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**Legend**

- Study Area
- County Boundaries
- NIAH Sites
- National Monuments
- National Monument Zone

**Tionscadal Eireann Project Ireland 2040**

**TI**

**An Roinn Iompair Turasóirí agus Spóirt**  
 Department of Transport, Tourism and Sport

**Cavan**

**comhairle chontae na mí meath county council**

**BARRY TRANSPORTATION**

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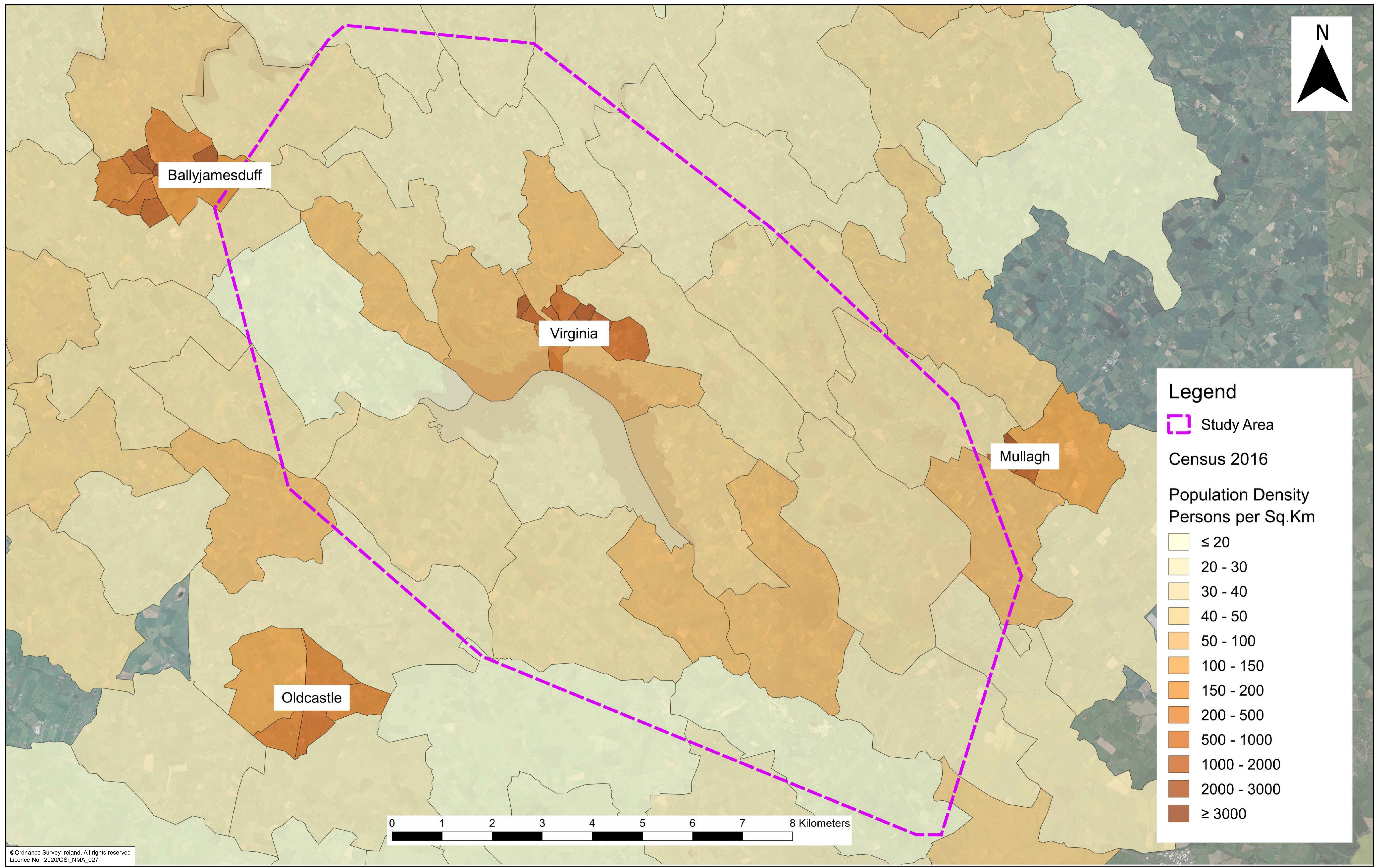
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| Rev. | Date       | Drawn | Description            | Chk'd | Appr. |
|------|------------|-------|------------------------|-------|-------|
| P01  | 10/03/2020 | UF    | ISSUED FOR INFORMATION | RC    | TC    |

|                |   |                    |                  |
|----------------|---|--------------------|------------------|
| Project Title: | N3 VIRGINIA BYPASS  | Status:            | S2               |
| Drawing Title: | PHASE 2 CONSTRAINTS - NATIONAL MONUMENTS & NATIONAL INVENTORY OF ARCHITECTURAL HERITAGE | Rev:               | P01              |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-4203  | Scale at A1: N.T.S | Date: 10/03/2019 |
| Drawn: UF      | Approved: RC  | Reviewed: TC       |                  |

File Name: C:\19 Projects\19408-BT-GN-XX-DR-C-203\_Constraints\_Monuments\_Buildings.dwg





**Legend**

Study Area

**Census 2016**

**Population Density**  
Persons per Sq.Km

- ≤ 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 500
- 500 - 1000
- 1000 - 2000
- 2000 - 3000
- ≥ 3000



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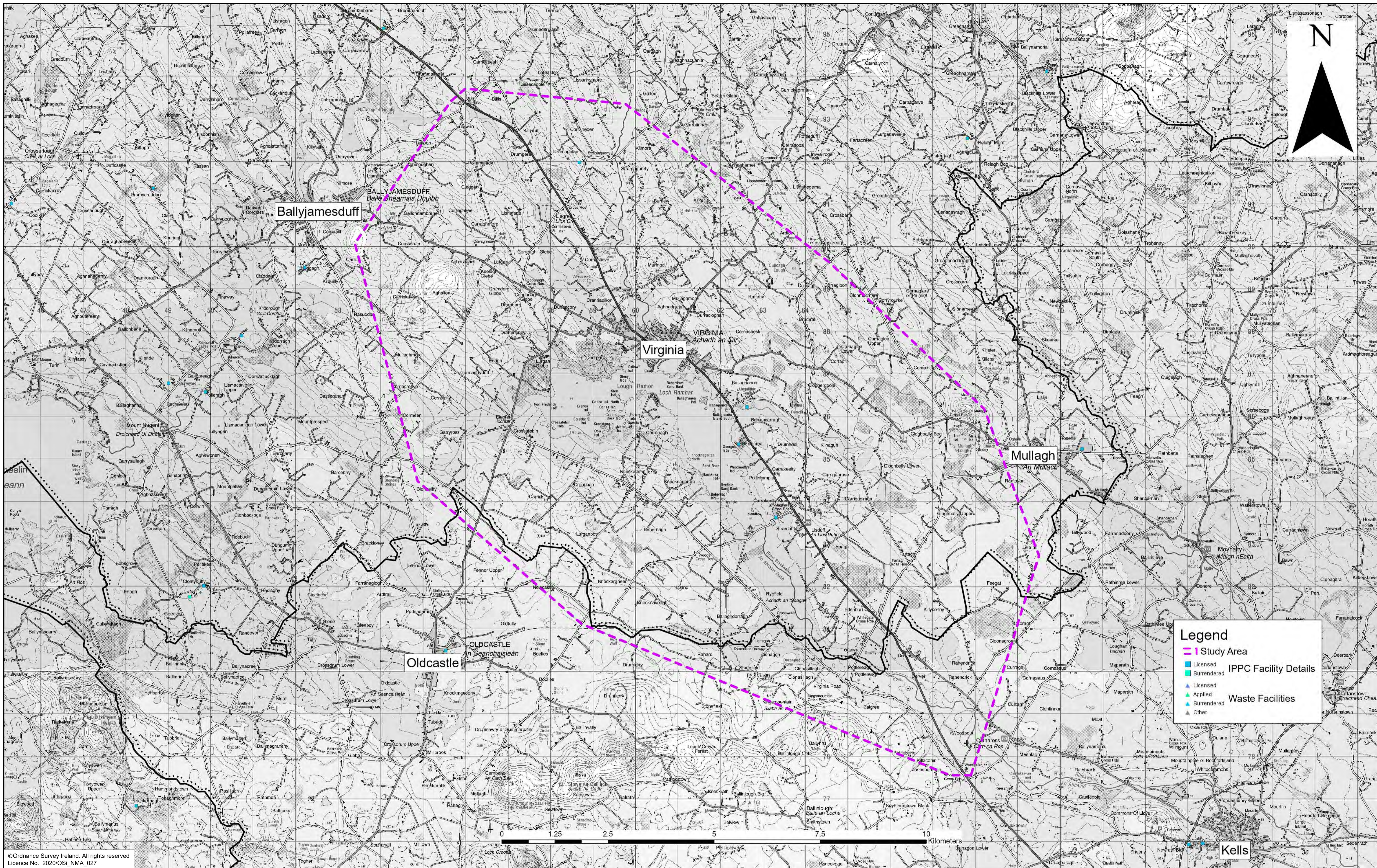
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| P01  | 27/01/2021 | AS    | ISSUE FOR INFORMATION | TC    | TC    |

|  |  |            |
|--|--|------------|
| Project Title: N3 Virginia Bypass                                      |  | Status: S3 |
| Drawing Title: CONSTRAINTS MAPPING<br>POPULATION DENSITY - CENSUS 2016 |  |            |
| Designed: -  | Drawing No. 19408-BT-GN-XX-DR-C-4206_Constraints_Population 2016 | Rev: P01   |
| Drawn: AS  | Scale at A1: See Drawing   |            |
| Approved: TC   | Date: 27/01/2021   |            |
| Reviewed: TC   |  |            |

File Name: \\barry\2021\Projects\19408 - N3 Virginia Bypass\00\_VIP\Drawings\19408-BT-GN-XX-DR-C-4206\_Constraints\_Population 2016.dwg





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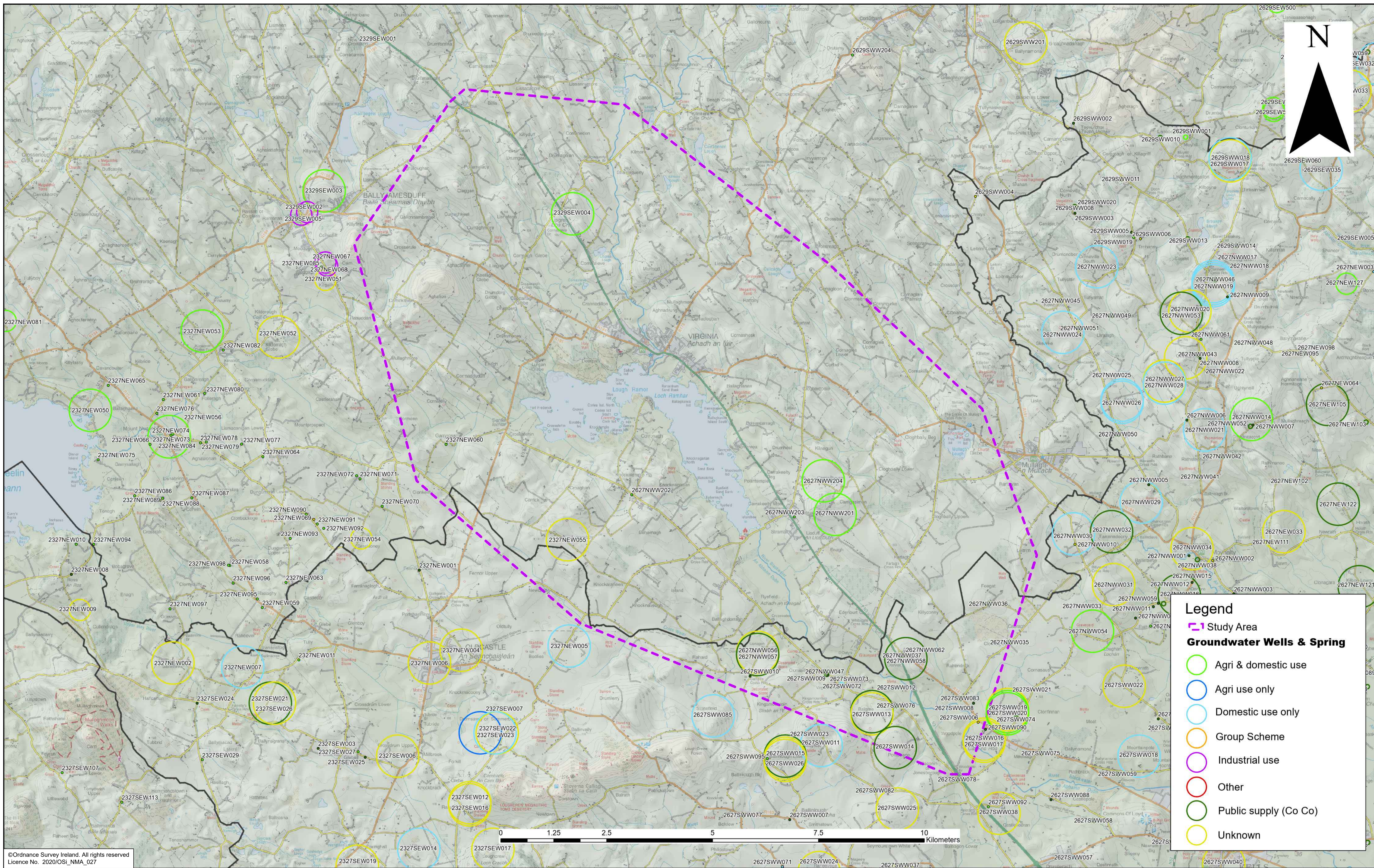
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| P01  | 22/02/21 | UF    | ISSUED FOR INFORMATION | TC    | TC    |

