

THE CLWYD-POWYS ARCHAEOLOGICAL TRUST

Elan Valley (NE) Upland Survey, Powys

FIELD SURVEY

CPAT Report No 516

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Report for RCAHMW

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CONTENTS

SUMMARY

- 1 INTRODUCTION
- 2 GEOGRAPHICAL BACKGROUND
- 3 METHODOLOGY
- 4 RESULTS OF THE SURVEY
- 5 DISCUSSION OF SURVEY RESULTS
- 6 RECOMMENDATIONS FOR FURTHER WORK
- 7 ACKNOWLEDGEMENTS
- 8 SOURCES

SITE MAPS

SUMMARY

The following report considers the methodology and results of an archaeological survey carried out by the Clwyd-Powys Archaeological Trust (CPAT), under the auspices of the Royal Commission's (RCAHMW) Uplands Initiative in the second half of 2002 and the early months of 2003. The survey covered a mixed block of unenclosed upland and enclosed farmland, between 220mOD and 521m OD and situated on the western side of the River Wye, to the north of the town of Rhayader in Powys.

Fieldwork extended over an area of 13.7km² and a total of 287 sites were recorded, of which only 39 had existing records in either the regional Sites and Monuments Record administered by CPAT or in the National Monument Record maintained by RCAHMW. All the sites recognised were located using hand-held GPS equipment and recorded in a project database.

The majority of the evidence related to the agrarian utilisation of the area, both pastoral and arable, in the medieval and post-medieval periods. In places associated settlement was also recognised. Identifications include substantial evidence for the use of the unenclosed commons to provide peat for domestic fuel, and the trackways needed to transport it to the settlement sites.

Industrial sites were also encountered in the survey area, largely consisting of evidence of mining and quarrying. Although some larger scale workings were present, the vast majority of the features represent trial workings excavated in an attempt to determine the extent of potential lead deposits.

Only sparse traces of prehistoric activity were recorded in the survey area, despite such evidence being relatively plentiful on other ridges in the Elan Valley catchment area.

1 INTRODUCTION

- 1.1 This report presents the results of a survey of land which lies on the west side of the River Wye, to the north of Rhayader in Powys. The unenclosed portion of the area falls either within the Elan Estate owned by Welsh Water and independently administered by their subsidiary, Hamdden Ltd, or the adjoining, and privately owned, Cwmdeuddwr Common. The remainder of the area consists of enclosed agricultural land in private ownership. The survey area is defined in detail in Section 2, below.
- 1.2 The survey of this block of upland continues the work done in the Elan Valley area under the auspices of the Royal Commission's (RCAHMMW) Upland Initiative, and follows earlier work by the Clwyd-Powys Archaeological Trust (CPAT) in 1994 and Cambrian Archaeological Projects in 1999-2000. The survey was undertaken with a grant awarded by the Royal Commission at the end of July 2002 (Project Ref RCU 1/21/10).

2 GEOGRAPHICAL BACKGROUND

- 2.1 The survey area, now a part of Powys but formerly in the historic county of Radnorshire, is approximately triangular in shape and is situated on the west side of the River Wye, to the north of the town of Rhayader. At its south-eastern end the area lies entirely within Cwmdeuddwr Common, with the south-western boundary initially defined by the common boundary and then the top of the steep slope of Y Wenallt. Further to the north-west the boundary is defined by the minor road running directly from Rhayader to the village of Cwmystwyth (Ceredigion), up to the point where it crosses the stream known as Nant y Ffald, approximately one kilometre beyond Pont ar Elan. The boundary continues north-eastwards (upstream) along the line of the stream, then crosses the saddle beyond and runs down the slope to the south-west bank of Nant y Dernol, adjacent to Dernol Farm in the Wye valley, before following the line of this stream in the direction of the River Wye. The boundary generally follows the west bank of the Wye southwards, up to the point of its confluence with Nant y Sarn, east of Fergwm farm, then ascends the steep slope to return to the edge of Cwmdeuddwr Common.
- 2.2 The topography of the survey area consists of a broad central plateau whose edges are dissected by a number of small streams running north, east and south, all of which eventually join the River Wye. The plateau is surmounted by a group of local summits, the highest of which is Moelfryn at 521m OD, though the plateau itself rarely falls below 400m OD. On the side of the survey area which faces the Wye, the ground falls away extremely steeply to the valley floor at between 220m OD and 270m OD. It is a feature repeated, though to a lesser degree, on the western and southern sides where the valleys of the Nant y Ffald and Nant Gwynllyn define the edge of the survey area.
- 2.3 The main part of the area consists of unenclosed upland grazing which falls within the Elan Estate and the adjoining Cwmdeuddwr Common. But it also includes a significant portion of the enclosed grazing land on the west side of the Wye, between the farms of Pen-yr-ochr and Fergwm. The vegetation cover of the area displays a variety of species, often largely dependent on the topographical setting. The upper parts of the plateau and the summits are generally colonised by coarse grassland with varying amounts of rush infestation, but the heads of streams and occasional surface depressions are occupied by deeper peat deposits within which a mixture of tussock grass and moss form the dominant species. The valley slopes are generally steep and where deeper soils are present there is commonly some level of bracken colonisation. The remaining area consists of the enclosed farmlands in the main valley which has a typical grassland vegetation, reflecting some pasture improvement, but there is no discernible arable use at the present time. Some sections of farmland are occupied by indigenous woodland, but this forms a small percentage of the whole.
- 2.4 The underlying geology of the area belongs entirely to the Telychian Division of the Llandovery Series, which represents the earlier part of the Silurian period. The rock in the eastern part of the area is composed of mudstones and siltstones, while the western part is composed of greywackes, denoting sea-floor deposition (1994 British Geological Survey map). The soils of the area vary according to their topographical location with the upper

