

- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- Associatio**
- Lake alluvium
 - Marine alluvium
 - River alluvium
 - Fine loamy drift with siliceous stones
 - Fine loamy drift with siliceous stones
 - Blown sand/Dune
 - Fine loamy drift with limestones
 - Fine loamy drift with siliceous stones
 - Coarse loamy drift with siliceous stones
 - Fine loamy drift with igneous & metamorphic stones
 - Peat
 - Island
 - Tidal marsh
 - Urban
 - Water body

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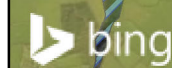
**Soils Deposits Map
Regional
Sheet 1 of 8**

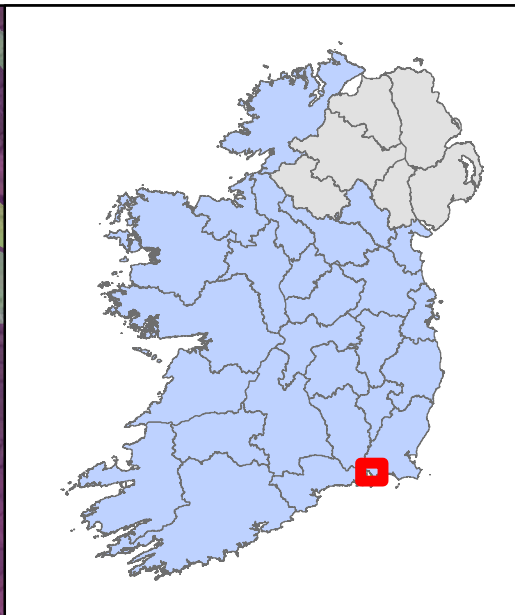
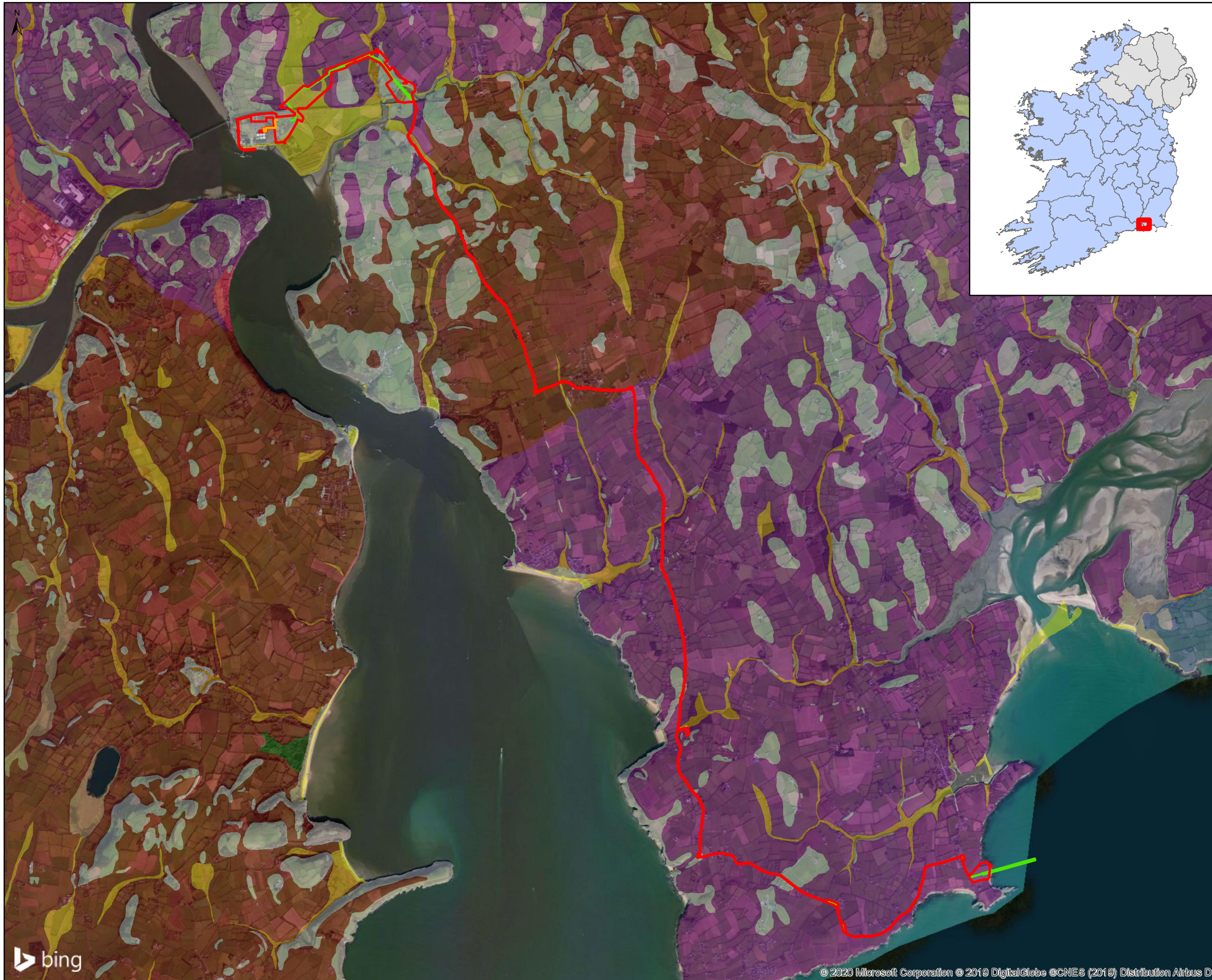
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Kilometers
0 0.4 0.8 1.6

Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.1	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- GSI Quaternary Sediments**
- A, Alluvium
 - Cut, Cut over raised peat
 - Embankment
 - FenPt, Fen Peat
 - L, Lacustrine sediments
 - MGs, Marine gravel and sands (often raised)
 - Mbs, Marine beach sands
 - Mesc, Estuarine silts and clays
 - Pier
 - Rck, Bedrock outcrop or subcrop
 - TAV, Till derived from acidic volcanic rocks
 - TCSsS, Till derived from Cambrian sandstones and shales
 - TDSs, Till derived from Devonian sandstones
 - TLPS, Till derived from Lower Palaeozoic shales
 - TdiMr, Tidal Marsh
 - Water
 - Ws, Windblown sands
 - Wsd, Windblown sands and dunes



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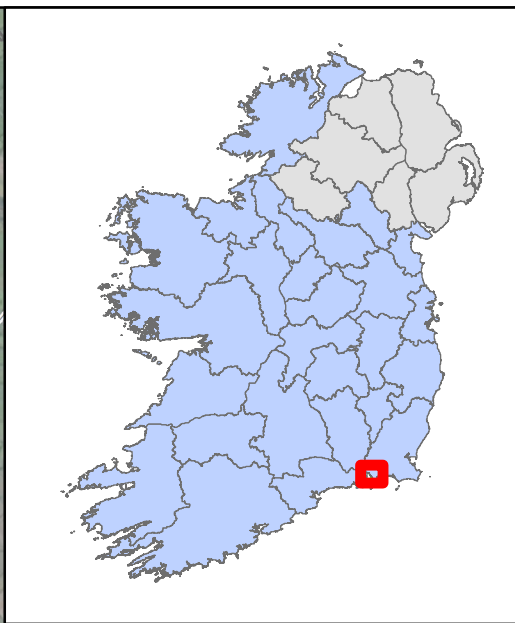
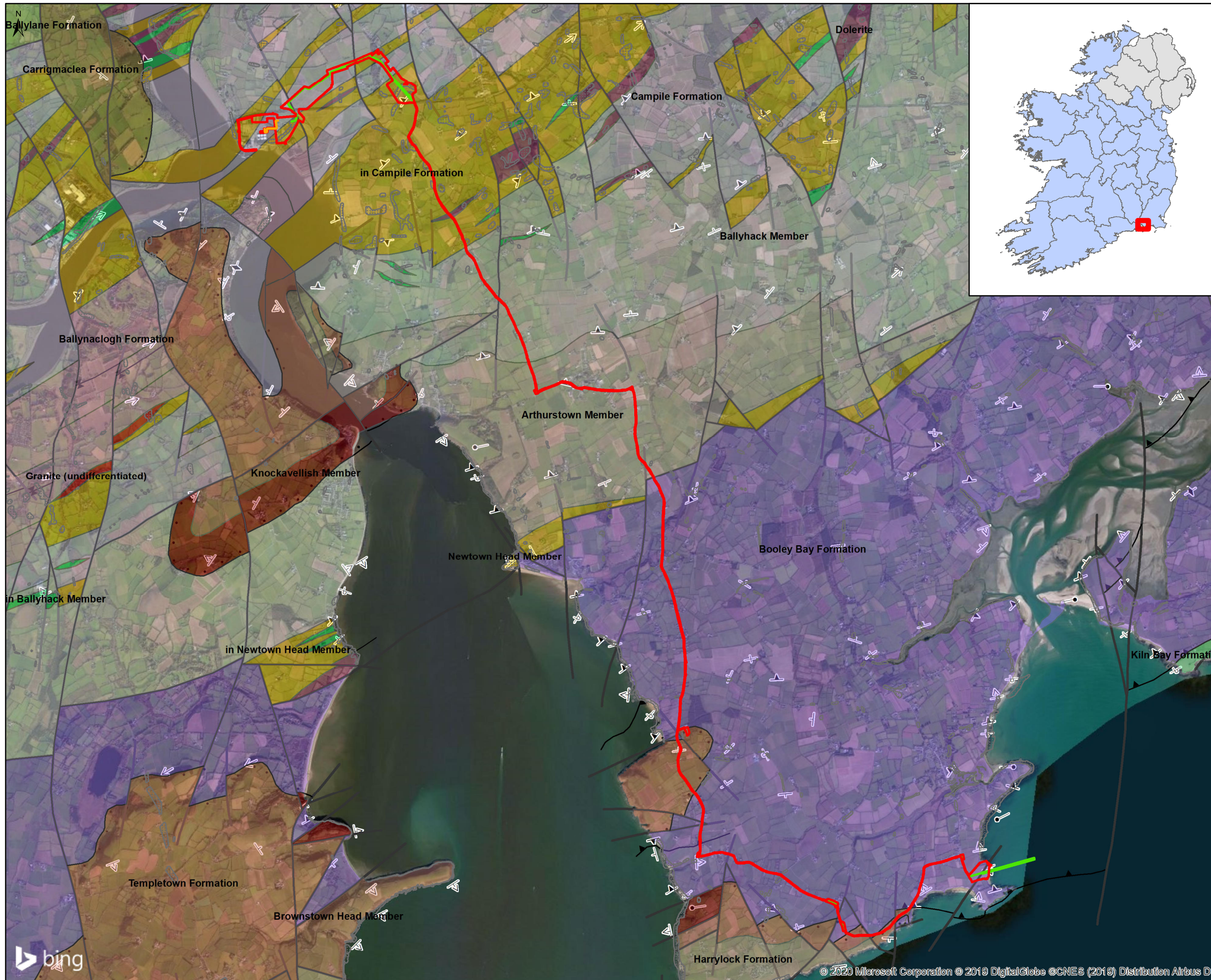
**Subsoil Deposits Map
Regional
Sheet 2 of 8**

Scale at A3
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Drawing No Figure 12.2	Issue D3
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Legend

- HVAC Cable Route
- Red Line Boundary
- HVDC Cable Route

Bedrock Outcrops 100 ITM 2018

- Bedrock Outcrops 100 ITM 2018

Bedrock Polygons 100k ITM 2018

- Booley Bay Formation
- Kiln Bay Formation
- Carrigmaclea Formation
- Harrylock Formation
- Templetown Formation
- Knockavellish Member
- Brownstown Head Member
- Dolerite
- Granite (undifferentiated)
- Ballylane Formation
- Ballynaclogh Formation
- Campile Formation
- Newtown Head Member
- in Newtown Head Member
- in Newtown Head Member
- Arthurstown Member
- Ballyhack Member
- in Ballyhack Member
- in Campile Formation
- in Campile Formation
- Ballyhoge Formation

Structural Symbols 100K ITM 2018

- Fault
- Lithological boundary offshore
- Synclinal Axis
- Thrust, barbs on hanging-wall side
- Unconformity, dots on younger side

Structural Symbols 100K ITM 2018

- Dip of bedding or main foliation, old GSI data
- Strike and dip of bedding, right way up
- Strike and dip of bedding, way up unknown
- Strike of vertical bedding/foliation
- Strike of vertical first foliation

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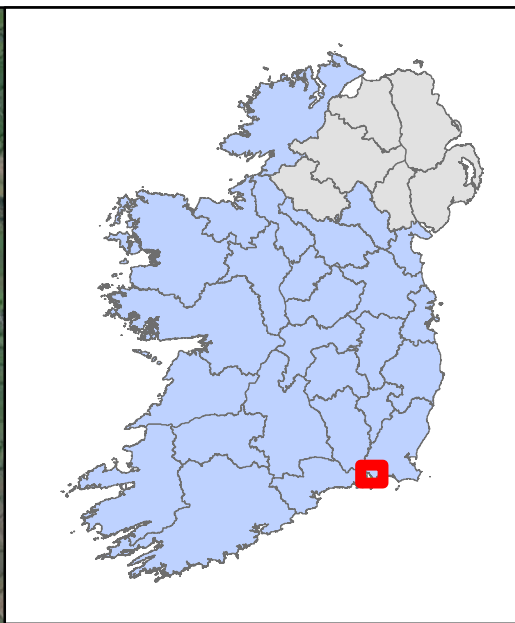
Job Title: **Greenlink Interconnector**

Bedrock Geology Map
Regional
Sheet 3 of 8

Scale at A3: 1:55,000

Job No: 246369-00 | Drawing Status: Draft

Drawing No: Figure 12.3 | Issue: D3



Legend

- HVAC Cable Route
- Red Line Boundary
- HVDC Cable Route

Mineral Localities

- chlorite
- clay, brick
- conglomerate
- copper
- galena
- gossan
- igneous rocks (in general)
- iron
- lead
- manganese
- pyrite
- quartz
- sandstone (in general)
- shale
- siderite
- slate

Geological Heritage Zones

- Newtown
- Raheen Shore
- Geological Heritage Site

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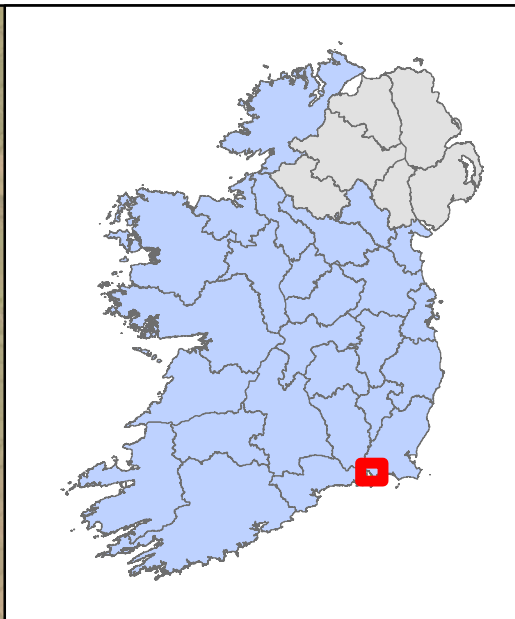
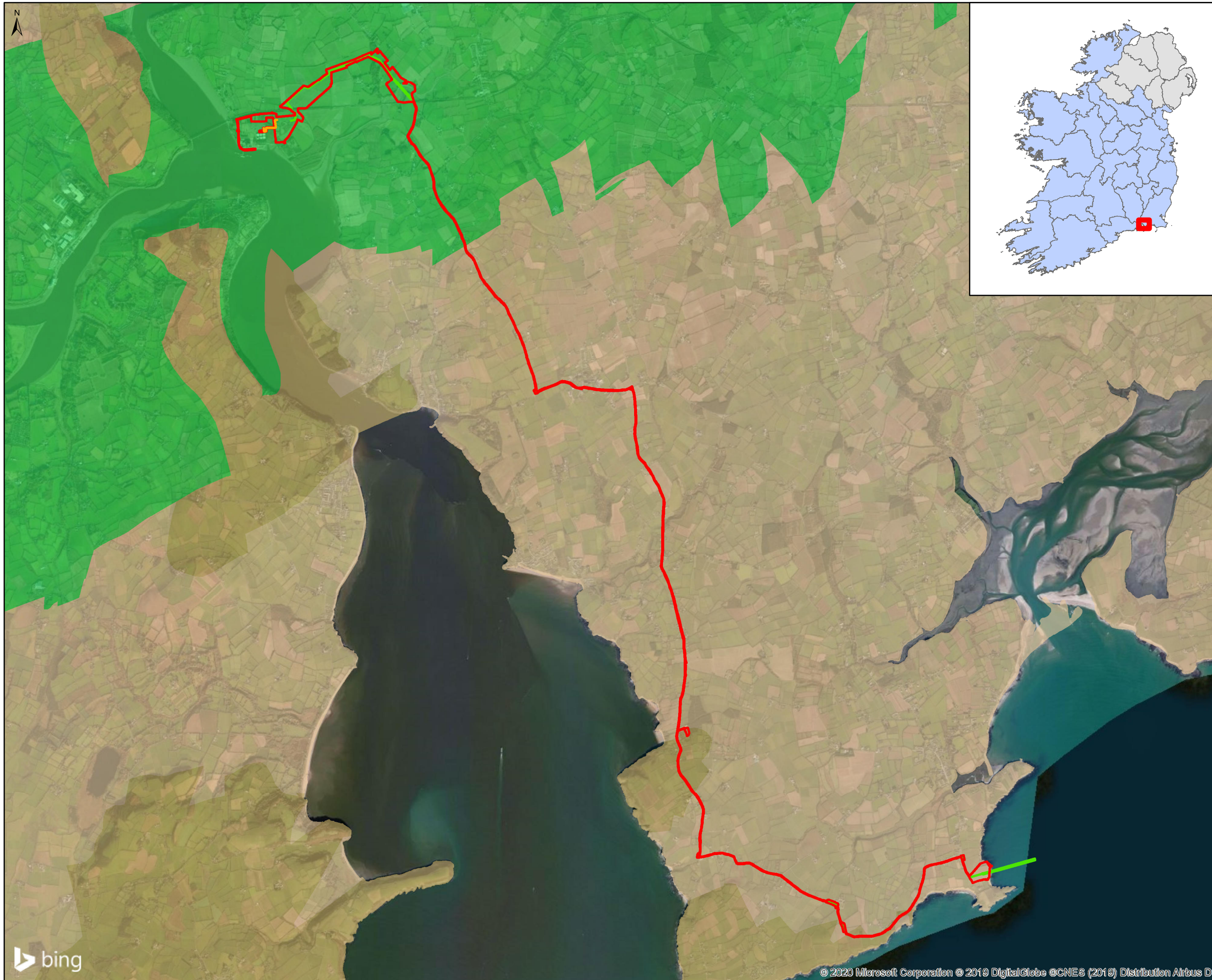
Geological Constraints Map
Regional
Sheet 4 of 8

