



EIA VOLUME 2
Chapter 7 Technical Figures 7.1-7.7



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Renewables

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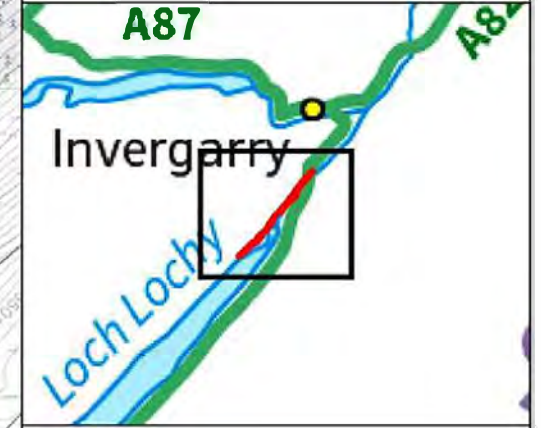
- LEGEND**
- Site Boundary
 - 500 m Study Area
 - Proposed Infrastructure**
 - Proposed Fill/Cut
 - Permanent Active Travel Route
 - Proposed Road
 - Proposed Verge
 - Indicative Temporary Access Track
 - Proposed Compound
 - Temporary Diversion Road
 - Temporary Active Travel Route
 - ✕ Existing Watercourse Crossing
 - ✕ Proposed Watercourse Crossing
 - Local Hydrology**
 - CAR Licence
 - Site of Special Scientific Interest (SSSI)
 - Watercourse (OS Map Local)
 - Waterbody (OS Map Local)
 - Future River Flood Extent (2085)**
 - Medium Likelihood of Flooding



Figure 8.1b

Figure 8.1c

Figure 8.1d



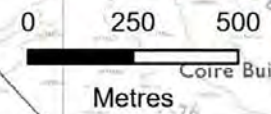
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PROPOSED KILFINNAN ROAD IMPROVEMENT
 EIA REPORT - GEOLOGY, HYDROLOGY AND HYDROGEOLOGY
 LOCAL HYDROLOGY

FIGURE 7.1a

Scale 1:18,000 @ A3 Date NOVEMBER 2023

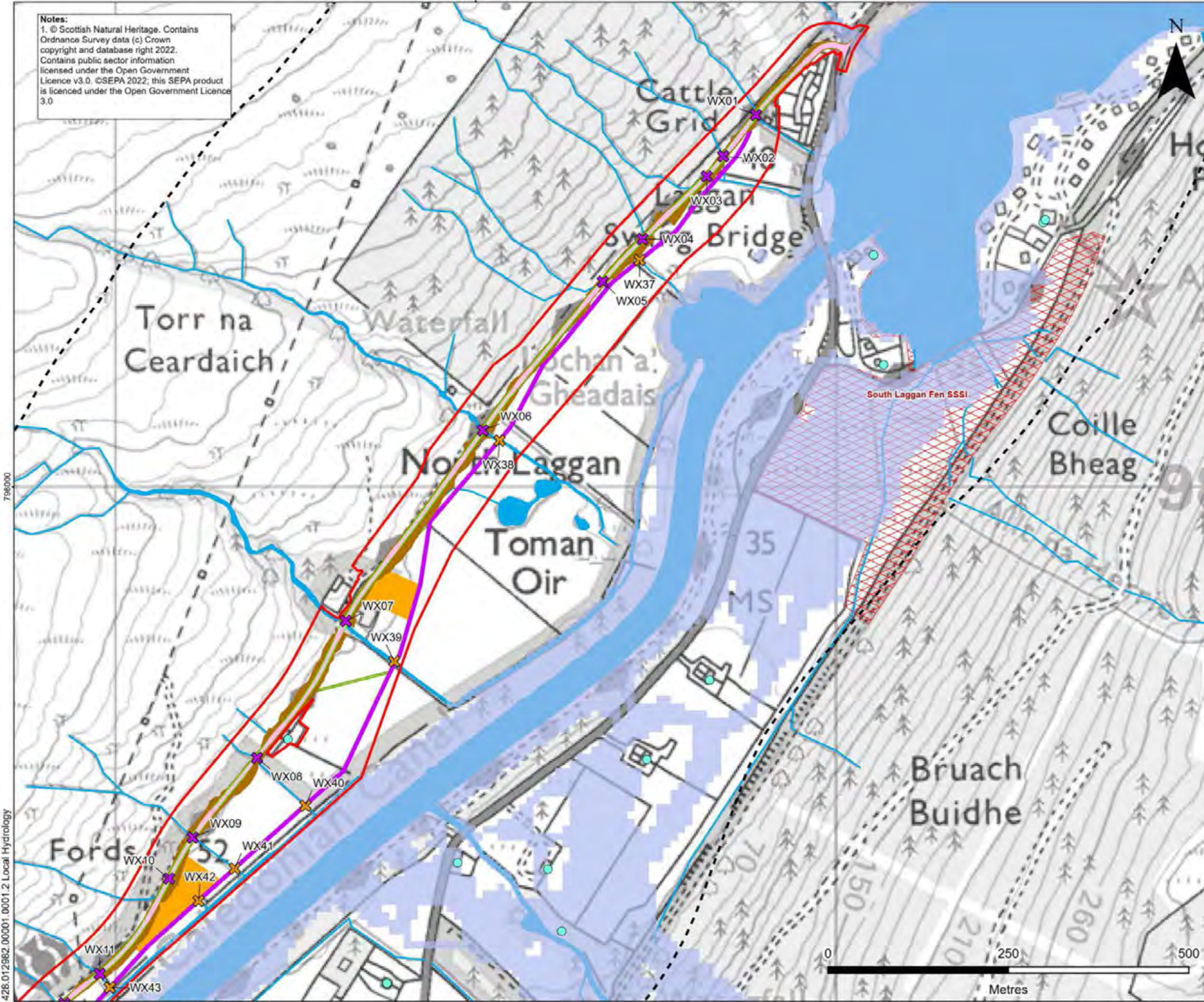


428.012982.00001.0001.2 Local Hydrology

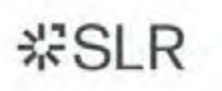
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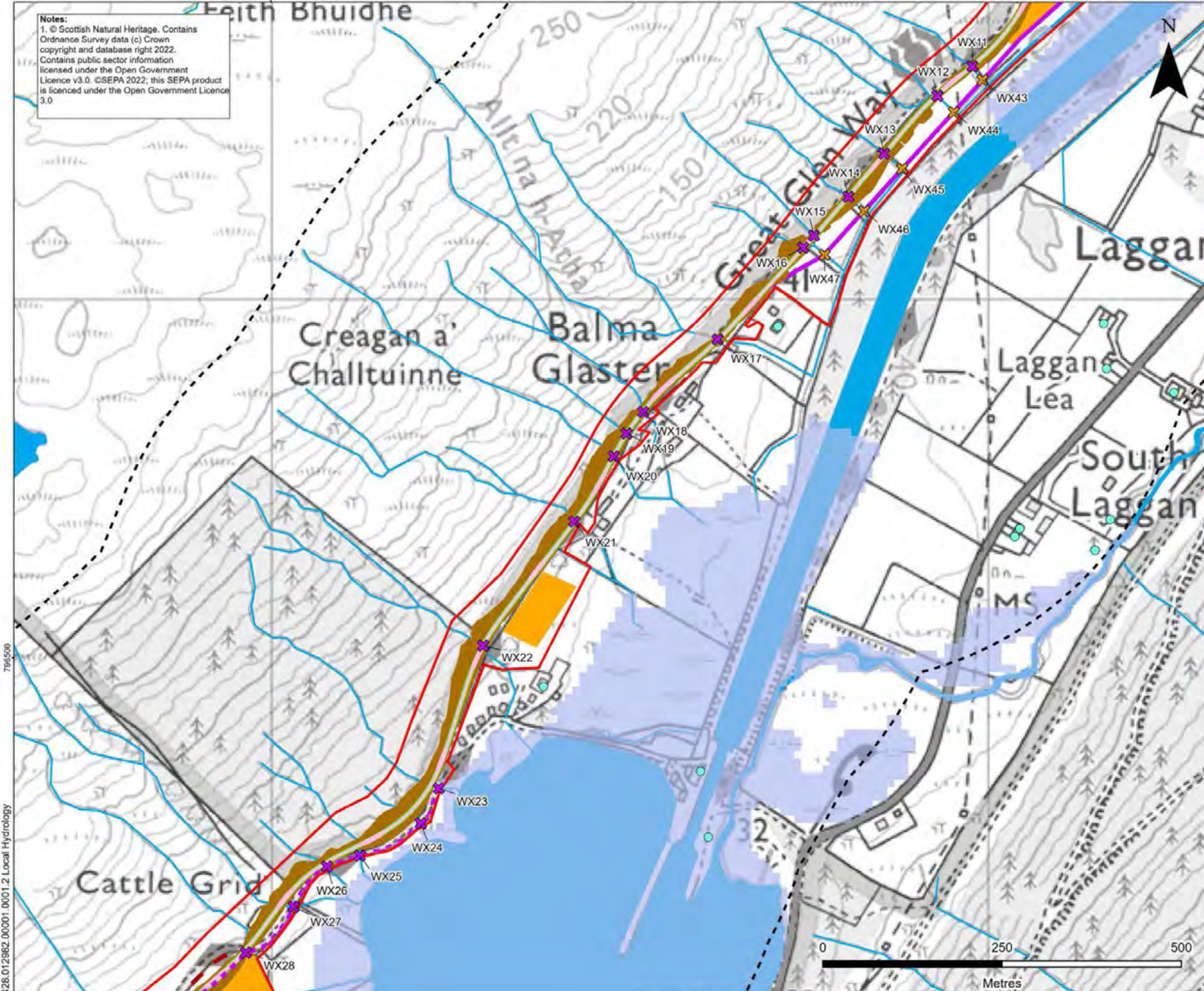
PROPOSED KILFINNAN ROAD
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EIA REPORT - GEOLOGY, HYDROLOGY
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LOCAL HYDROLOGY