ground and summits being occupied by loamy upland soils with peaty surface horizons belonging to the Hafren and Wilcocks 2 Associations. In contrast, the adjoining steep slopes are occupied by well-drained fine loamy or silty soils of the Manod Association, while the valley floor of the River Wye has fine loamy and silty soils, which sometimes have a wet and peaty surface horizon, belonging to the Brickfield 1 Association (1983 Soil Survey of England and Wales map and legend).

3 METHODOLOGY

- 3.1 The preliminary phase that preceded the survey consisted of aerial photo mapping, carried out by staff of the RCAHMMW to facilitate and guide fieldwork on the ground, and this provided an initial view of the archaeological resource of the survey area. The sites which had been derived from the aerial photo mapping were visited in the field during the survey and those that were considered to be of an archaeological nature were appropriately recorded. A copy of the aerial photo mapping plot was also annotated to provide a brief record of the nature of those mapped features which were not recorded in this way.
- 3.2 Fieldwalking of the unenclosed ground was carried out by a two-person team in the well-established manner, by using transect walking techniques with a separation distance between the team members in the order of 30m to 50m, depending on the nature of the terrain and vegetation cover. However, the variable topography of the survey area occasionally demanded that transects were walked by maintaining a constant height in relation to the contours, rather than by the normal use of a compass bearing. Similar separation distances to those mentioned above were maintained when this method was adopted.
- 3.3 The above methods were used in surveying most of the unenclosed ground, but particular difficulties were encountered due to the steepness of the slopes on the west side of the Wye valley. It was possible to survey most of the slopes satisfactorily, but there were three zones of extremely steep, craggy ground which were considered to be too dangerous to examine. The areas referred to are known as Cerrig Gwalch, Lloftyddgleision, and the scarp that includes Cerrig Cochion and Graig Safn-y-coed. Where possible, these areas were viewed from a distance, though the excessive steepness of the ground, with vertical rock faces in many places, suggested strongly that they would have witnessed very little human activity in the past.
- 3.4 The survey area also included a significant portion of enclosed farmland and this was surveyed by a single fieldworker, in contrast to the more remote areas in which two-person working was undertaken to meet established safety procedures. The method of surveying the enclosed ground was adjusted to meet the requirements of a disparate layout of fields and farm holdings, but the overall emphasis on providing as complete a record as possible of the archaeological resource of the survey area was maintained throughout. The overall concept of a 30m to 50m separation between transects was used as a baseline for determining the lines which were walked in these enclosed grounds.
- 3.5 The recording of archaeological sites consisted of the compilation of a written description, which was augmented by photography and the preparation of a sketch plan where appropriate. The location of each site was determined by the use of a hand-held global positioning system (GPS) receiver, while the results of the aerial photo mapping were used to assist in the location of extensive linear sites such as trackways.
- 3.6 The field records were entered into a Foxpro database, using the Data Standard supplied by the RCAHMMW at the commencement of the project and the *Draft List of Preferred Indexing Terms for Monument Types in Wales*, (Version 1, dated August 2002). The database also included fields for eastings and northings, in order that the sites could be plotted on a map base using the Mapinfo GIS package.
- 3.7 The specifications for the analysis of the survey results included the requirement that the numbers of sites within different zones of elevation and the resulting density of sites be calculated. Altitudes were determined for each site and entered into the project database, in order that the numbers of sites within different zones could then be calculated. To determine

the density of sites, the total area of each zone was calculated by mapping the 50m contour lines, which were then used to draw polygons of the 50m elevation areas in the Mapinfo GIS package. The area of each polygon was readily calculated, providing a total area for each elevation block from which site density could then be determined.