Scale at A3
1:55,000

Kilometers
0 0.4 0.8 1.6

Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.4	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- Bedrock Aquifers**
- 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
 - Rf - Regionally Important Aquifer - Fissured bedrock

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**Aquifer Map
Regional
Sheet 5 of 8**

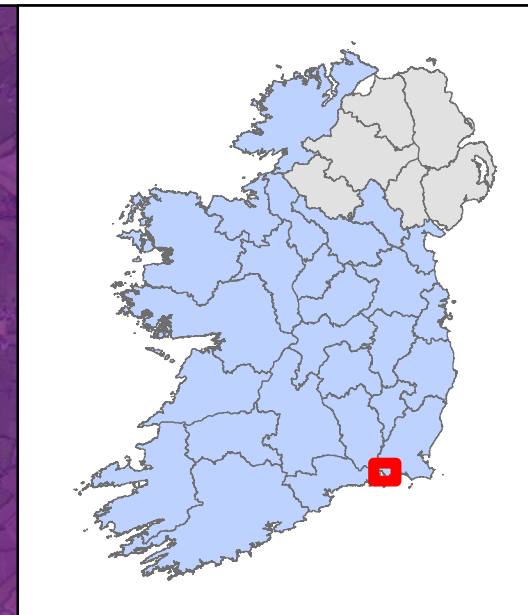
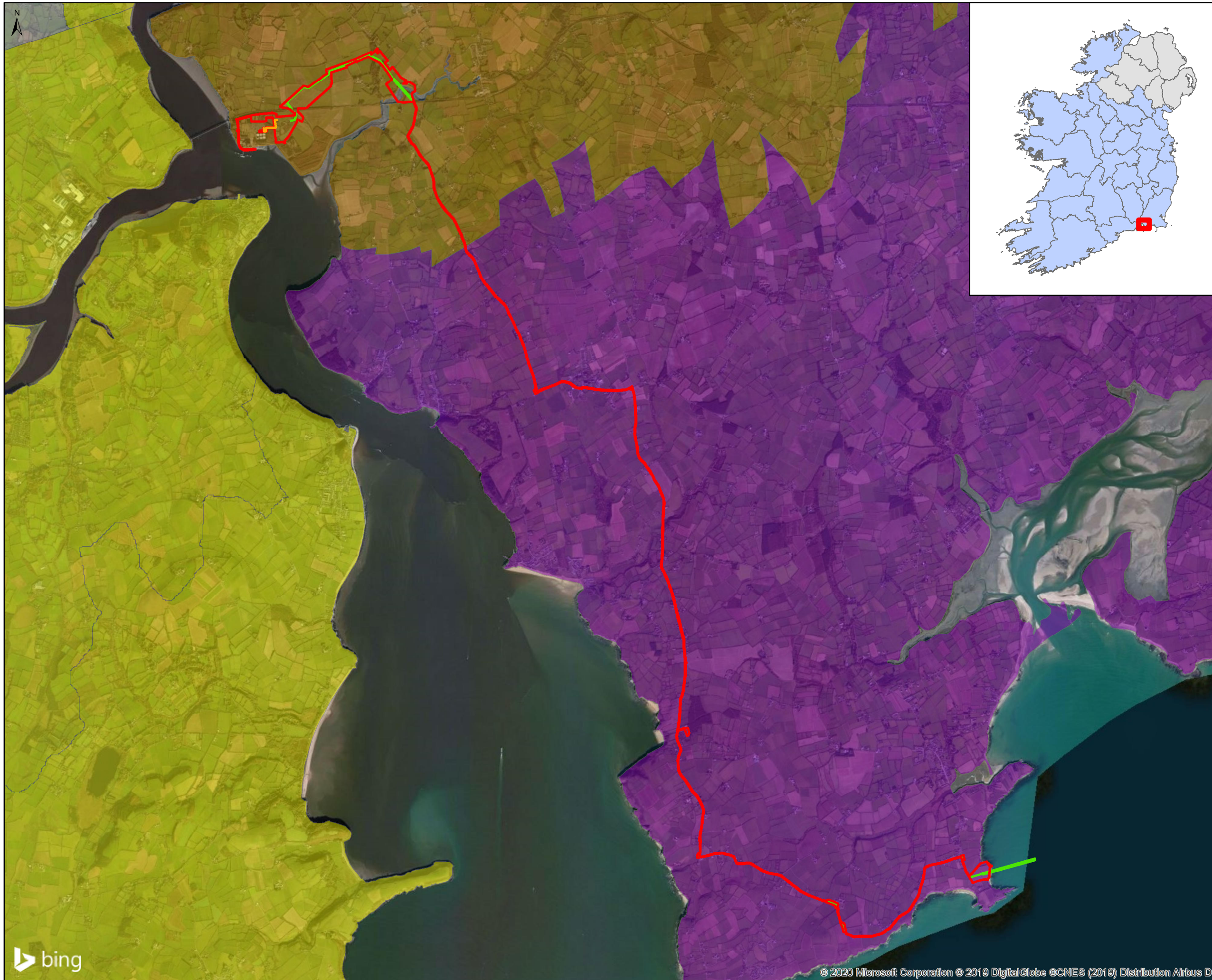
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Kilometers
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Drawing No Figure 12.5	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
 - Adamstown
 - Dunmore East
 - Fethard
 - Inistioge
 - Mullinavat
 - Waterford

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**Groundwater Body Map
Regional
Sheet 6 of 8**

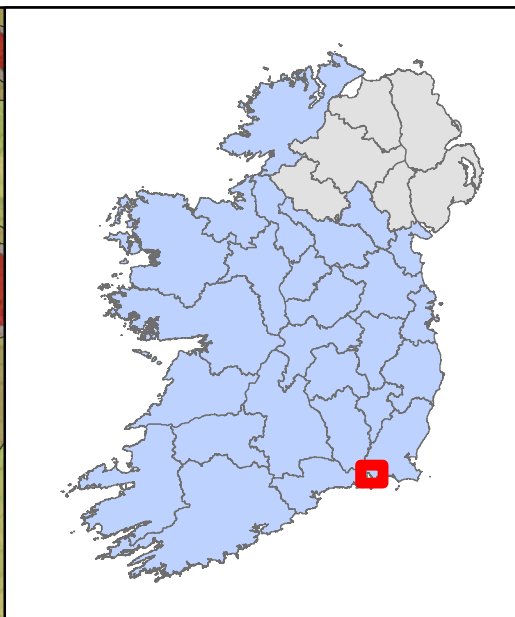
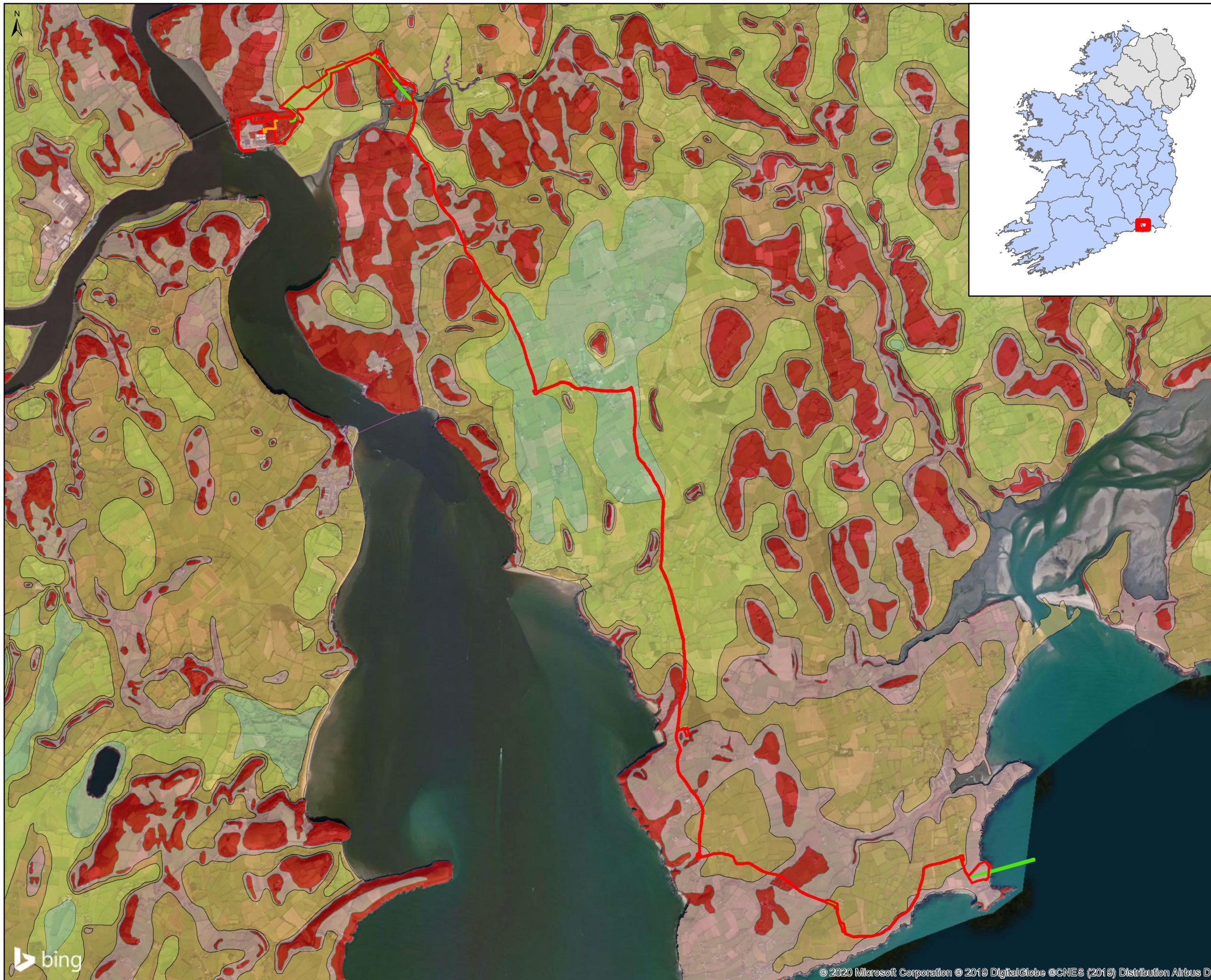
Scale at A3
1:55,000

Kilometers
0 0.4 0.8 1.6

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Drawing No Figure 12.6	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- Aquifer Vulnerability**
- █ Rock at or near the surface
 - █ Extreme
 - █ High
 - █ Moderate
 - █ Low
 - █ Water

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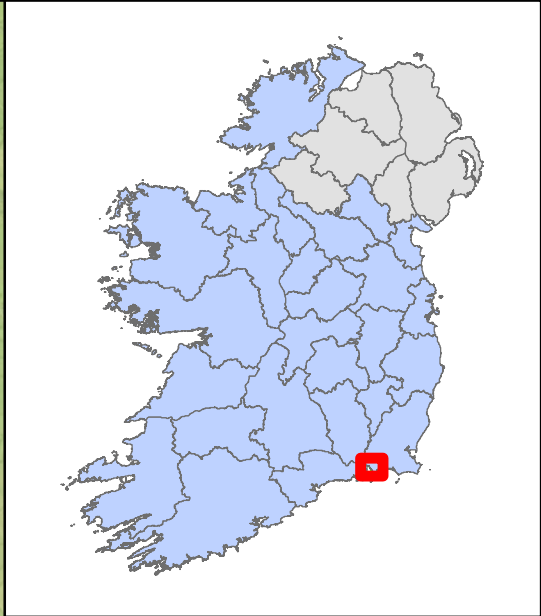
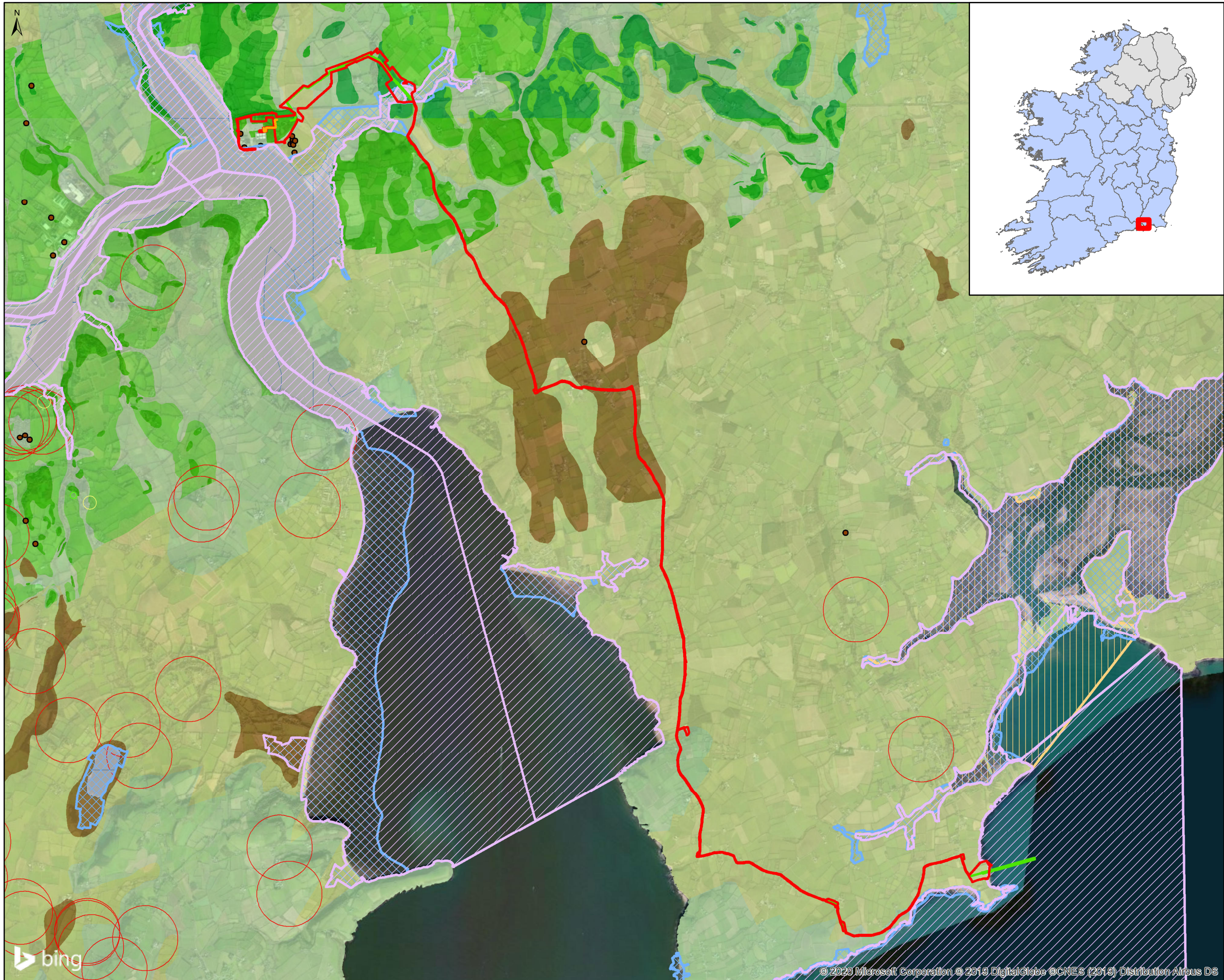
**Aquifer Vulnerability Map
Regional
Sheet 7 of 8**

