# OS MasterMap Topography Layer Release Note – February 2024

| Version | Change |
|---|---|
| 1.0 | Initial publication of this release note. |

## Introduction

This release note provides information about the latest release of OS MasterMap (OSMM) Topography Layer February 2024.

## OSMM Topography Layer product count

The following table contains product counts for this release of OSMM Topography Layer data. The dates shown are extraction dates, not release dates.

| OSMM Topography Layer | Count on 14/12/2023 (Previous release) | Count on 01/02/2024 (Current release) |
|---|---|---|
| **Total Feature Count** | **506 917 679** | **507 375 850** |
| Count of Topo Area | 126 804 006 | 126 911 673 |
| Count of Topo Line | 349 295 187 | 349 600 457 |
| Count of Topo Point | 4 345 063 | 4 362 057 |
| Count of Topo Bline | 532 991 | 532 911 |
| Count of Topo CartoSym | 3 745 400 | 3 763 697 |
| Count of Topo CartoTxt | 22 195 032 | 22 205 055 |
| **Total Count of Deletes** | **333 884** | **352 971** |
| Count of Topo Area deletions | 70 410 | 72 340 |
| Count of Topo Line deletions | 231 489 | 246 393 |
| Count of Topo Point deletions | 3 420 | 4 698 |
| Count of Topo Bline deletions | 828 | 433 |
| Count of Topo CartoSymcc deletions | 7 670 | 11 208 |
| Count of Topo CartoTxtcc deletions | 20 067 | 17 899 |

| OSMM Topography Layer | Count on 14/12/2023 (Previous release) | Count on 01/02/2024 (Current release) |
|---|---|---|
| **Total Count of Inserts** | **767 416** | **811 142** |
| Count of Topo Area inserts | 176 713 | 180 007 |
| Count of Topo Line inserts | 526 812 | 551 663 |
| Count of Topo Point inserts | 15 012 | 21 692 |
| Count of Topo Bline inserts | 391 | 353 |
| Count of Topo CartoSym inserts | 18 520 | 29 505 |
| Count of Topo CartoTxt inserts | 29 968 | 27 922 |
| **Total Count of Modifications** | **515 536** | **600 677** |
| Count of Topo Area Modifications | 246 717 | 294 892 |
| Count of Topo Line Modifications | 254 055 | 291 597 |
| Count of Topo Point Modifications | 254 | 326 |
| Count of Topo Bline Modifications | 955 | 628 |
| Count of Topo CartoSym Modifications | 45 | 132 |
| Count of Topo CartoTxt Modifications | 13 510 | 13 102 |
| **COU Size (bytes)** | **347 863 984** | **386 470 897** |

## New formats available

Alongside GML format, OSMM Topography Layer is also available in GeoPackage and vector tiles formats (from March 2023). Getting started guides for these new formats are available on the product's 'Technical Information' page on the OS website (https://beta.ordnancesurvey.co.uk/products/os-mastermap-topography-layer#technical). The product is supplied as an online download. You can download data in its various formats from the OS Data Hub (https://osdatahub.os.uk/).

## Discrepancies

- 7 minor errors were detected, which is 1 more than the 6 errors found in the last refresh. Of these errors, 1 has existed since the previous refresh. 6 of these are minor issues – these are minor issues with no visible issues, and there is 1 serious error of a double digitised line. We aim to have all errors resolved prior to the next release as part of ongoing quality improvement.

# Land cover refinement changes

The land cover specification for rural geographies has been refined. The Mountain and Moorland refinement was completed in 2022.

The rural geography updates began capture in May 2022. The initial updates fed through to the July 2022 release of OSMM Topography Layer, with the multi class land cover polygons completed in December 2022. The single class land cover polygons will continue to feed through to product from April 2023.