- 3.8 Sites in the survey area have also been categorised according to their perceived importance. The categorisation is based on the system proposed in the *Design Manual for Roads and Bridges, Volume 11, Section 3, Part 2 (1993)*, which is now in common usage. The criteria for each category is given below.

Category A - Sites which are statutorily designated as being of national importance under the *Ancient Monuments and Archaeological Areas Act* of 1979, or those considered to merit such a designation.

Category B - Sites of regional importance; these are not of sufficient importance to merit a statutory designation but are nevertheless of particular relevance to the understanding of the archaeological resource of the region.

Category C - Sites of local importance; these are considered to be of lesser merit but are nevertheless useful in understanding the archaeological resource of the local area.

Category D - Damaged or minor sites which are of interest but which, due to their condition or nature, are unlikely to provide much significant information on the archaeological resource of the area.

Category E - Sites which could not properly be categorised. These sites would need to be assessed before they could be assigned to one of the categories given above.

4 RESULTS OF THE SURVEY

- 4.1 The total area that was surveyed during the project amounted to 13.7km², a larger area than that of 11km² defined in the original CPAT project proposal to RCAHMMW. This reflects the fact that some areas were inaccessible (see para 3.3. above) and also the unexpectedly easy walking on some parts of the plateau.
- 4.2 The total number of archaeological features recorded in the survey area amounted to 287 sites, which represents a site density of almost 21 sites per square kilometre. Altogether, some 39 sites (14% of the total) had already been recorded in either the regional Sites and Monuments Record or in the National Monument Record. The number of sites belonging to particular site types is given in the table (para 4.3), on the following page. Some amalgamation of equivalent or associated site types has been necessary in order to provide a useful overview. Site types which are perceived to be of natural origin or for which there is only a single record have been combined to form a single entry in the list, but are detailed in the gazetteer of sites (Appendix 1). The numbers of sites belonging to particular broad classes and periods are given in tables 4.4 and 4.5, respectively. Table 4.6 deals with the breakdown of sites into 50m-altitude zones, as described in paragraph 3.7, above.

4.3 *Number of sites belonging to different site types*

Barn, byre	8
Boundary stone/marker	21
Cairn/round barrow	4
Enclosure	4
Field boundary/system	47
Fold	4
Gully	2
House/farmstead	18
Long hut/longhouse	4
Mine/trial mine	36
Miscellaneous single sites/landforms	6
Mound	14
Peat cutting/stand	32
Pillow mound	2
Pipeline/leat	4
Platform	12
Quarry	17
Ridge and furrow	5
Shelter	3
Standing stone	2
Trackway	42

4.4 *Number of sites attributed to broad functional classes*

Agriculture and subsistence	121
Commercial	20
Defence	2
Domestic	24
Industrial	44
Monument (by form)	4
Religious, ritual and funerary	5
Transport	45
Unassigned	22

4.5 *Number of sites attributed to different periods*

Bronze Age	5
Medieval	14
Post-medieval	247
Unknown	21

4.6 *Site numbers and densities for each 50m increase in elevation*

Elevation (OD)	Area surveyed (km ²)	No of sites	Sites per km ²
201m-250m	1.01	23	22.8
251m-300m	1.60	31	19.4
301m-350m	1.33	53	39.8
351m-400m	1.57	40	25.5
401m-450m	3.16	70	22.2
451m-500m	4.60	61	13.3
501m-550m	0.47	9	19.1

