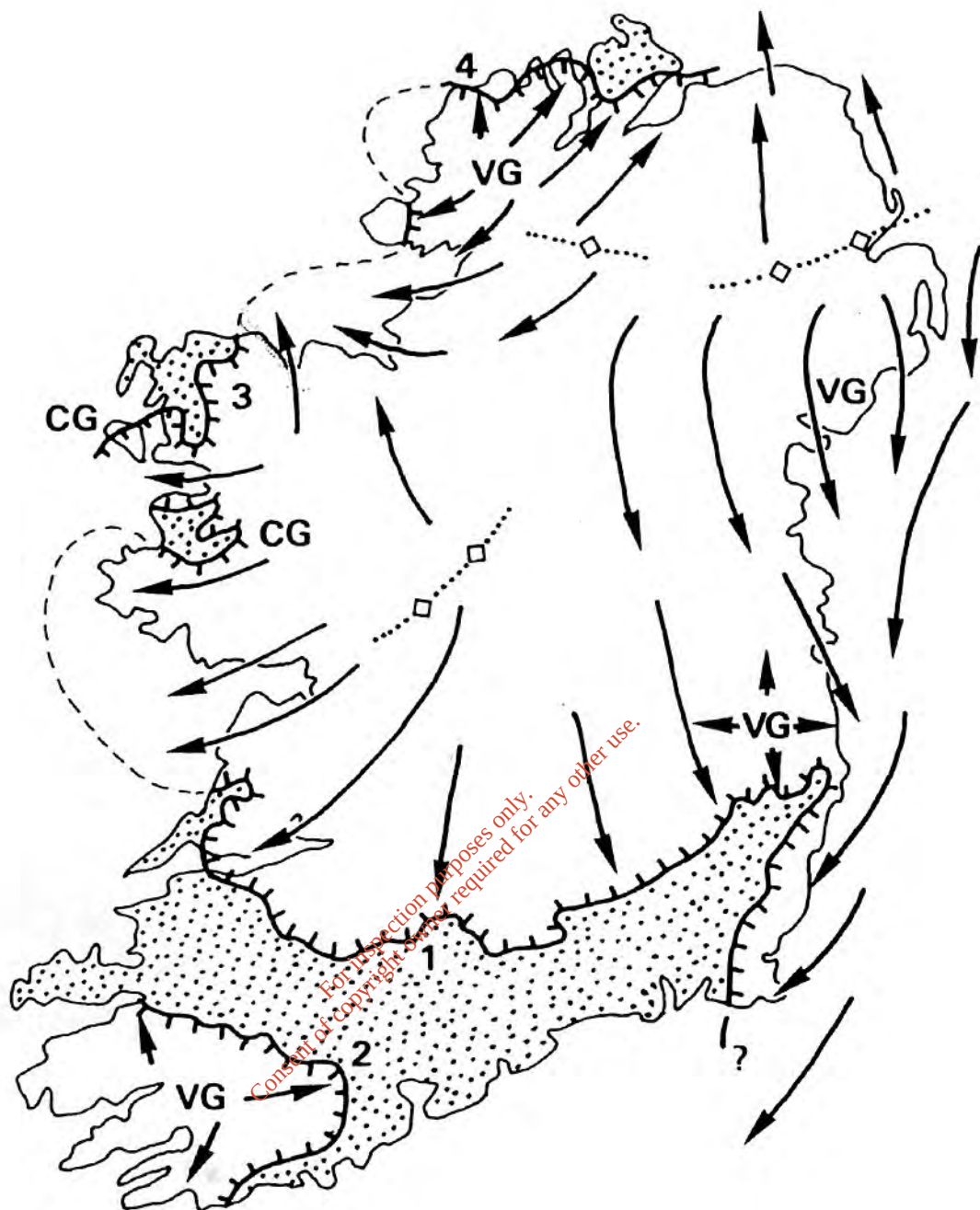








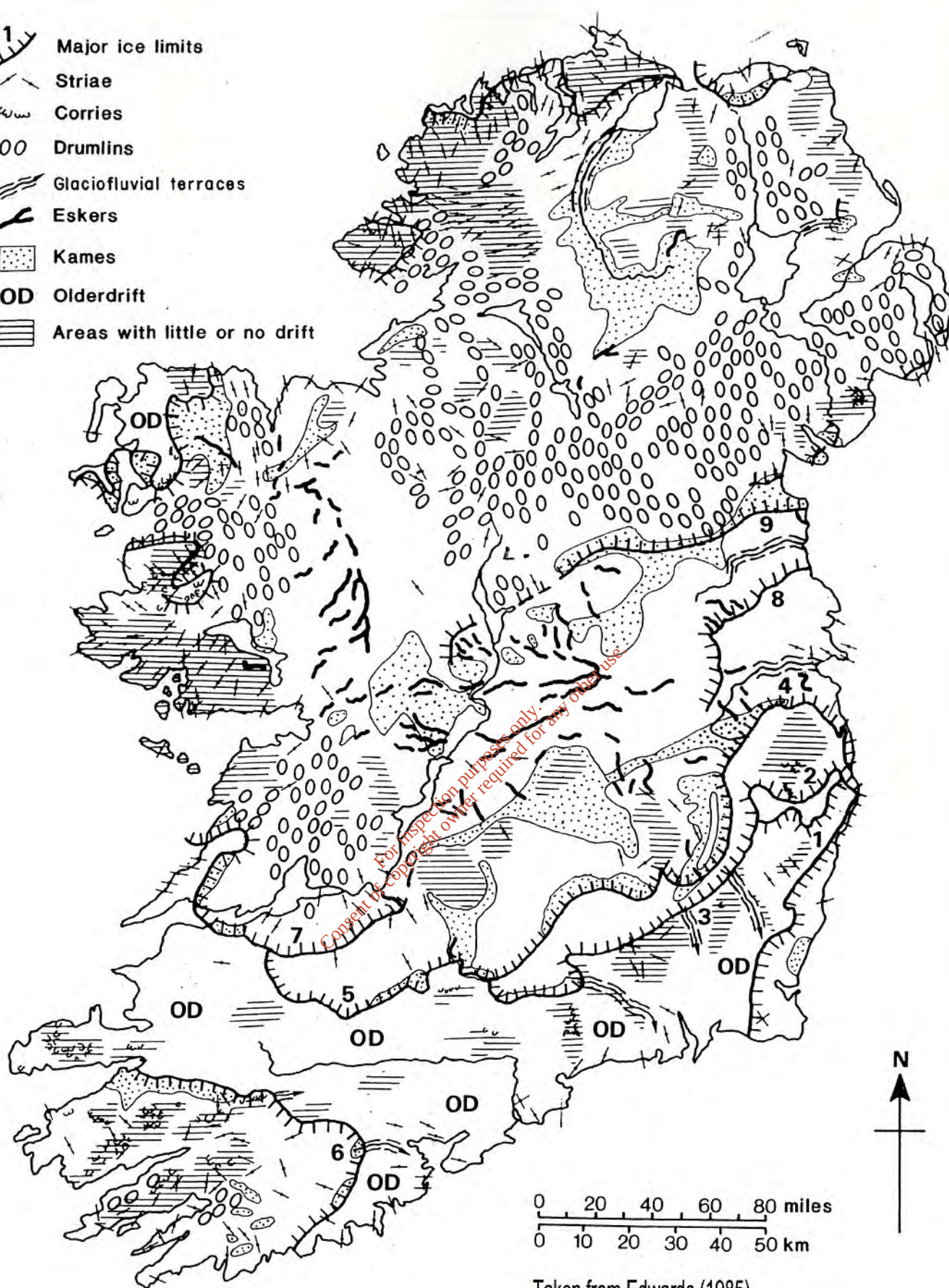




Taken from Edwards (1985)