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|----------------|---|------------------|--------------------|
| Project Title: | N3 VIRGINIA BYPASS  | Status:          | S2                 |
| Drawing Title: | PHASE 2 CONSTRAINTS - WASTE FACILITIES AND IPPC LICENCED FACILITIES | Rev:             | P01                |
| Designed: UF   | Drawing No. 19408-BT-GN-XX-DR-C-02507                               | Approved: TC     | Scale at A1: N.T.S |
| Drawn: UF      | Reviewed: TC  | Date: 09/12/2019 |                    |





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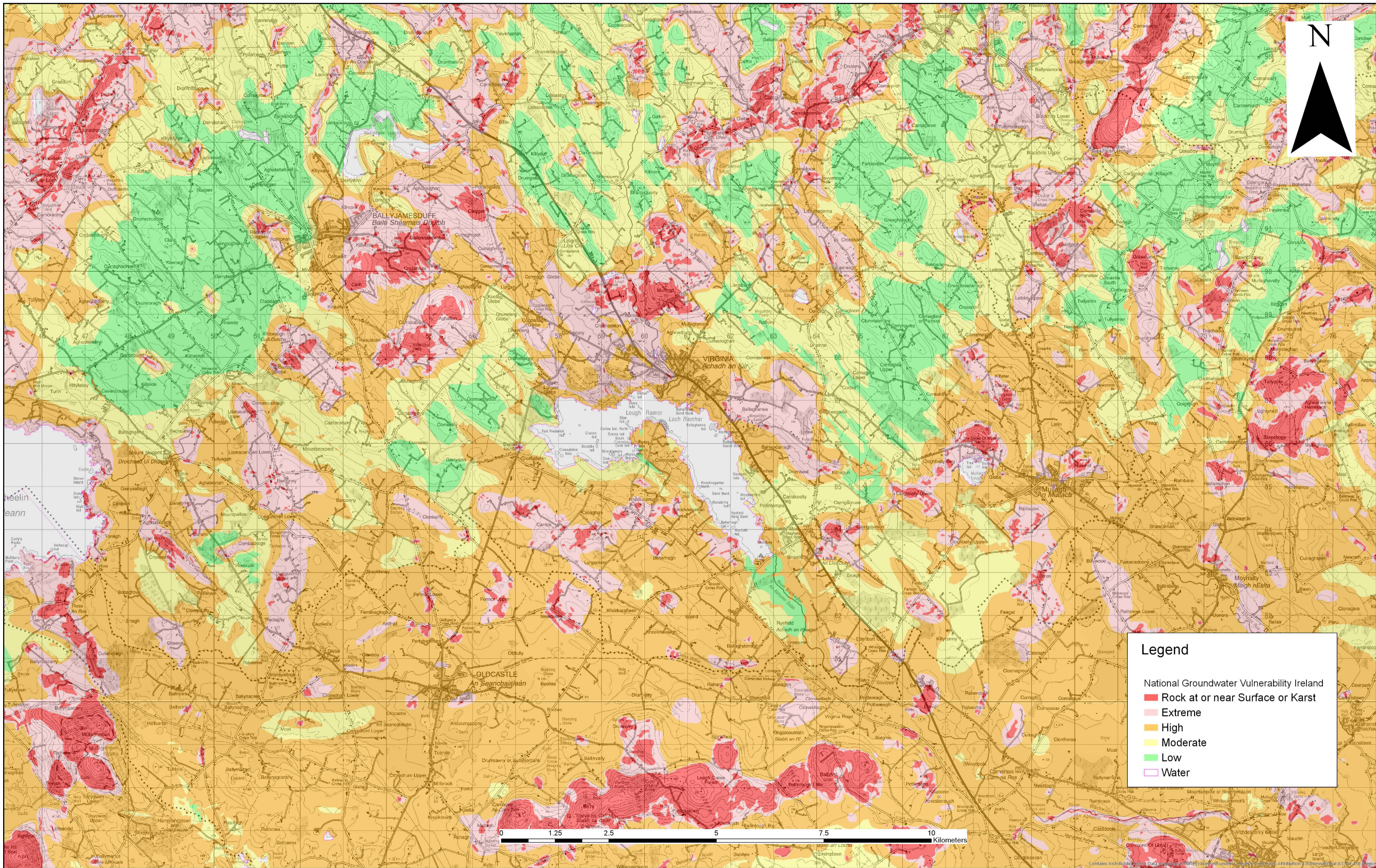
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| Project Title: | N3 VIRGINIA BYPASS                                 | Status:      | S2               |
| Drawing Title: | PHASE 2 CONSTRAINTS - GROUNDWATER WELLS AND SPRING | Rev:         | P01              |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-02508                | Reviewed: TC | Date: 09/12/2019 |
| Drawn: UF      | Scale at A1: N.T.S                                 |              |                  |
| Approved: TC   |  |              |                  |





**Legend**

- National Groundwater Vulnerability Ireland
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low
- Water



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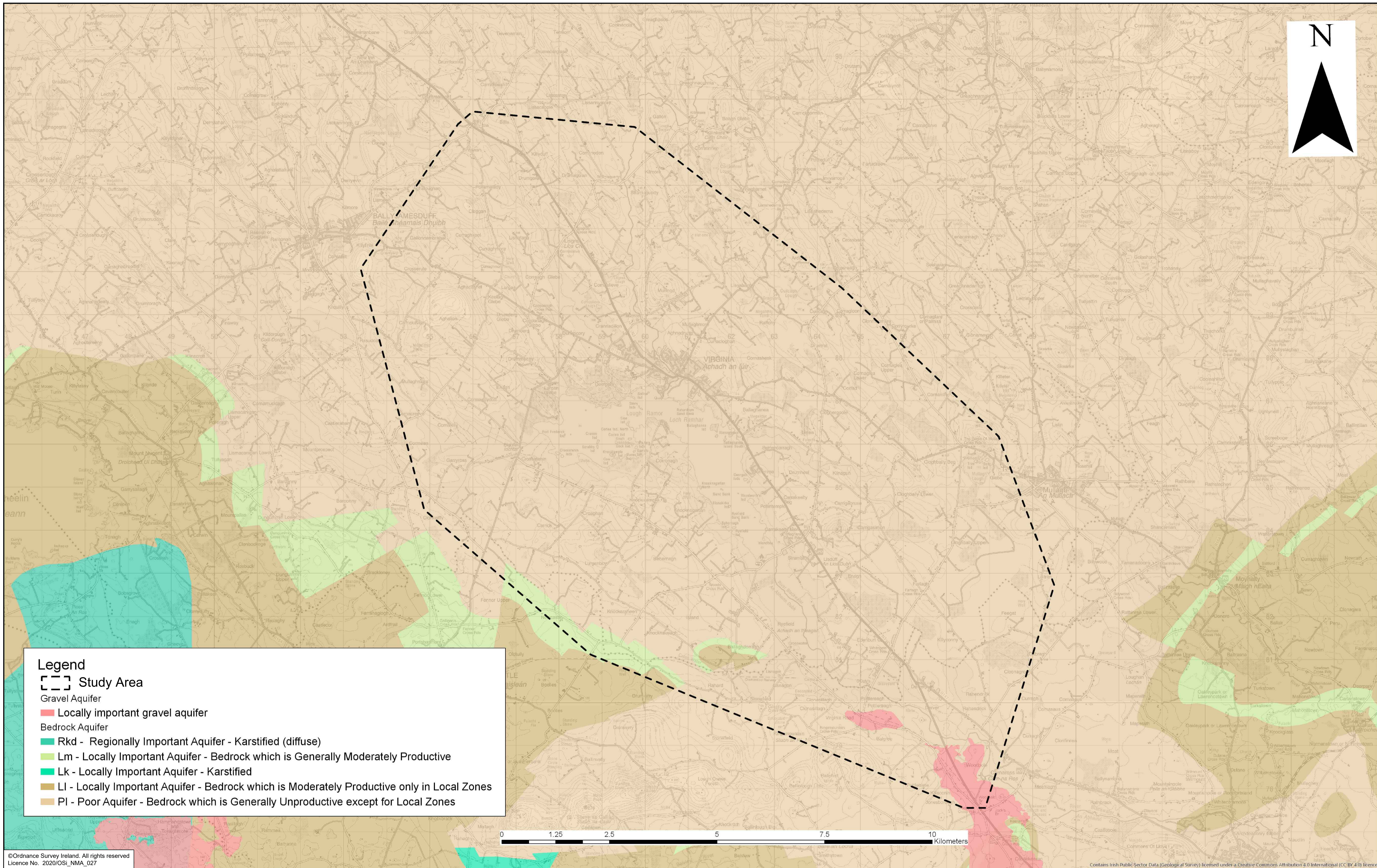
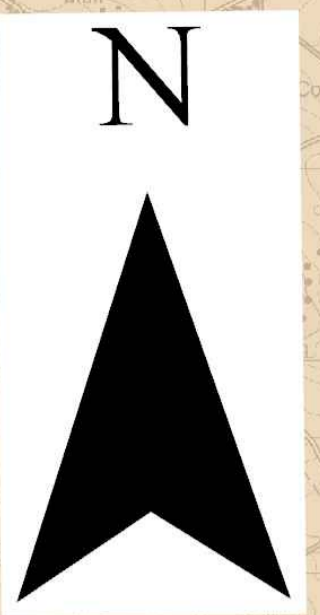
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| Project Title: N3 VIRGINIA BYPASS                              |                    | Status: S2                |          |
| Drawing Title: PHASE 2 CONSTRAINTS - GROUNDWATER VULNERABILITY |                    |                           |          |
| Designed: UF   | File Name: 19408   | Drawing No.:              |          |
| Drawn: UF  | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-02510 | Rev: P01 |
| Approved: RC   | Date: 09/12/2019   |                           |          |
| Checked: TC  |                    |                           |          |

File Name: C:\119 Projects\19408 - N3 Virginia Bypass\00\_WBP\DWG\19408-BT-GN-XX-DR-C-02510\_Groundwater\_Vulnerability.dwg