- 4.7 The most widely represented group of site types encountered during the survey consists of a variety of boundaries and field systems, and forms 16% of the total. Other significant site types include trackways (15%), mine workings and trials (12%), and peat cuttings (turbaries) of various sizes (11%). The evidence for settlement is relatively sparse in this area, with houses and farms representing only 6% of the total site number, platforms 4%, and long huts/longhouses only 1%.
- 4.8 As might be expected given the nature of the survey area, sites which represent agrarian and subsistence activity form a high proportion (42%) of the total. It should also be noted that those sites which are classed as transport features (16% of the total) appear to be almost entirely a result of the need to gain access to Cwmdeuddwr Common to extract and transport peat for local use. The other main group of sites result from industrial activity, largely mining trials and small quarries, which form 15% of the total. Funerary and ritual monuments of prehistoric date are poorly represented with only five sites in total, forming 2% of the archaeological resource of the survey area. All of the sites which are classed as being commercial in nature (7% of the total) are represented solely by a group of boundary markers which define the land holding of the Elan Estate.
- 4.9 The breakdown of sites by period demonstrates a marked bias towards sites of post-medieval date, which amount to 86% of the total. The only other periods which have been identified on the basis of the surface remains are the medieval era (5% of sites) and the Bronze Age (2% of sites). No sites of any other period were encountered, though it should be stressed that some 7% of the recorded sites could not be ascribed to a particular period.
- 4.10 The density of sites in the different altitude zones, as defined in table 4.6, reveals some unexpected variations within a general decrease in density as altitude increases. The density of sites drops progressively from 39.8 sites/km² between 301m OD and 350m OD down to 13.3 sites/km² between 451m OD and 500m OD. The unexpected variations encountered occur at the upper and lower limits of altitude, where there are relatively low site densities between 201m OD and 250m OD (22.8 sites/km²) and more particularly between 251m OD and 300m OD (only 19.4 sites/km²). On the highest ground, which lies between 501m OD and 550m OD, there is an unexpected increase in site density of nearly six sites more per km² (to 19.1 sites/km²), in relation to the adjacent zone.
- 4.11 The results of the categorisation of sites by importance (see para 3.8) show that the archaeological resource of the survey area is generally considered to be of minor importance with 56% of sites belonging to Category D, though Category C sites (of local importance) are well-represented with 28% of the total. Sites of national (Category A) and regional (Category B) importance are poorly represented, with only 5% and 8% respectively, of the sites in the survey area belonging to these categories. At 3% of the total, only a very small proportion of the sites in the area remain to be placed in appropriate categories.
- 4.13 The most important new sites revealed by the survey consist of settlement sites of medieval or post-medieval date sited on the common (see also para 5.4, below). The sites on Moelfryn (NPRN 86936) and near Cerrig Gwalch (NPRN 269394), and their associated field systems, provide an insight into the use of the common during this period and represent a valuable element in the understanding of the land-use of the area. The appearance of the Moelfryn field system suggests that arable cultivation was being conducted, but that of Cerrig Gwalch is rather less certain, for it is positioned on a steep slope and engulfed by bracken.

5 DISCUSSION OF SURVEY RESULTS

- 5.1 The results of the initial aerial photo mapping exercise were utilised as fully as possible during the progress of the survey, particularly where extensive linear sites were encountered. Inevitably perhaps, some features were mapped which coincided on the ground with relatively recent drainage features in the enclosed land and were considered, at least for the present, to be of negligible archaeological interest or were no longer evident as a result of subsequent land improvement. In the areas of unenclosed land, which constituted the major part of the survey area, the recognition of extensive linear features was generally extremely good. More specifically, the mapping of trackways was invaluable and saved the

fieldworkers considerable time and effort, even where the modern utilisation of the plateau for leisure driving had resulted in the emergence of confusing networks of new tracks which were more recent than the available aerial photography. However, some of the peat cuttings recorded from aerial photographs were found during ground examination to reflect areas of boggy ground which preserved no obvious visible evidence of peat extraction. Overall, the interpretation of the mapped sites was sufficiently accurate to enable the sites to be recognised in the field and most of the incorrect interpretations (e.g. mining trials recorded as quarries as well as the suggested turbaries) related to features that could only be correctly interpreted in the field. It is of no surprise that many of the sites of small surface area, which were situated on the higher ground, were not identified by the aerial photo mapping exercise.