FIGURE 7.1b

Scale 1:5,000 @ A3 Date NOVEMBER 2023

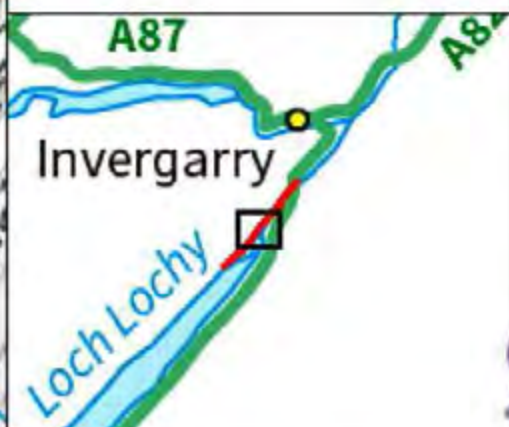
426.012982.00001.0001.2 Local Hydrology

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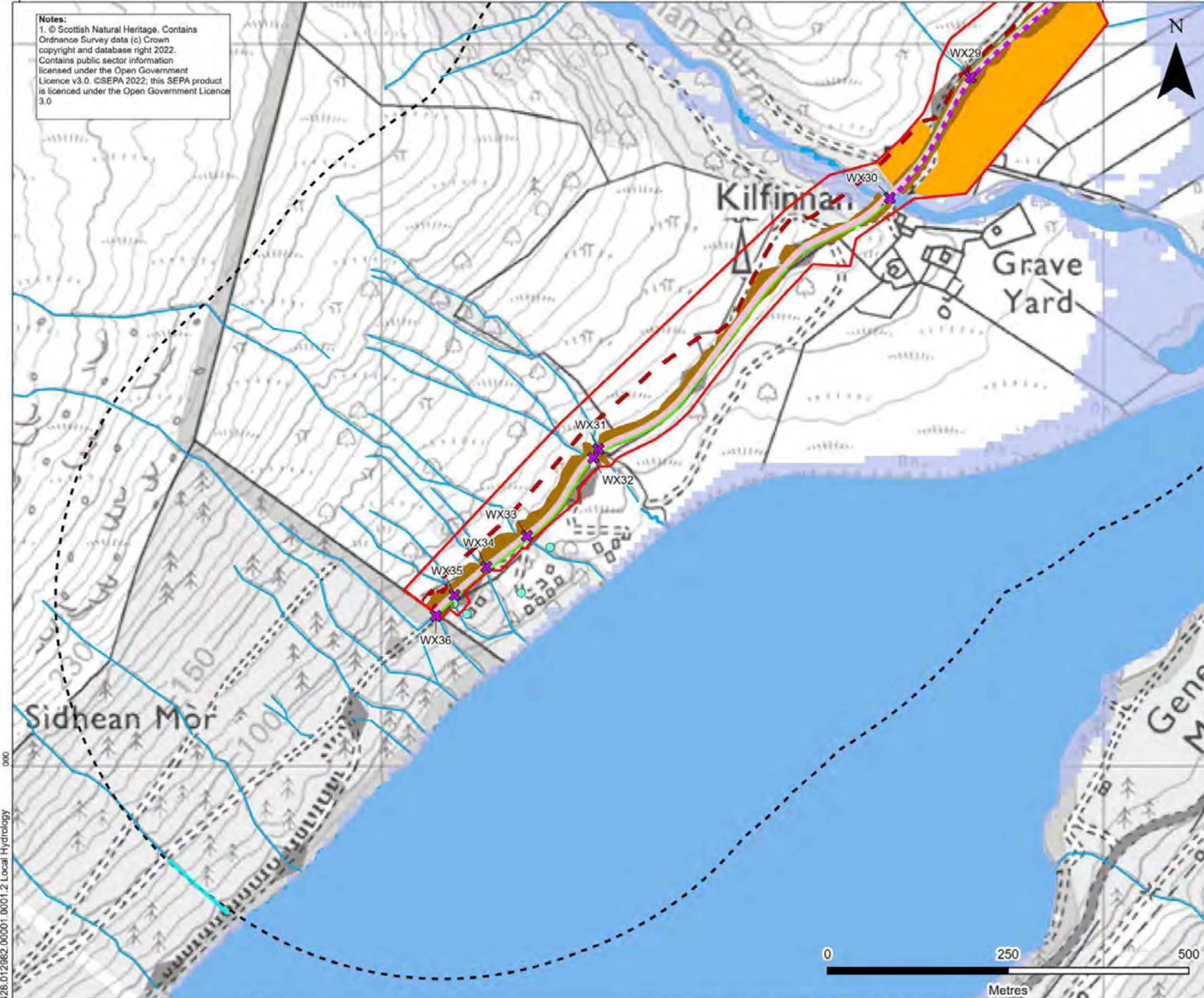
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EIA REPORT - GEOLOGY, HYDROLOGY AND HYDROGEOLOGY
LOCAL HYDROLOGY

FIGURE 7.1c
Scale 1:5,000 @ A3 Date NOVEMBER 2023

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428.012982.00001.00011.2 Local Hydrology

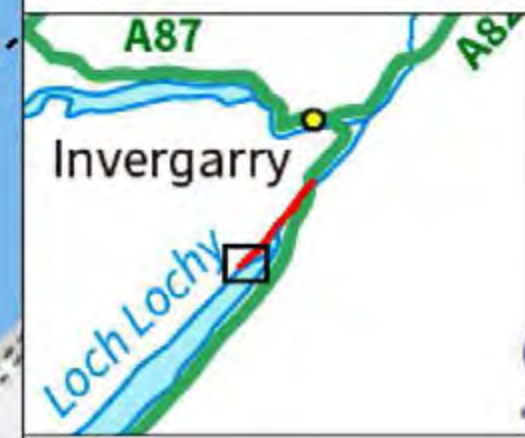


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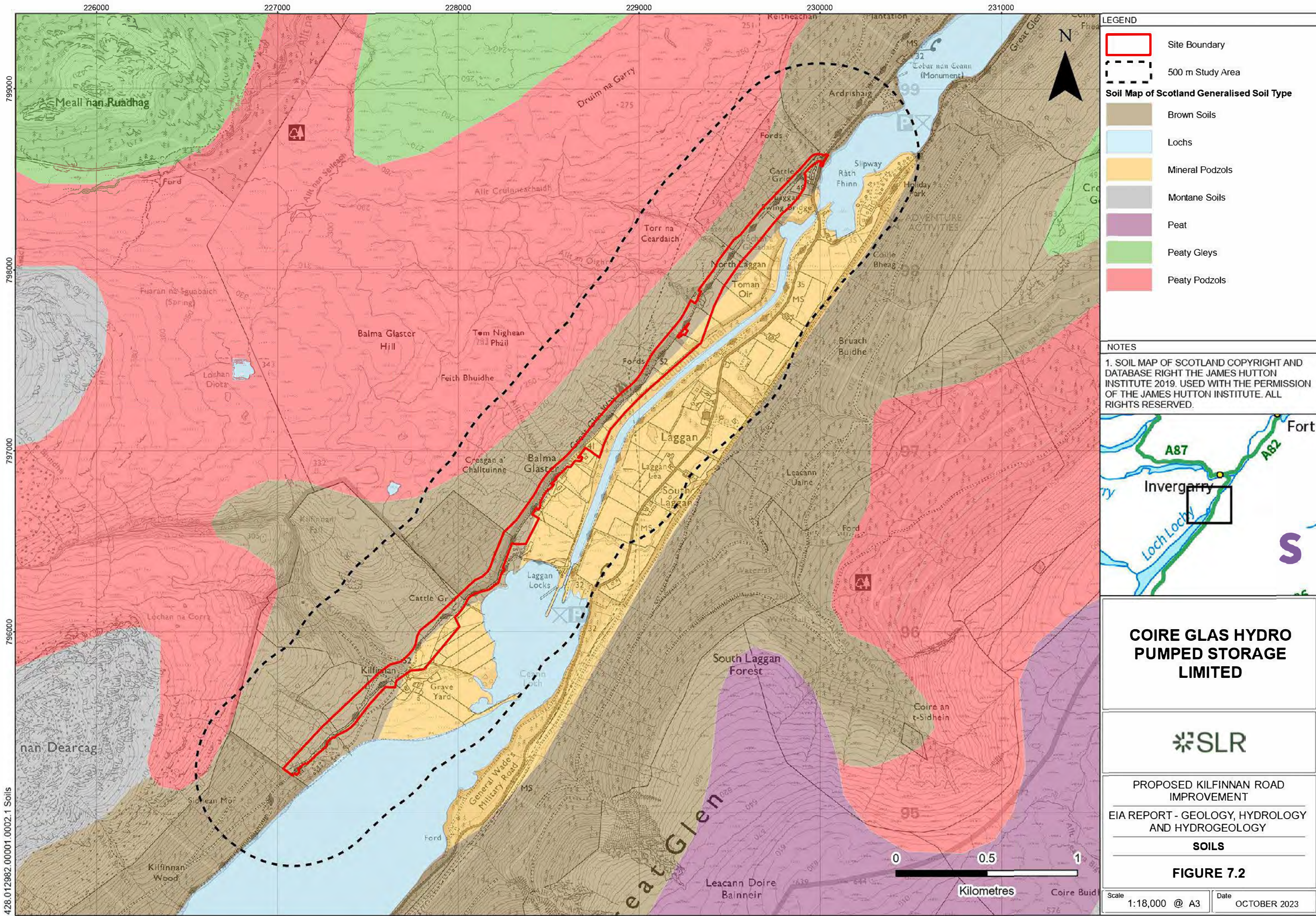