	MAYO TO GALWAY PIPELINE		
	Title: ICE LIMITS & GENERAL DIRECTIONS OF ICE MOVEMENT DURING THE LATE MIDLANDIAN COLD STAGE		
	Scale: N.T.S.	Date: 25.04.01	Drawn By: EG
	Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.: Figure 11.1
			Rev. A

-  Major ice limits
-  Striae
-  Corries
-  Drumlins
-  Glaciofluvial terraces
-  Eskers
-  Kames
-  Olderdrift
-  Areas with little or no drift



Taken from Edwards (1985)

 **BORD GÁIS**

ARUP

MAYO TO GALWAY PIPELINE

Title:

GLACIAL GEOMORPHOLOGICAL FEATURES

Scale: N.T.S.

Date: 25.04.01

Drawn By: EG

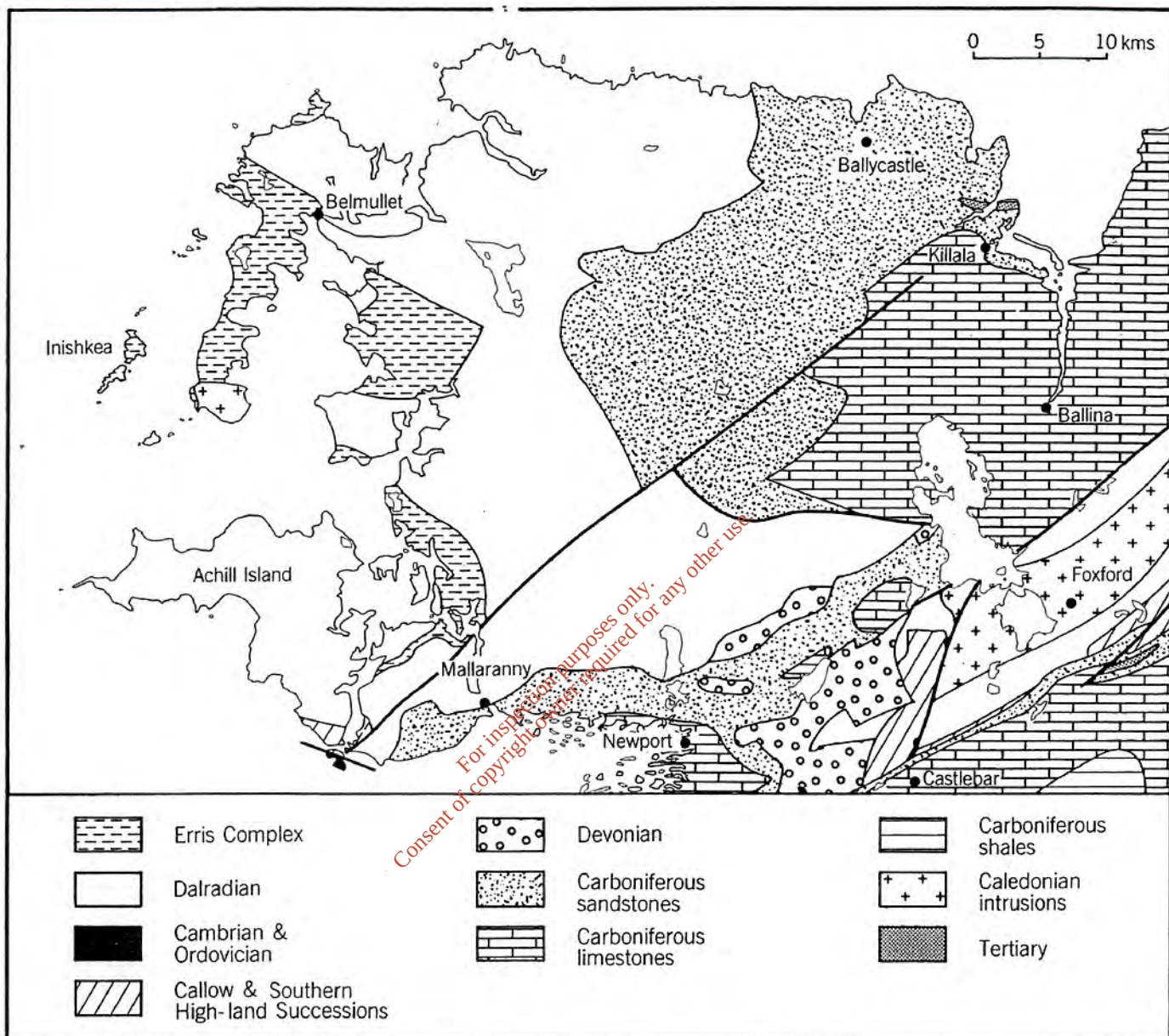
Reproduced from the Ordnance Survey by
Permission of the Government,
Licence No. EN 0002801.

Org. No.:

Figure 11.2

Rev.

A



Taken from: Geology of North Mayo (GSI 1992)



ARUP

MAYO TO GALWAY PIPELINE

Title:

SIMPLIFIED BEDROCK GEOLOGY FOR SECTION OF PIPELINE ROUTE NORTH OF CASTLEBAR

Scale: N.T.S.

Date: 25.04.01

Drawn By: EG

Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.

Drg. No.:

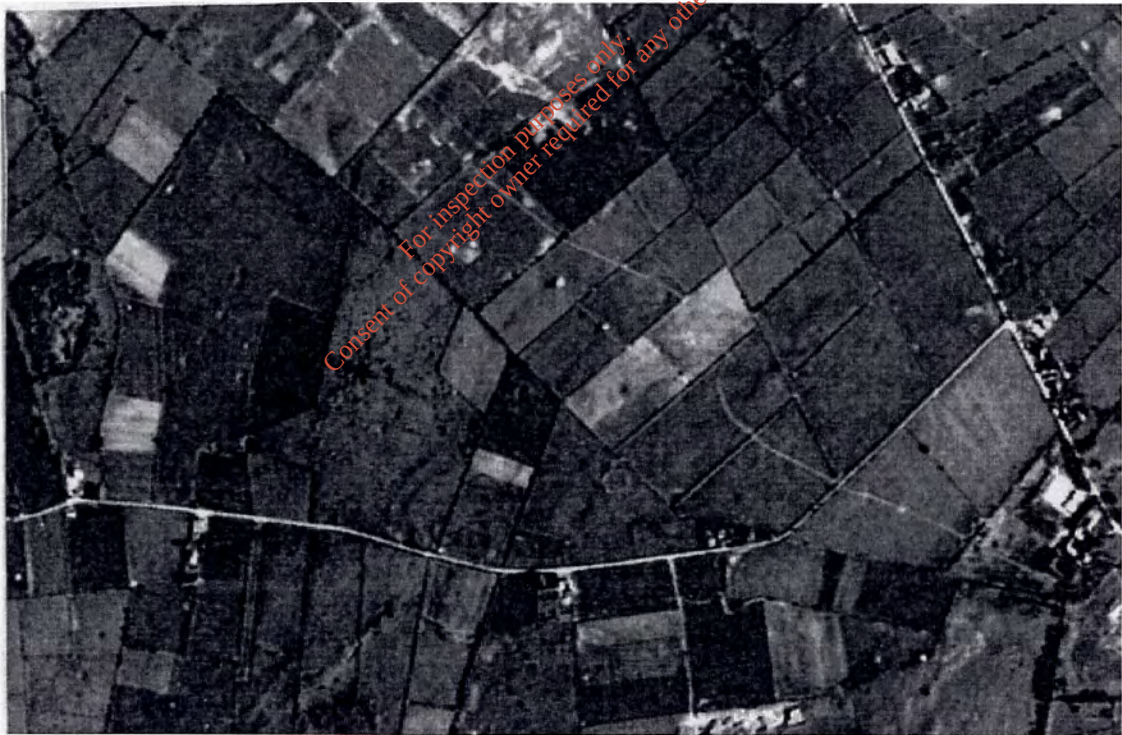
Figure 11.3

Rev.

A



August 2000 Photograph



May 1973 Photograph



ARUP

MAYO TO GALWAY PIPELINE

Title:

CHANGES IN SURFACE MORPHOLOGY
SOUTH OF CASTLEHACKET

Scale: N.T.S.

Date: 25.04.01

Drawn By: EG

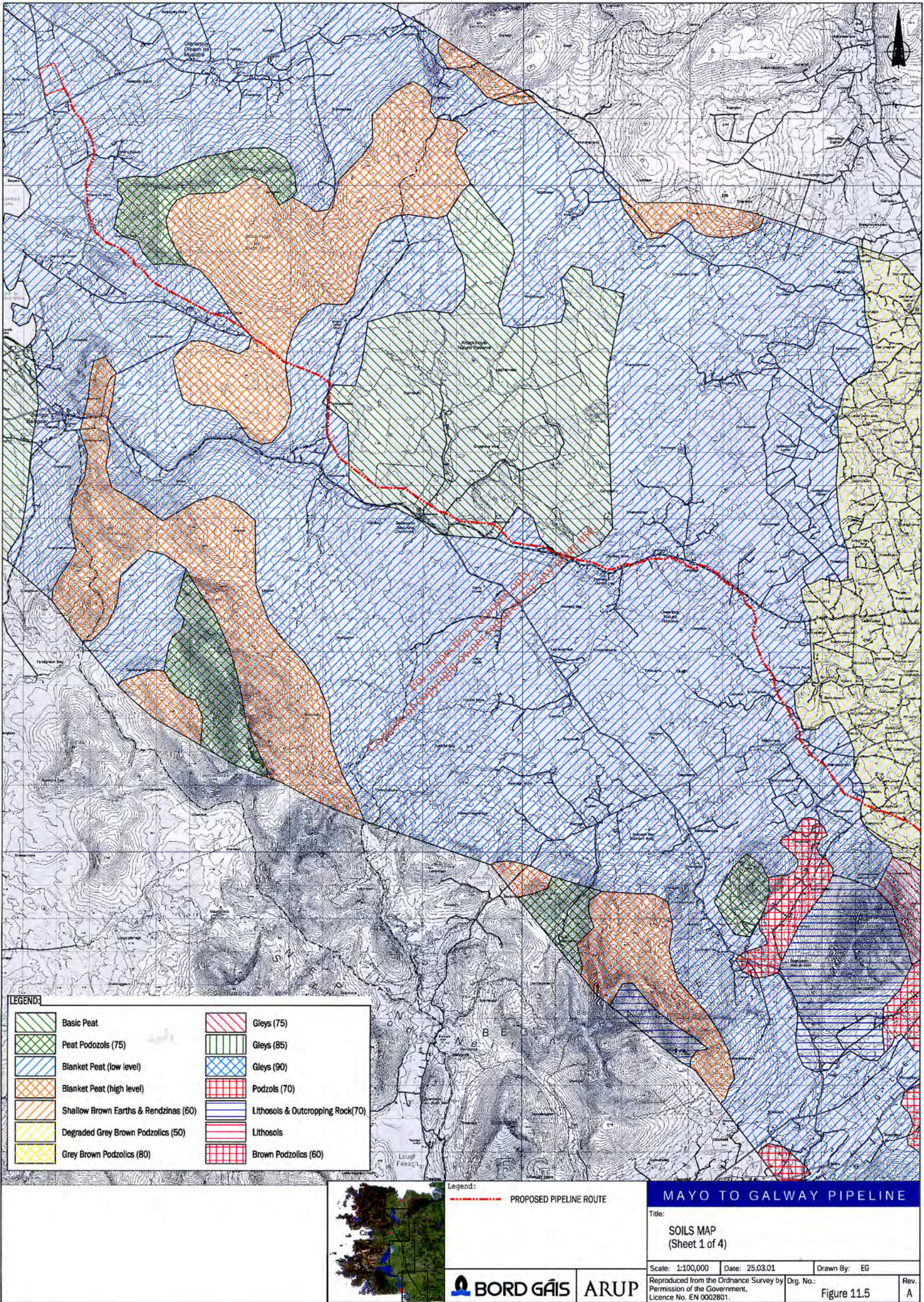
Reproduced from the Ordnance Survey by
Permission of the Government,
Licence No. EN 0002801.