Scale at A3
1:55,000

Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.7	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
 - Special Area of Conservation (SAC)
 - Special Area of Conservation (SAC)
 - Proposed Natural Heritage Area (pNHA)
 - Proposed Natural Heritage Area (pNHA)
 - Special Protection Area (SPA)
 - Special Protection Area (SPA)
 - Well accuracy from 10 to 50m**
 - Well accuracy from 10 to 50m
 - Well accuracy from 50 to 100m**
 - Well accuracy from 50 to 100m
 - Well accuracy from 100 to 200m**
 - Well accuracy from 100 to 200m
 - Well accuracy from 500 to 1km**
 - Well accuracy from 500 to 1km
 - Groundwater Recharge mm/yr**
 - 0
 - 1-50
 - 51-100
 - 101-150
 - 151-200
 - 301-350
 - 351-400
 - 401-450
 - 451-500
 - 501-550
 - 551-600
 - water



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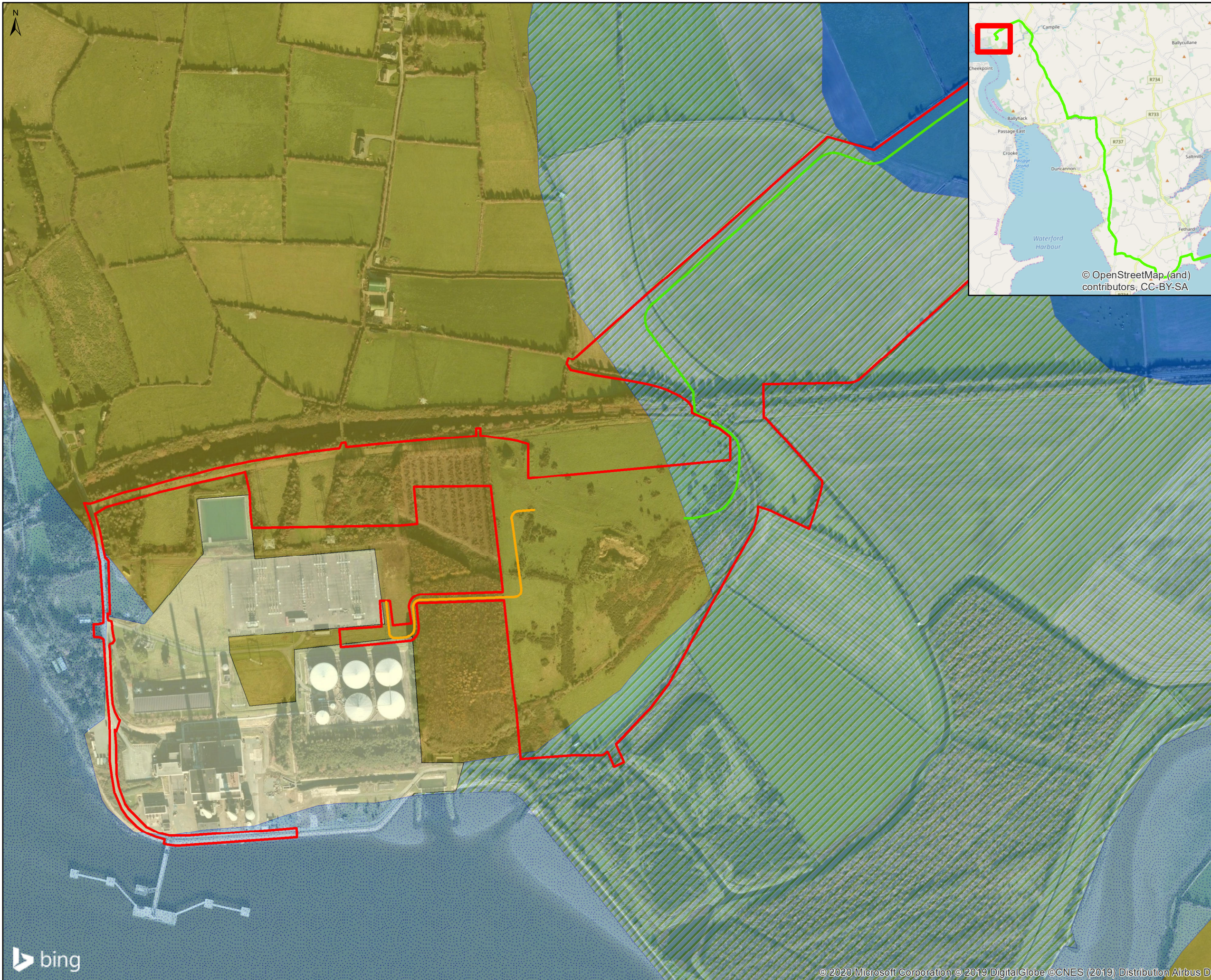
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**Hydrogeological Constraints Map
Regional
Sheet 8 of 8**

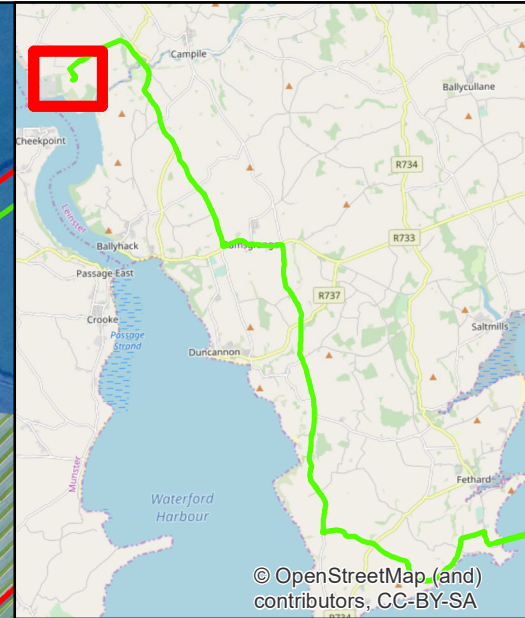
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Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.8	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- Associatio**
- Lake alluvium
 - Fine loamy drift with siliceous stones
 - Tidal marsh
 - Urban
 - Water body



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**Soils Deposits Map
Great Island
Sheet 1 of 1**

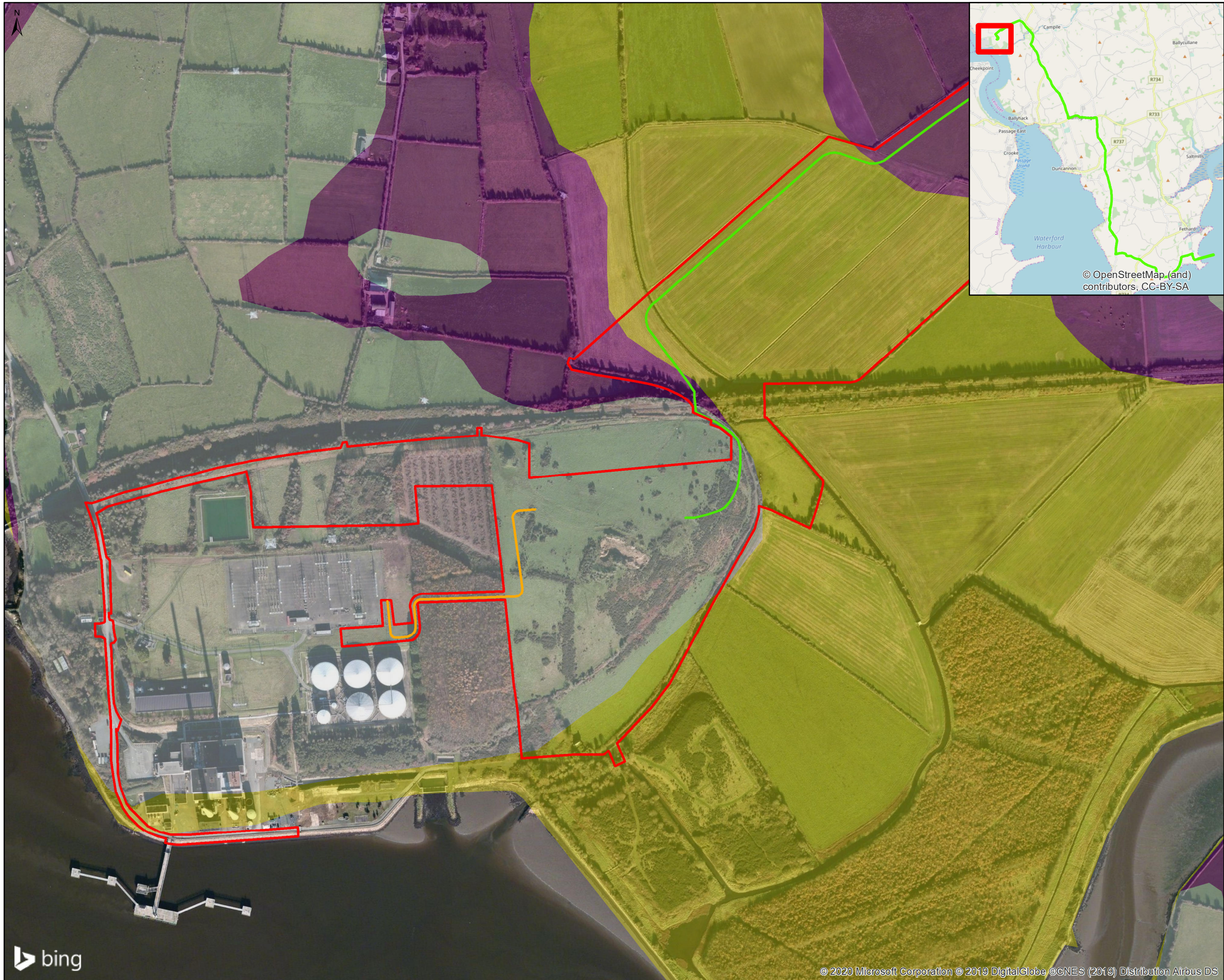
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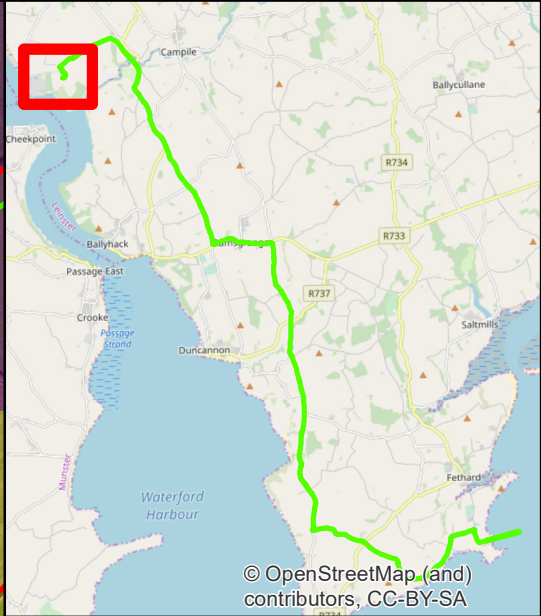
Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.9	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- GSI Quaternary Sediments**
- Mesc, Esturine silts and clays
 - Rck, Bedrock outcrop or subcrop
 - TLPS, Till derived from Lower Palaeozoic shales
 - Water



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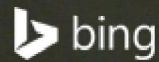
**Subsoil Deposits Map
Great Island
Sheet 1 of 1**

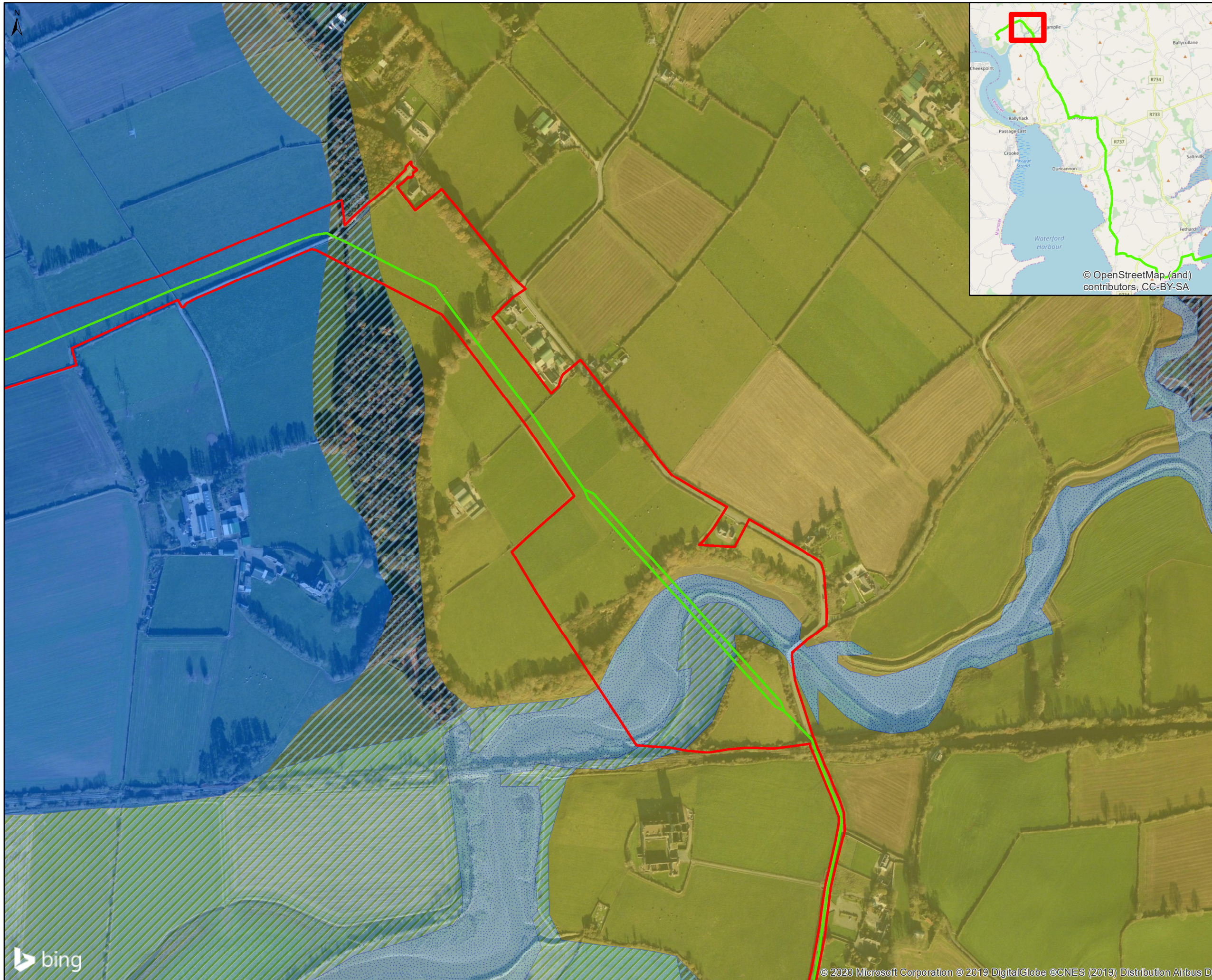
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Kilometers
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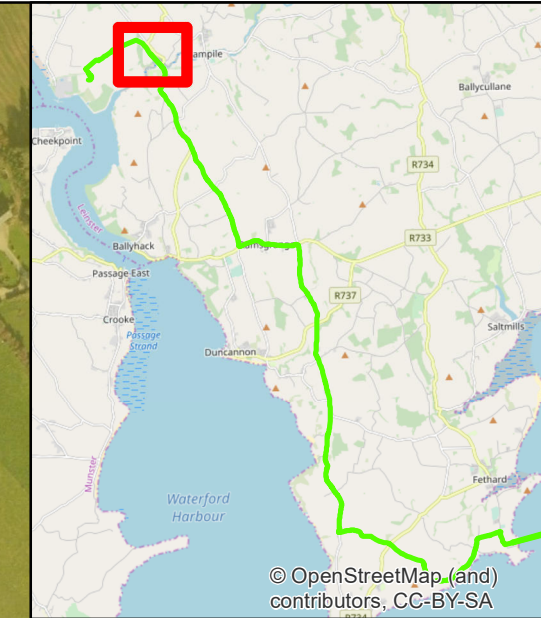
Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.10	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
- Associatio**
- Lake alluvium
 - River alluvium
 - Fine loamy drift with siliceous stones
 - Tidal marsh
 - Water body