PROPOSED KILFINNAN ROAD
 IMPROVEMENT
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 AND HYDROGEOLOGY
 LOCAL HYDROLOGY

FIGURE 7.1d

Scale 1:5,000 @ A3 Date NOVEMBER 2023

428.012982.00001.00011.2 Local Hydrology



LEGEND

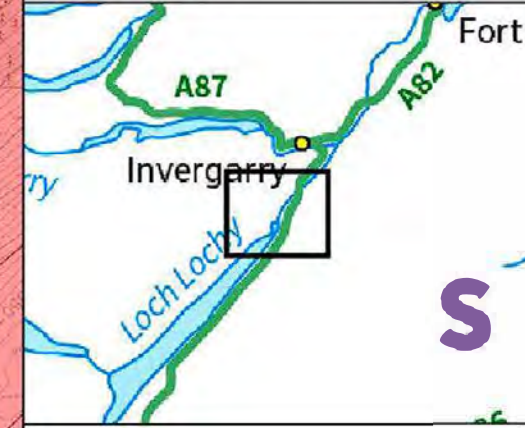
- Site Boundary
- 500 m Study Area

Soil Map of Scotland Generalised Soil Type

- Brown Soils
- Lochs
- Mineral Podzols
- Montane Soils
- Peat
- Peaty Gleys
- Peaty Podzols

NOTES

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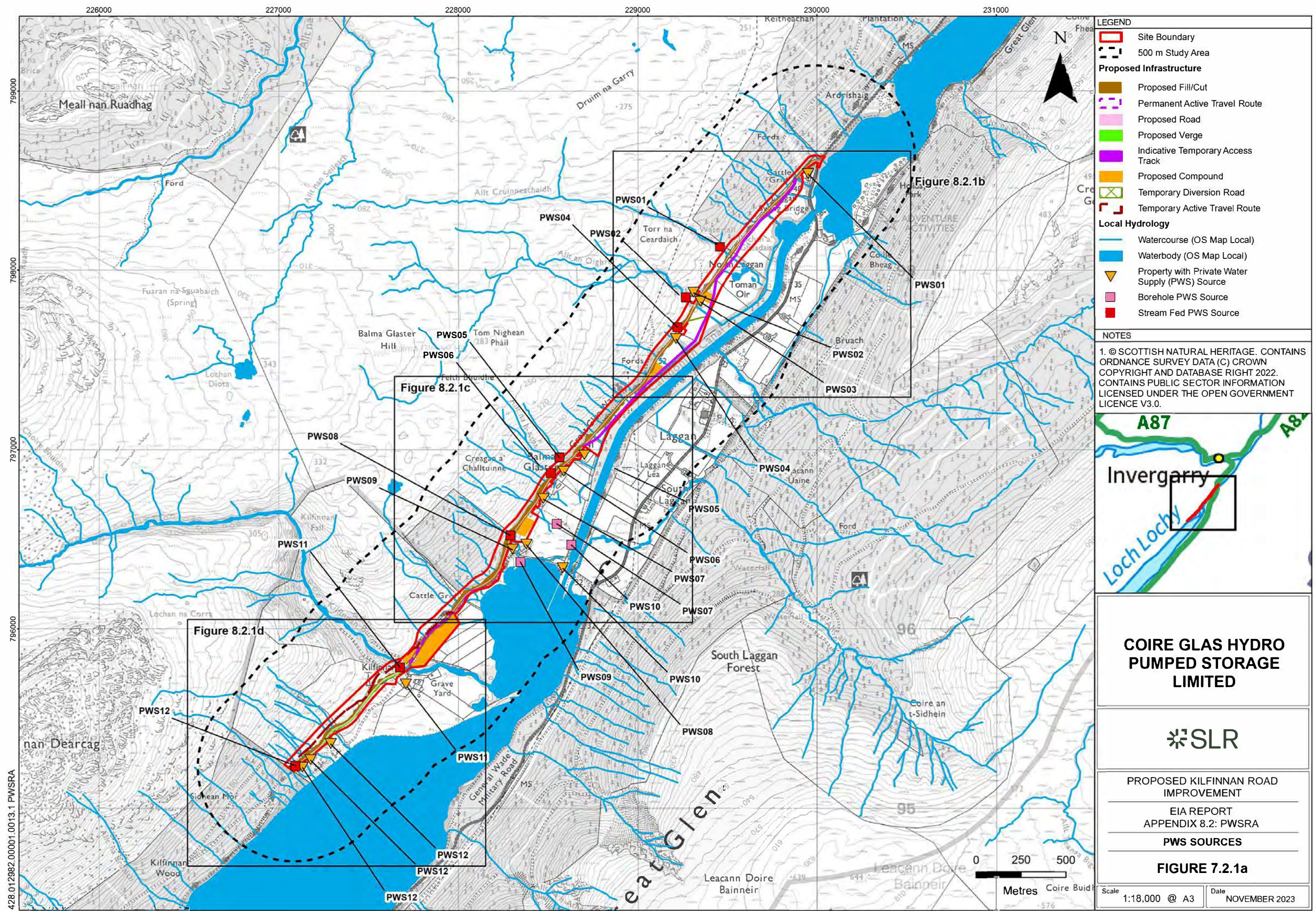
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PROPOSED KILFINNAN ROAD IMPROVEMENT
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SOILS

FIGURE 7.2

Scale 1:18,000 @ A3 Date OCTOBER 2023

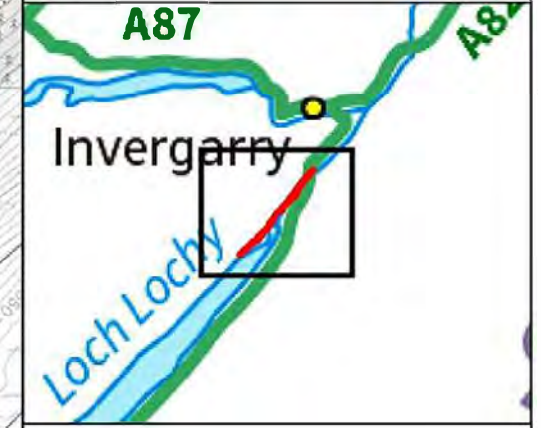


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- Waterbody (OS Map Local)
- ▼ Property with Private Water Supply (PWS) Source
- Borehole PWS Source
- Stream Fed PWS Source