**Legend**

- Study Area
- Gravel Aquifer
- Locally important gravel aquifer
- Bedrock Aquifer
- Rkd - Regionally Important Aquifer - Karstified (diffuse)
- Lm - Locally Important Aquifer - Bedrock which is Generally Moderately Productive
- Lk - Locally Important Aquifer - Karstified
- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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| Project Title: |              | N3 VIRGINIA BYPASS                         |  | Status: |
| Drawing Title: |              | PHASE 2 CONSTRAINTS - GROUNDWATER AQUIFERS |  | S2      |
| Designed: UF   | Drawn No.    | 19408-BT-GN-XX-DR-C-02511                  |  |         |
| Drawn: UF      | Scale at A1: | N.T.S                                      |  |         |
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| Reviewed: TC   | Rev:         | P01  |  |         |

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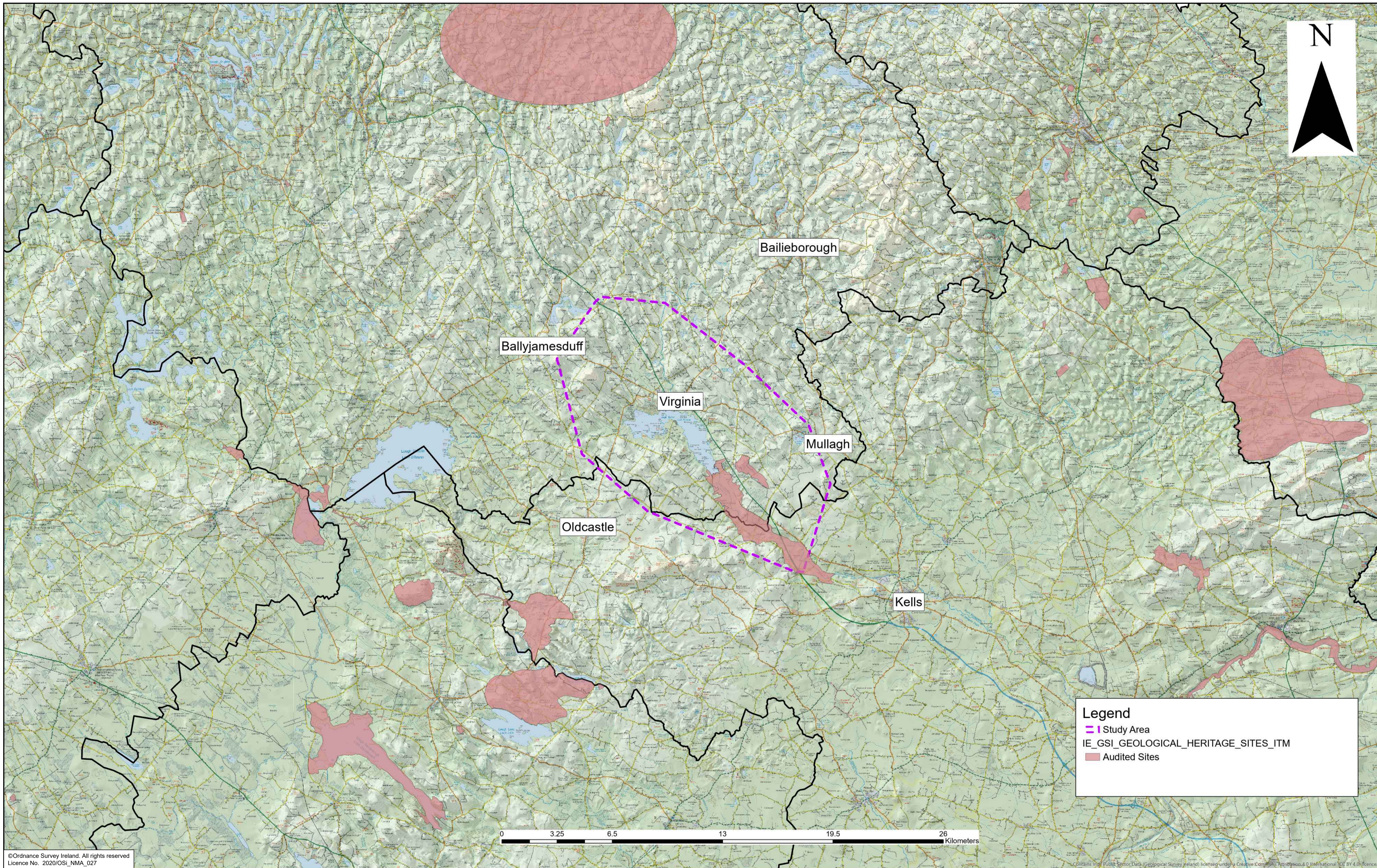
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| Project Title: | N3 VIRGINIA BYPASS                                   | Status:            | S2               |
| Drawing Title: | PHASE 2 CONSTRAINTS - RIVERS, STEAMS AND WATERBODIES | Rev:               | P01              |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-4205                   | Scale at A1: N.T.S | Date: 10/03/2019 |
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File Name: C:\119 Projects\19408-BT-GN-XX-DR-C-4205\_Constraints\_Rivers\_Waterbodies.dwg





**Legend**

- Study Area
- IE\_GSI\_GEOLOGICAL\_HERITAGE\_SITES\_ITM
- Audited Sites

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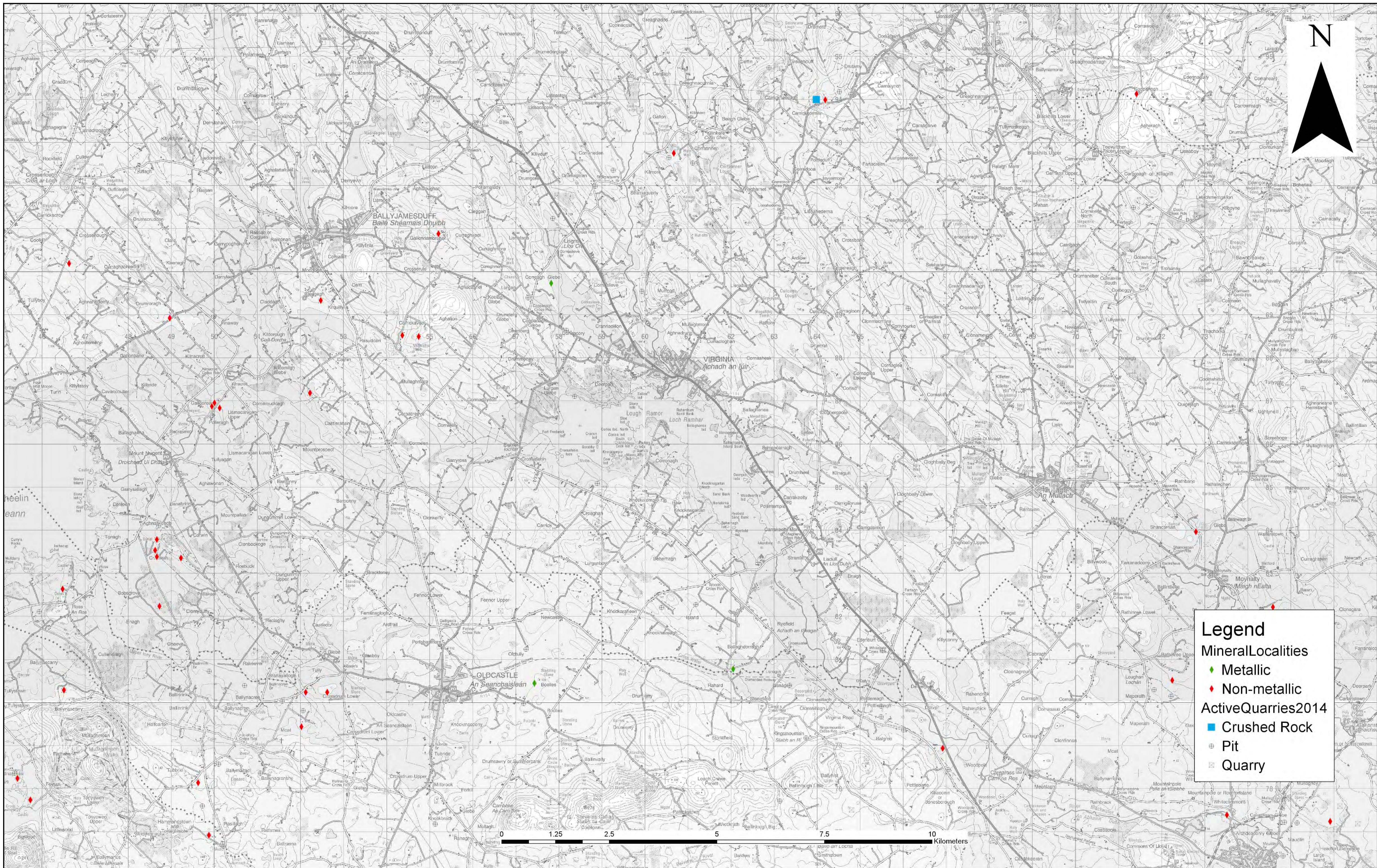
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| Project Title: | N3 VIRGINIA BYPASS                        | Status:      | S2                 |
| Drawing Title: | PHASE 2 CONSTRAINTS - GEOLOGICAL HERITAGE | Rev:         | P01                |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-02512       | Approved: TC | Scale at A1: N.T.S |
| Reviewed: TC   | Date: 09/12/2019                          |              |                    |

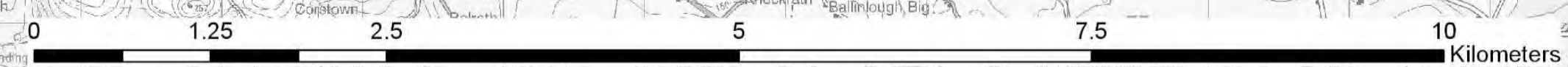
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**Legend**