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**Soils Deposits Map
Campile Estuary
Sheet 1 of 1**

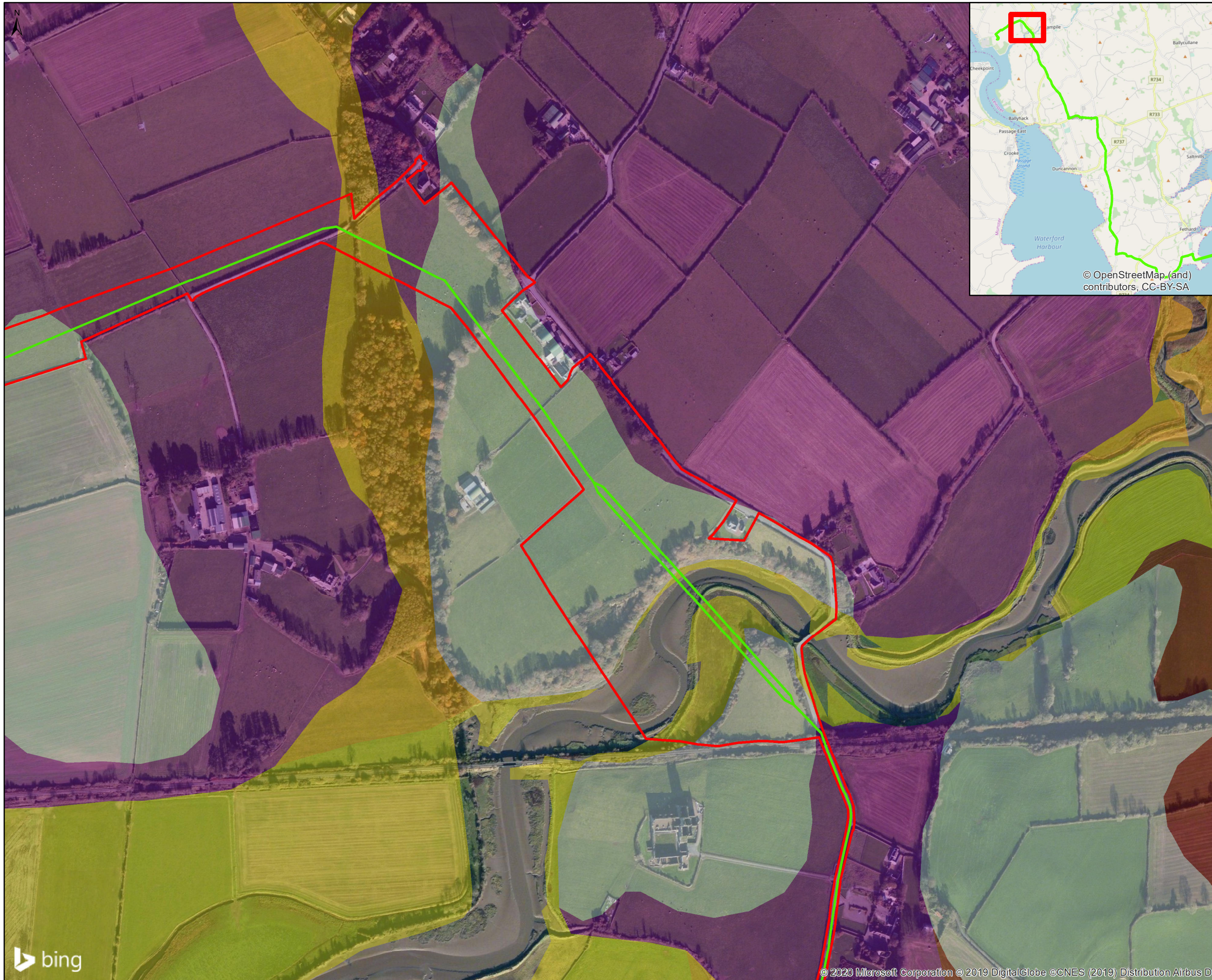
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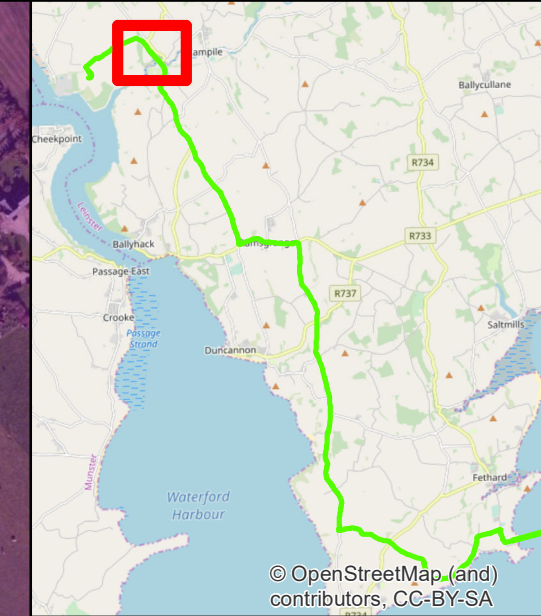
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Drawing No Figure 12.11	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - GSI Quaternary Sediments**
 - A, Alluvium
 - Mesc, Estuarine silts and clays
 - Rck, Bedrock outcrop or subcrop
 - TAv, Till derived from acidic volcanic rocks
 - TLPS, Till derived from Lower Palaeozoic shales
 - Water



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**Subsoil Deposits Map
Campile Estuary
Sheet 1 of 1**

Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

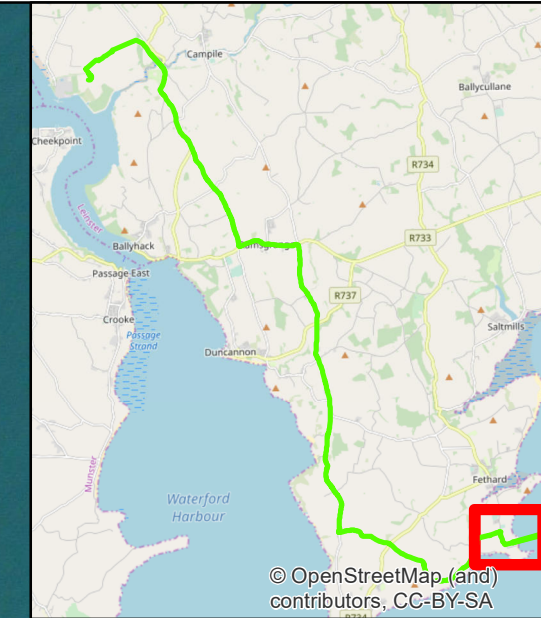
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Drawing No Figure 12.12	Issue D3
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Legend
 Red Line Boundary
 HVDC Cable Route
Associatio
 Fine loamy drift with limestones
 Tidal marsh



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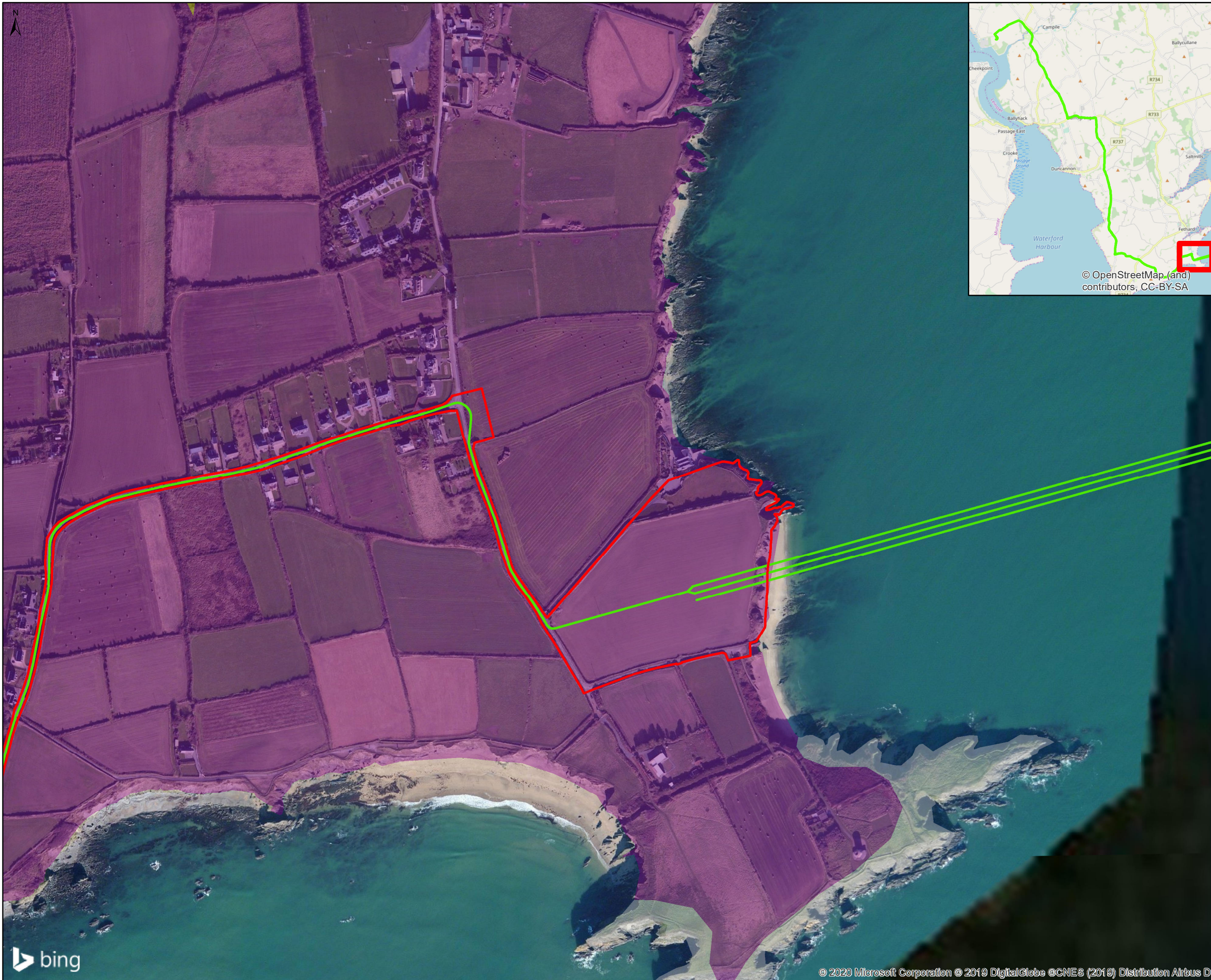
**Soils Deposits Map
 Landfall
 Sheet 1 of 1**

Scale at A3
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 Kilometers
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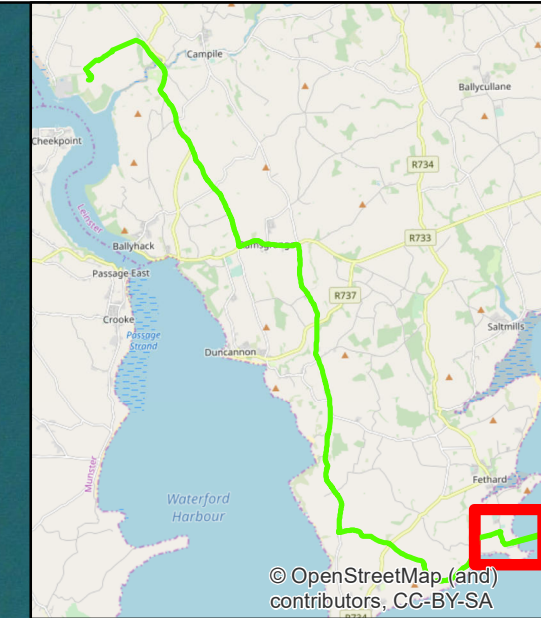
Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.13	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - GSI Quaternary Sediments**
 - Mesc, Esturine silts and clays
 - Rck, Bedrock outcrop or subcrop
 - TLPS, Till derived from Lower Palaeozoic shales



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**Subsoil Deposits Map
Landfall
Sheet 1 of 1**

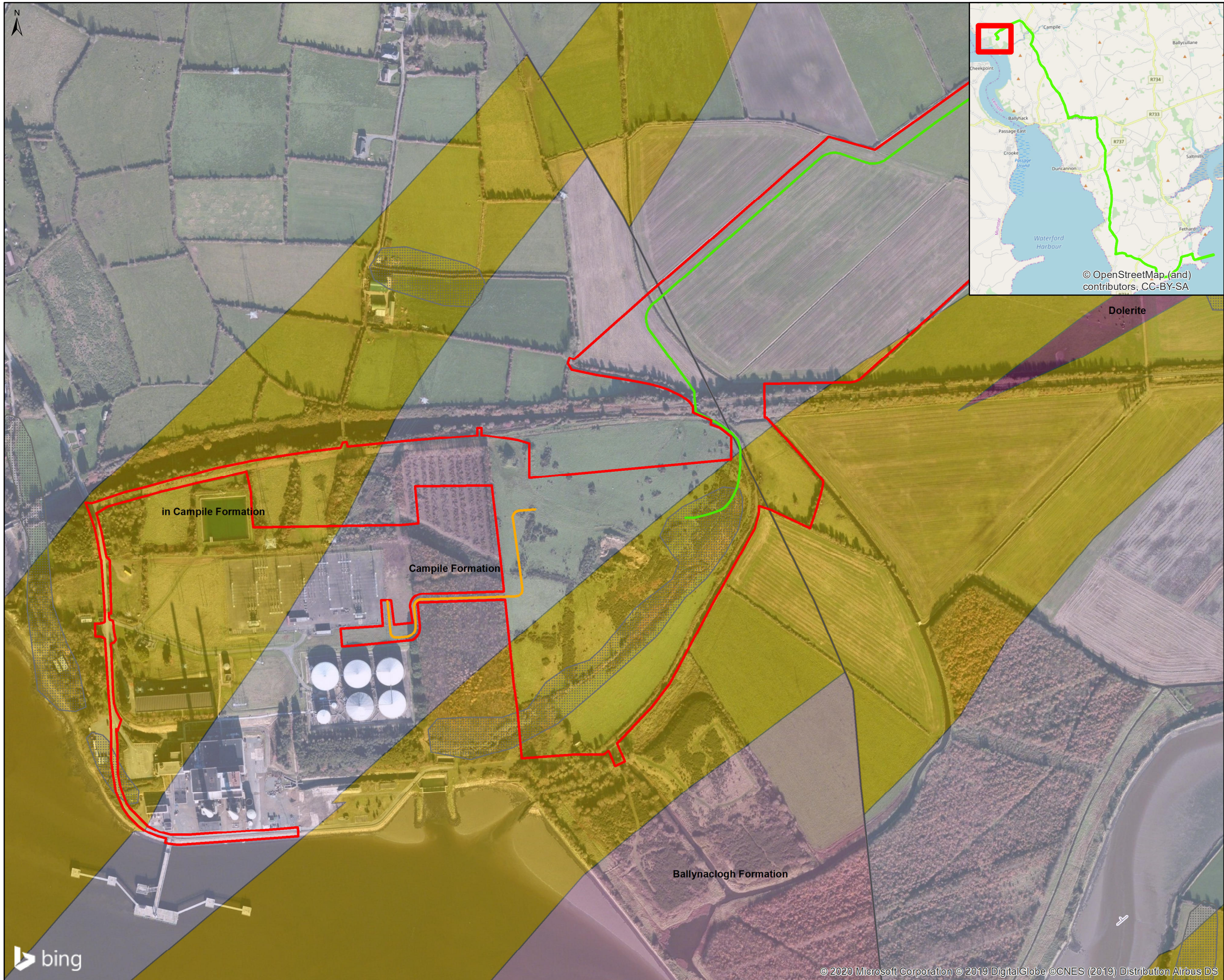
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Kilometers
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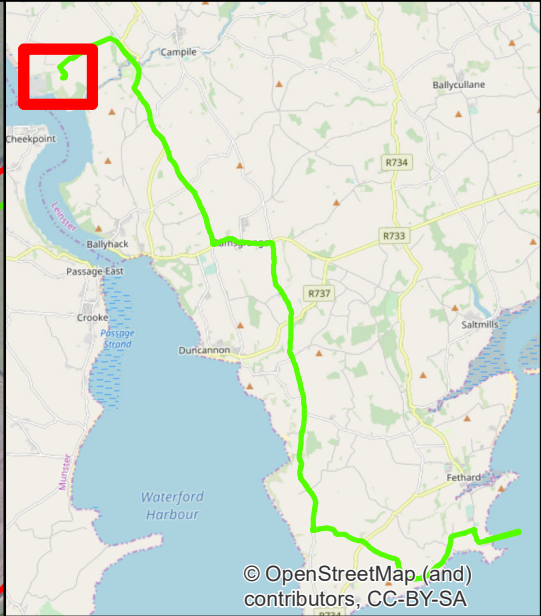
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Drawing No Figure 12.14	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
 - Bedrock Outcrops 100 ITM 2018**
 - ▣ Bedrock Outcrops 100 ITM 2018
 - Bedrock Polygons 100k ITM 2018**
 - Dolerite
 - Ballynaclogh Formation
 - Campile Formation
 - in Campile Formation
 - Fault
 - Structural Symbols 100K ITM 2018**
 - ⊥ Strike and dip of bedding, way up unknown