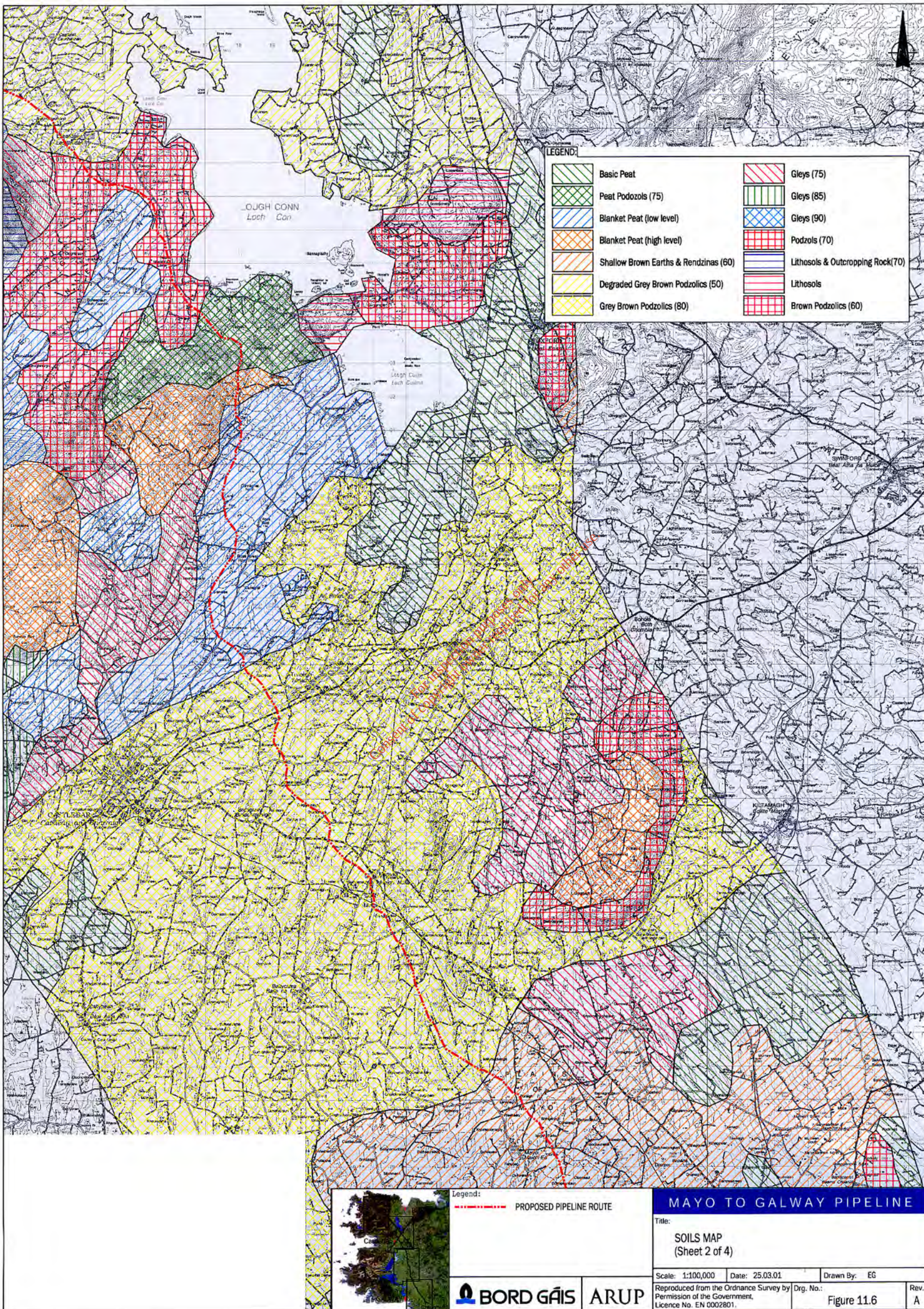
Drg. No.:

Figure 11.4

Rev.

A





LEGEND	
	Basic Peat
	Peat Podzols (75)
	Blanket Peat (low level)
	Blanket Peat (high level)
	Shallow Brown Earths & Rendzinas (60)
	Degraded Grey Brown Podzols (50)
	Grey Brown Podzols (80)
	Gleys (75)
	Gleys (85)
	Gleys (90)
	Podzols (70)
	Lithosols & Outcropping Rock(70)
	Lithosols
	Brown Podzols (60)



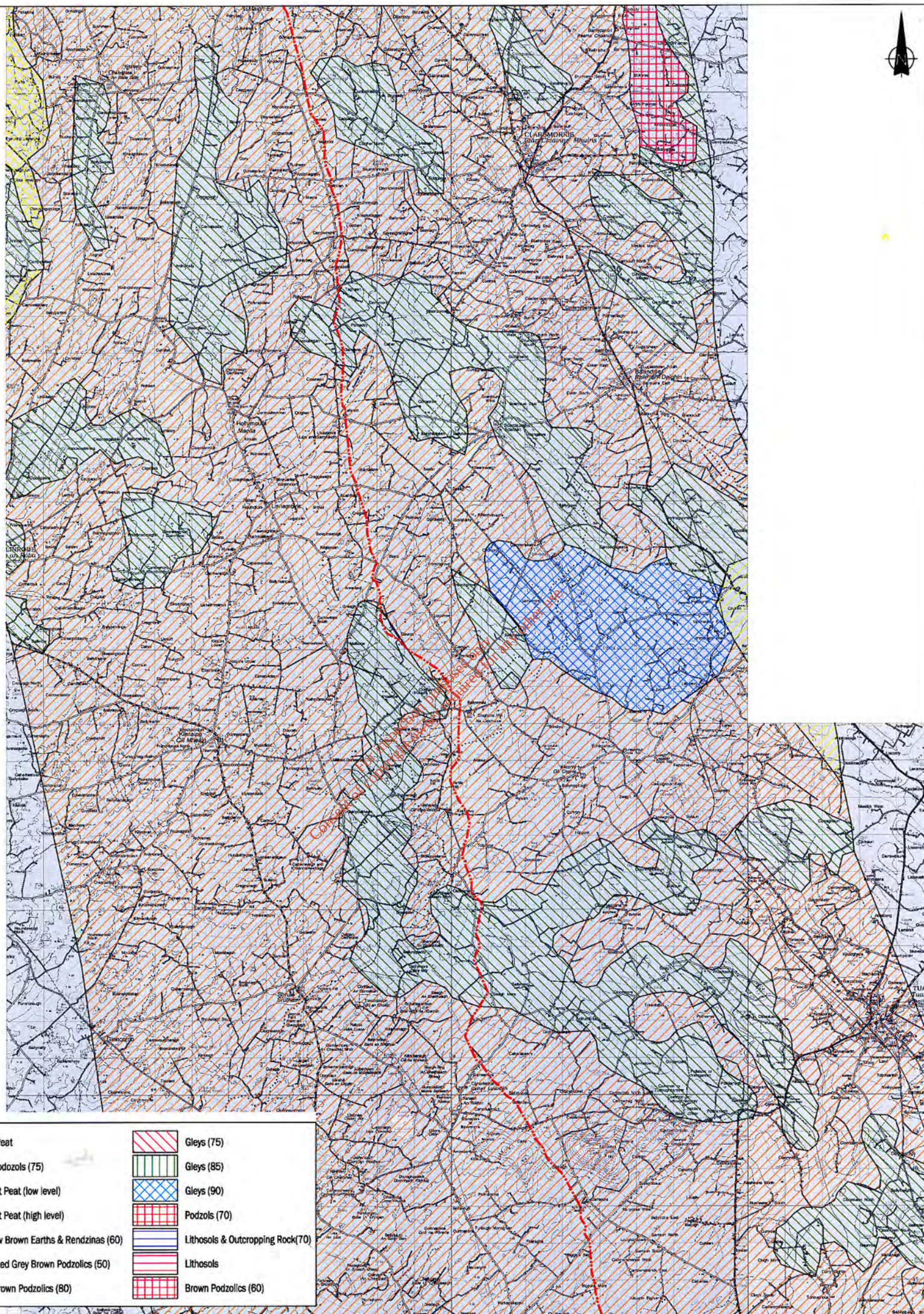
Legend:
- - - - - PROPOSED PIPELINE ROUTE

BORD GÁIS **ARUP**

MAYO TO GALWAY PIPELINE

Title:
SOILS MAP
(Sheet 2 of 4)