NOTES

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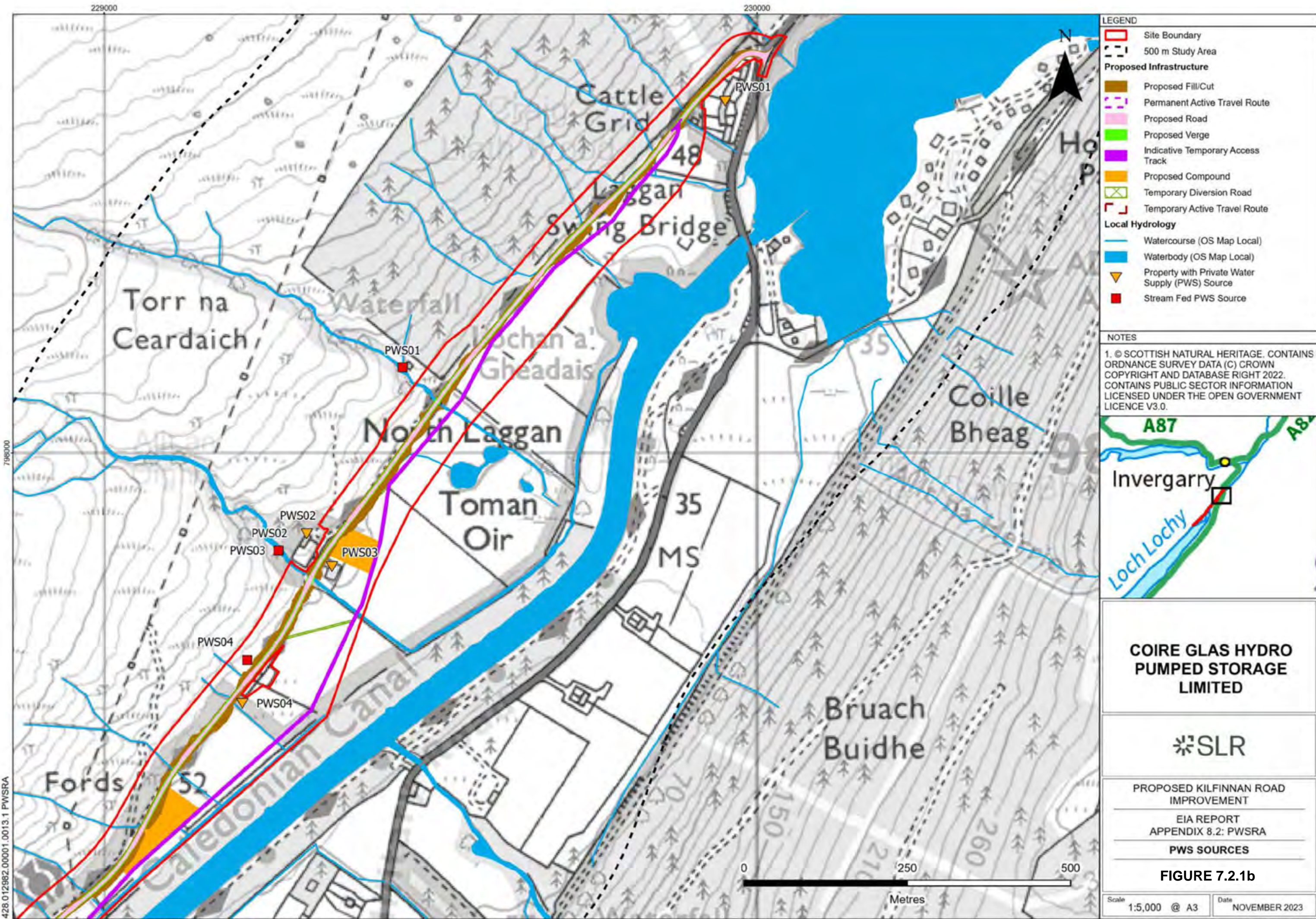
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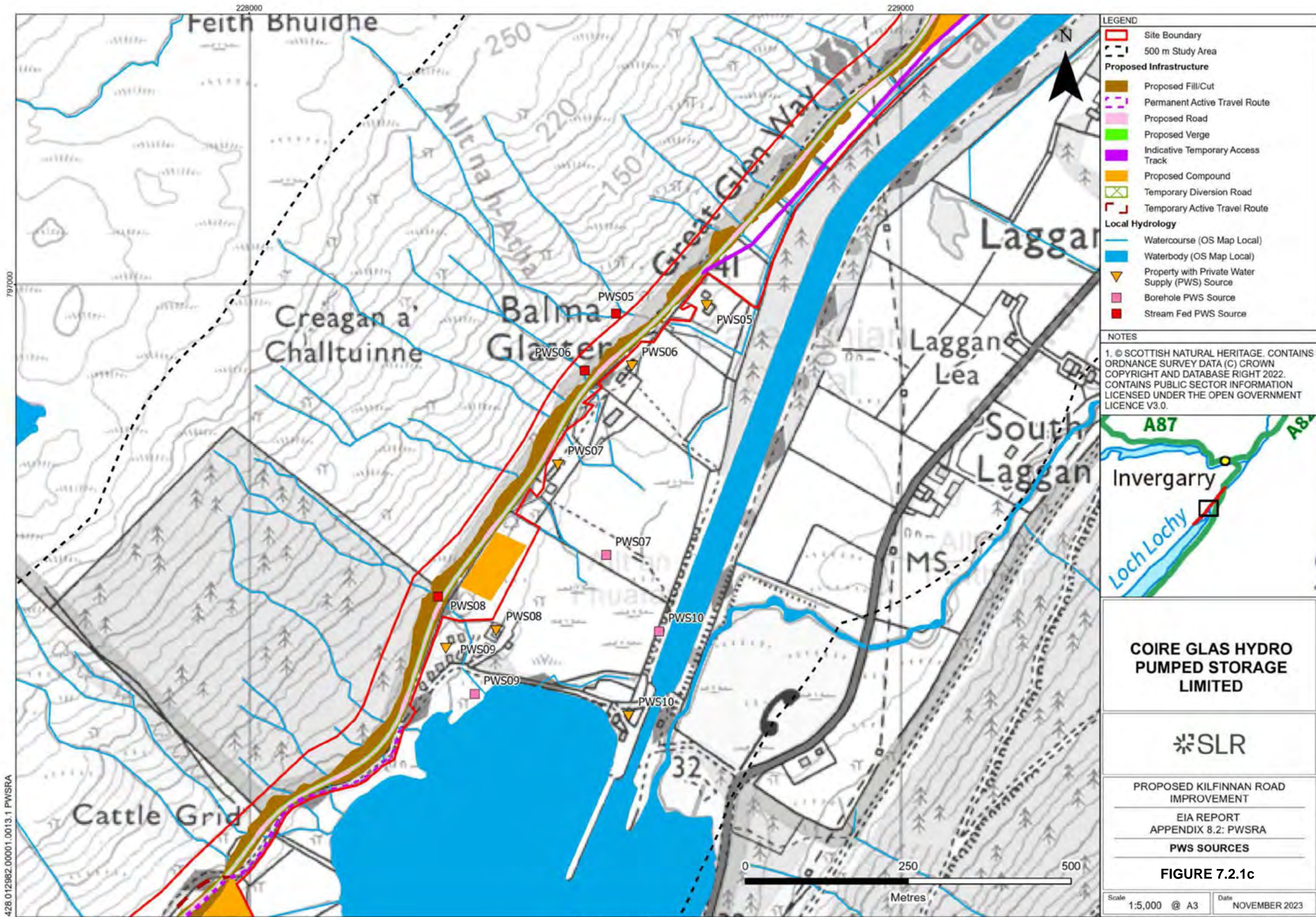
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EIA REPORT
APPENDIX 8.2: PWSRA
PWS SOURCES

FIGURE 7.2.1a

Scale 1:18,000 @ A3 Date NOVEMBER 2023



428.012982.00001.0013.1 PWSRA



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EIA REPORT
APPENDIX 8.2: PWSRA
PWS SOURCES

FIGURE 7.2.1c

Scale 1:5,000 @ A3 Date NOVEMBER 2023

428.012982.00001.0013.1 PWSRA

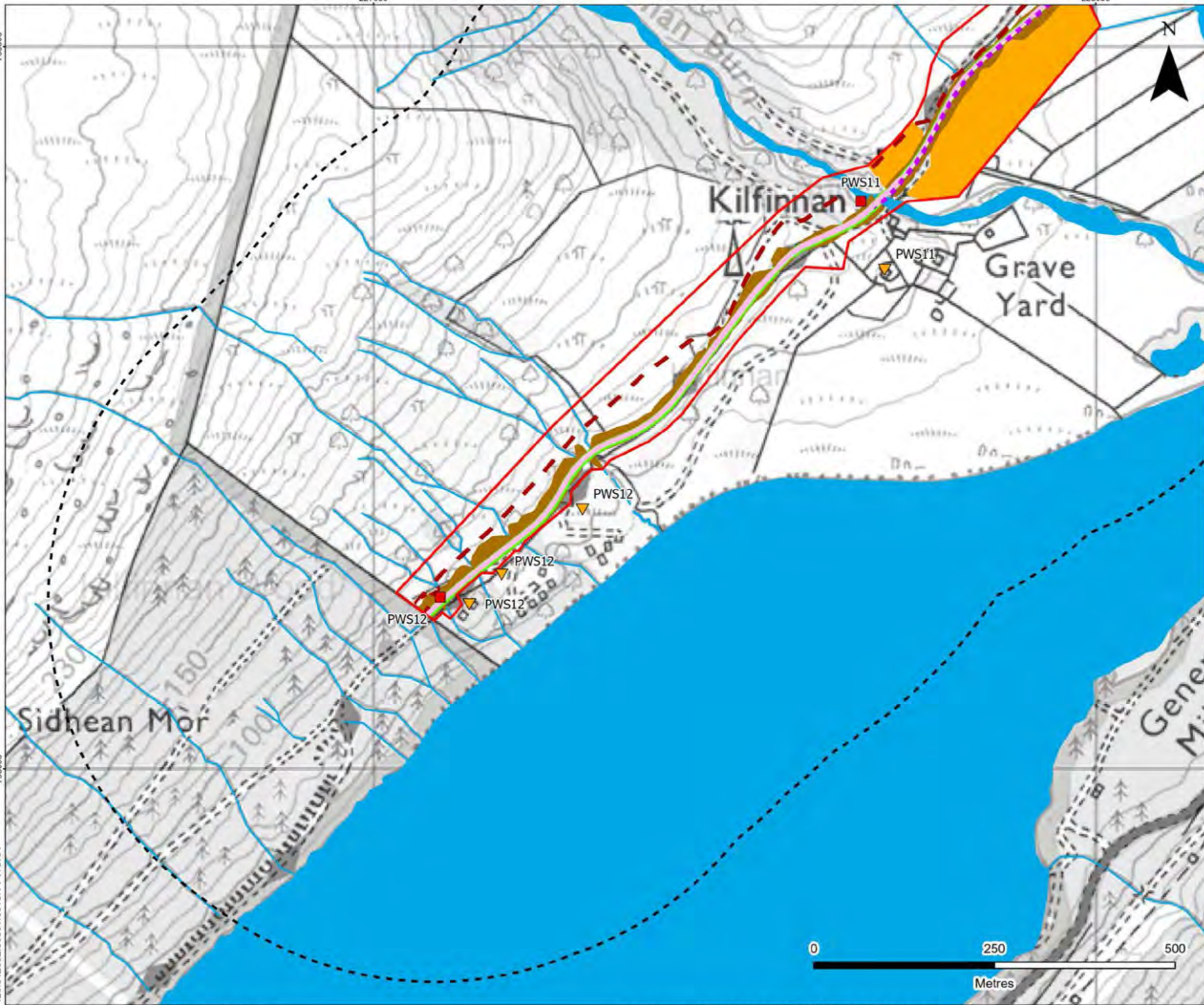
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428.012982.00001.0013.1 PWSRA