- ◆ Metallic
- ◆ Non-metallic
- Active Quarries 2014
- ⊕ Pit
- ⊞ Quarry



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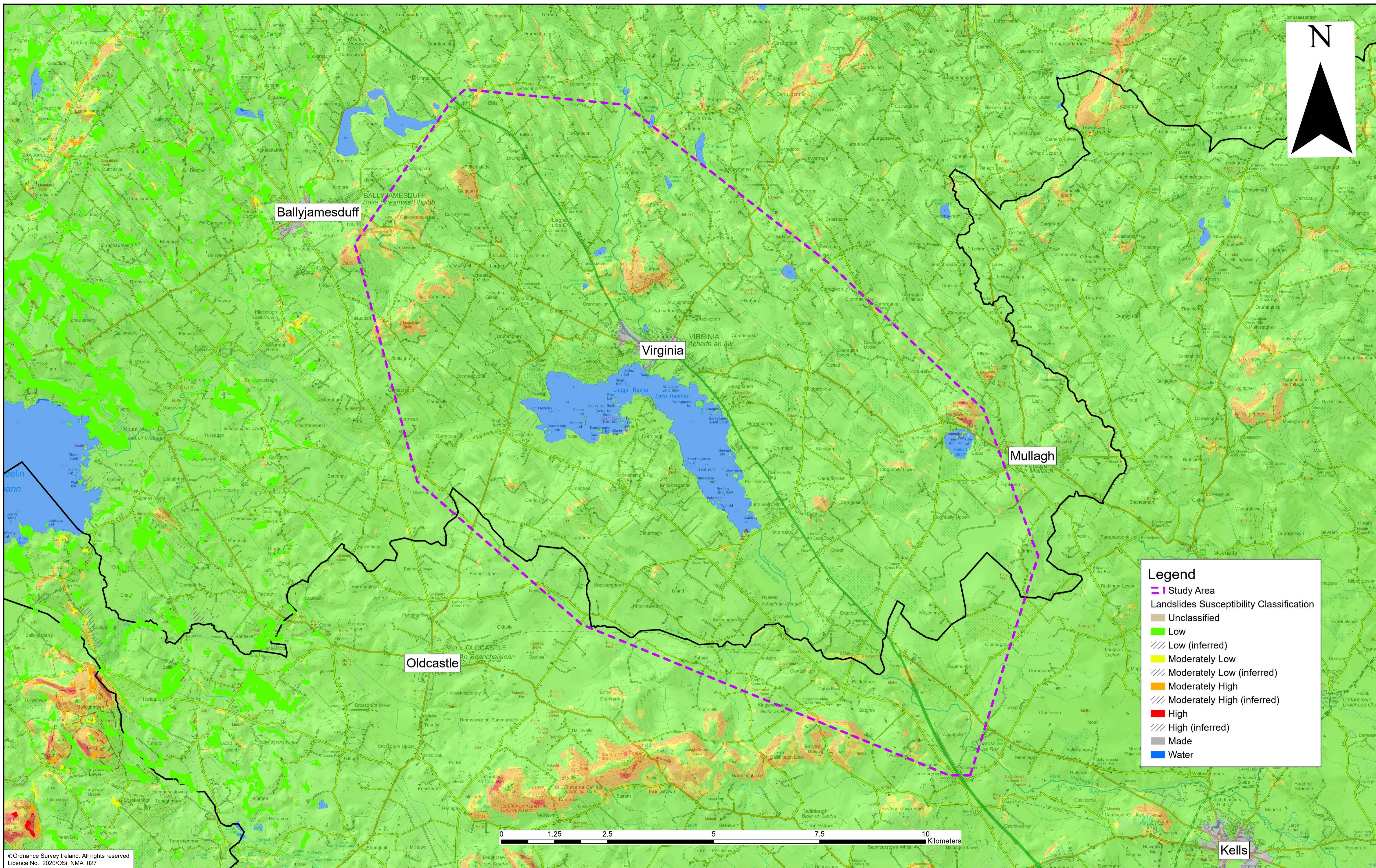
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| Project Title: |              | N3 VIRGINIA BYPASS                          |             | Status:                   | S2   |
| Drawing Title: |              | PHASE 2 CONSTRAINTS - QUARRIES AND MINERALS |             |                           |      |
| Designed: UF   | File Name:   | 19408                                       | Drawing No. | 19408-BT-GN-XX-DR-C-02513 | Rev: |
| Drawn: UF      | Scale at A1: | N.T.S                                       |             |                           | P01  |
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**Legend**

- Study Area
- Landslides Susceptibility Classification
  - Unclassified
  - Low
  - Low (inferred)
  - Moderately Low
  - Moderately Low (inferred)
  - Moderately High
  - Moderately High (inferred)
  - High
  - High (inferred)
  - Made
  - Water

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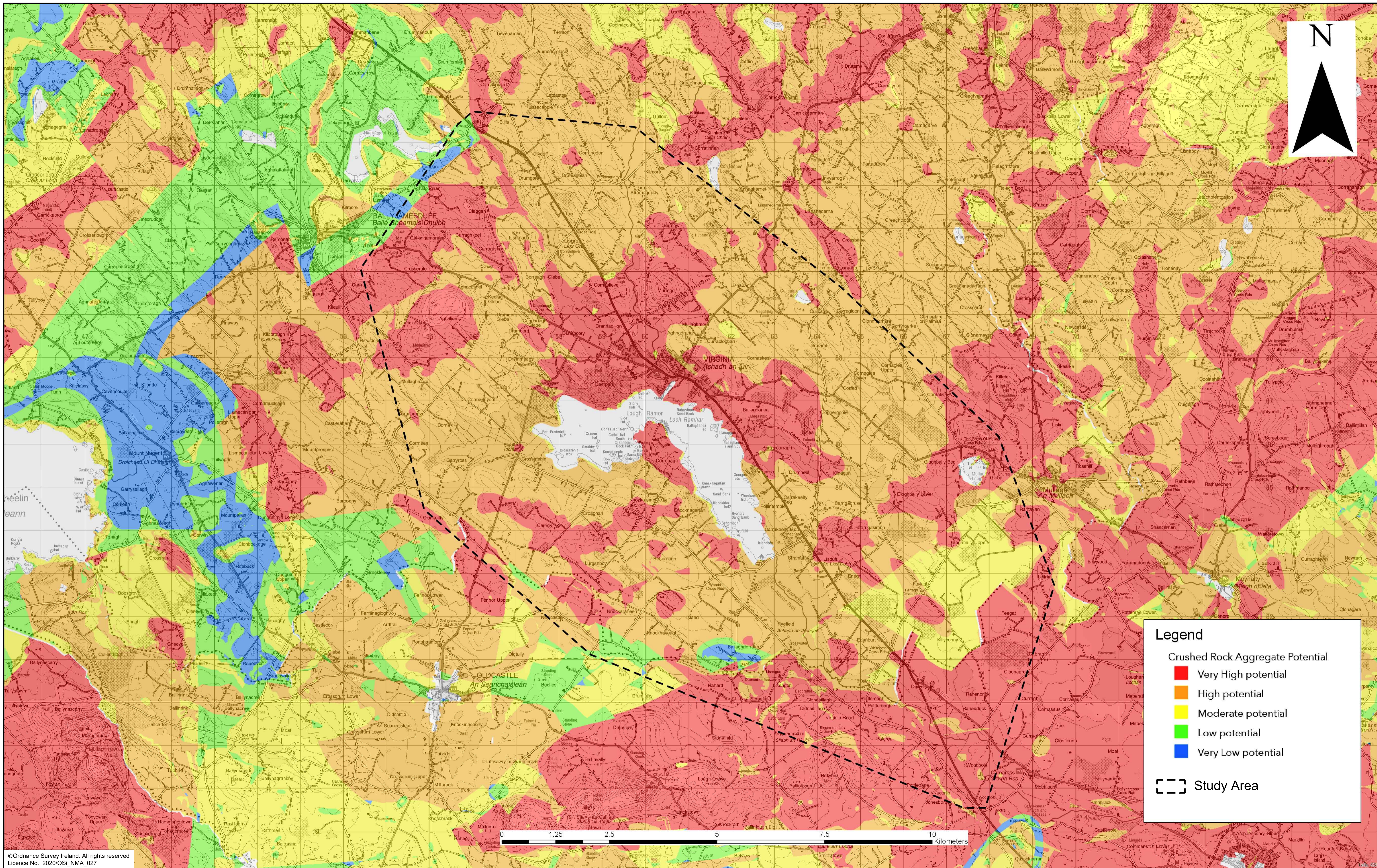
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| Project Title: | N3 VIRGINIA BYPASS                              | Status:      | S2                 |
| Drawing Title: | PHASE 2 CONSTRAINTS - LANDSLIDES SUSCEPTIBILITY | Rev:         | P01                |
| Designed: TC   | Drawing No. 19408-BT-GN-XX-DR-C-02514           | Approved: RC | Scale at A1: N.T.S |
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**Legend**

Crushed Rock Aggregate Potential

- Very High potential
- High potential
- Moderate potential
- Low potential
- Very Low potential

   Study Area

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Project Ireland  
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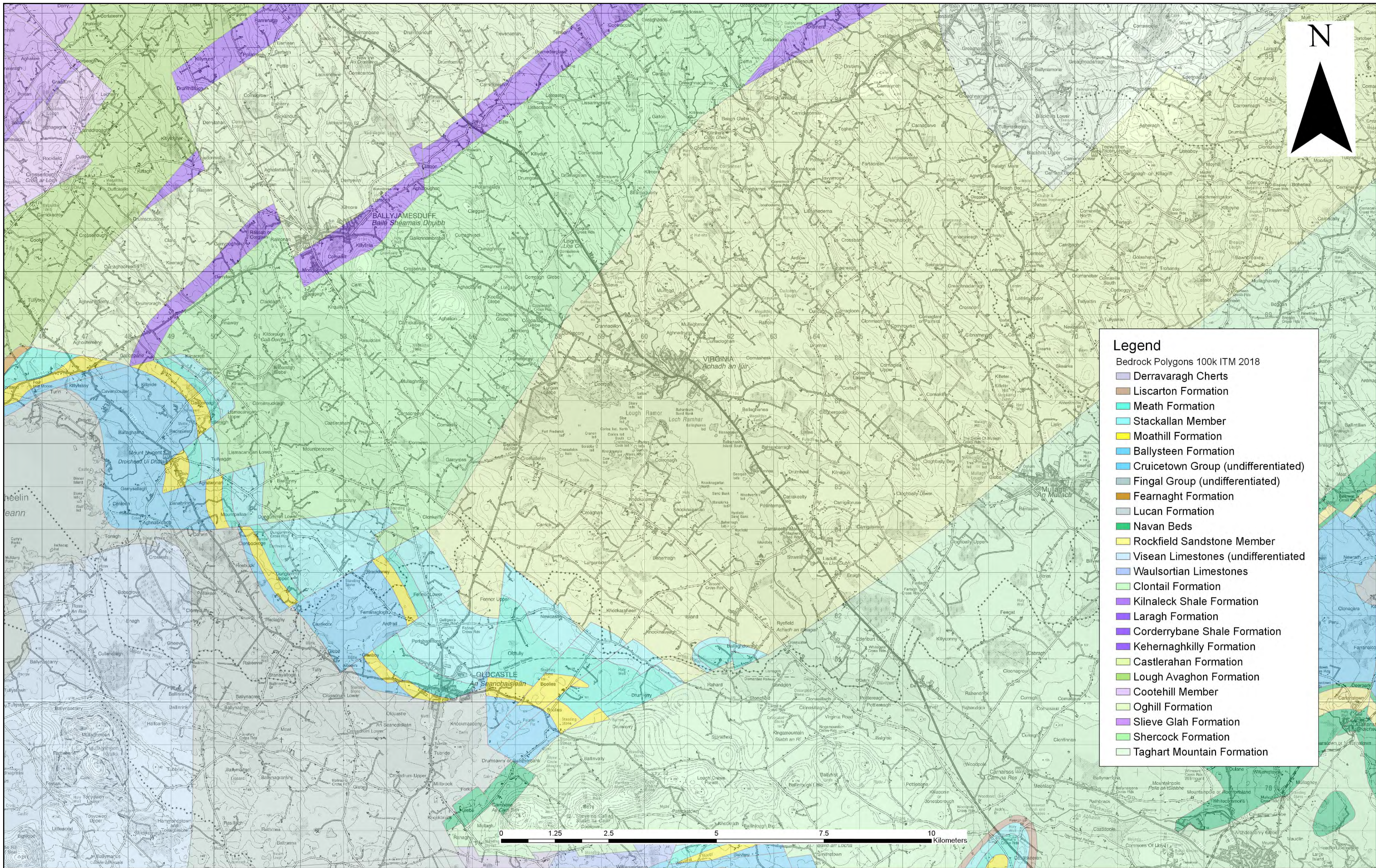
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| Project Title: | N3 VIRGINIA BYPASS                           | Status: |     |
| Drawing Title: | PHASE 2 CONSTRAINTS - CRUSHED ROCK AGGREGATE | Rev:    | S2  |
| Designed: UF   | Drawing No. 19408-BT-GN-XX-DR-C-02515        | Rev:    | P01 |
| Drawn: UF      | Scale at A1: N.T.S                           |         |     |
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### Legend

Bedrock Polygons 100k ITM 2018

- Derravaragh Cherts
- Liscarton Formation
- Meath Formation
- Stackallan Member
- Moathill Formation
- Ballysteen Formation
- Cruicetown Group (undifferentiated)
- Fingal Group (undifferentiated)
- Fearnaght Formation
- Lucan Formation
- Navan Beds
- Rockfield Sandstone Member
- Visean Limestones (undifferentiated)
- Waulsortian Limestones
- Clontail Formation
- Kilnaleck Shale Formation
- Laragh Formation
- Corderrybane Shale Formation
- Kehnernaghkilly Formation
- Castlerahan Formation
- Lough Avaghon Formation
- Cotehill Member
- Oghill Formation
- Slieve Glah Formation
- Shercock Formation
- Taghart Mountain Formation