- 5.2 The archaeological resource of the survey area was predominantly related to agrarian activity and associated settlement. The main site types which were recorded consisted of various types of boundary feature, predominantly redundant field boundaries in the enclosed land and occasional discrete field systems on the unenclosed common that were focused on farming settlements. There were a number of redundant boundaries on the common, which demonstrate past encroachment, but of particular interest was an extensive linear bank and ditch (NPRN 269439) which runs along the crest of the ridge between Graig Safn-y-coed and Cefn Bach for a distance of almost 4km. This may reflect a large-scale attempt to enclose part of the Cwmdeuddwr Common during the post-medieval centuries. There is one further boundary in the survey area, that which defines the division between the Elan Estate and Cwmdeuddwr Common. This boundary follows the watershed between the Wye valley and the Elan valley and would have been imposed to ensure that the catchment for the Elan Valley reservoirs was under the control of the operators (now the Elan Estate). Within the survey area, this boundary is defined by at least 20 concrete posts, although some of these are now recumbent and not always readily apparent.
- 5.3 Most of the evidence for the agrarian use of the survey area is pastoral in its nature, as might be expected given its location and altitude, and the nature of the soils. Nevertheless, some small areas of ridged cultivation are present on the unenclosed ground, showing that there has been limited arable use of the common in the past. In two cases the ridging is associated with settlements which encroach on the common (see para 5.4, below). All of the visible ridging is narrow, being a maximum of 4m in width and is even as little as 1.5m wide at the south-east end of the common, suggesting that much of it is probably of post-medieval date. One further form of land-use is implied by two small earthworks considered to be pillow mounds that constituted a small artificial rabbit warren, on the saddle between Esgair Dderw and Penrhiw-wen.
- 5.4 The settlement evidence in the survey area consists primarily of farms, houses and farm buildings located at lower levels in the valley of the Wye. Many of these sites are still inhabited, though there is evidence of a group of abandoned settlements in the area to the west of Ty-Mawr farm. Most of these sites are thought to be of post-medieval date, but the form of one suggests that it may have had a medieval origin. In addition to these obvious farmsteads, some evidence for settlement of medieval and post-medieval date was identified on the common and around its edges, although these are relatively few and certainly do not compare to the densities found on the commons of central and western Radnorshire. Sites of this type, where encountered, were often accompanied by a field system (e.g. Llest Pen-rhiw, see NPRNs 143141, 81344, 269429), which demonstrates that we are dealing with encroachments on the common that had been put to agricultural use. A number of small platforms, none of them linked in any way to field systems or boundaries, were also recorded on the unenclosed land. The most likely interpretation of these sites seems to be that they were the sites of small huts or shelters, perhaps occupied on a seasonal basis.
- 5.5 As noted above some of the settlement may have had a medieval origin. Williams (1990, 57) provides some potential corroboration, as he reveals that much of the survey area appears to have fallen within the boundary of Cwmdeuddwr Grange that belonged to the Cistercian abbey of Strata Florida. Nannerth, on the eastern side of the survey area, around which medieval settlement activity seems to be focused, is recorded by Williams as a subsidiary centre for the grange. Perhaps the settlement sites are also related to those trackways (NPRNs 142265 and 269434), on the higher ground, which local reputation

- associates with arterial routeways between the Cistercian Abbeys of Strata Florida and Cwmhir.
- 5.6 One facet related to settlement in the locality was the extraction of peat for domestic fuel from the higher lands on the ridge. The peat cuttings themselves are generally shallow, little more than 0.3m deep on average, but are quite extensive in overall area. The obvious relationship which is apparent between the peat cuttings, those trackways which ascend the steep slopes on the west side of the Wye valley, and the settlements close to the floor of the valley, probably suggest that each farm had its own turbary which was utilised over many years. There are some areas of deeper peat, but the most obvious extraction appears to have removed the thin surface peat horizon from soil belonging to the Hafren and Wilcocks 2 soil Associations.
 - 5.7 There is also significant evidence of industrial activity on the ridge. Some of this takes the form of stone quarrying, possibly including roofing material, but a larger number of industrial sites are related to mining. While a few larger workings are apparent, a far greater number of the workings are simple trials. A dispersed, but morphologically related, group of trials consisting of linear gullies with flanking banks of spoil (e.g. NPRN 269472 and similar sites in the vicinity) were recorded above the common boundary on the slopes overlooking the River Wye. These appear to define one phase of contemporaneous activity relating to the search for workable mineral deposits, but there are a variety of other workings and potentially some of the sites recorded as mounds which may well represent further trials of the same type. Some pyromorphite was recognised in a spoil tip for one of the Esgair Dderw workings (NPRN 269307) and this signals that lead was the primary mineral which was being searched for and mined.
 - 5.8 In addition to the more common site types considered here, there are other features in the survey area that merit some discussion, despite their low numbers. As already noted funerary and ritual monuments appear to be relatively under-represented in this part of the Elan Valley region, constituting only 2% of the total number of sites - no specific explanation can be advanced to account for their absence. Certainly there is no lack of favourable locations for sites of this type, but it may be that the contemporary settlements were not particularly prevalent in the vicinity of the survey area.
 - 5.9 Of the other site types present in the area, leats for domestic, industrial or agricultural water supply are present though sparse, probably due to the large number of small streams which would have provided a convenient water supply. A more substantial pipeline which tapped the water of the Nant y Sarn stream above the waterfall at Nannerth-Ffrwd is believed locally to have been constructed to provide some of the water for the town of Rhayader. One anomalous group of earthworks (NPRN 269379) was recorded adjacent to the Rhayader-Cwmystwyth road on the north-west side of Penrhiw-wen, the main part of which consists of a meandering gully linking four hollows which are roughly aligned. Some nearby circular mounds might also be associated. The appearance of this site and its proximity to the road suggests that it belongs to the post-medieval period, but its origins and function remain, at least for the present, an intriguing mystery.
 - 5.10 One of the interesting anomalies in the archaeological resource of the survey area, resulting from the field identifications, is the difference in site densities within the various altitude zones depicted in table 4.6 and described in paragraph 4.10. The general decrease in site density between 301m OD and 500m OD is only to be expected, as the identified sites become progressively more distant from areas of settlement as the altitude increases, but it is the upper and lower altitudes which merit more scrutiny. The increase in density to 19.1 sites/km² between 501m OD and 550m OD can be readily explained by the presence of boundary markers crossing the crest of the ridge which forms the boundary between the Elan Estate and the Cwmdeuddwr Common, and it is also significant that this area is only 0.47km² in extent. It is rather more difficult to ascertain the reason for low site density for those areas which fall within the 201m OD to 250m OD and the 251m OD to 300m OD zones. The only likely possible explanation is related to the form and nature of the valley of the River Wye, which is steep-sided with a relatively flat (and wet) valley floor. It seems that the lowest areas (201m OD to 250m OD) are generally too wet to permit much in the way of settlement and activity, while the zone from 251m OD to 300m OD also includes some of the steep valley slopes, where there is only a restricted zone which is suitable for settlement.