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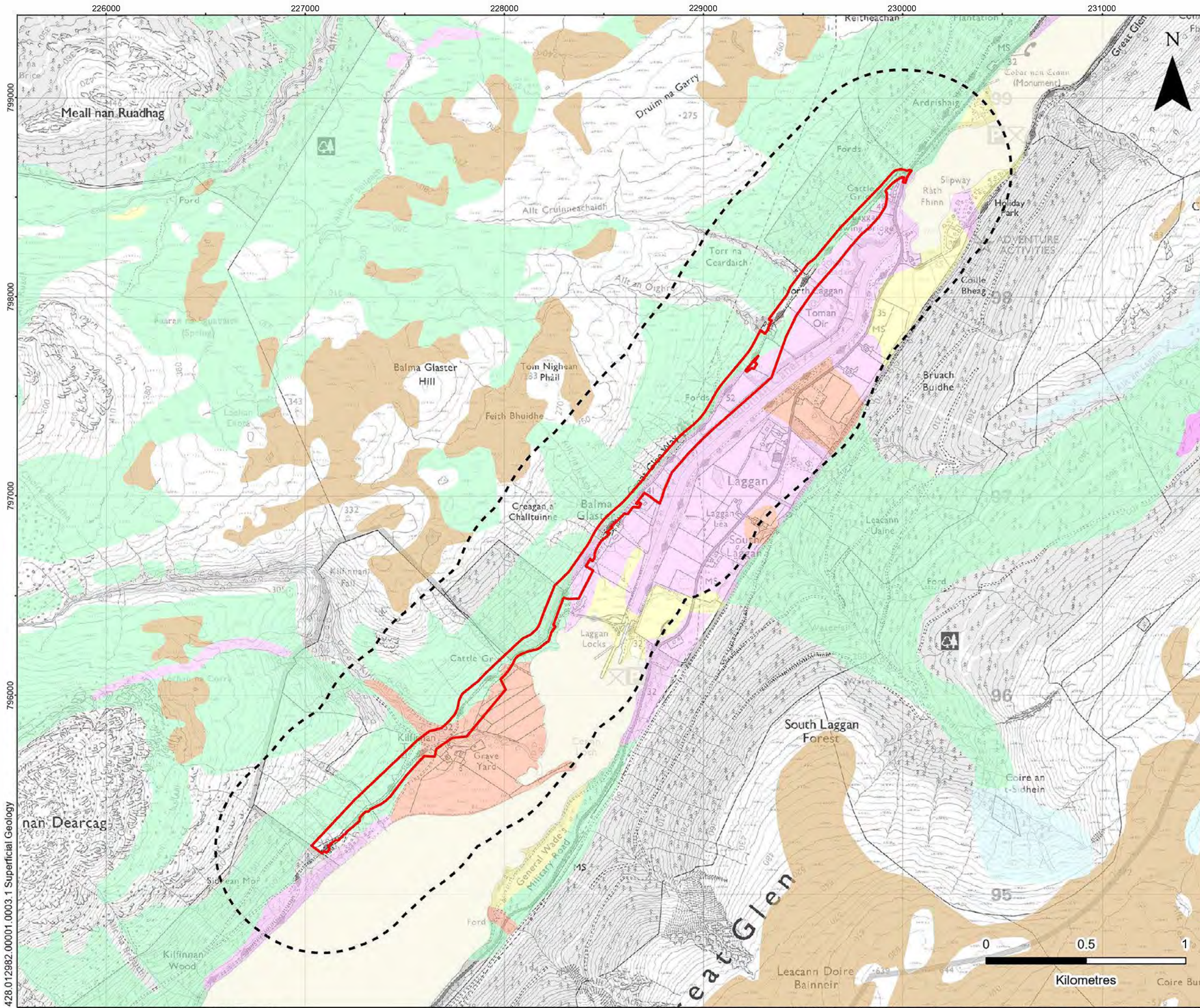


PROPOSED KILFINNAN ROAD
IMPROVEMENT
EIA REPORT
APPENDIX 8.2: PWSRA
PWS SOURCES

FIGURE 7.2.1d

Scale 1:5,000 @ A3 Date NOVEMBER 2023





LEGEND

- Site Boundary
- 500 m Study Area

Superficial Geology

- Alluvium - Clay, Silt, Sand and Gravel
- Till, Devensian - Diamicton
- Hummocky (Moundy) Glacial Deposits - Diamicton, Sand and Gravel
- Alluvial Fan Deposits - Gravel, Sand, Silt and Clay
- Alluvium and River Terrace Deposits - Gravel, Sand, Silt and Clay
- Glaciofluvial Deltaic (and/or Subaqueous Fan) Deposits - Gravel, Sand and Silt
- Glaciofluvial Deposits - Gravel, Sand and Silt
- Glaciofluvial Ice Contact Deposits - Gravel, Sand and Silt
- Peat - Peat
- Talus - Rock Fragments, Angular, Undifferentiated Source Rock

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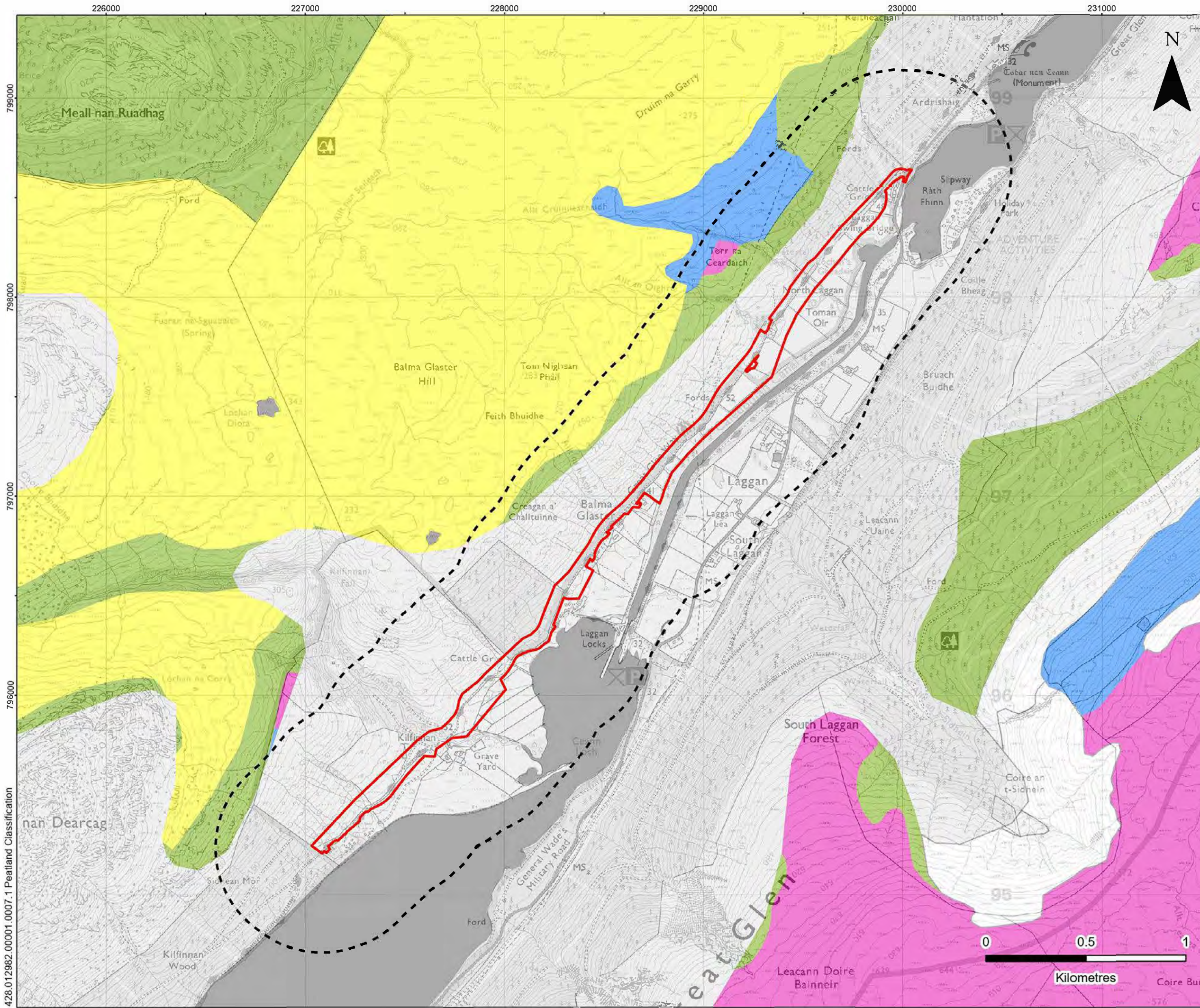