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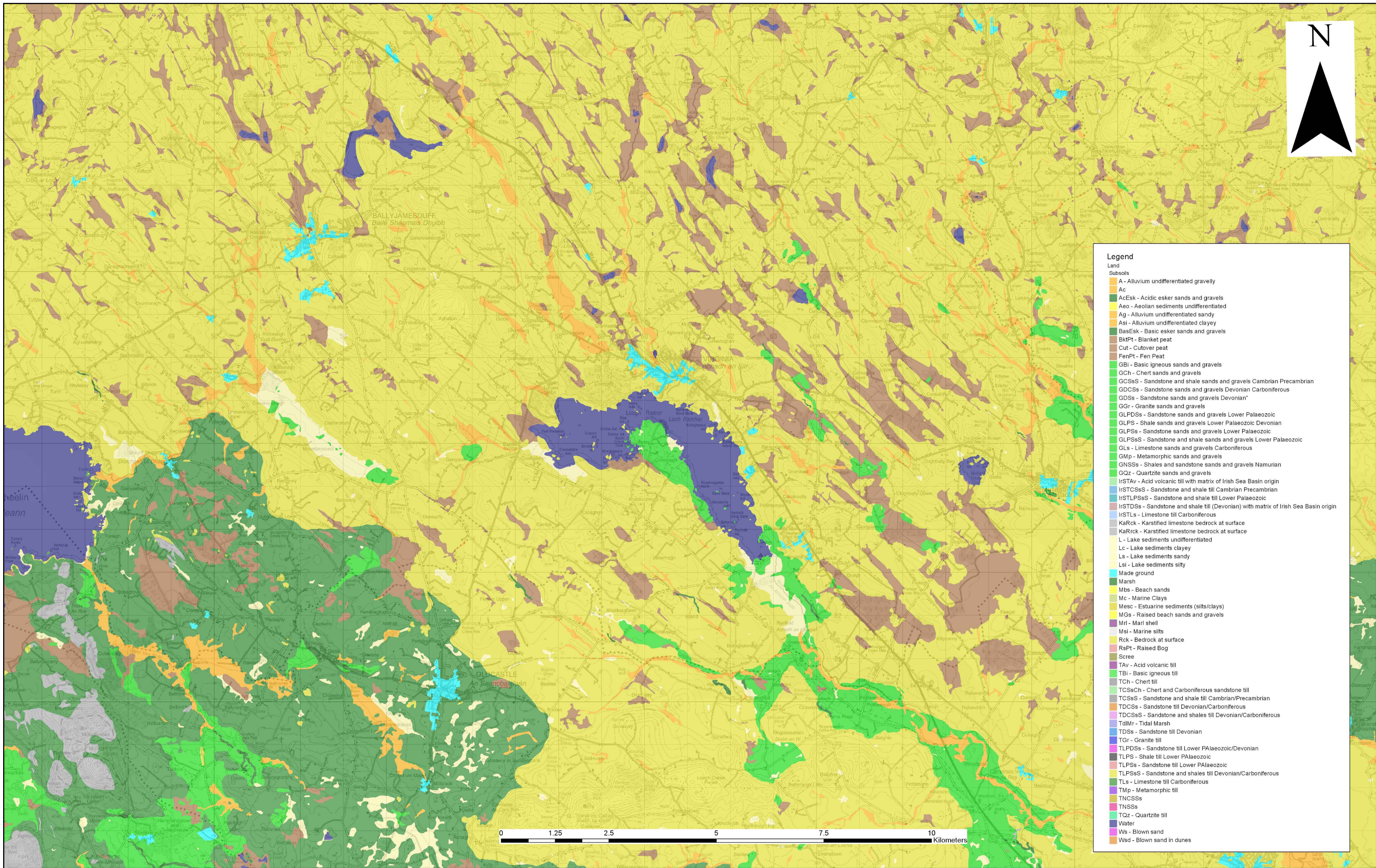
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| Drawing Title: |              | PHASE 2 CONSTRAINTS - BEDROCK GEOLOGY |             | S2                        |      |
| Designed: UF   | File Name:   | 19408                                 | Drawing No. | 19408-BT-GN-XX-DR-C-02516 | Rev: |
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**Legend**

**Land**

**Subsols**

- A - Alluvium undifferentiated gravelly
- Ac
- AcEsk - Acidic esker sands and gravels
- Aeo - Aeolian sediments undifferentiated
- Ag - Alluvium undifferentiated sandy
- Asi - Alluvium undifferentiated clayey
- BasEsk - Basic esker sands and gravels
- BktPt - Blanket peat
- Cut - Cutover peat
- FenPt - Fen Peat
- GBI - Basic igneous sands and gravels
- GCh - Chert sands and gravels
- GCSs - Sandstone and shale sands and gravels Cambrian Precambrian
- GDCSS - Sandstone sands and gravels Devonian Carboniferous
- GDSs - Sandstone sands and gravels Devonian\*
- GR - Granite sands and gravels
- GLPDSs - Sandstone sands and gravels Lower Palaeozoic
- GLPS - Shale sands and gravels Lower Palaeozoic Devonian
- GLPSs - Sandstone sands and gravels Lower Palaeozoic
- GLPSSs - Sandstone and shale sands and gravels Lower Palaeozoic
- GLs - Limestone sands and gravels Carboniferous
- Gmp - Metamorphic sands and gravels
- GNSSs - Shales and sandstone sands and gravels Namurian
- GQz - Quartzite sands and gravels
- IrSTAV - Acid volcanic till with matrix of Irish Sea Basin origin
- IrSTCSsS - Sandstone and shale till Cambrian Precambrian
- IrSTLPSsS - Sandstone and shale till Lower Palaeozoic
- IrSTDsS - Sandstone and shale till (Devonian) with matrix of Irish Sea Basin origin
- IrSTLs - Limestone till Carboniferous
- KaRck - Karstified limestone bedrock at surface
- KaRck - Karstified limestone bedrock at surface
- L - Lake sediments undifferentiated
- Lc - Lake sediments clayey
- Ls - Lake sediments sandy
- Lsi - Lake sediments silty
- Made ground
- Marsh
- Mbs - Beach sands
- Mc - Marine Clays
- Mesc - Estuarine sediments (silts/clays)
- MGs - Raised beach sands and gravels
- Mrl - Marl shell
- Msi - Marine silts
- Rck - Bedrock at surface
- RspT - Raised Bog
- Scree
- TAV - Acid volcanic till
- TBI - Basic igneous till
- TCh - Chert till
- TCSsCh - Chert and Carboniferous sandstone till
- TCSsS - Sandstone and shale till Cambrian/Precambrian
- TDCSS - Sandstone till Devonian/Carboniferous
- TDCSSs - Sandstone and shales till Devonian/Carboniferous
- TdIMr - Tidal Marsh
- TDSs - Sandstone till Devonian
- TGr - Granite till
- TLPDSs - Sandstone till Lower Palaeozoic/Devonian
- TLPS - Shale till Lower Palaeozoic
- TLPSs - Sandstone till Lower Palaeozoic
- TLPSSs - Sandstone and shales till Devonian/Carboniferous
- TLs - Limestone till Carboniferous
- Tmp - Metamorphic till
- TNCSsS
- TNSSs
- TQz - Quartzite till
- Water
- Ws - Blown sand
- Wsd - Blown sand in dunes

File Name: C:\19 Projects\19408 - N3 Virginia Bypass\19408-BT-GN-XX-DR-C-02517\_Subsoils.dwg

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Ireland

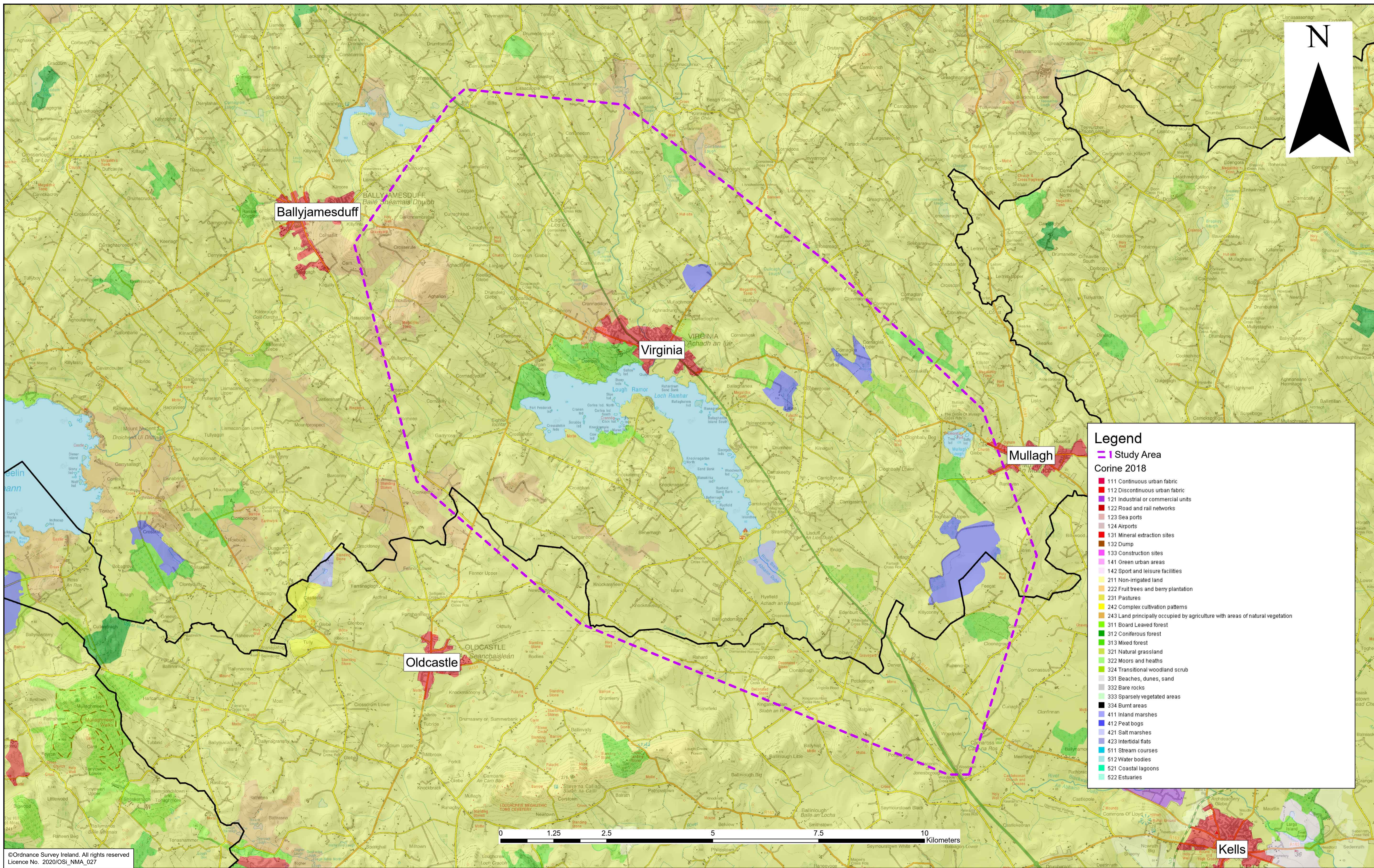
Phone: +353 94 906 8950  
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|---|--------------------|---------------------------|
| Project Title: N3 VIRGINIA BYPASS             |                    | Status:                   |
| Drawing Title: PHASE 2 CONSTRAINTS - SUBSOILS |                    | S2                        |
| Designed: UF                                  | File Name: 19408   | Drawing No.               |
| Drawn: UF                                     | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-02517 |
| Approved: RC                                  | Date: 09/12/2019   | Rev: P01                  |
| Checked: TC                                   |                    |                           |