The following two tables articulate this specification refinement:

**Old land cover specification**

| Geographic area | Minimum area size for land cover | Minimum width |
|---|---|---|
| Urban | 0.1hectares (ha) (1 000m²) | 5m |
| Rural | 0.1hectares (ha) (1 000m²) | 10m |
| Mountain and moorland | 1.0hectares (ha) (10 000m²) | 10m |

**New land cover specification**

| Geographic area | Minimum area size for land cover | Minimum width |
|---|---|---|
| Urban | 0.1hectares (ha) (1 000m²) | 5m |
| Rural | 0.1hectares (ha) (1 000m²) | 5m* |
| Mountain and moorland | 0.1hectares (ha) (1 000m²)* | 5m* |

*Note: The asterisk symbol (*) shows which criteria have been refined.*

The land cover specification refinement means that the rural land cover data within OSMM Topography Layer will become more granular, producing a more detailed view made up of smaller, more numerous polygons. This provides users with more accurate data that meets each individual's specific requirements. These changes are purely refinements and do not change the data attribution.

Annex A shows three examples of how the rural land cover refinement is being translated into OSMM Topography Layer.

## Changed TOIDs

Numerous TOIDs (Topographic Identifiers) have changed since the last refresh, resulting in a visual difference in the data. The list below shows a sample of changed TOIDs and their locations that you can use as 'lookup samples' to validate that your latest supply has updated correctly:

| TOID | Location (i.e. XY coordinates) |
|---|---|
| osgb1000000175416836 | 332000, 721912.22 |
| osgb1000000230216079 | 335945.87, 440115.421 |
| osgb5000005128685631 | 578813.895, 172187.251 |
| osgb5000005327816366 | 265014.445, 842929.902 |
| osgb5000005328747598 | 400486.093, 278819.54 |
| osgb5000005154766496 | 617199.12, 165232.91 |

## Next release

The next release of OS MasterMap Topography Layer is scheduled for 2nd April 2024.

# Annex A: Rural land cover specification refinement examples

Below are three real-world examples of how the rural land cover specification refinement has affected the data within OSMM Topography Layer. The examples showcase three areas in southern Scotland where the specification refinement has broken up one land polygon within the Topographic Area Feature Type into smaller, separate polygons.

## Example one

Table 1:    Location of example one.

| 5km tile | OS grid reference | Coordinates (OSGB36) |
|---|---|---|
| NS4505 | NS 47825 05240 | 247790.7,605224.0 |

Table 2:    TOIDs for example one.