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SUPERFICIAL GEOLOGY

FIGURE 7.3

Scale 1:18,000 @ A3 Date OCTOBER 2023

428.012982.00001.0003.1 Superficial Geology



LEGEND

- Site Boundary
- 500 m Study Area

National Importance for Carbon-Rich Soil, Deep Peat & Priority Peatland Habitat

- CLASS 1 All Vegetation Cover is Priority Peatland Habitats. All Soils are Carbon-Rich Soils and Deep Peat
- CLASS 2 The Vegetation Cover is Dominated by Priority Peatland Habitats. All Soils are Carbon-Rich Soil and Deep Peat
- CLASS 3 Dominant Vegetation Cover is not Priority Peatland Habitat but is Associated with Wet and Acidic Type. Occasional Peatland Habitats can be Found. Most Soils are Carbon-Rich Soils, with Some Areas of Deep Peat
- CLASS 4 Area unlikely to be Associated with Peatland Habitats or Wet and Acidic Type. Area unlikely to include Carbon-Rich Soils
- CLASS 5 Soil Information takes Precedence over Vegetation Data. No Peatland Habitat Recorded. May also show Bare Soil. All Soils are Carbon-Rich Soil and Deep Peat
- Mineral Soils - Peatland Habitats are not Typically Found on such Soils
- Non-Soil (i.e. Loch, Built Up Area, Rock and Scree)

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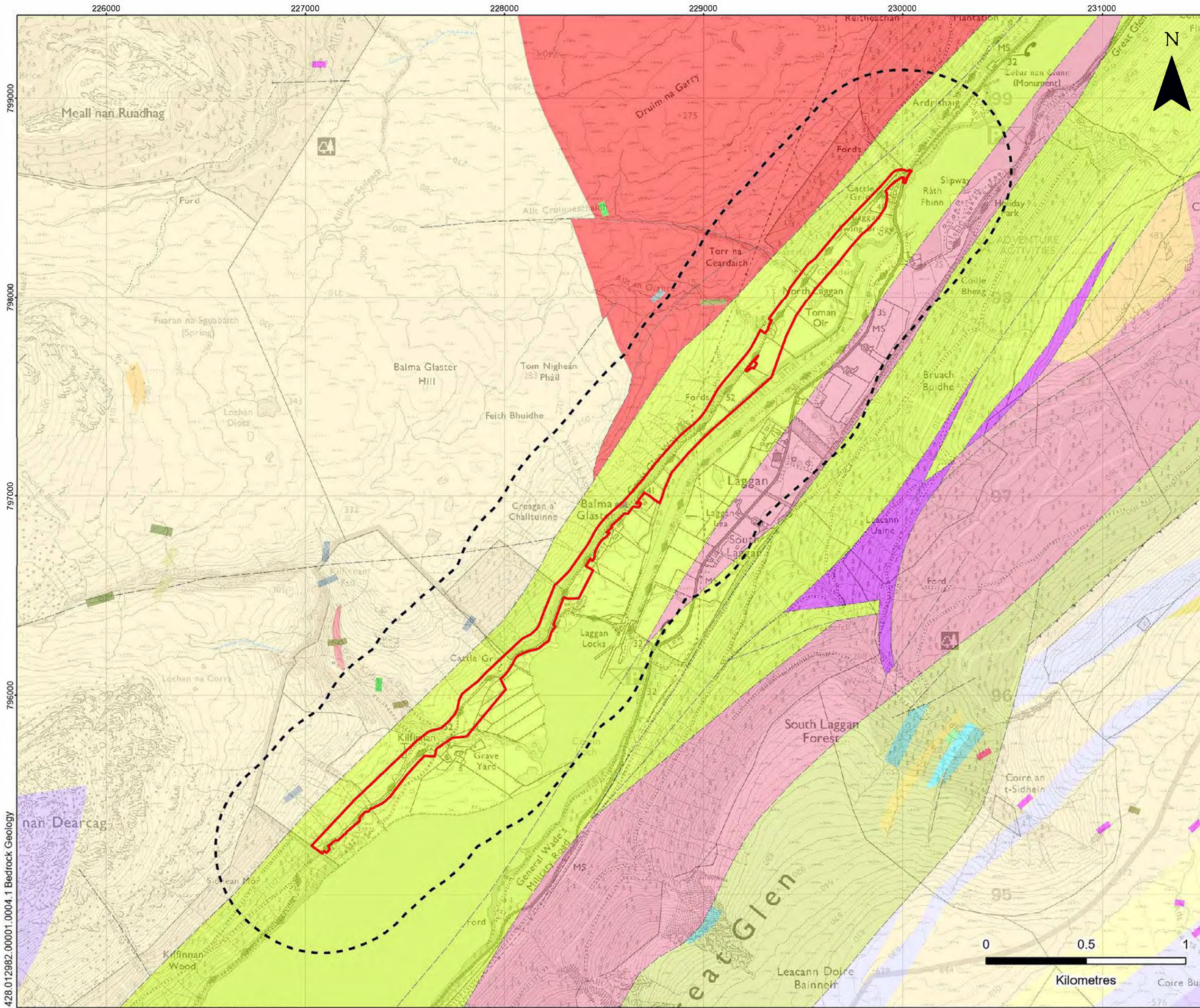
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PEATLAND CLASSIFICATION

FIGURE 7.4

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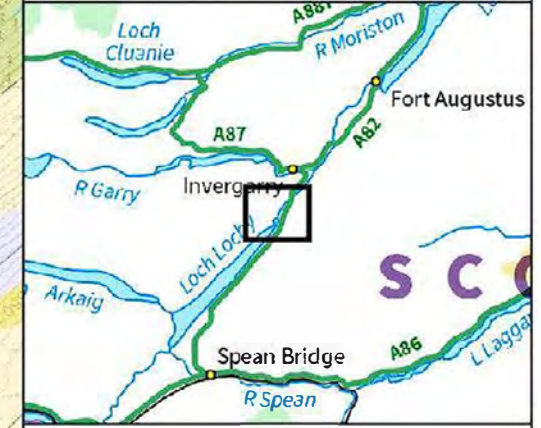
LEGEND

- Site Boundary
- 500 m Study Area

Bedrock Geology Legend in Figure 8.5b

NOTES

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BEDROCK GEOLOGY

FIGURE 7.5a

Scale 1:18,000 @ A3 Date OCTOBER 2023



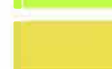
Bedrock Geology

-  Old Red Sandstone Supergroup - Fault-gouge
-  Old Red Sandstone Supergroup - Sandstone, breccia and conglomerate

Igneous Rock

-  Eil-arkaig Dyke Swarm – Lamprophyres
-  Scottish Highlands Late Carboniferous To Permian Alkali Dyke Suite - Lamprophyres
-  Appinite Suite - Appinitic felsic rocks and appinitic ultramafic rocks
-  Appinite Suite - Lamprophyres
-  Argyll and Northern Highlands Granitic Suite - Granitic-rock
-  Argyll and Northern Highlands Granitic Suite - Meladiorite, hornblende
-  Argyll and Northern Highlands Granitic Suite - Microdiorite
-  Ben Nevis Dyke Swarm - Microdiorite
-  Glen Garry Vein Complex - Granodiorite, diorite and leucogranite
-  Caledonian Supersuite - Diorite
-  Caledonian Supersuite - Felsite and quartz-feldspar porphyry
-  Caledonian Supersuite - Granite
-  Caledonian Supersuite - Microdiorite




Metamorphic Rock

-  Unnamed Metamorphosed Igneous Rocks, Caledonian - Schist, hornblende
-  Great Glen Fault Zone - Cataclasite
-  Great Glen Fault Zone - Fault-gouge
-  Allt Goibhre Semipelite Formation - Quartzite
-  Allt Goibhre Semipelite Formation - Semipelite

SILURIAN / DEVONIAN
 CARBONIFEROUS / PERMIAN
 SILURIAN / DEVONIAN
 SILURIAN
 ORDOVICIAN / DEVONIAN
 ORDOVICIAN / SILURIAN
 PROTEROZOIC / MESOZOIC

-  Auchivarie Psammite Formation - Psammite
-  Glen Buck Pebbly Psammite Formation - Limestone, dolomitic
-  Glen Buck Pebbly Psammite Formation - Metabasalt
-  Glen Buck Pebbly Psammite Formation - Pelite, graphitic
-  Glen Buck Pebbly Psammite Formation - Psammite, micaceous-pebbly
-  Glen Buck Pebbly Psammite Formation - Quartzite
-  Glen Fintaig Semipelite Formation - Psammite and semipelite
-  Glen Fintaig Semipelite Formation - Quartzite, feldspathic
-  Glen Fintaig Semipelite Formation - Semipelite
-  Glen Gloy Quartzite Formation - Quartzite, feldspathic
-  Tarff Banded Formation - Psammite
-  Tarff Banded Formation - Quartzite
-  Tarff Banded Formation - Semipelite
-  Unnamed Metamorphic Rocks, Neoproterozoic - Amphibolite and hornblende schist
-  Upper Garry Psammite Formation - Psammite
-  Upper Garry Psammite Formation - Psammite and semipelite
-  West Highland Granite Gneiss Intrusion - Granite, gneissose
-  Tarvie Psammite Formation - Psammite