Scale: 1:100,000	Date: 25.03.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.: Figure 11.6
		Rev. A



LEGEND:

	Basic Peat		Gleys (75)
	Peat Podzols (75)		Gleys (85)
	Blanket Peat (low level)		Gleys (90)
	Blanket Peat (high level)		Podzols (70)
	Shallow Brown Earths & Rendzinas (60)		Lithosols & Outcropping Rock(70)
	Degraded Grey Brown Podzols (50)		Lithosols
	Grey Brown Podzols (80)		Brown Podzols (60)



Legend:

PROPOSED PIPELINE ROUTE

MAYO TO GALWAY PIPELINE

Title:

SOILS MAP
(Sheet 3 of 4)

Scale: 1:100,000

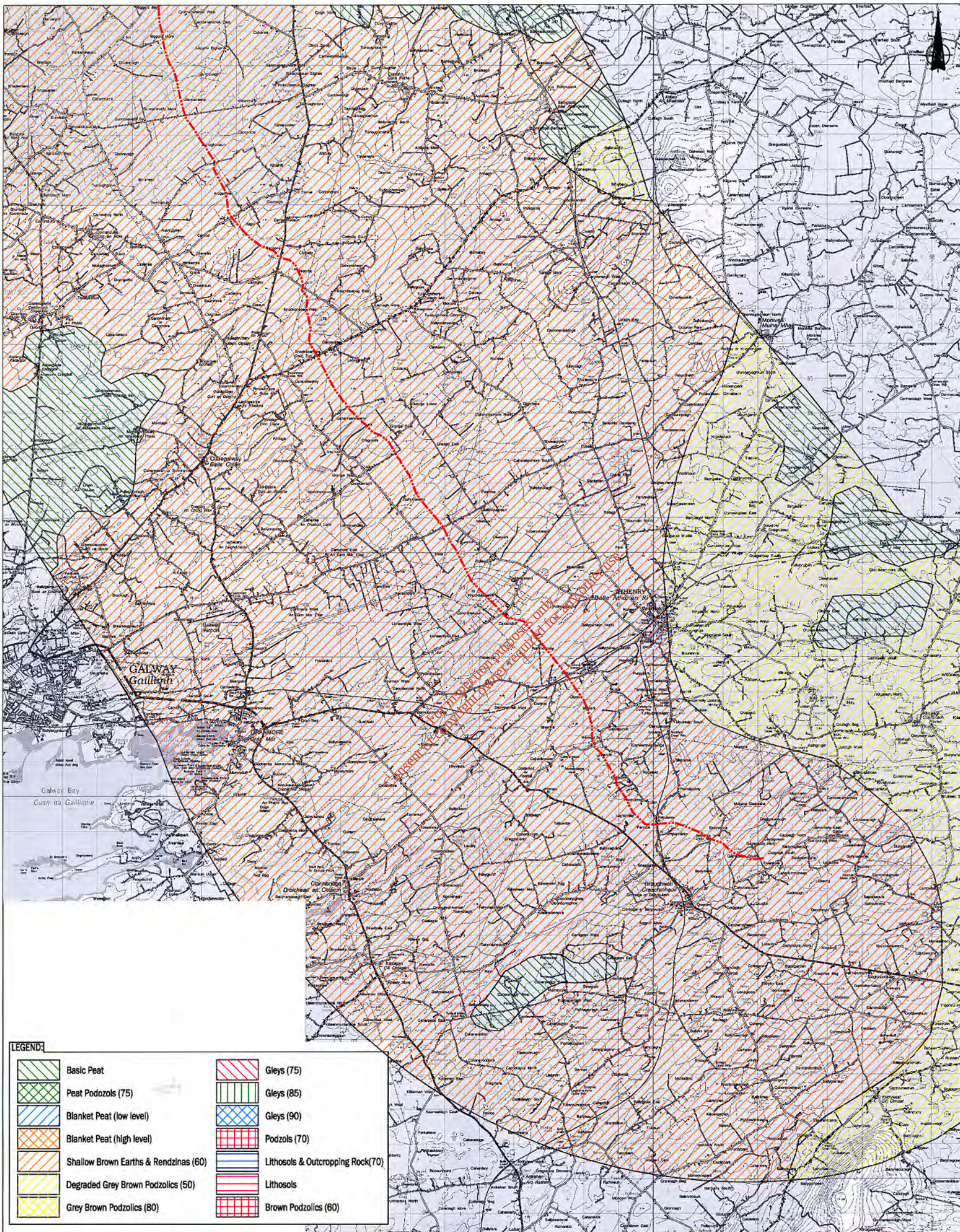
Date: 25.03.01

Drawn By: EG

Reproduced from the Ordnance Survey by
Permission of the Government,
Licence No. EN 0002801.

Figure 11.7

Rev.
A



LEGEND

	Basic Peat		Gleys (75)
	Peat Podzols (75)		Gleys (85)
	Blanket Peat (low level)		Gleys (90)
	Blanket Peat (high level)		Podzols (70)
	Shallow Brown Earths & Rendzinas (60)		Lithosols & Outcropping Rock (70)
	Degraded Grey Brown Podzols (50)		Lithosols
	Grey Brown Podzols (80)		Brown Podzols (60)



Legend:

PROPOSED PIPELINE ROUTE

MAYO TO GALWAY PIPELINE

Title:

SOILS MAP
(Sheet 4 of 4)