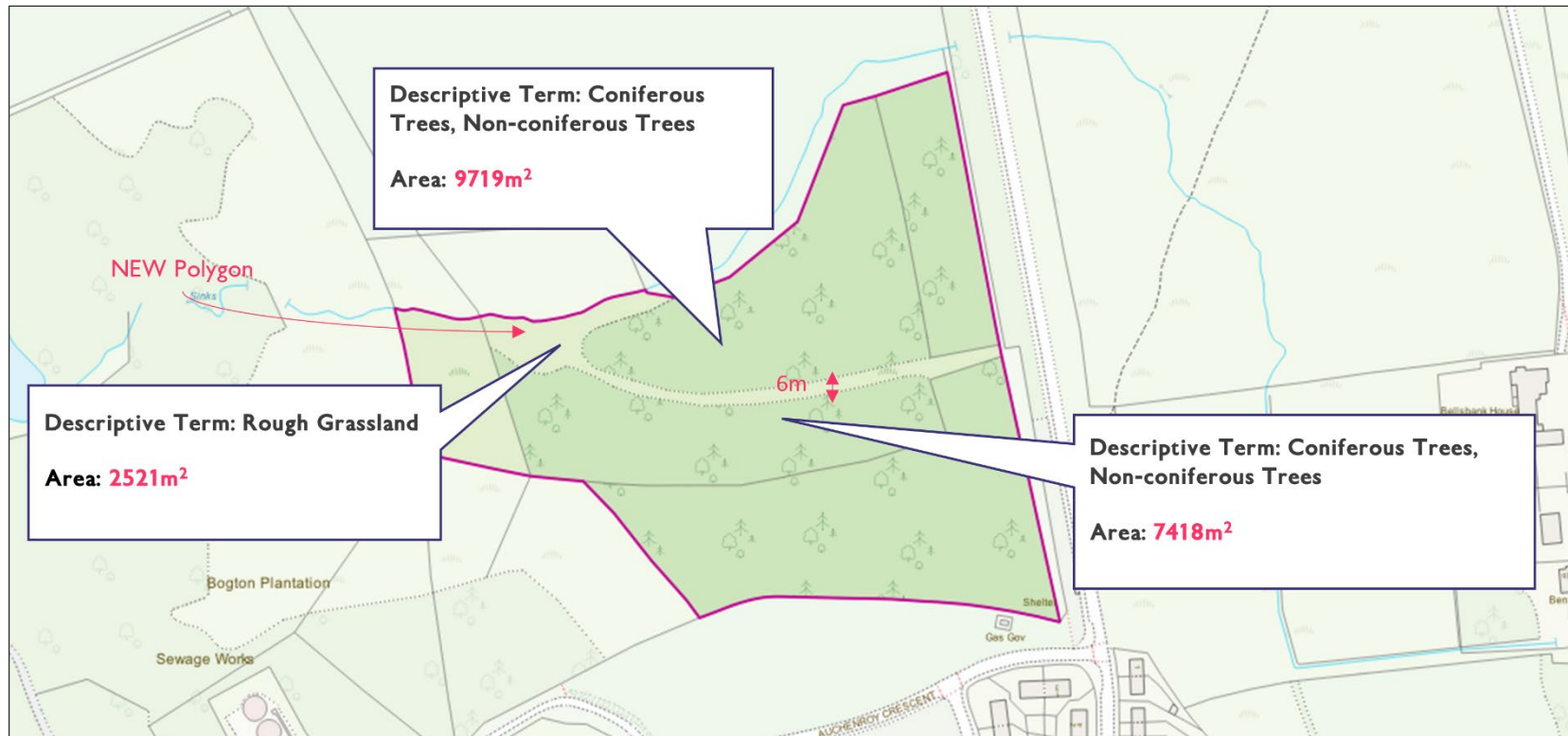| OSMM Topography Layer (July 2022) | OSMM Topography Layer (August 2022) |
|---|---|
| osgb1000000316775097 | osgb5000005297485451 |
| | osgb5000005297485455 |
| | osgb5000005297485456 |

Source imagery of example area one for comparative purposes:

Data before the rural land cover specification refinement update (OSMM Topography Layer – July 2022):



Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: 19660m²

Data after the rural land cover specification refinement update (OSMM Topography Layer – August 2022):



Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: **9719m²**

NEW Polygon

Descriptive Term: Rough Grassland

Area: **2521m²**

6m

Descriptive Term: Coniferous Trees, Non-coniferous Trees

Area: **7418m²**

Bogton Plantation

Sewage Works
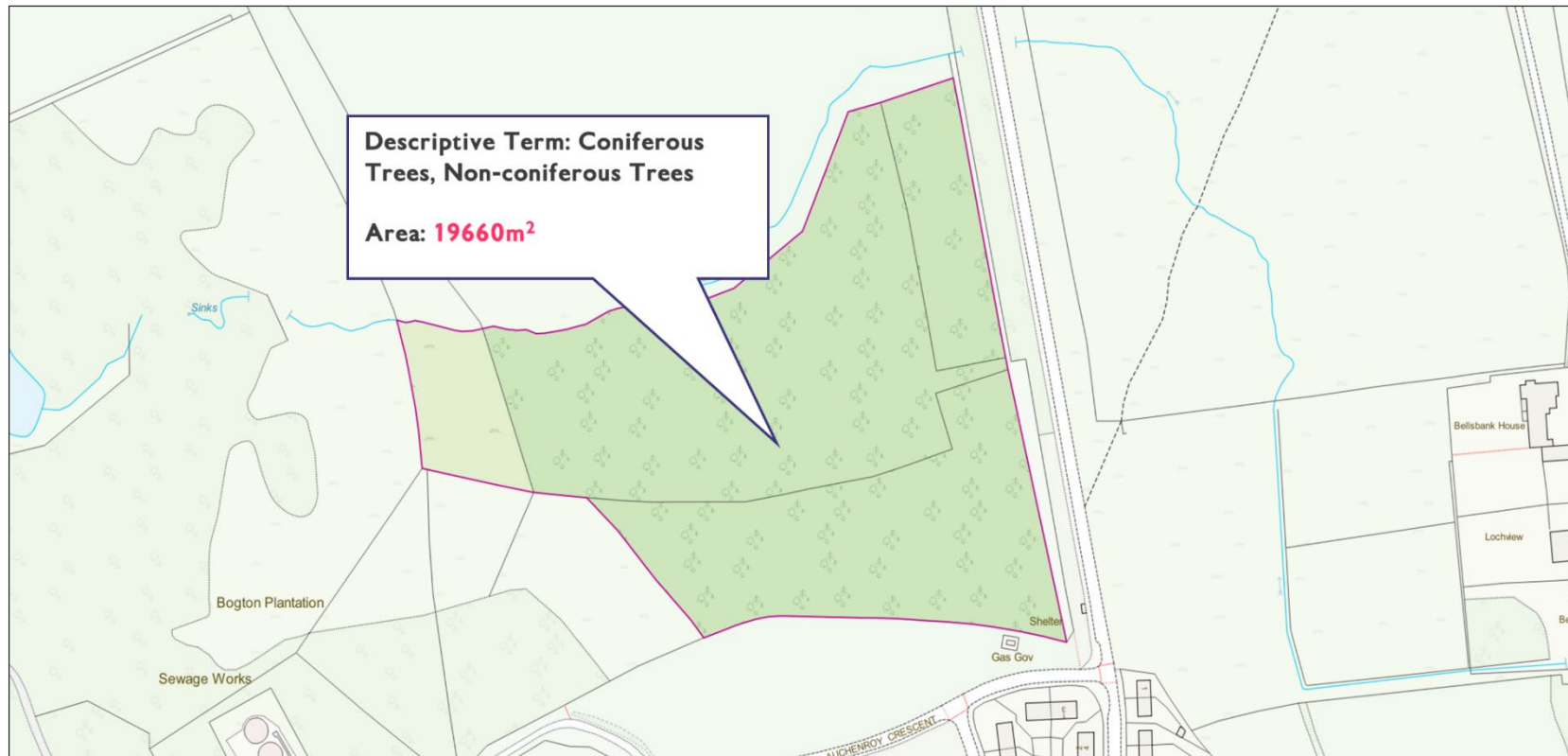
# Example two

Location of example two.

| 5km tile | OS grid reference | Coordinates (OSGB36) |
|----------|-------------------|----------------------|
| NX3540 | NX 37464 41871 | 237419, 541979 |

Table 4: TOIDs for example two.

| OSMM Topography Layer (August 2022) | OSMM Topography Layer (October 2022) |
|-------------------------------------|--------------------------------------|
| osgb1000000318639911 | osgb1000000318639911 |
| | osgb5000005298080383 |
| | osgb5000005298080465 |