Linear Geology

-  Fault, Inferred, Displacement Unknown
-  Reverse or Thrust Fault, Inferred, Barbs on Hanging Wall Side, throw in Metres
-  Esker Crestline

PROTEROZOIC

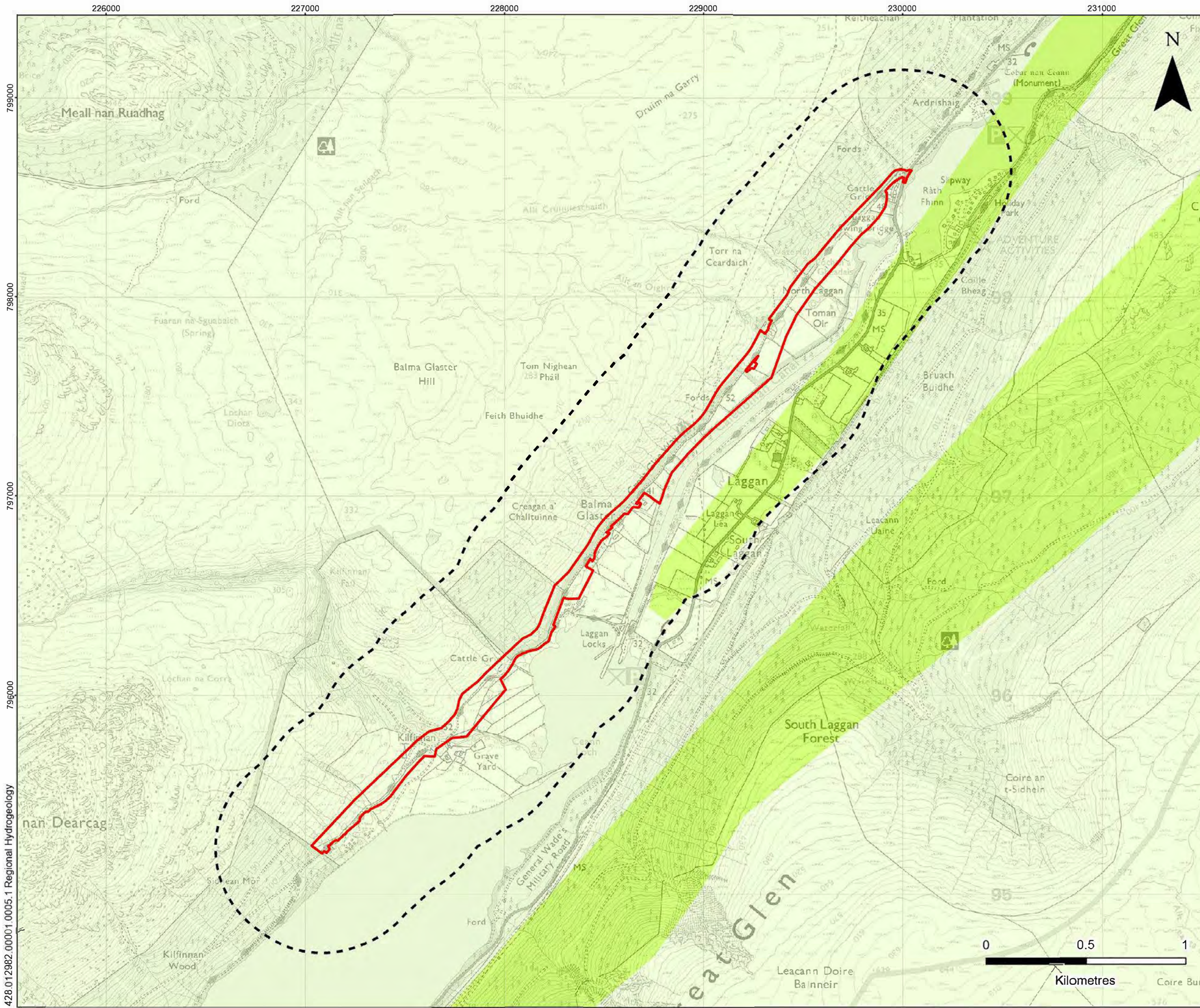
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BEDROCK GEOLOGY LEGEND

FIGURE 7.5b



LEGEND

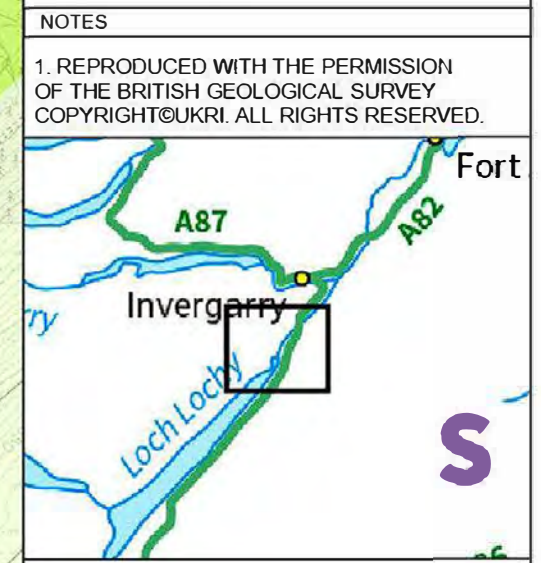
- Site Boundary
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Aquifer in which Flow is Virtually all through Fractures and Other Discontinuities

- 2B, Moderately Productive Aquifer
- 2C, Low Productivity Aquifer

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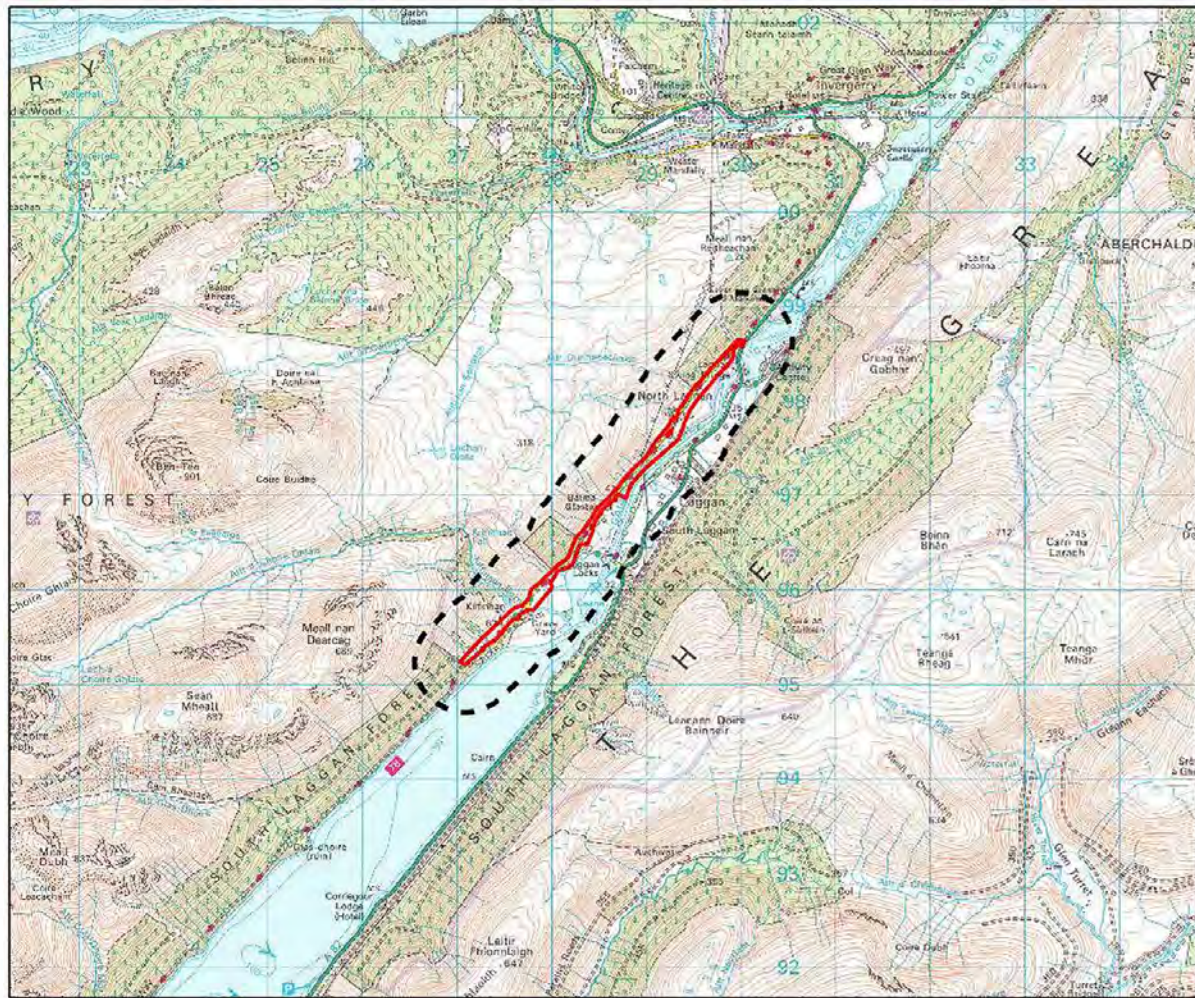