Scale: 1:100,000

Date: 25.03.01

Drawn By: EG

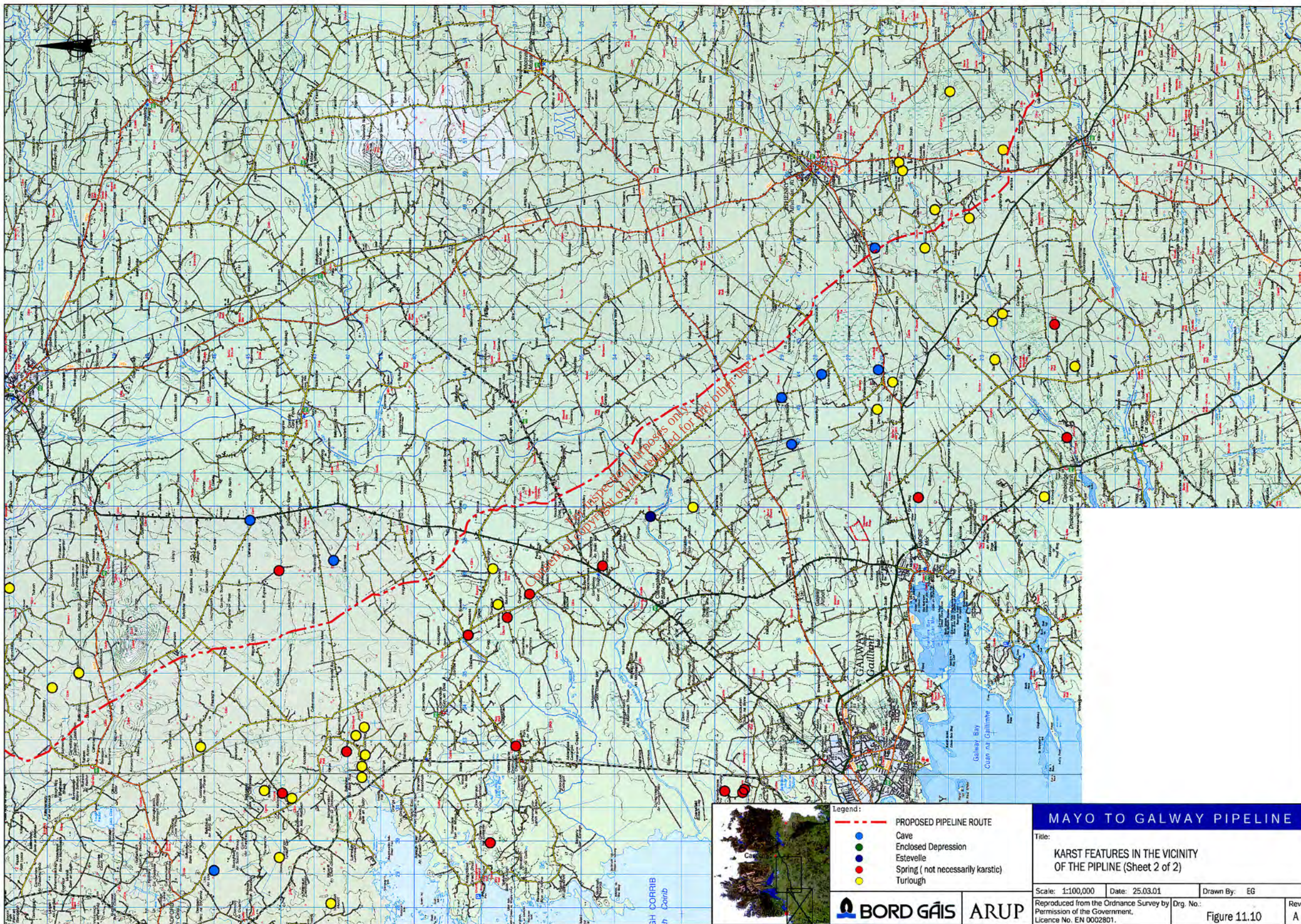
Reproduced from the Ordnance Survey by
Permission of the Government,
Licence No. EN 0002801.