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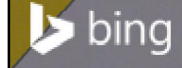
**Bedrock Geology Map
Great Island
Sheet 1 of 1**

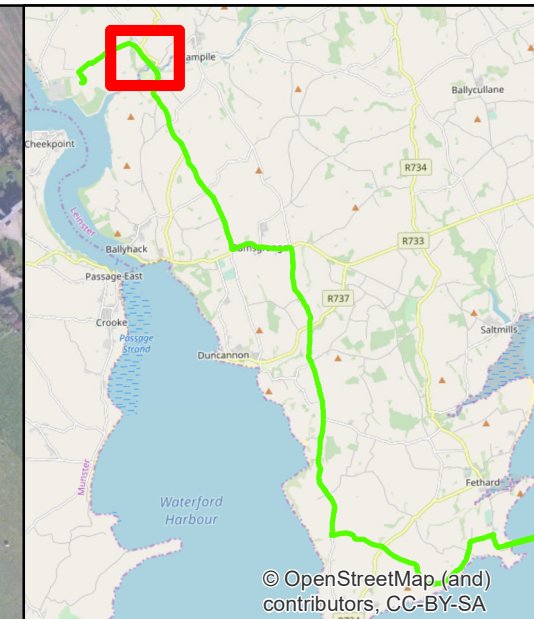
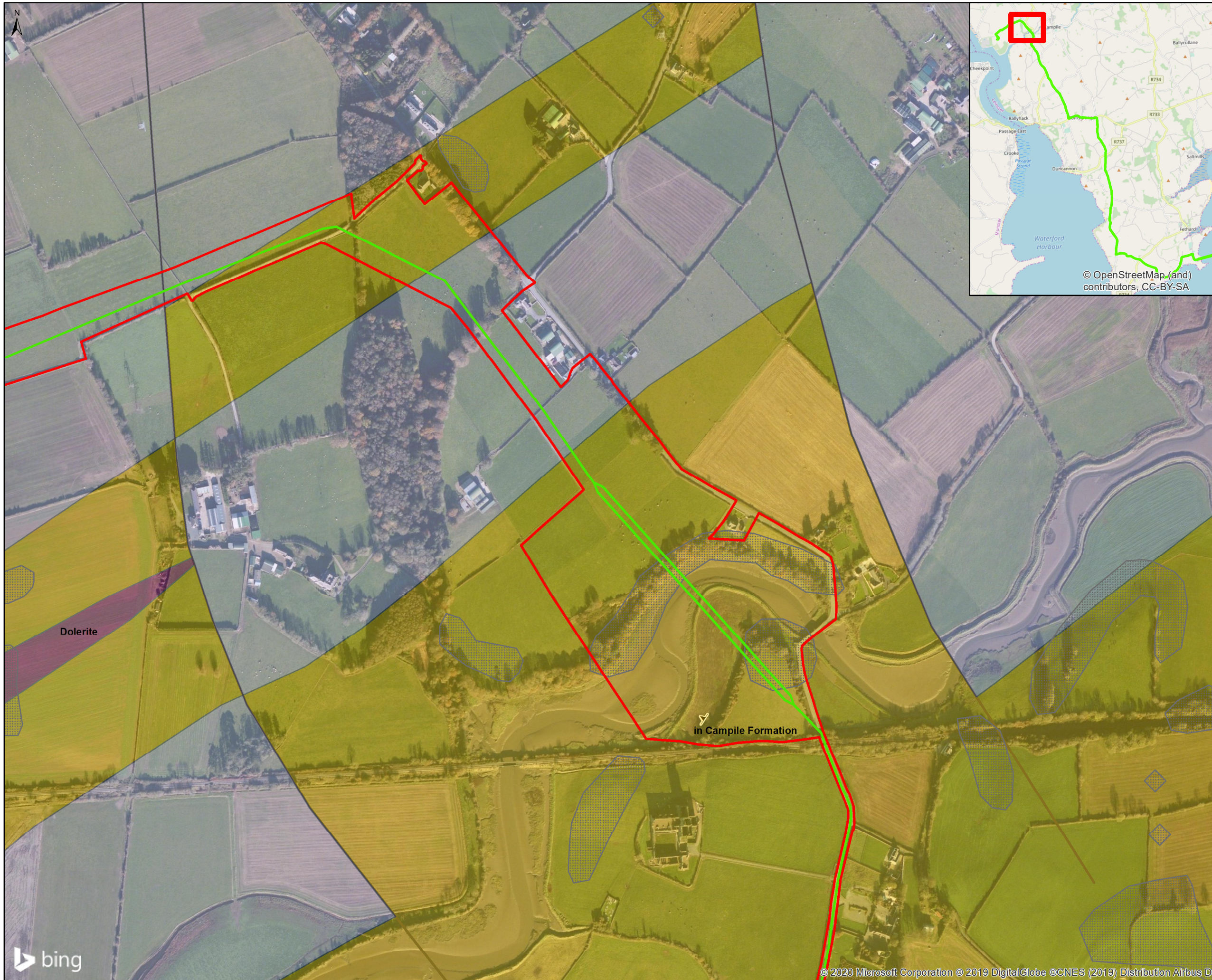
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Kilometers
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Drawing No Figure 12.15	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Bedrock Outcrops 100 ITM 2018**
 - Bedrock Outcrops 100 ITM 2018
 - Bedrock Polygons 100k ITM 2018**
 - Dolerite
 - Campile Formation
 - in Campile Formation
 - Fault
 - Structural Symbols 100K ITM 2018**
 - Strike and dip of first foliation



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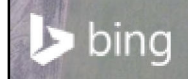
**Bedrock Geology Map
Campile Estuary
Sheet 1 of 1**

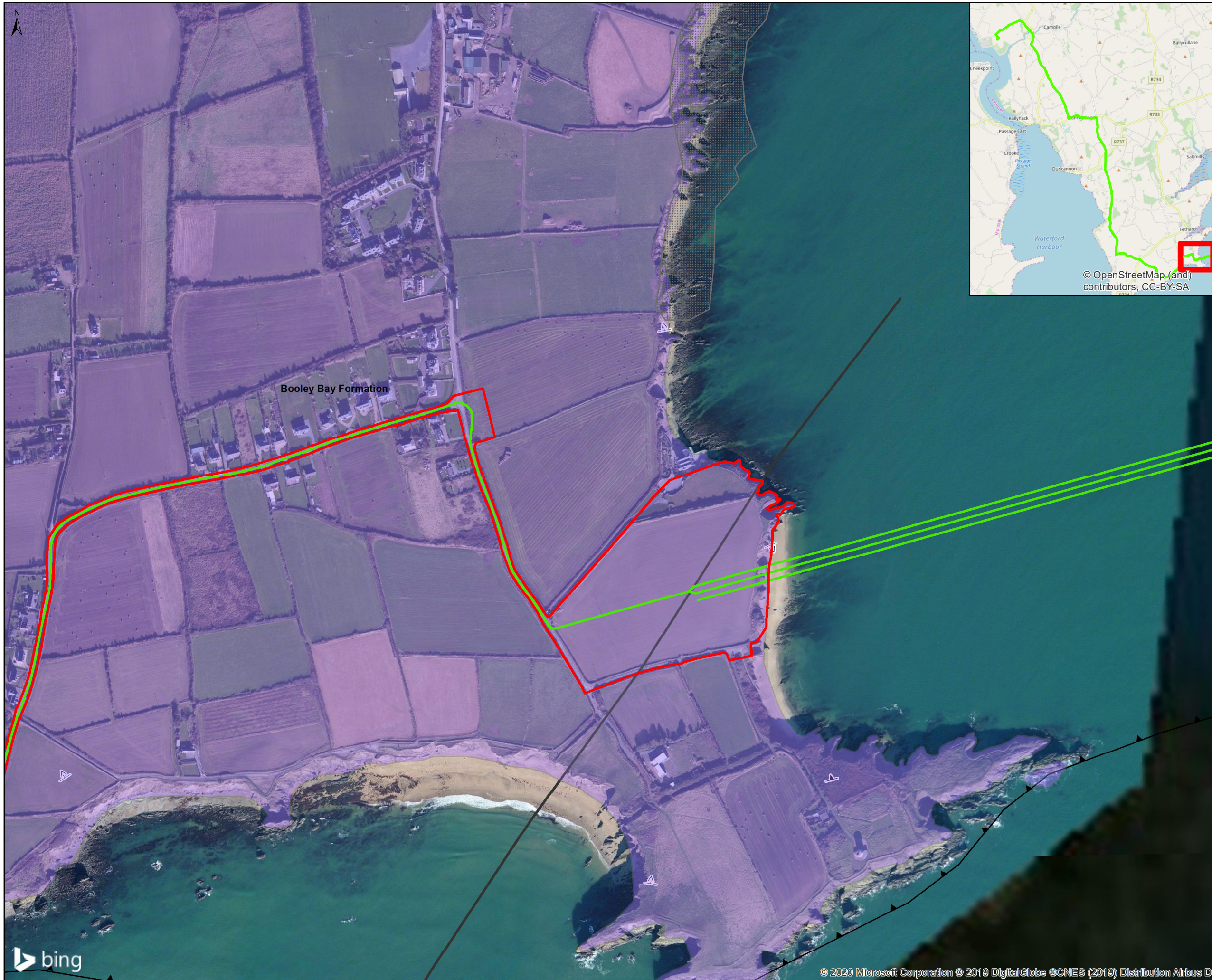
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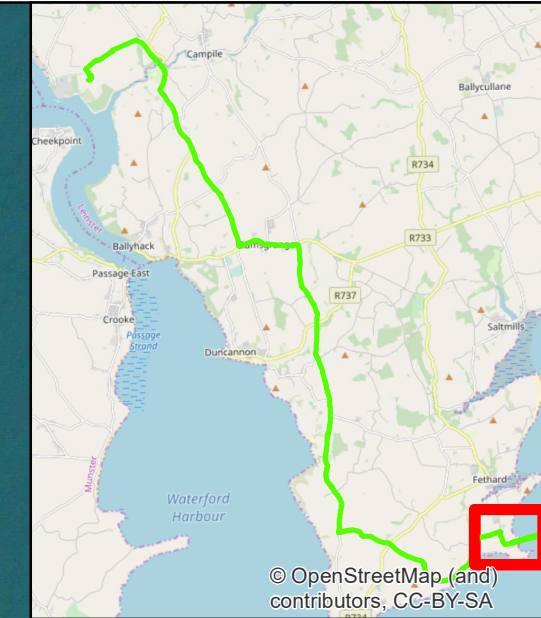
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Drawing No Figure 12.16	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Bedrock Outcrops 100 ITM 2018**
 - Bedrock Outcrops 100 ITM 2018
 - Bedrock Polygons 100k ITM 2018**
 - Booley Bay Formation
 - Fault
 - Thrust, bars on hanging-wall side
 - Structural Symbols 100K ITM 2018**
 - Strike and dip of bedding, right way up
 - Strike and dip of first foliation



Booley Bay Formation



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**Bedrock Geology Map
Landfall
Sheet 1 of 1**

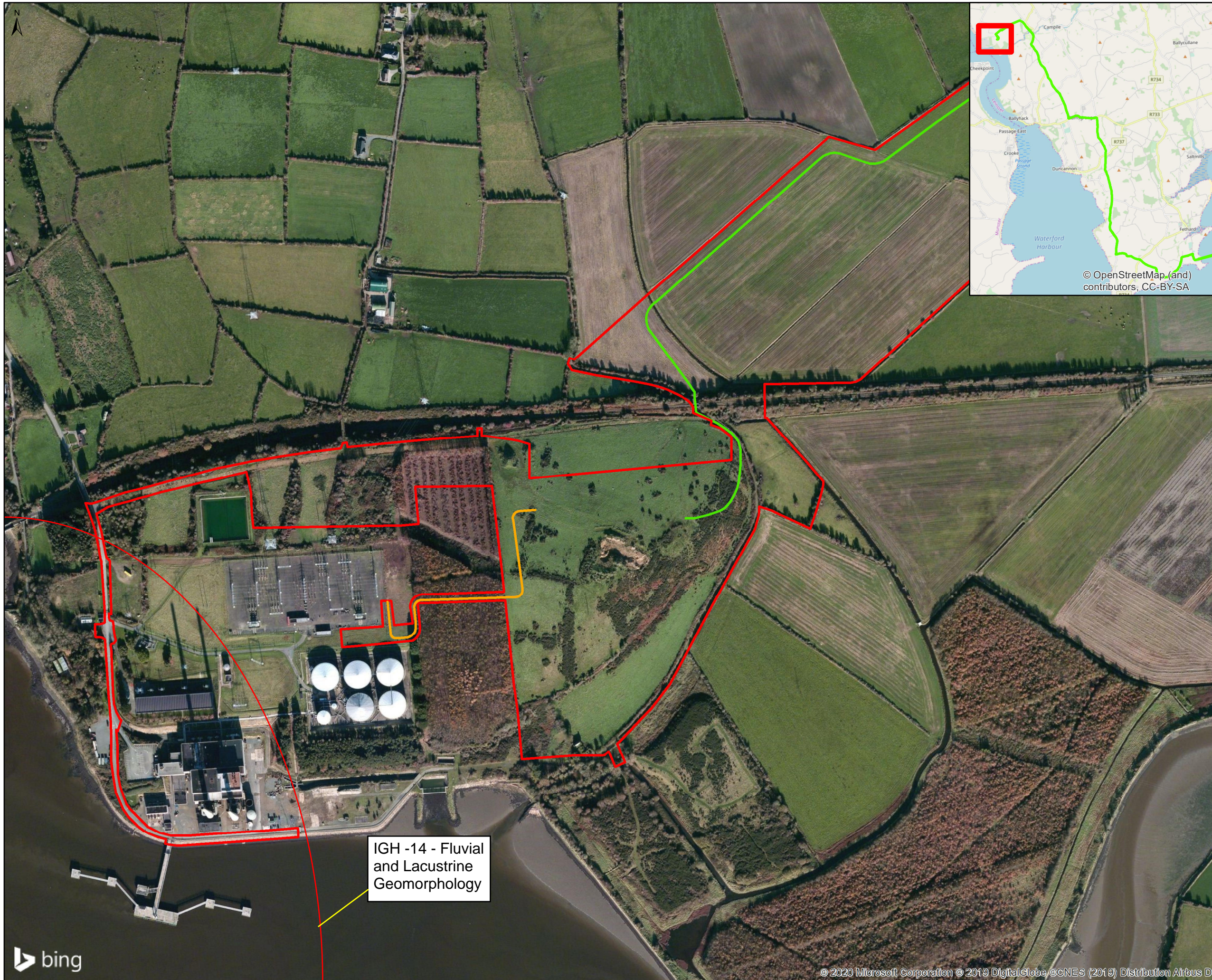
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Kilometers
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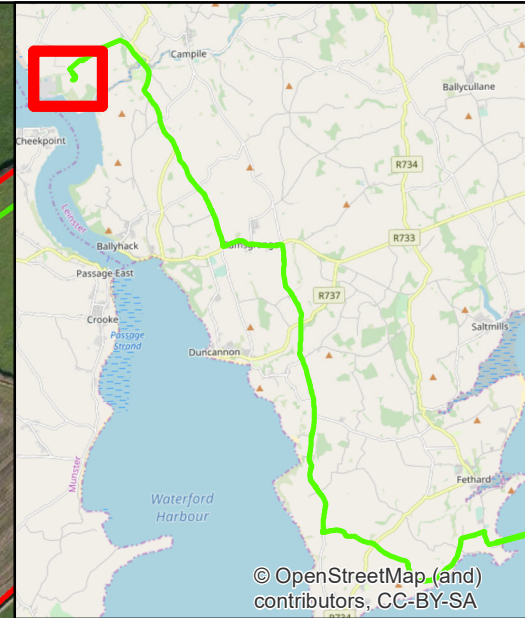
Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.17	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
 - Geological Heritage Site