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REGIONAL HYDROGEOLOGY

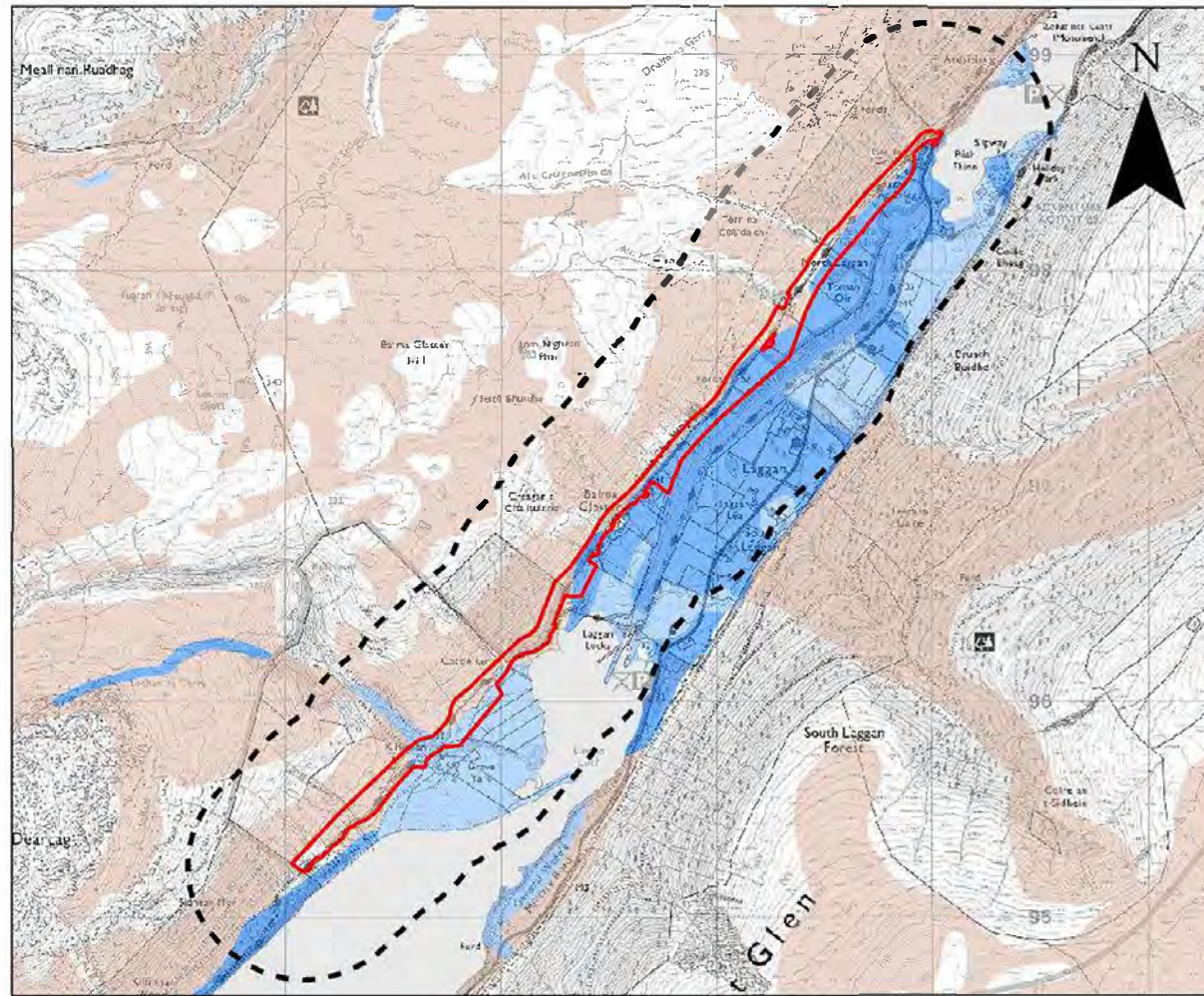
FIGURE 7.6

Scale 1:18,000 @ A3 Date OCTOBER 2023

428.012982.00001.0005.1 Regional Hydrogeology



MAP EXTRACT Scale - 1:80,000 @ A3



SUPERFICIAL AQUIFERS Scale - 1:35,000 @ A3

LEGEND

- Site Boundary
- 500 m Study Area

Superficial Aquifers

- Intergranular; High Productivity
- Intergranular; Moderate to High Productivity
- Not a Significant Aquifer

Bedrock Aquifers

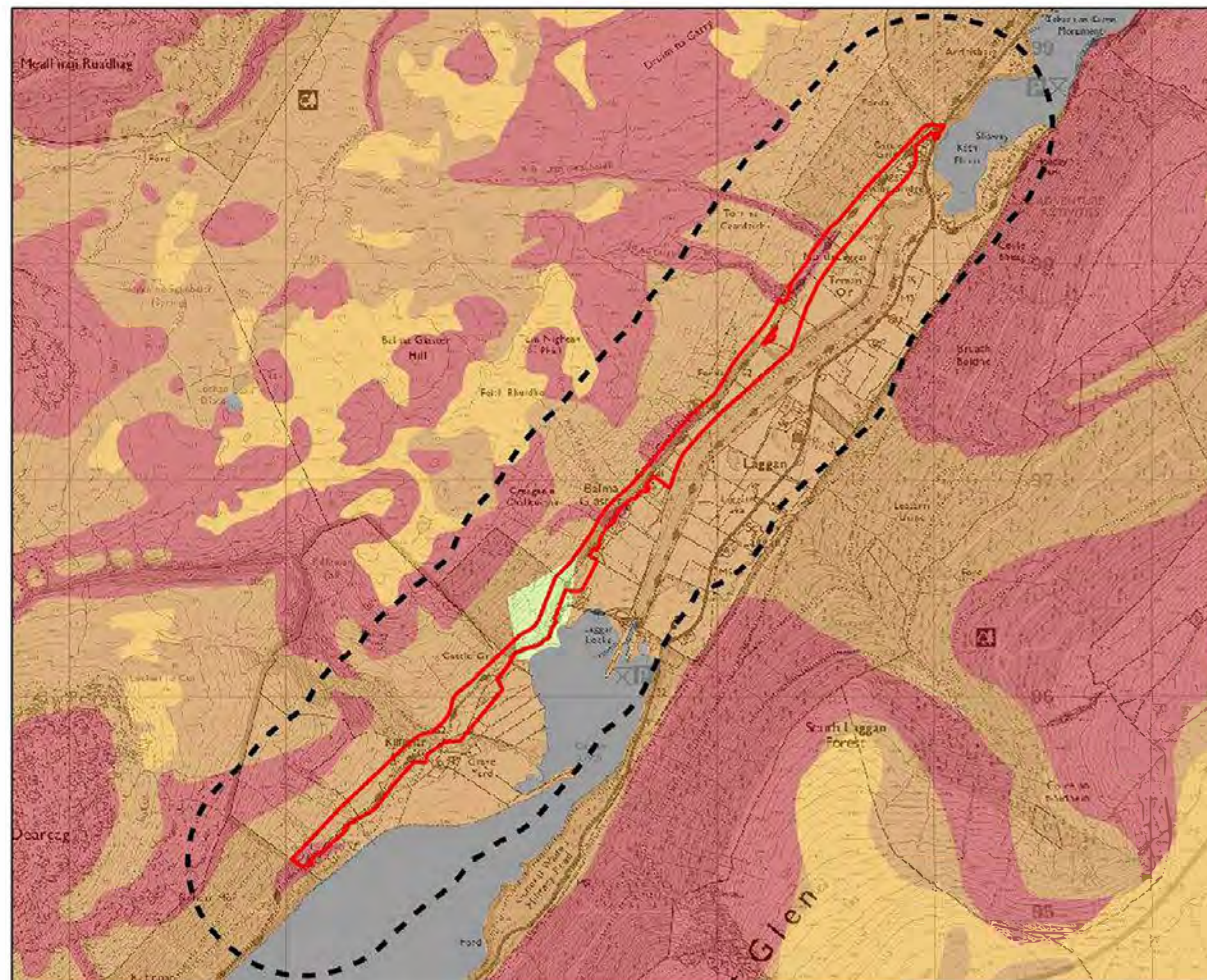
- Fracture; Low Productivity
- Fracture; Very Low Productivity
- Intergranular/Fracture; Moderate Productivity

Groundwater Vulnerability in the Uppermost Aquifer Vulnerability Class

- 5 - Vulnerable to Most Pollutants, With Rapid Impact in Many Scenarios.
- 4a - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. Less Likely to Have Clay Present in Superficial Deposits (Therefore Generally Higher Vulnerability Than 4b).
- 4b - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. More Likely to Have Clay Present in Superficial Deposits (Therefore Generally Lower Vulnerability Than 4a).
- 3 - Vulnerable to Some Pollutants; Many Others Significantly Attenuated.
- 0 - Not Sufficient Data to Classify Vulnerability: e.g. Below Lochs; in Urban Areas Where Geological and/or Soils Data are Missing; or Where Superficial Deposits are Mapped but not Classified.



BEDROCK AQUIFERS Scale - 1:35,000 @ A3



GROUNDWATER VULNERABILITY IN THE UPPERMOST AQUIFER Scale - 1:35,000 @ A3

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GROUNDWATER VULNERABILITY

FIGURE 7.7

Date **OCTOBER 2023**

428.012982.00001.0006.1 Groundwater Vulnerability