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Project Ireland  
2040

TII  
Bonnagar Iompair Éireann  
Transport Infrastructure Ireland

An Roinn Iompair  
Department of Transport

Cavan  
Comhairle Chontae na Mí  
meath county council

BARRY  
TRANSPORTATION

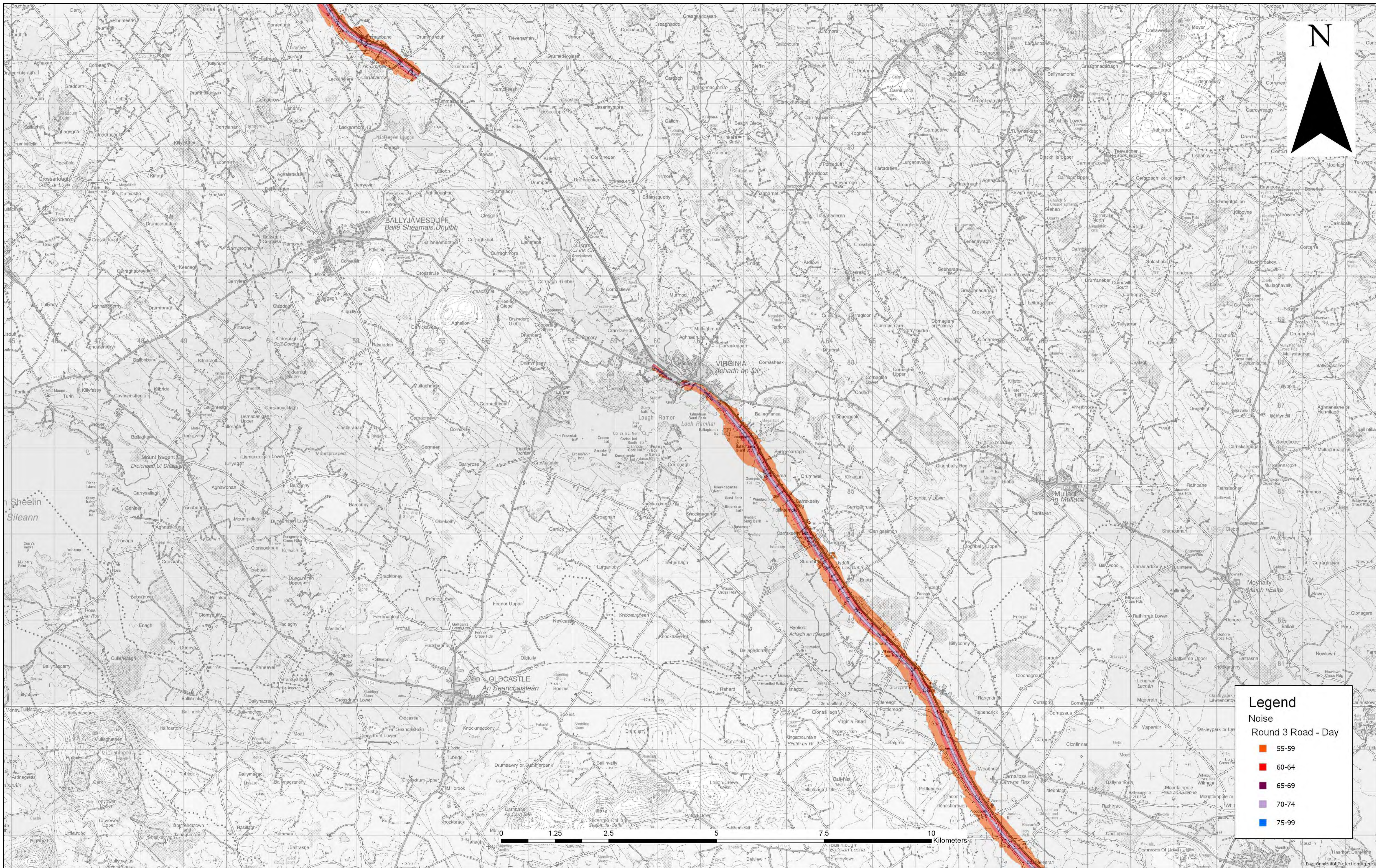
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| P01  | 22/02/21 | UF    | ISSUED FOR INFORMATION | TC    | TC    |

|                |                                     |              |     |
|----------------|-------------------------------------|--------------|-----|
| Project Title: | N3 VIRGINIA BYPASS                  | Status:      | S2  |
| Drawing Title: | PHASE 2 CONSTRAINTS - CORINE 2018   | Rev:         | P01 |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-02518 | Reviewed: TC |     |
| Drawn: UF      | Scale at A1: N.T.S                  |              |     |
| Approved: RC   | Date: 09/12/2019                    |              |     |
| Reviewed: TC   |                                     |              |     |

File Name: 0119 Projects\19408 - N3 Virginia Bypass\001\WIP\Drawings\BT-GN-XX-DR-C-02518\_Corine\_2018.dwg





**Legend**

Noise  
Round 3 Road - Day

- 55-59
- 60-64
- 65-69
- 70-74
- 75-99

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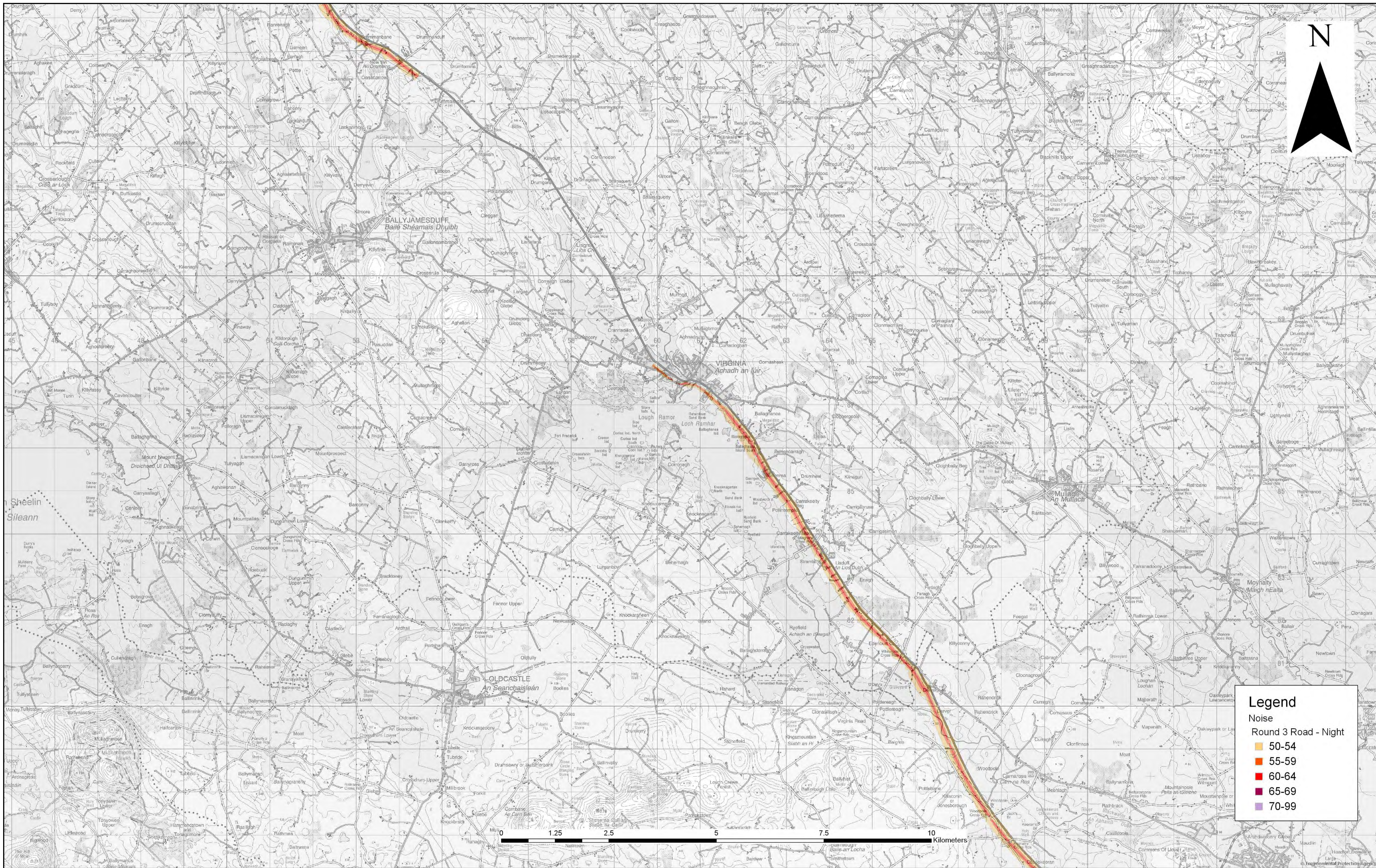
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|--|--------------------|---------------------------|
| Project Title: N3 VIRGINIA BYPASS                      |                    | Status:                   |
| Drawing Title: PHASE 2 CONSTRAINTS - NOISE - ROADS DAY |                    | S2                        |
| Designed: UF   | File Name: 19408   | Drawing No.               |
| Drawn: UF  | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-02519 |
| Approved: RC   | Date: 09/12/2019   | Rev: P01                  |
| Checked: TC  |                    |                           |

File Name: C:\19 Projects\19408 - N3 Virginia Bypass\00\_WBP\09\19408-BT-GN-XX-DR-C-02519\_Noise\_Day.dwg





**Legend**

Noise

Round 3 Road - Night

- 50-54
- 55-59
- 60-64
- 65-69
- 70-99

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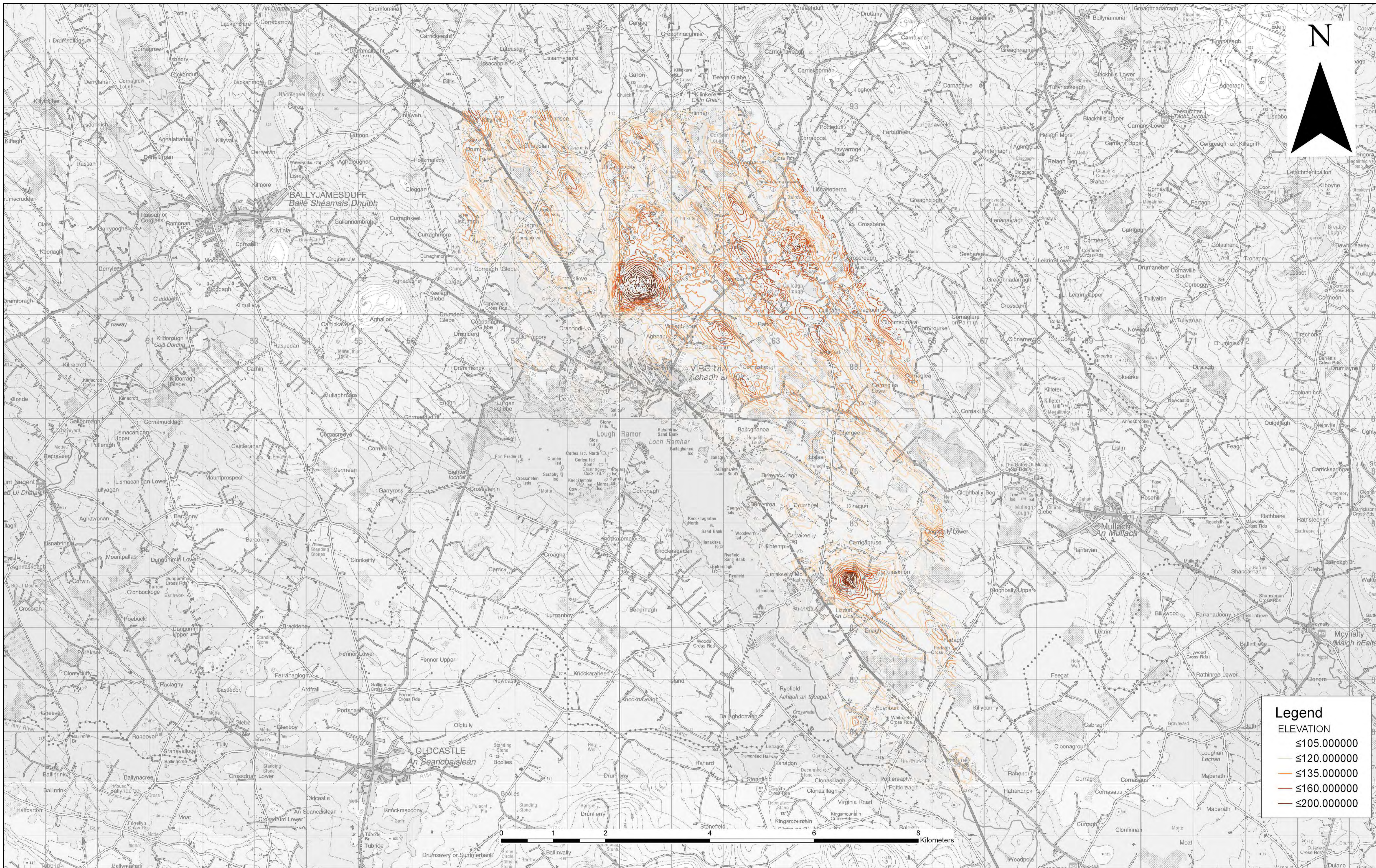
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|--|--------------------|---------------------------|----------|
| Project Title: N3 VIRGINIA BYPASS                        |                    | Status: S2                |          |
| Drawing Title: PHASE 2 CONSTRAINTS - NOISE - ROADS NIGHT |                    |                           |          |
| Designed: UF   | File Name: 19408   | Drawing No.:              |          |
| Drawn: UF  | Scale at A1: N.T.S |                           |          |
| Approved: RC   | Date: 09/12/2019   | 19408-BT-GN-XX-DR-C-02520 | Rev: P01 |
| Checked: TC  |                    |                           |          |