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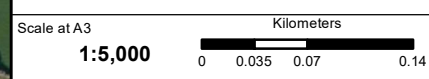
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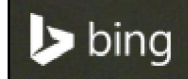
**Geological Constraints Map
Great Island
Sheet 1 of 1**

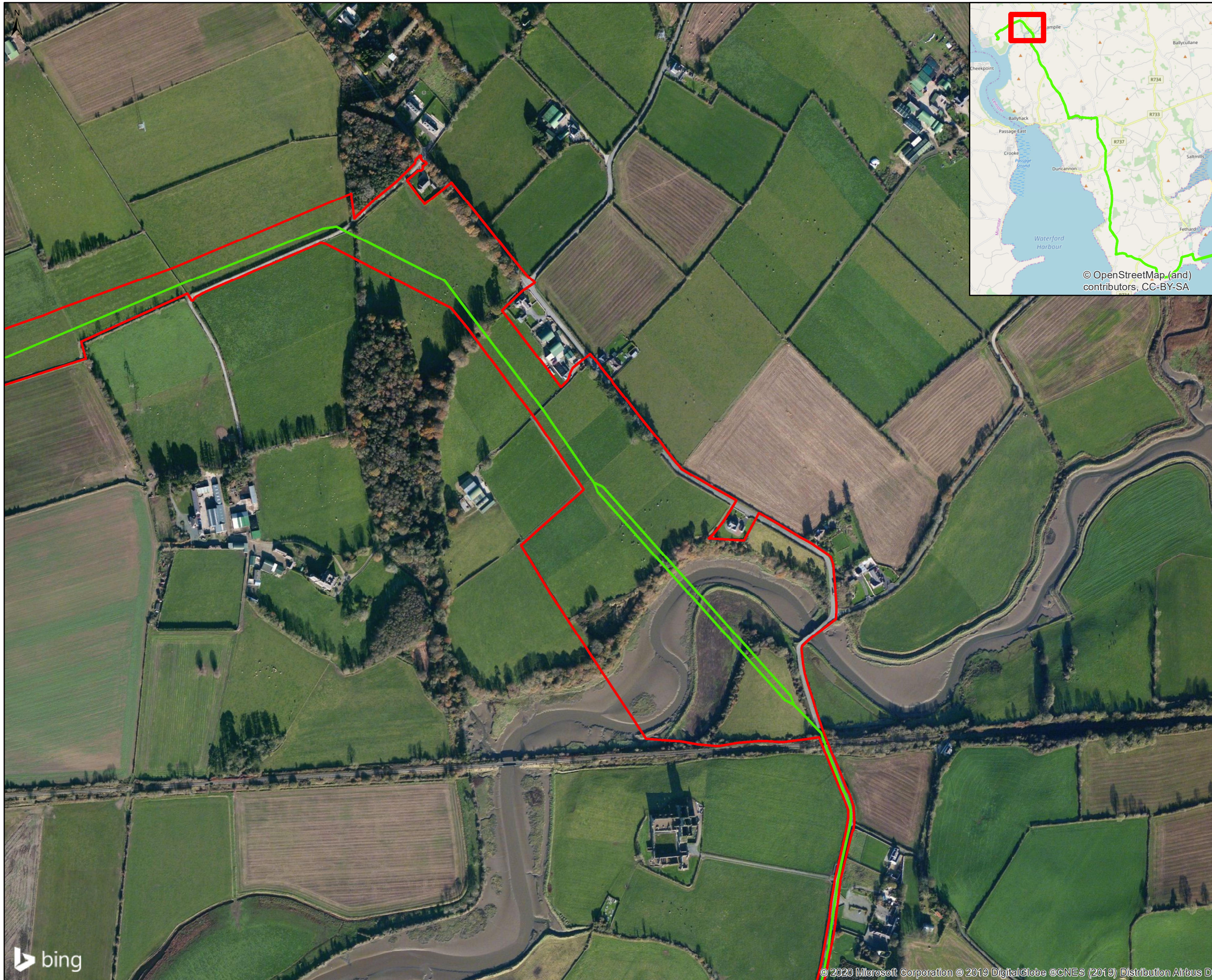


Job No 246369-00	Drawing Status Draft
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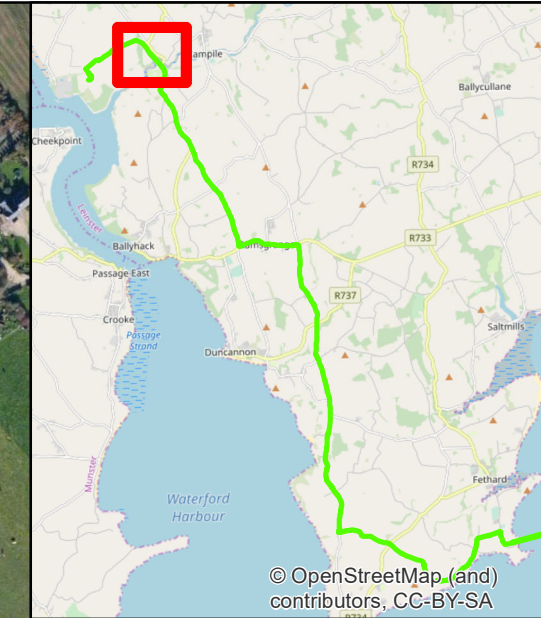
**IGH -14 - Fluvial
and Lacustrine
Geomorphology**





Legend

- Red Line Boundary
- HVDC Cable Route



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Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

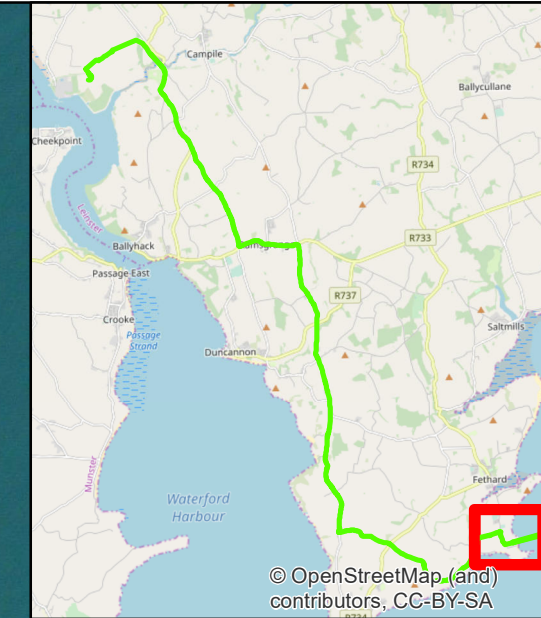
Job No 246369-00	Drawing Status Draft
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Drawing No Figure 12.19	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
- Mineral Localities**
- conglomerate
 - iron
 - sandstone (in general)
 - Geological Heritage Site



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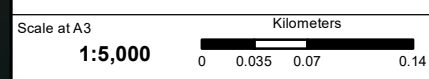
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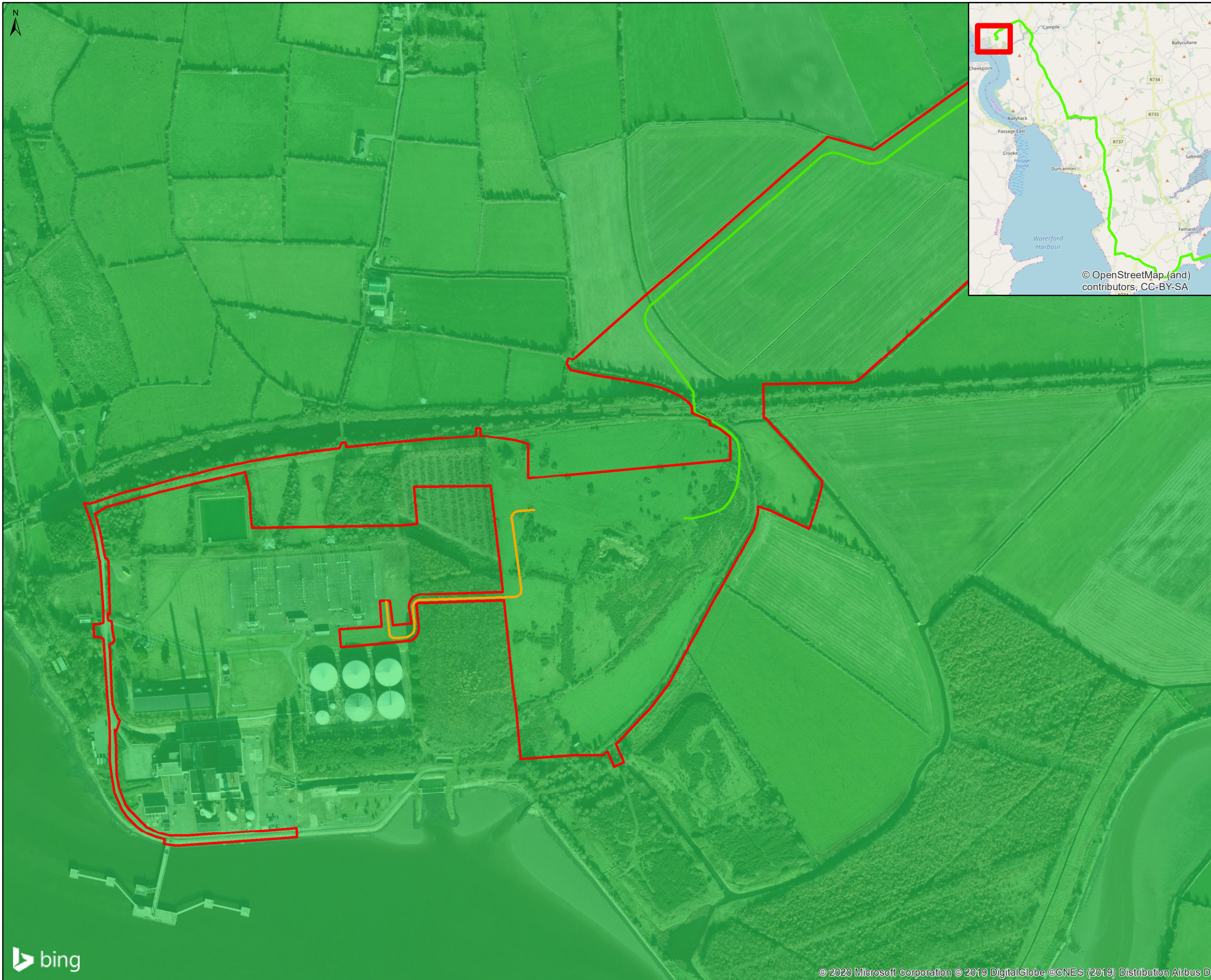
**Geological Constraints Map
Landfall
Sheet 1 of 1**



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Drawing No Figure 12.20	Issue D3
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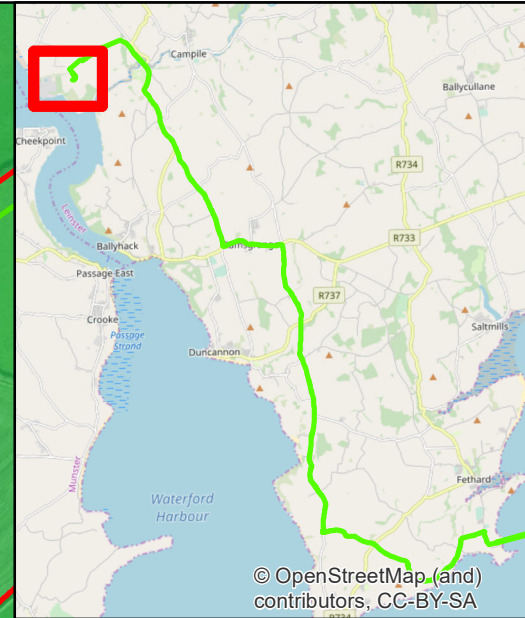


Legend

- HVAC Cable Route
- Red Line Boundary
- HVDC Cable Route

Bedrock Aquifers

- Rf - Regionally Important Aquifer - Fissured bedrock



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**Aquifer Map
Great Island
Sheet 1 of 1**

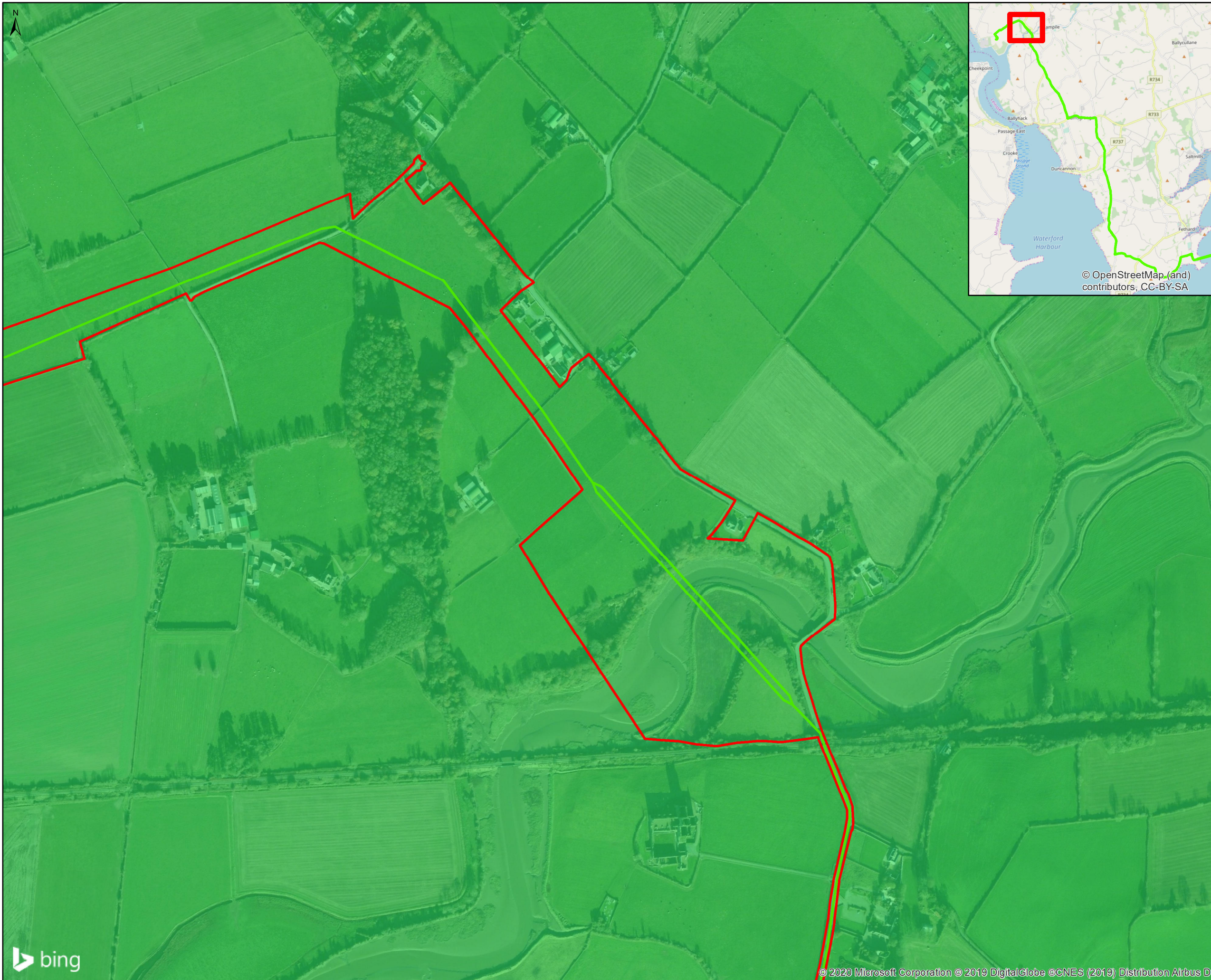
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Kilometers
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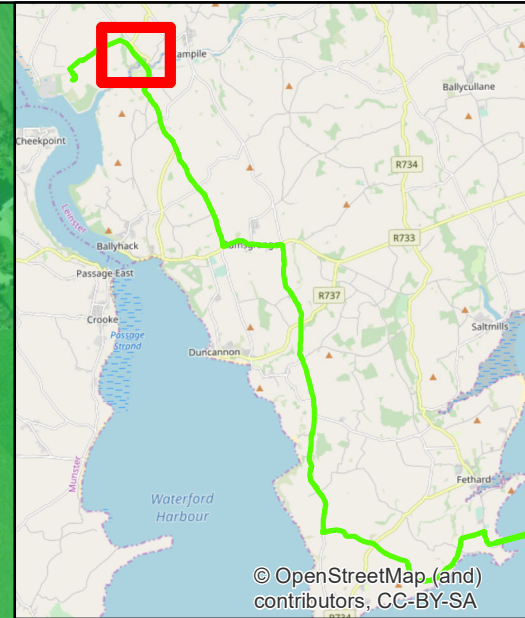