- 5.11 When compared with similar interfluvial ridges in the Elan Valley region, the survey area is not particularly rich, and in two activity areas reveals a singular lack of physical evidence, namely medieval/post-medieval settlement and prehistoric funerary monuments. The archaeological resource of the survey area is generally of minor importance with over half of the recorded sites given a Category D rating, while more than half of the remainder are considered to be of only local importance (Category C). Only some 5% of the sites in the survey area are believed to be of national importance and most of these are already subject to statutory designations as scheduled ancient monuments or listed buildings.

6 RECOMMENDATIONS FOR FURTHER WORK

- 6.1 The RCAHMS project specification carries a requirement to list those sites which are in need of further archaeological input. The following sites have been identified as meriting detailed survey in order to provide a sufficient record of their nature and existing condition, and also to provide a basis for their addition to the Ordnance Survey mapping .
- i) NPRN 269394 - Cerrig Gwalch longhouse
 - ii) NPRNs 86936 and 269441 - Moelfryn long hut I and enclosures
 - iii) NPRN 269443 - Moelfryn long hut II
 - iv) NPRNs 269454 and 269455 - Lan Wen platform and field system
- 6.2 The sparse nature of the archaeological resource of the survey area suggests that there is little imperative to carry out pollen analyses, as there is a lack of obvious direct relationships between sites of archaeological importance and peat deposits of sufficient depth. However, suitable locations for sampling to determine general environmental trends are present around the head of the Nant y Sarn stream.

7 ACKNOWLEDGEMENTS

- 7.1 The writer would like to thank his colleagues at CPAT, Mr R Silvester, Ms W Owen and Ms F Johnson for their assistance with the survey.
- 7.2 The writer would also like to thank the landowners of the survey area for permission to carry out the survey, in particular Mr D Lewis, the owner of Cwmdeuddwr Common; the chairman of the common graziers, Mr G Lewis; and the Elan Estate.

8 SOURCES

8.1 References

Williams, D H, 1990, *Atlas of Cistercian Lands in Wales*, Cardiff: UWP.

8.2 Cartographic sources

1820-21 Ordnance Surveyors drawing No 311 (1:31,680)