Source imagery of example area two for comparative purposes:
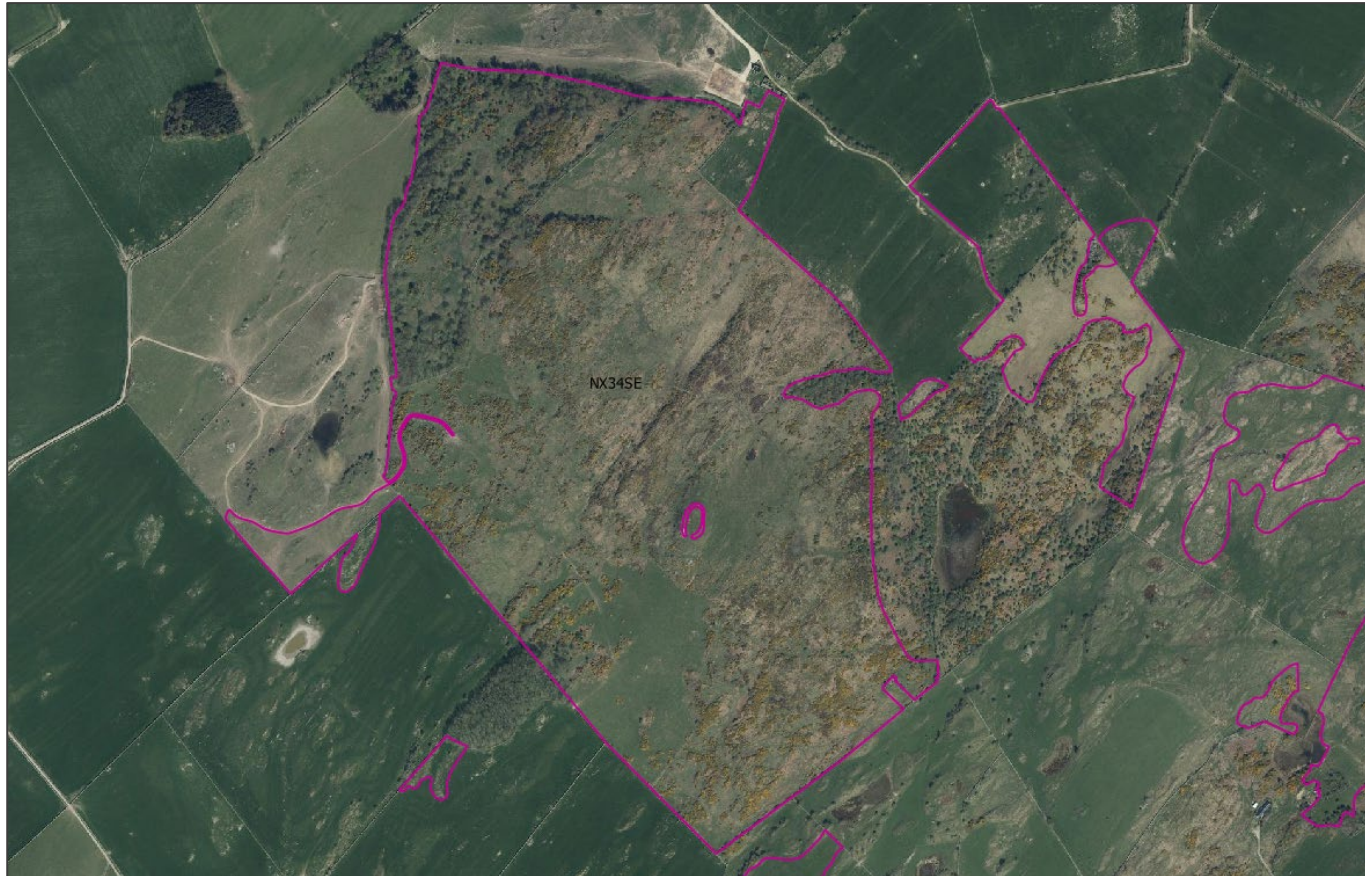
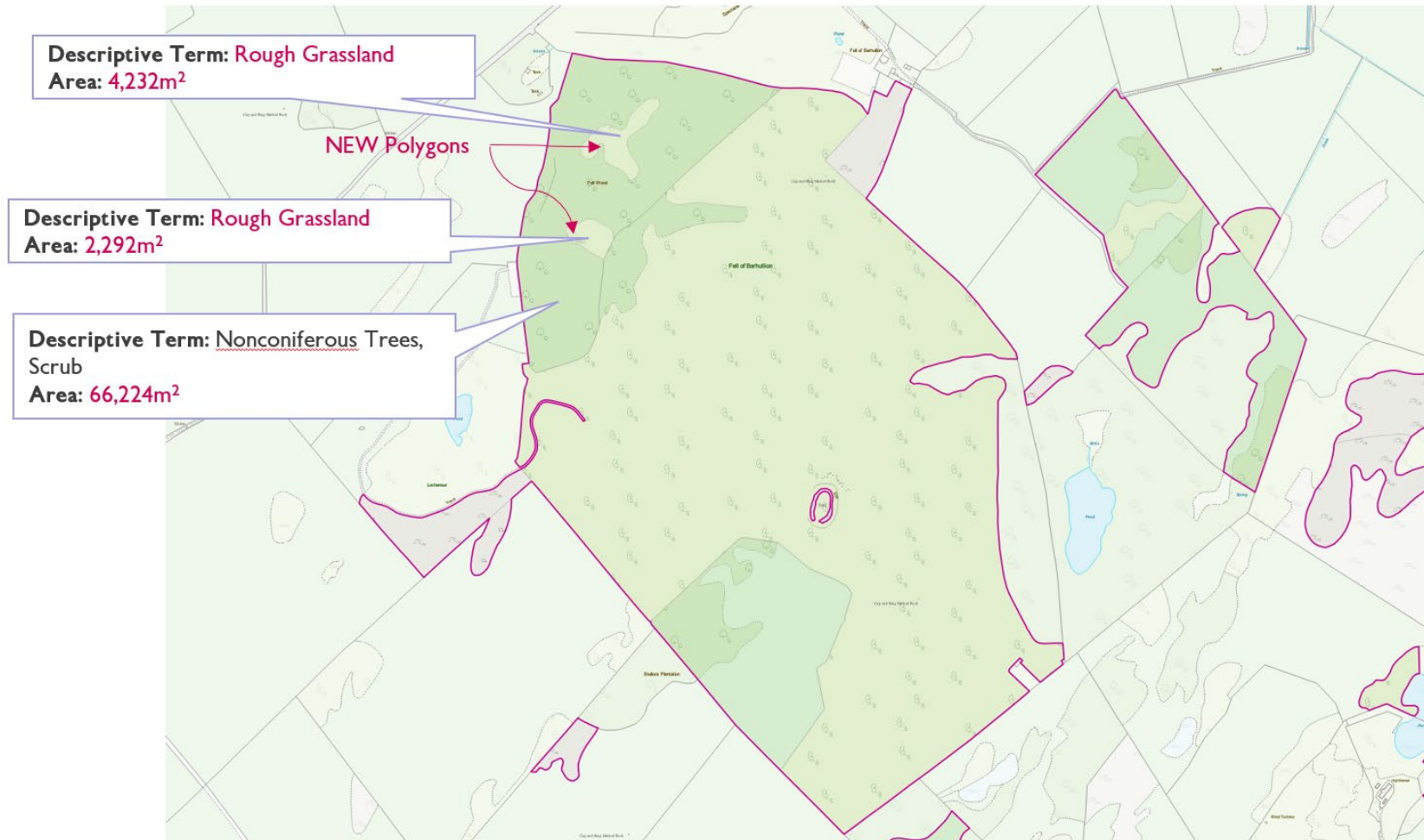Data before the rural land cover specification refinement update (OSMM Topography Layer – August 2022):