File Name: C:\19 Projects\19408 - N3 Virginia Bypass\19408-BT-GN-XX-DR-C-02520\_Noise\_Night.dwg





| Legend    |             |
|-----------|-------------|
| ELEVATION |             |
|           | ≤105.000000 |
|           | ≤120.000000 |
|           | ≤135.000000 |
|           | ≤160.000000 |
|           | ≤200.000000 |

0 1 2 4 6 8 Kilometers

File Name: C:\119 Projects\19408 - N3 Virginia Bypass\19408-BT-GN-XX-DR-C-0251\_Combans.dwg

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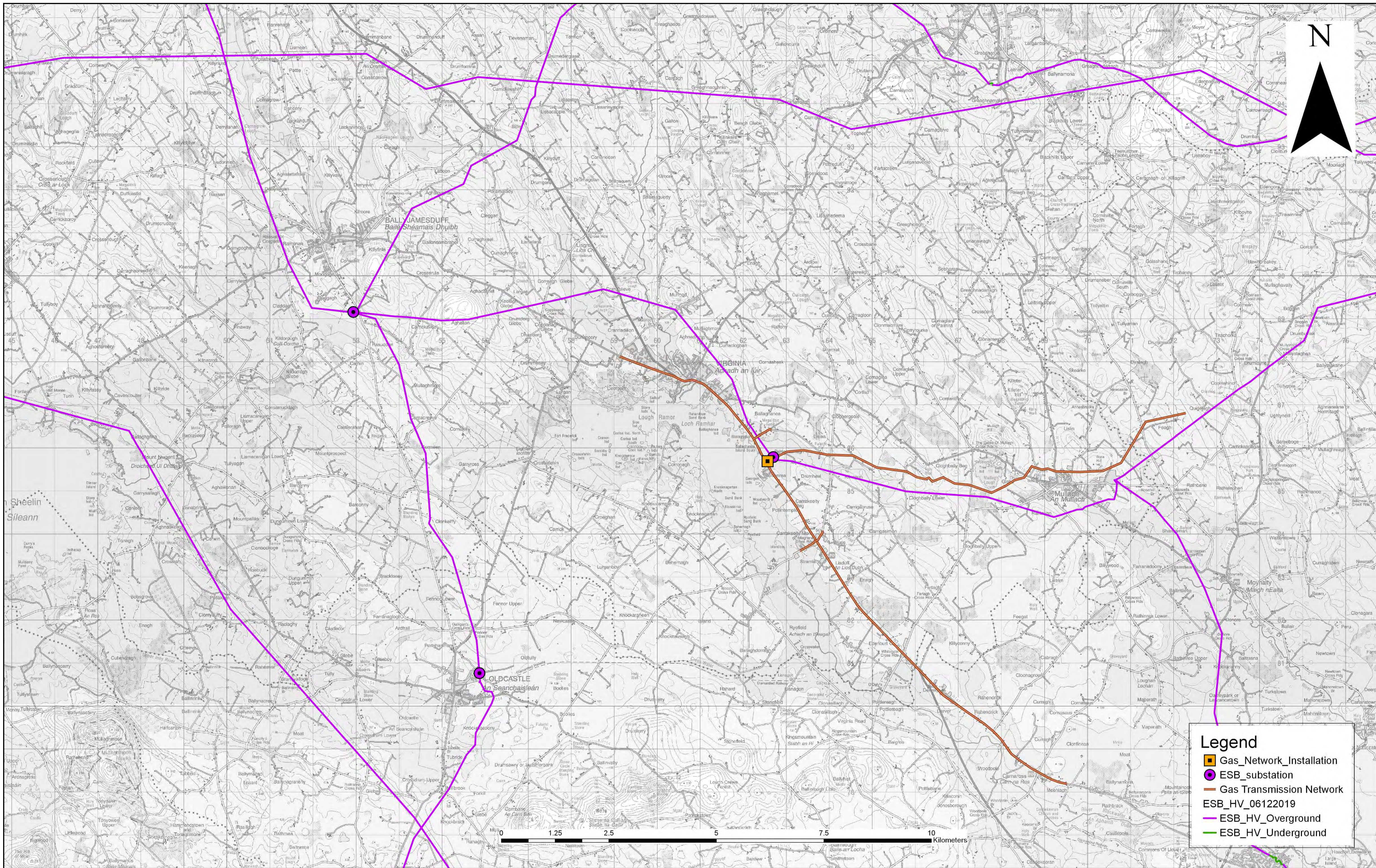
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|--|--------------------|--------------------------|
| Project Title: N3 VIRGINIA BYPASS                |                    | Status:                  |
| Drawing Title: PHASE 2 CONSTRAINTS - CONTOUR MAP |                    | S2                       |
| Designed: UF                                     | File Name: 19408   | Drawing No.              |
| Drawn: UF  | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-0251 |
| Approved: RC                                     | Date: 09/12/2019   | Rev: P01                 |
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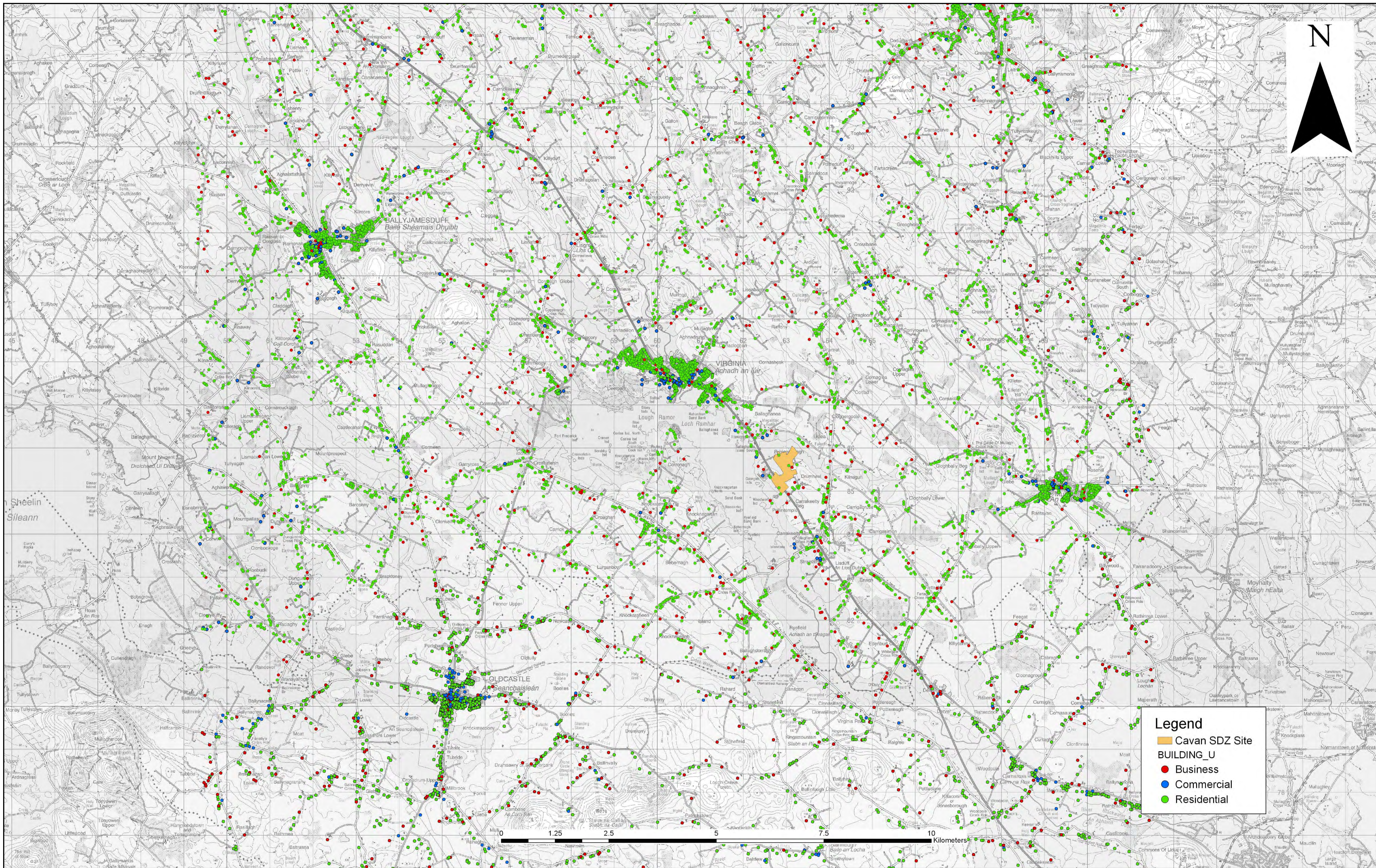
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|---|--------------------|---------------------------|
| Project Title: N3 VIRGINIA BYPASS   |                    | Status:                   |
| Drawing Title: PHASE 2 CONSTRAINTS - UTILITIES - ESB & GAS TRANSMISSION NETWORK |                    | S2                        |
| Designed: UF  | File Name: 19408   | Drawing No.               |
| Drawn: UF   | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-02506 |
| Approved: RC  | Date: 09/12/2019   | Rev: P01                  |
| Checked: TC   |                    |                           |

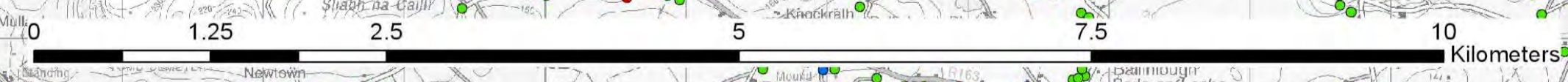
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**Legend**

- Cavan SDZ Site
- BUILDING\_U**
- Business
- Commercial
- Residential



File Name: C:\19 Projects\19408 - N3 Virginia Bypass\19408-BT-GN-XX-DR-C-02500\_Geodirectory.dwg

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|--|--------------------|---------------------------|
| Project Title: N3 VIRGINIA BYPASS                  |                    | Status:                   |
| Drawing Title: PHASE 2 CONSTRAINTS - GEO-DIRECTORY |                    | S2                        |
| Designed: UF                                       | File Name: 19408   | Drawing No.               |
| Drawn: UF  | Scale at A1: N.T.S | 19408-BT-GN-XX-DR-C-02500 |
| Approved: RC                                       | Date: 09/12/2019   | Rev: P01                  |
| Checked: TC  |                    |                           |