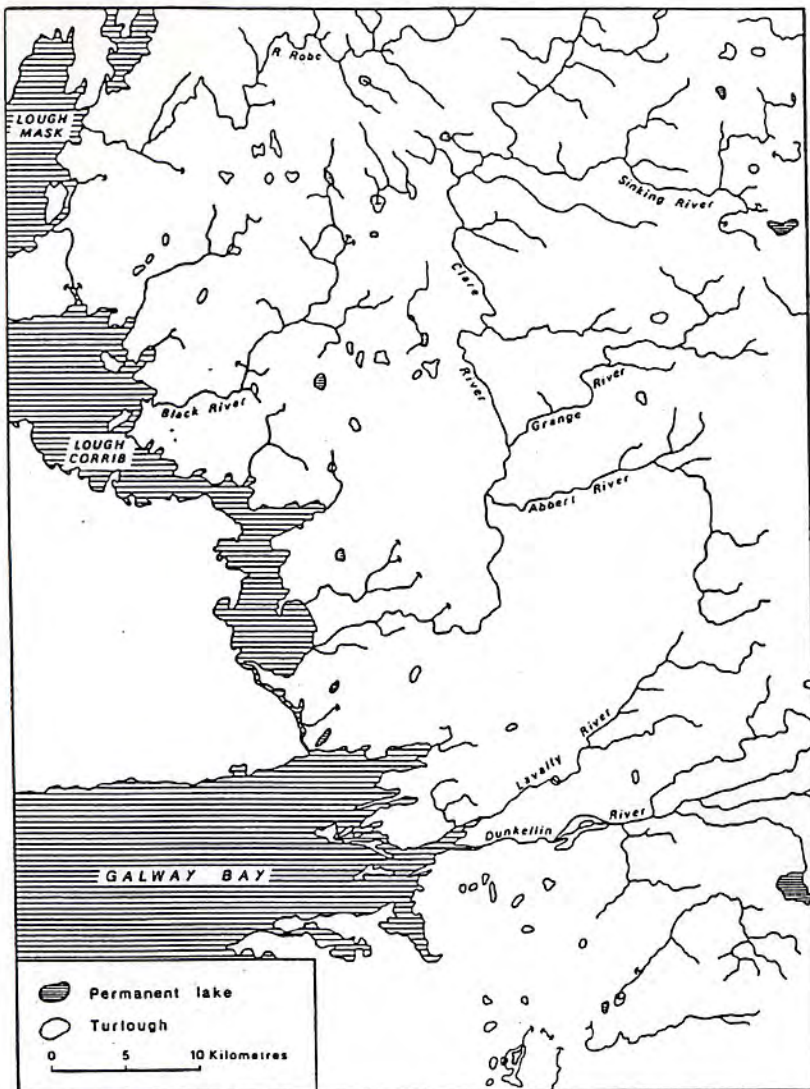
Figure 11.8

Rev.
A

BORD GÁIS

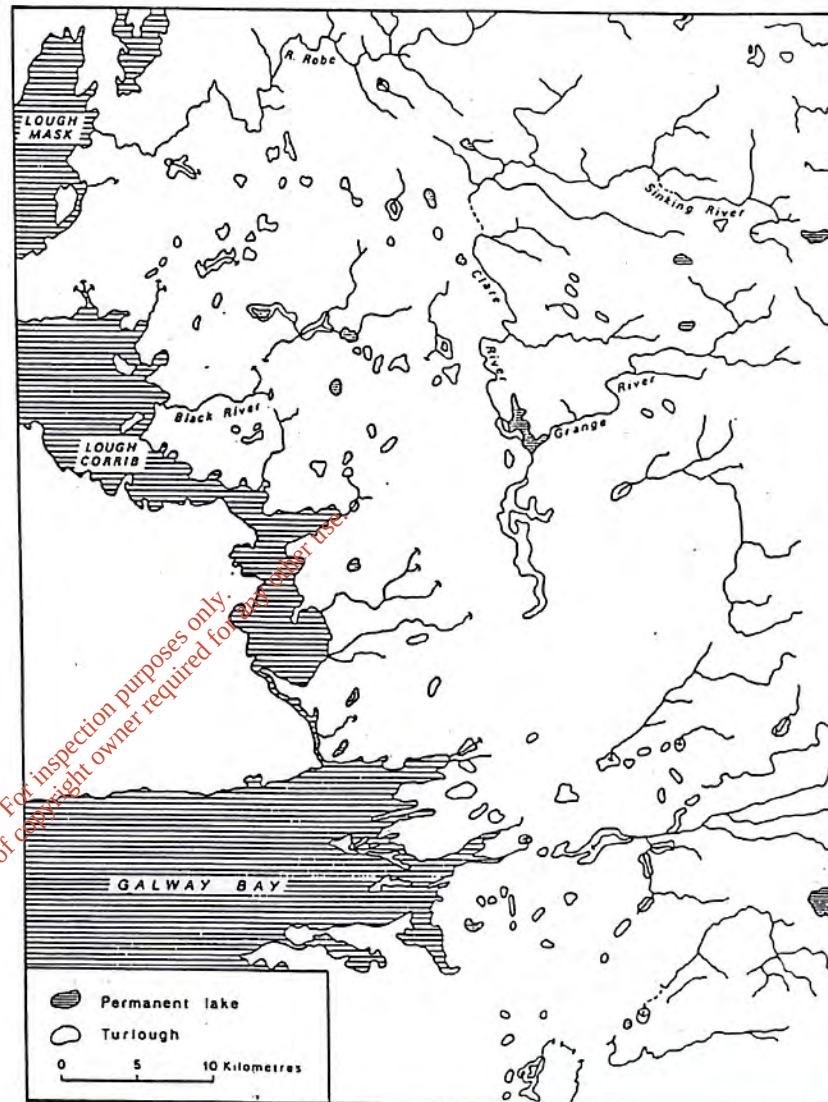
ARUP





Present Day Surface Drainage

Taken from Drew & Daly (1993)



Pre-arterial Drainage

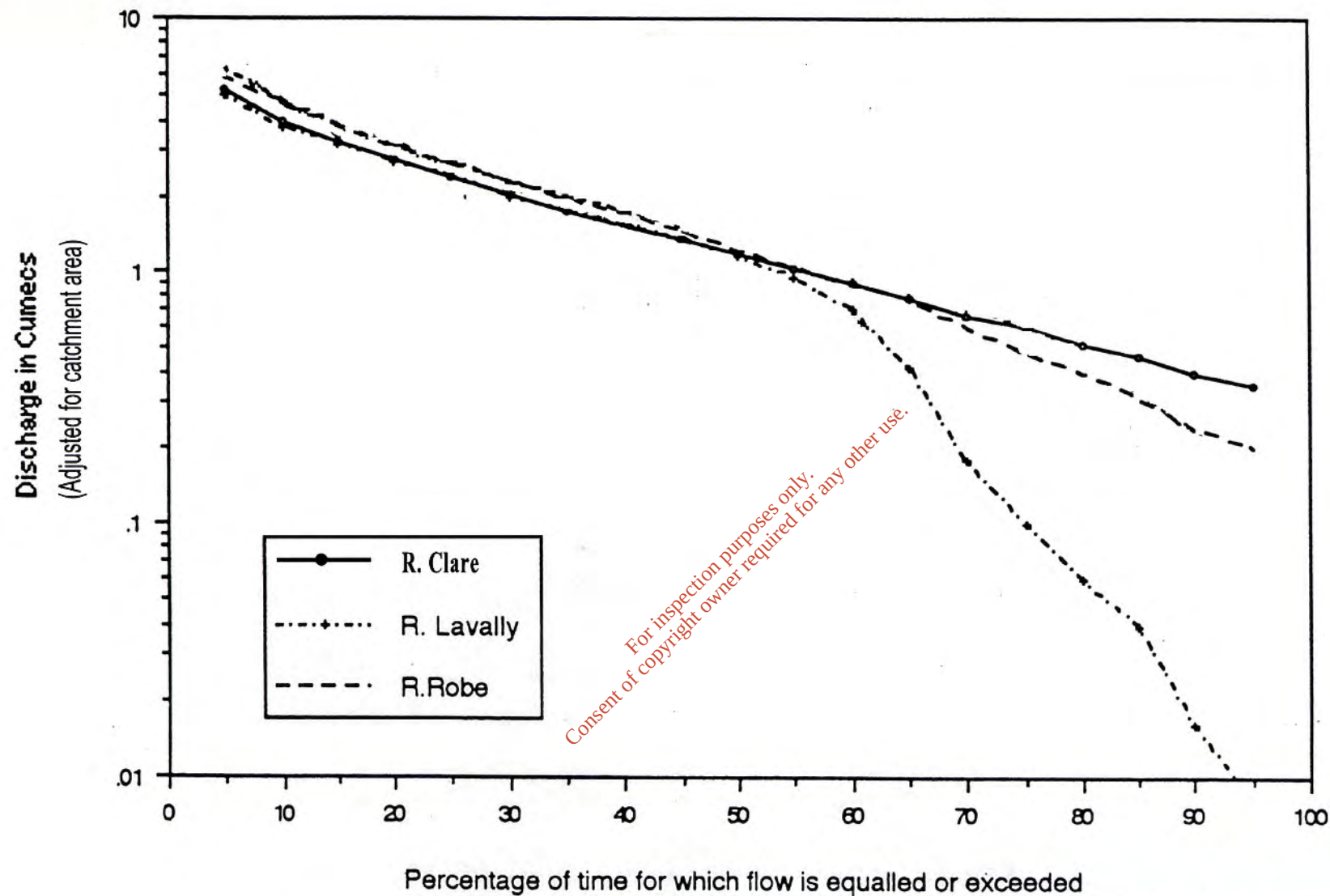


ARUP

MAYO TO GALWAY PIPELINE

Title:
PRESENT & FORMER DRAINAGE PATTERNS
IN NORTH-EAST GALWAY

Scale: N.T.S.	Date: 25.04.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government. Licence No. EN 0002801.	Drg. No.:	Rev. A
Figure 13.1		



Modified from Drew & Daly (1993)