**Descriptive Term:** Nonconiferous Trees (Scattered), Rough Grassland, Scrub
**Area:** 72,840m²

Data after the rural land cover specification refinement update (OSMM Topography Layer – October 2022):



**Descriptive Term:** Rough Grassland
**Area:** 4,232m²

NEW Polygons

**Descriptive Term:** Rough Grassland
**Area:** 2,292m²

**Descriptive Term:** Nonconiferous Trees, Scrub
**Area:** 66,224m²
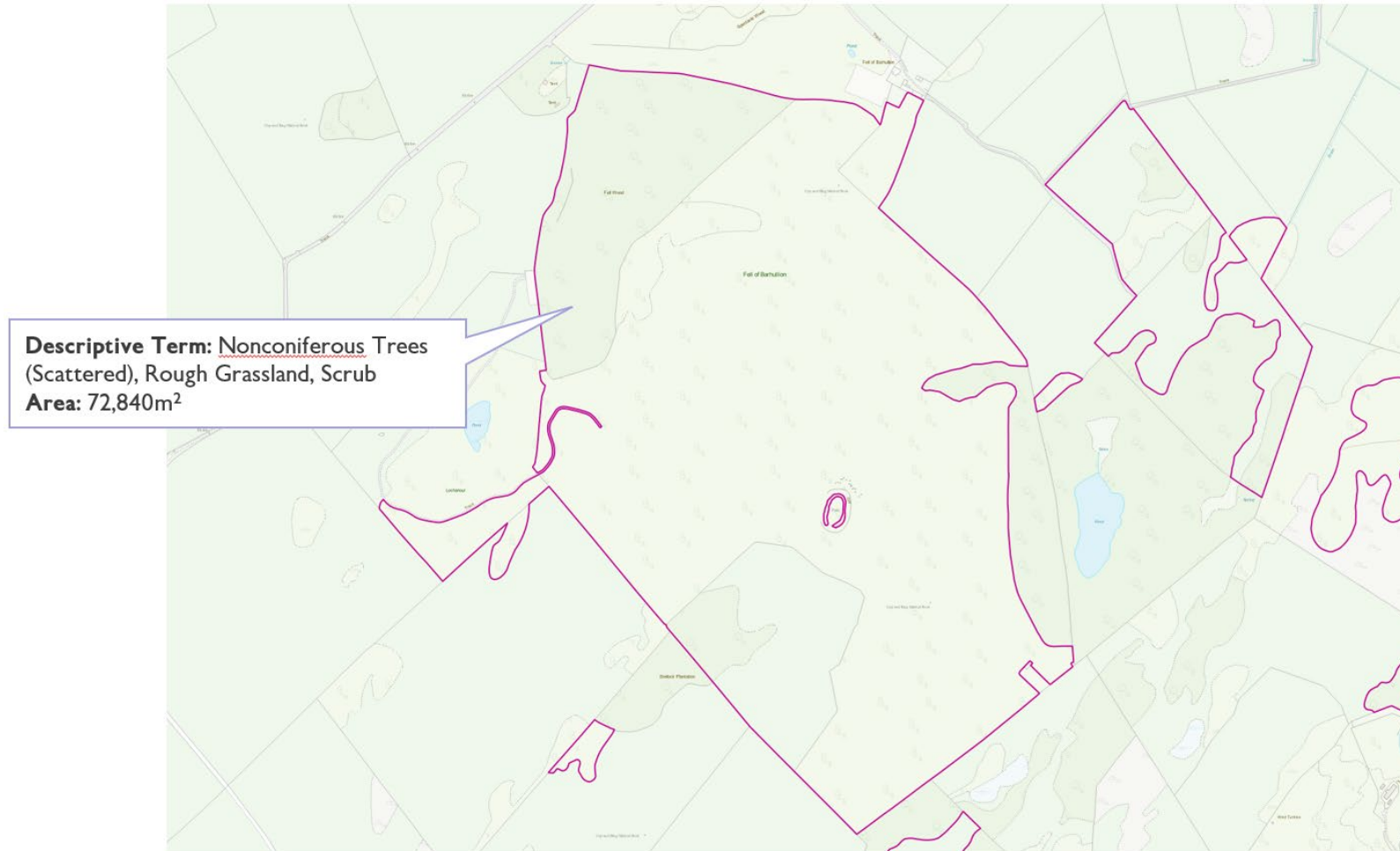
# Example three

Location of example three.

| 5km tile | OS grid reference | Coordinates (OSGB36) |
|----------|-------------------|----------------------|
| NX6550 | NX 68975 51146 | 268968, 551139 |

Table 6: TOIDs for example three.

| OSMM Topography Layer (August 2022) | OSMM Topography Layer (October 2022) |
|-------------------------------------|--------------------------------------|
| osgb1000000319079420 | osgb1000000319079420 |
|  | osgb5000005298106224 |

Source imagery of example area three for comparative purposes:

Data before the rural land cover specification refinement update (OSMM Topography Layer – August 2022):



Bell Hill

Angel Hill

Descriptive Term: Nonconiferous Trees (Scattered), Scrub
Area: 5174m²

27.1m

Data after the rural land cover specification refinement update (OSMM Topography Layer – October 2022):



Bell Hill

Descriptive Term: Nonconiferous Trees (Scattered), Scrub
Area: 4286m²

NEW Polygon

Angel Hill

6m

Descriptive Term: General Surface
Area: 898m²

27.1m