### Legend

- Study Area
- County Boundaries
- Cavan SDZ Site
- Ⓜ Places of Worship
- Ⓜ Primary School
- Ⓜ Post Primary School
- Ⓜ Council Burial Grounds
- Ⓜ Community Sports Facilities
- Ⓜ Childcare
- Protected Structures

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| P01  | 10/03/2020 | UF    | ISSUED FOR INFORMATION | RC    | TC    |

|                |   |              |     |
|----------------|---|--------------|-----|
| Project Title: | N3 VIRGINIA BYPASS                        | Status:      | S2  |
| Drawing Title: | PHASE 2 CONSTRAINTS - SENSITIVE RECEPTORS | Rev:         | P01 |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-4201        | Reviewed: TC |     |
| Drawn: UF      | Scale at A1: N.T.S                        |              |     |
| Approved: RC   | Date: 10/03/2019                          |              |     |

File Name: C:\119 Projects\19408-BT-GN-XX-DR-C-201\_Constraints\_Sensitive\_Receptors.dwg





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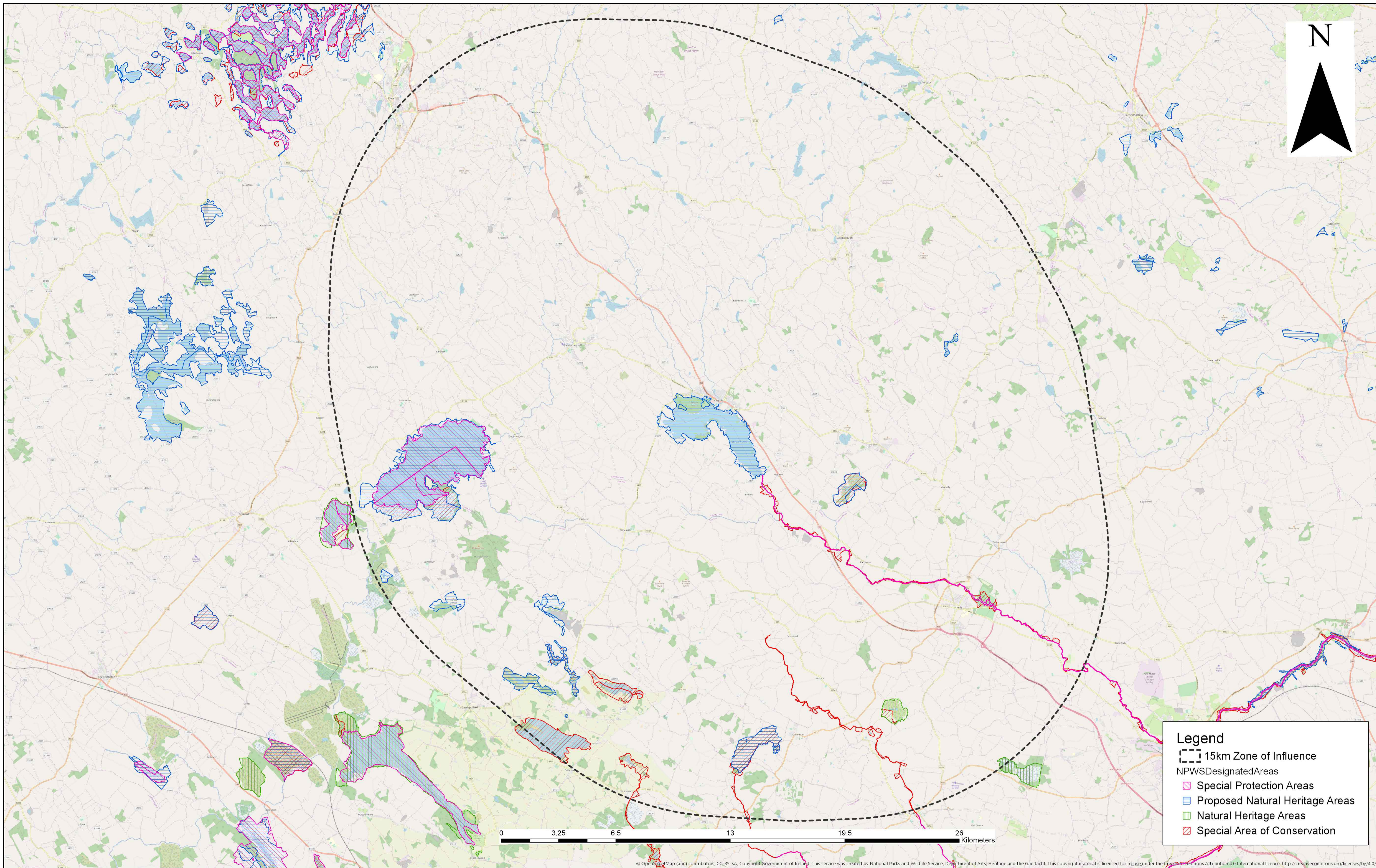
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|----------------|---|--------------|-----|
| Project Title: | N3 VIRGINIA BYPASS                            | Status:      | S2  |
| Drawing Title: | PHASE 2 CONSTRAINTS - HEALTH CENTRE LOCATIONS | Rev:         | P01 |
| Designed: UF   | Drawn No. 19408-BT-GN-XX-DR-C-4202            | Reviewed: TC |     |
| Drawn: UF      | Scale at A1: N.T.S                            |              |     |
| Approved: RC   | Date: 10/03/2019                              |              |     |

File Name: C:\119 Projects\19408 - N3 Virginia Bypass\19408-BT-GN-XX-DR-C-202\_Constraints\_Health\_Centre\_Locations.dwg





**Legend**

- 15km Zone of Influence
- NPWS Designated Areas
- Special Protection Areas
- Proposed Natural Heritage Areas
- Natural Heritage Areas
- Special Area of Conservation

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Transport Infrastructure Ireland

**Project Ireland 2040**  
Building Ireland's Future

**Cavan**  
Comhairle Contae an Chabháin  
Cavan County Council

**comhairle chontae na mí meath county council**

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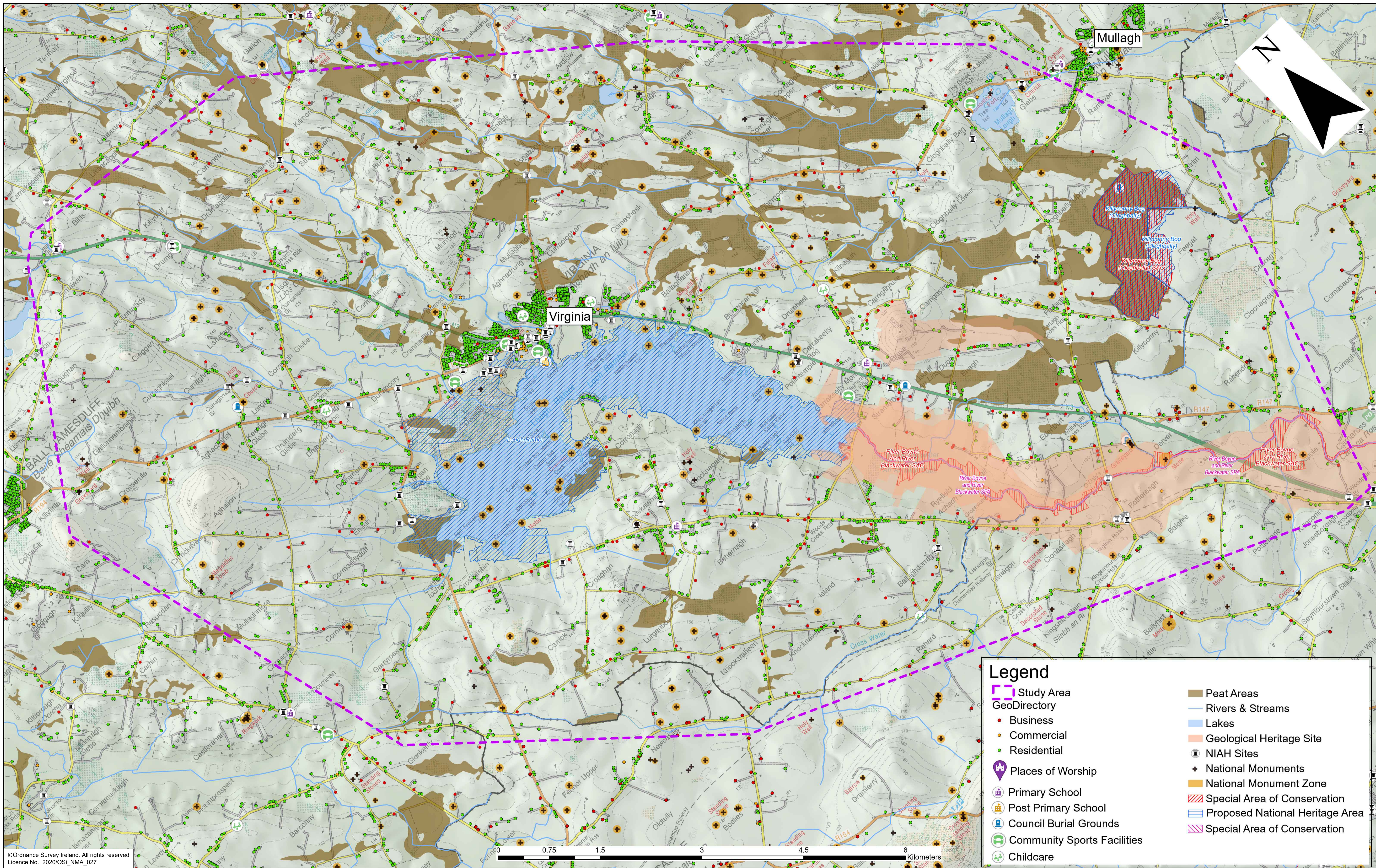
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|---|--------------------|---------------------------------------|
| Project Title: N3 VIRGINIA BYPASS                                 |                    | Status: S2                            |
| Drawing Title: PHASE 2 CONSTRAINTS - DESIGNATED AREAS WITHIN 15km |                    |                                       |
| Designed: UF  | File Name: 19408   | Drawing No. 19408-BT-GN-XX-DR-C-02503 |
| Drawn: UF   | Scale at A1: N.T.S | Rev: P01                              |
| Approved: RC  | Date: 09/12/2019   |                                       |
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### Legend

- Study Area
- GeoDirectory
- Business
- Commercial
- Residential
- Ⓜ Places of Worship
- Ⓜ Primary School
- Ⓜ Post Primary School
- Ⓜ Council Burial Grounds
- Ⓜ Community Sports Facilities
- Ⓜ Childcare
- Peat Areas
- Rivers & Streams
- Lakes
- Geological Heritage Site
- NIAH Sites
- + National Monuments
- National Monument Zone
- Special Area of Conservation
- Proposed National Heritage Area
- Special Area of Conservation

Tionscail Eireann  
 Project Ireland  
**2040**  
 An Reigi Iompair  
 Turasóiríochta agus Spóirt  
 Department of Transport,  
 Tourism and Sport

**Cavan**  
 Comhairle Contae an Chabhlaigh  
 County Council  
 comhairle chontae na mí  
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| P01  | 04/03/2020 | UF    | ISSUED FOR INFORMATION | RC    | TC    |

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|----------------|--|--------------------|------------------|
| Project Title: | N3 VIRGINIA BYPASS                             | Status:            | S2               |
| Drawing Title: | PHASE 2 CONSTRAINTS - COMBINED CONSTRAINTS MAP | Rev:               | P01              |
| Designed: UF   | Drawn: UF                                      | Scale at A1: N.T.S | Date: 09/12/2019 |
| Approved: RC   | Reviewed: TC                                   |                    |                  |

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