c.1840 Tithe map of Llansantffraid Cwmdeuddwr

1890 Ordnance Survey first edition 1:10,560 map (Radnorshire 7SW)

1890 Ordnance Survey first edition 1:10,560 map (Radnorshire 14NE)

1890 Ordnance Survey first edition 1:10,560 map (Radnorshire 14SE)

1891 Ordnance Survey first edition 1:10,560 map (Radnorshire 7SE)

1891 Ordnance Survey first edition 1:10,560 map (Radnorshire 14NW)

1891 Ordnance Survey first edition 1:10,560 map (Radnorshire 15NW)

1891 Ordnance Survey first edition 1:10,560 map (Radnorshire 15SW)

1983 Soil Survey of England and Wales map and legend (Sheet 2 - Wales)

1994 British Geological Survey map of the Rocks of Wales (Solid edition)

APPENDIX 1

PROJECT DESIGN

1 Project Name

ELAN VALLEY, POWYS: RAPID IDENTIFICATION SURVEY

2 Summary of financial request to RCAHWMW under the Uplands Initiative

Total Request = £6339

3 Proposed Upland Survey Programme

- 3.1 This application covers a programme of work in central Powys around the Elan Valley reservoirs. The Elan Valley area is designated as HL 55 and is included in the recently published second volume of the *Register of Landscapes of Special Historic Interest in Wales* (Cadw 2001).
- 4.2 The uplands in what was south-western Radnorshire between the upper reaches of the River Wye near Rhayader and the Ceredigion border form the catchment area for the five reservoirs that make up the Elan Valley system. A landscape of flattish plateaux and steep-sided valleys, the region was examined in CPAT's preliminary survey in 1993/94 when a transect south of the reservoirs and outside the designated zone resulted in the identification of a rich collection of prehistoric sites, including settlement sites which are a rarity in mid Wales, as well as medieval and post-medieval features. Recent survey by Dr R Skeates at the eastern end of Abergwesyn Common which there runs up to the Elan Estate boundary has also reportedly revealed extensive traces of past human activity.
- 3.3 The uplands around the reservoirs are owned by Welsh Water and administered by their subsidiary, Hamdden Ltd and, with the exception of the land around Allt Goch, all of the land covered by this proposal is within their holding. The Management Plan for the Elan Estate (1994) recognises the importance of the archaeological resource and the historic landscape and contains policies to augment the archaeological record, to prevent damage to that resource and to introduce specific management plans where necessary. There is thus the opportunity for a clear partnership with Welsh Water to ensure the preservation of the archaeological resource.
- 3.4 A total fieldwork coverage of 11.0km² is anticipated, and the boundaries of this are depicted approximately on the accompanying plan.
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4 Methodology

- 4.1 In advance of any fieldwork, the regional Sites and Monuments Record, the more readily available aerial photography, and the earliest large-scale edition of the Ordnance Survey map will be consulted, and data will be extracted to a project database. The pro-forma sheets currently used for recording will be assessed to ensure that they conform to core END standards. Landowning details will be sought, and access to the fieldwork area negotiated.
- 4.2 Fieldwork methodology will follow that developed by CPAT in comparable upland surveys over the last twelve years, namely uniform transect walking by a minimum of two people, usually at 30m intervals, with rapid recording of all relevant archaeology and no discrimination by period or type. Where the terrain dictates, as in bog areas or steep valley faces, the transects may be wider. GPS technology will be used where appropriate. Field

coverage is estimated at the average rate of 0.3km²-0.35km² per man day, based on figures gauged over many years

- 4.3 Vertical aerial photography may be used for locational purposes where new sites are encountered. Sites will be categorised according to the system proposed in the *Design Manual for Roads and Bridges Volume 11 Section 3 Part 2 (1993)*, and now in common usage in a modified form for development assessments. All sites will be provided with NPRNs.
- 4.4 Data from the survey will be added to the project database which will be ordered using the Foxpro programme, and compiled in general accordance with END glossaries and fields. New information will be transferred from the aerial photography, assuming its availability, to a computerised plot of the project area.
- 4.5 A report will be prepared following the conventional formats adopted by CPAT in past years, and also conforming to section 3.9 of the Royal Commission's Form AB 12.

5 Products

- 5.1 The products which the project will generate and which will be passed to RCAHMW are:

- i) a written report of the standard form produced by CPAT for all its upland surveys and to include summary tables
- ii) a computerised database
- iii) digitised site data if these have been created during the course of the project
- iv) black and white and/or colour photography taken if appropriate during the course of the project, in the form of negatives, contacts and prints or as digital images
- v) a list of sites recommended for scheduling.
- vi) recommendations for further detailed survey
- vii) recommendations regarding sites suitable for pollen analysis
- viii) recommendations regarding sites suitable for surveying on to OS maps

6 Supervision and staffing

- 6.1 The project will be supervised by Bob Silvester, BA, MIFA, Deputy Director and Head of Field Services (HFS) at CPAT, with input from Project Assistants (PA), including Richard Hankinson (RH) and Glyn Owen (GO). All the CPAT staff who are likely to be involved in the project have had considerable experience of upland fieldwork, having been involved intermittently in surveys for Cadw, RCAHMW, CCW, and the former Clwyd County Council as well as for private developers over the last thirteen years. All the individuals named above have had considerable expertise in synthesising data and preparing reports to the high standards that CPAT employs.