Legend

- Red Line Boundary
- HVDC Cable Route

Bedrock Aquifers

- Rf - Regionally Important Aquifer - Fissured bedrock



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Scale at A3
1:5,000

Kilometers
0 0.035 0.07 0.14

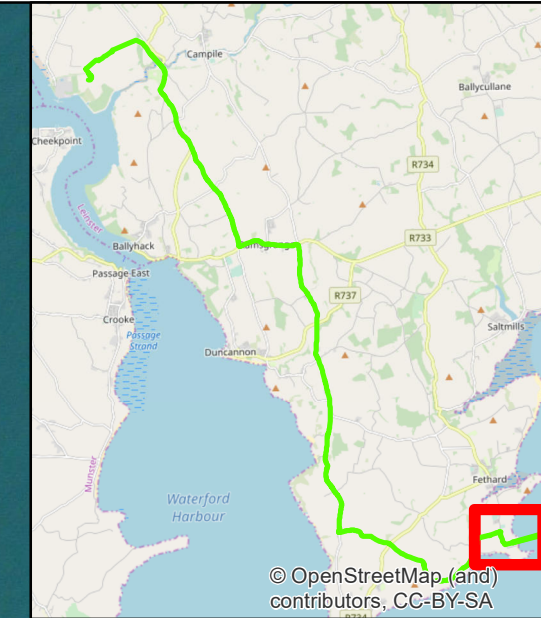
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Drawing No Figure 12.22	Issue D3
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Legend
 Red Line Boundary
 HVDC Cable Route
Bedrock Aquifers
 PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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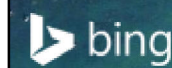
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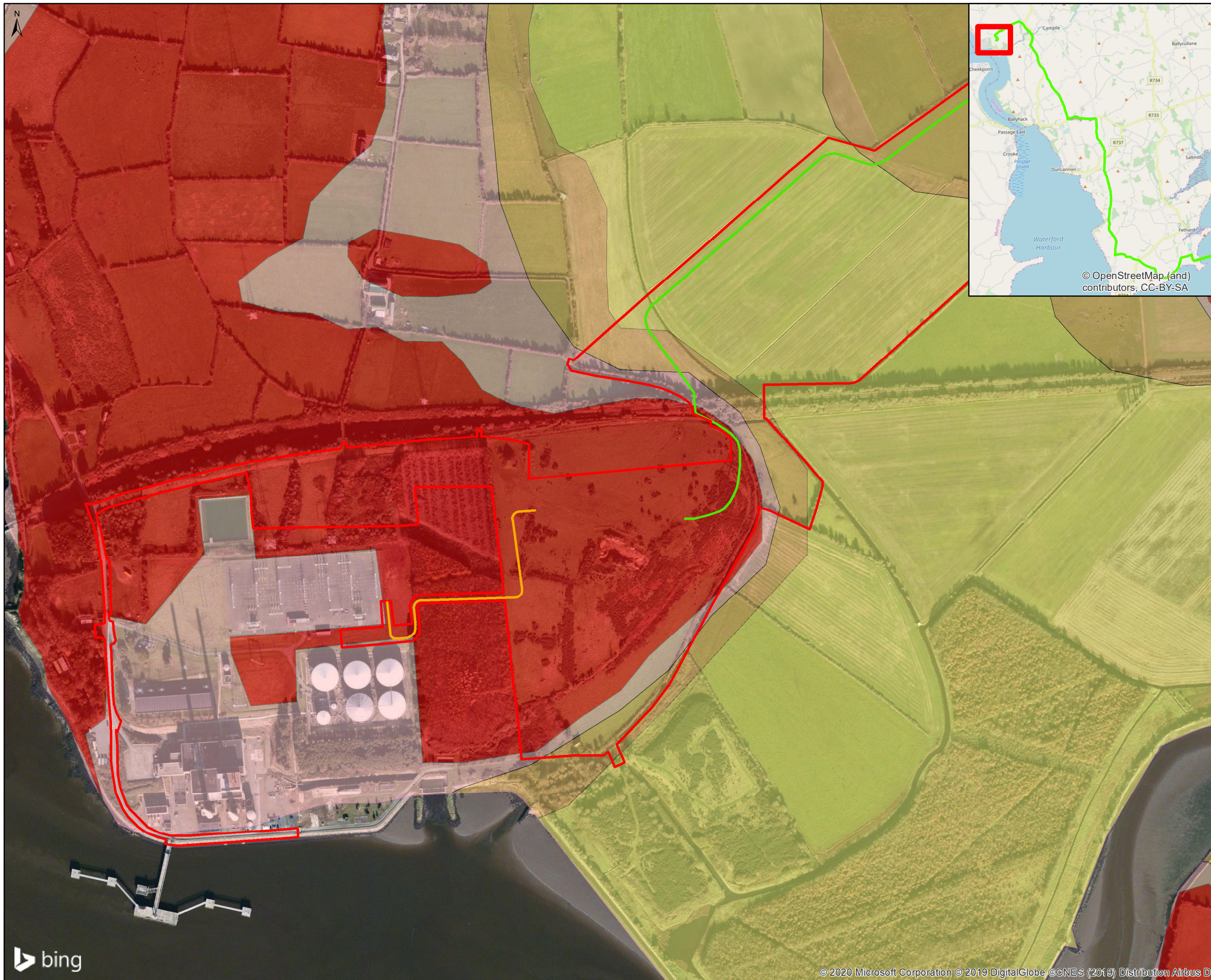
**Aquifer Map
 Landfall
 Sheet 1 of 1**

Scale at A3
1:5,000
 Kilometers
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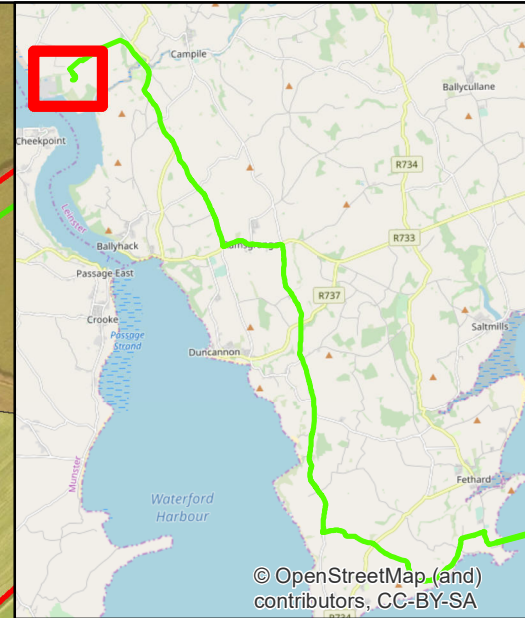
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Drawing No Figure 12.23	Issue D3
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- Legend**
- HVAC Cable Route
 - Red Line Boundary
 - HVDC Cable Route
- Aquifer Vulnerability**
- Rock at or near the surface
 - Extreme
 - High
 - Moderate
 - Water



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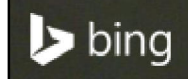
**Aquifer Vulnerability Map
Great Island
Sheet 1 of 1**

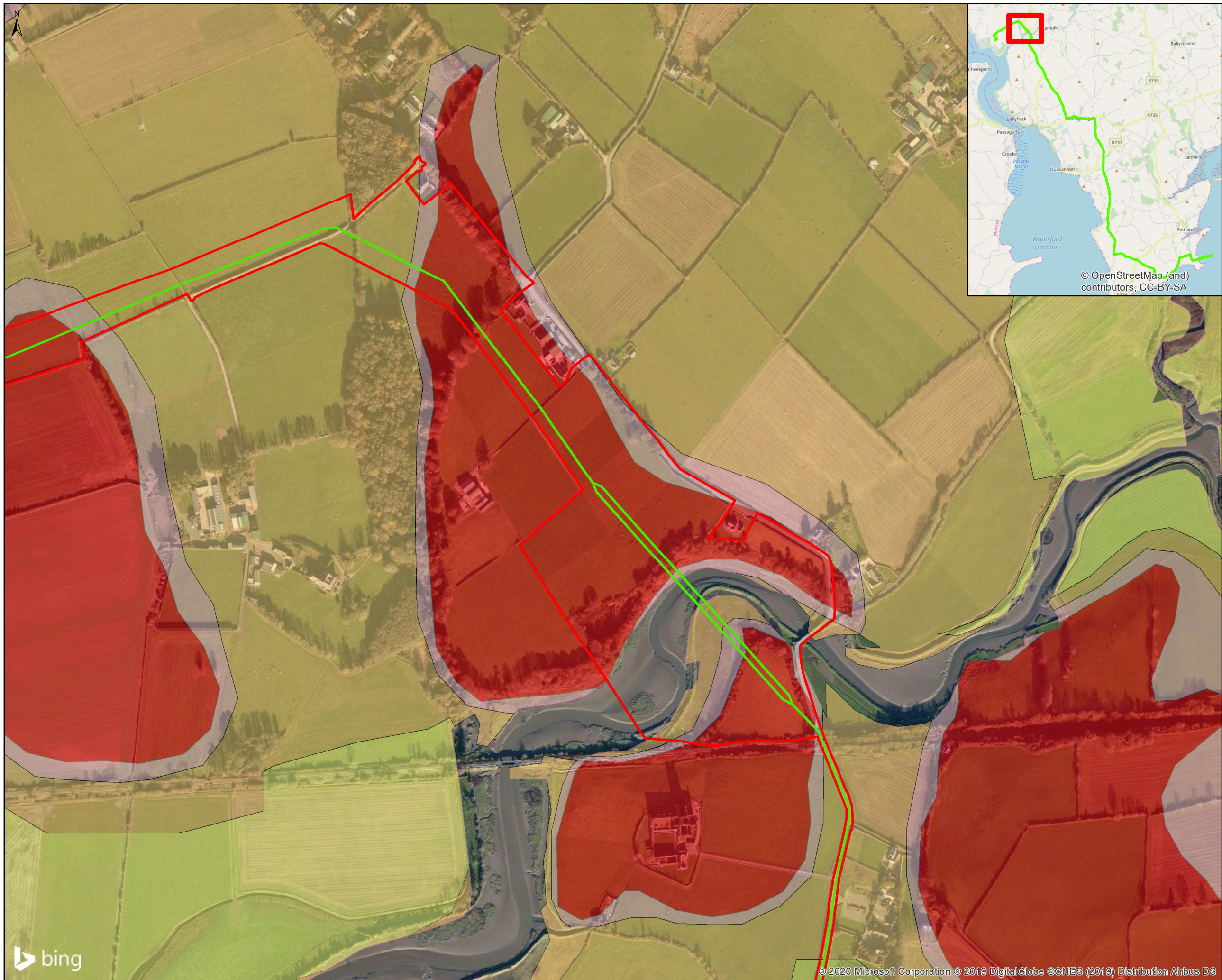
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Kilometers
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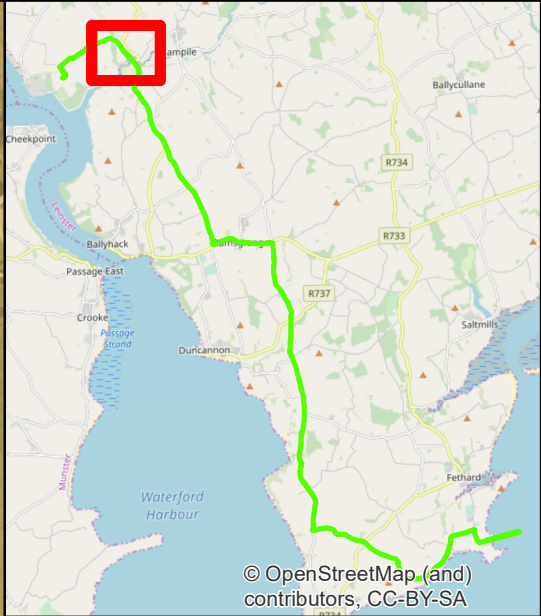
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Drawing No Figure 12.24	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Aquifer Vulnerability**
 - Rock at or near the surface
 - Extreme
 - High
 - Moderate
 - Water



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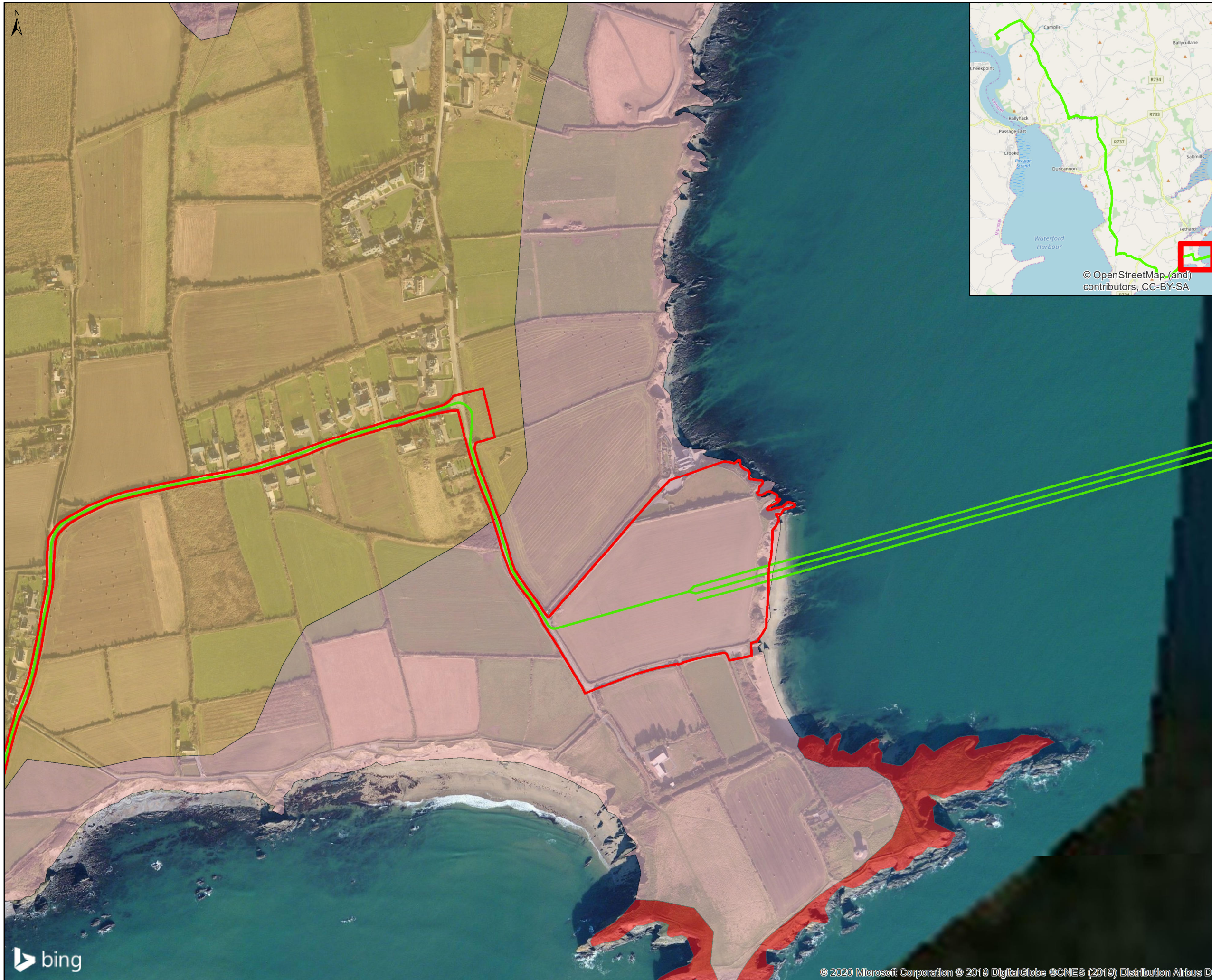
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Kilometers
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Drawing No Figure 12.25	Issue D3
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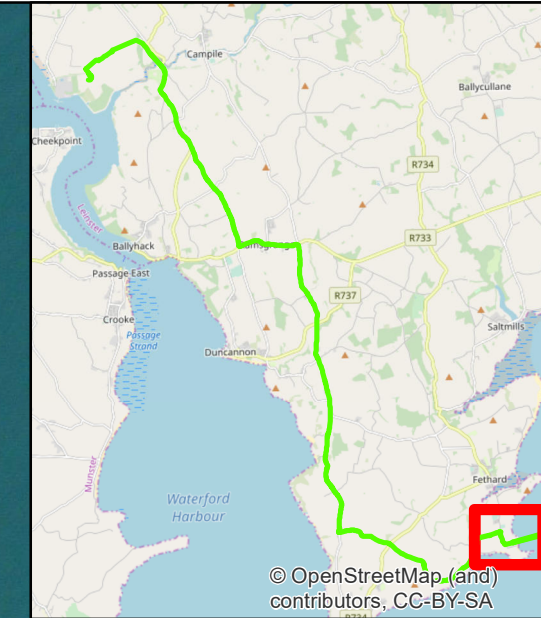