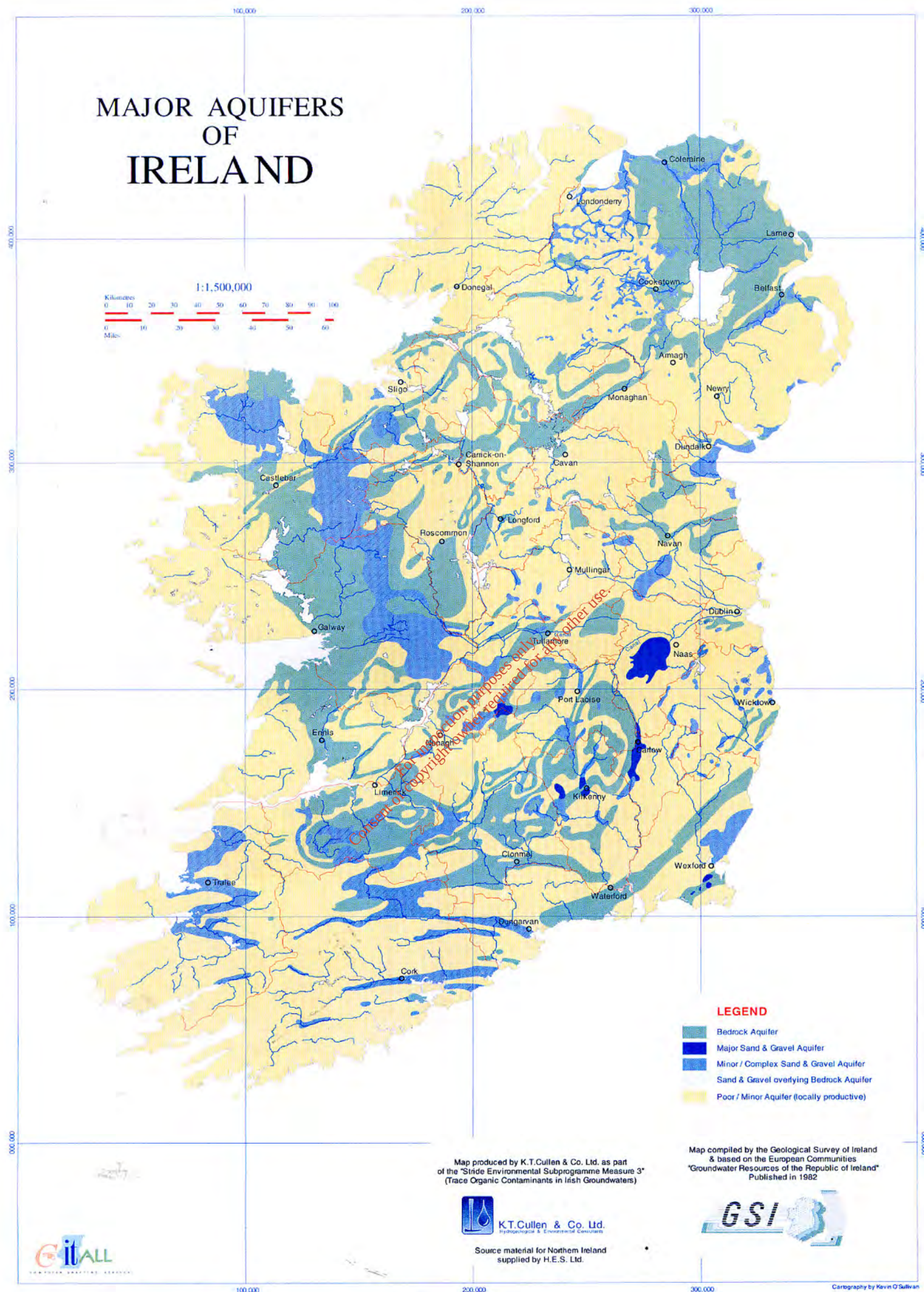
ARUP

MAYO TO GALWAY PIPELINE

Title: DISCHARGE VERSUS EXCEEDANCE DURATION
FOR THREE NAMED RIVERS CROSSED
BY PIPELINE

Scale: N.T.S.	Date: 25.04.01	Drawn By: EG
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.	Drg. No.: Figure 13.2	Rev. A

MAJOR AQUIFERS OF IRELAND



BORD GÁIS

ARUP

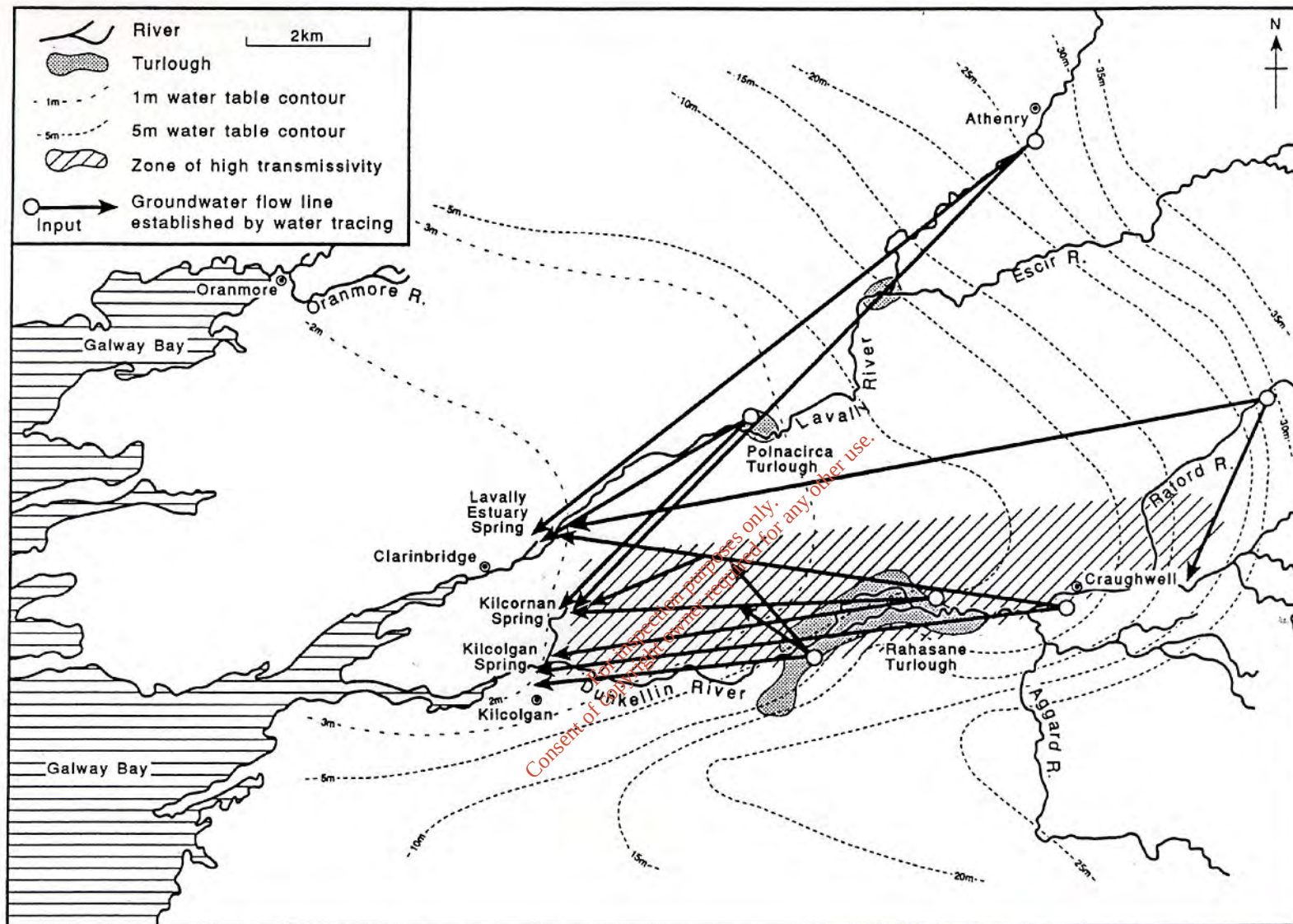
MAYO TO GALWAY PIPELINE

Title:
MAJOR AQUIFERS OF IRELAND

Scale: N.T.S. Date: 25.04.01 Drawn By: EG

Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801. Drg. No.: Figure 13.3

Rev. A



Taken from Drew & Daly (1993)



ARUP

MAYO TO GALWAY PIPELINE

Title:
ESTABLISHED GROUNDWATER FLOW
PATHS IN DUNKELLIN-LAVALLY CATCHMENT

Scale: N.T.S.	Date: 25.04.01	Drawn By: EG	Rev. A
Reproduced from the Ordnance Survey by Permission of the Government, Licence No. EN 0002801.		Drg. No.: Figure 13.4	