Legend

- Red Line Boundary
- HVDC Cable Route

Aquifer Vulnerability

- Rock at or near the surface
- Extreme
- High



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**Aquifer Vulnerability Map
Landfall
Sheet 1 of 1**

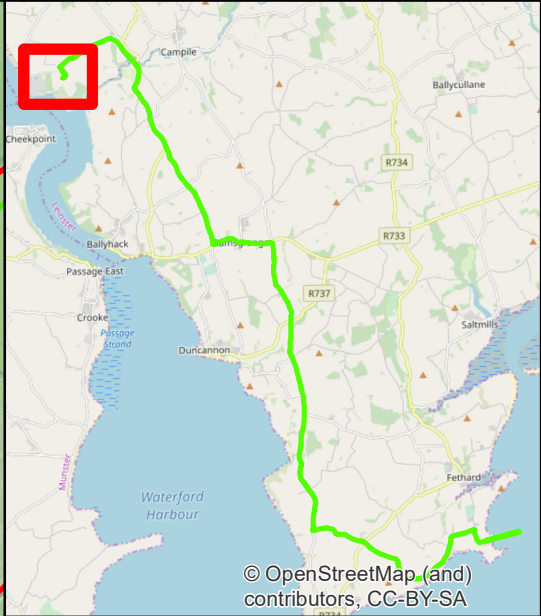
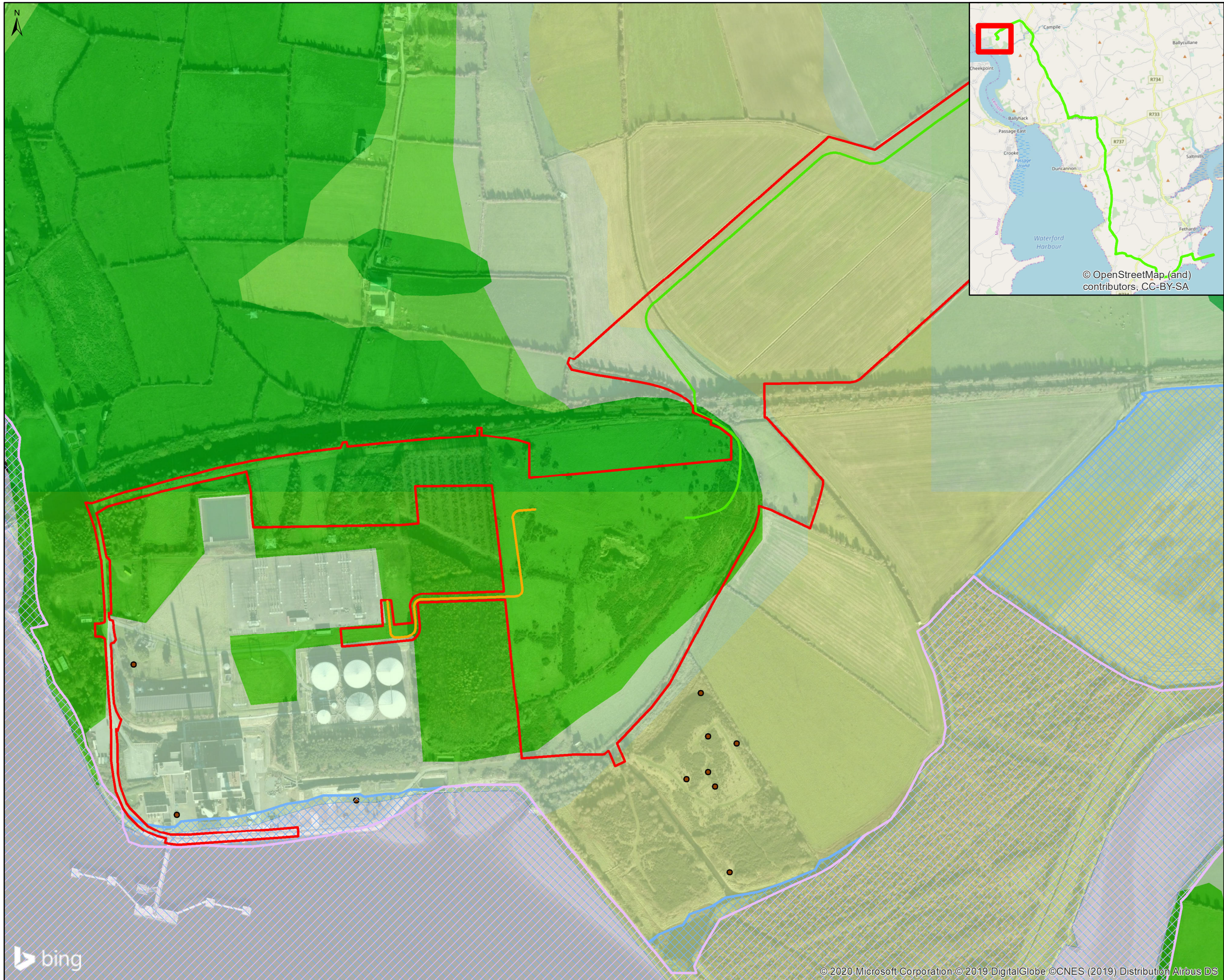
Scale at A3
1:5,000

Kilometers
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Drawing No Figure 12.26	Issue D3
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Legend

- HVAC Cable Route
- Red Line Boundary
- HVDC Cable Route
- Special Area of Conservation (SAC)
- Special Area of Conservation (SAC)
- Proposed Natural Heritage Area (pNHA)
- Proposed Natural Heritage Area (pNHA)
- Well accuracy from 10 to 50m**
- Well accuracy from 10 to 50m
- Groundwater Recharge mm/yr**
- 0
- 51-100
- 101-150
- 151-200
- 351-400
- 451-500
- 501-550
- 551-600
- water

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**Hydrogeological Constraints Map
Great Island
Sheet 1 of 1**

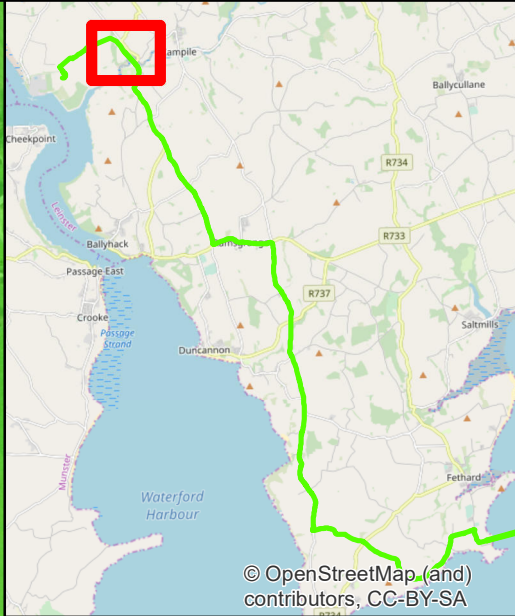
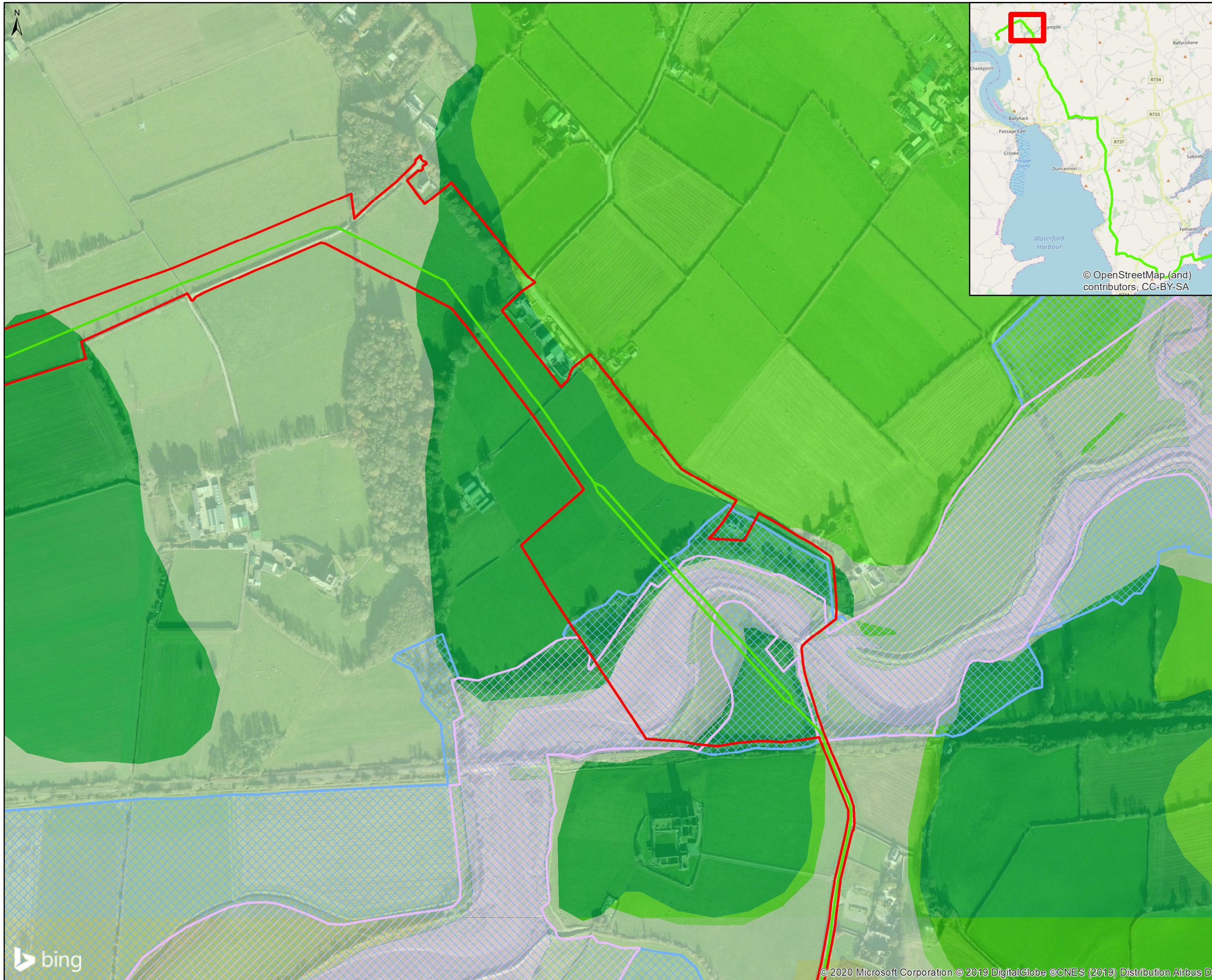
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Kilometers
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Drawing No Figure 12.27	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Special Area of Conservation (SAC)
 - Special Area of Conservation (SAC)
 - Proposed Natural Heritage Area (pNHA)
 - Proposed Natural Heritage Area (pNHA)
 - Groundwater Recharge mm/yr**
 - 51-100
 - 101-150
 - 151-200
 - 301-350
 - 401-450
 - 451-500
 - 551-600
 - water

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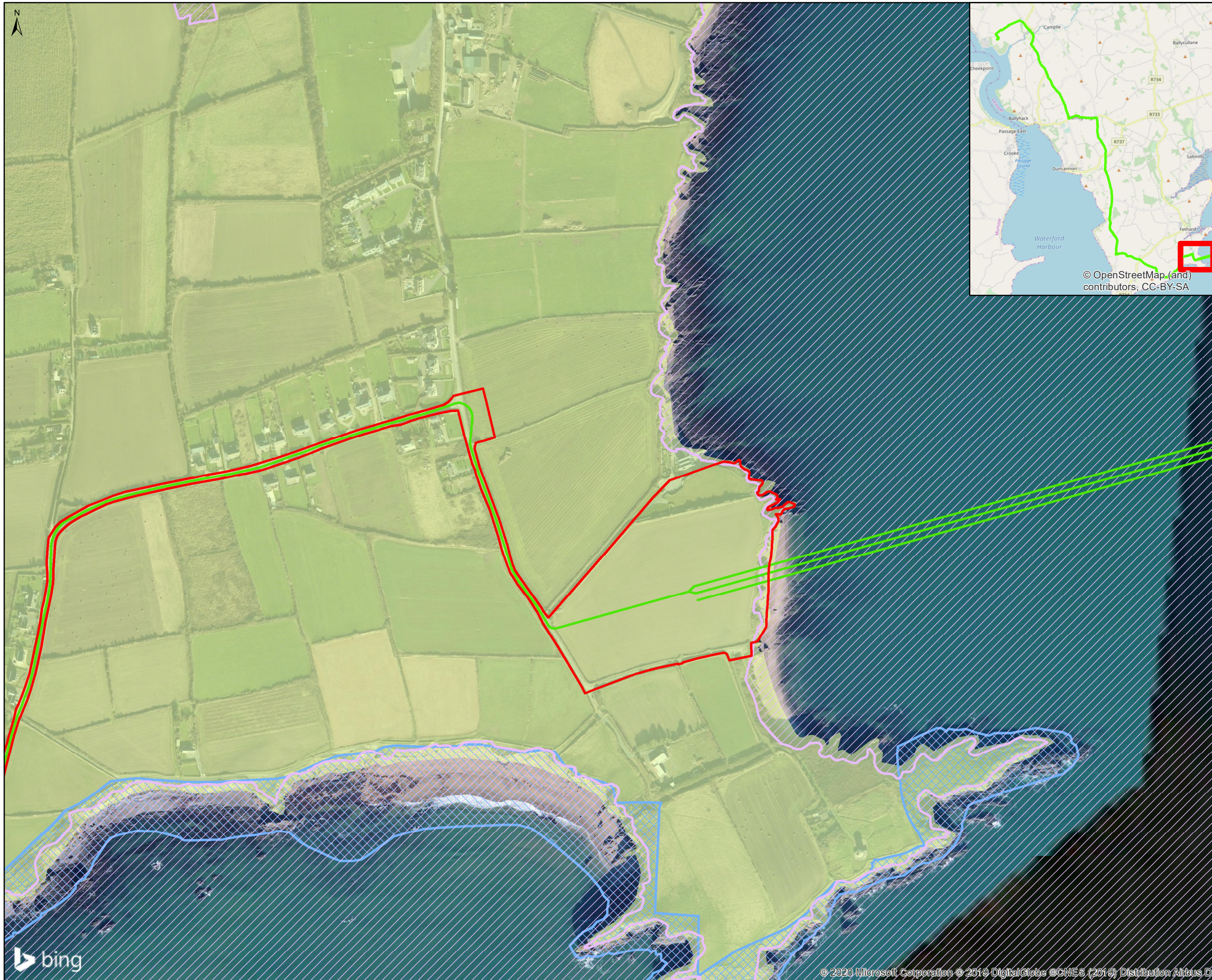
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Kilometers
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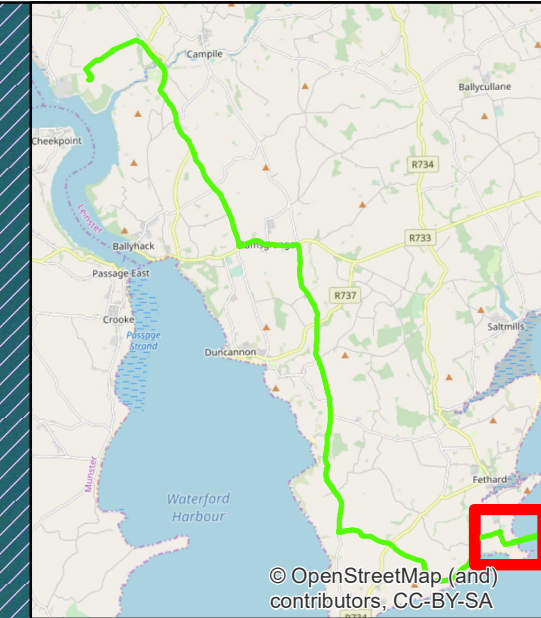
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Drawing No Figure 12.28	Issue D3
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- Legend**
- Red Line Boundary
 - HVDC Cable Route
 - Special Area of Conservation (SAC)
 - Special Area of Conservation (SAC)
 - Proposed Natural Heritage Area (pNHA)
 - Proposed Natural Heritage Area (pNHA)
 - Groundwater Recharge mm/yr**
 - 51-100



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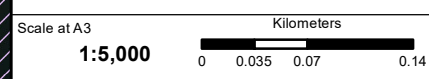
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