7 Proposed timetable

Phase 1

Period: September-December 2002

Staffing: PA1 2 days pre-survey organisation

PA1 8 days field survey

PA2 8 days field survey

PA1 5 days databasing/digitising/archive work

Anticipated coverage: 6km²

Suggested Performance Indicator Assessment by RCAHMMW: first week in January 2003

Phase 2

Period: January-March 2003

Staffing: HFS 1 days field survey
 HFS 1 day report preparation
 PA1 7 days field survey
 PA2 7 days field survey
 PA1 4 days databasing/digitising/archive work
 PA1 4 days report preparation
 HFS 1 day attendance at Uplands Forum
 PA1 1 day field visit with Cadw's IAM

Anticipated coverage: 5km²

Suggested Performance Indicator Assessment by RCAHMMW: first week in April 2003

8 Cost estimates

i) Direct Costs

Salaries

HFS	3 days @ pt42	494	
PA1	31 days @ pt21	2730	
PA2	15 days @ pt17	1020	4244

On-costs

Car hire	£32 x 18	576	
Fuel/oil	16 days @ 98 miles x 10p	147	
Fuel/oil	2 days @ 118 miles x 10p	24	
Office consumables		20	
Photographic consumables		50	
Copying	10		827

ii) Overhead Costs

Admin costs @ 25%	1268
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Total CPAT request	£6339
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9 Proposal submitted by:

R.J. Silvester, Deputy Director, CPAT
 19 January 2002

Appendix 2

Archaeological Sites in the Elan Valley (NE) Survey Area (by NPRN)

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
30592	SN91377362	CWM-BYR BARN	BARN	345
81148	SN91417360	CWM-BYR	FARMHOUSE	345
81202	SN93947073	FERGWM, HOUSE	HOUSE	240
81344	SN93147148	LLUEST PEN-RHIW, FIELD SYSTEM I	FIELD SYSTEM	410
81414	SN94757158	NANNERTH-FAWR	FARMSTEAD	270
81416	SN94207137	NANNERTH-GANOL	HOUSE	255
81515	SN92857326	SAFN-Y-COED, FARMSTEAD	FARMSTEAD	245
81731	SN93867128	NANNERTH-FFRWD, FARMSTEAD	FARMSTEAD	235
86936	SN93917193	MOELFRYN, LONG HUT I	LONG HUT	475
97643	SN93937069	FERGWM, BARN	BARN	245
97814	SN94247136	NANNERTH GANOL, BARN	BARN	250
97815	SN94247138	NANNERTH GANOL, BYRE	BYRE	255
98090	SN93877129	NANNERTH-FFRWD, BARN	BARN	235
98091	SN93867128	NANNERTH-FFRWD, FARMHOUSE	HOUSE	235
140790	SN94306988	MAEN SERTH ESGAIR DDERW, STONE	STANDING STONE	460
140791	SN93646996	CLAP YR ARIAN, CAIRN I	ROUND BARROW (CAIRN)	450
140794	SN93656992	CLAP YR ARIAN, CAIRN II	ROUND BARROW	445
140822	SN92577057	MAENGWYNGWEDDW, STONE	STANDING STONE ?	480
142265	SN92757040	PENRHIW-WEN, TRACKWAY I	TRACKWAY	457

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
143138	SN90187256	NANT YR YCH, HUT	SHELTER	365
143139	SN91147161	SARN GEUFRON, PLATFORM	PLATFORM	435
143141	SN93097147	LLUEST PEN RHIW, HOUSE	HOUSE	410
143143	SN92257278	CWM BEDW, HOUSE	HOUSE	328
143439	SN90067209	ABER HENLLAN, PLATFORM	NON ANTIQUITY	343
143440	SN89967199	ABER HENLLAN, SHEEPFOLD	SHEEPFOLD ?	328
143449	SN89947229	ABER HENLLAN, LONGHOUSE	HOUSE	335
143526	SN93656995	CLAP YR ARIAN, CAIRN III	SPOIL HEAP ?	450
152372	SN94406980	CWM BACH, MINE (POST MEDIEVAL)	MINE (LEAD)	450
152373	SN94406980	CWM BACH, MINE (MODERN)	MINE (LEAD)	450
160888	SN91237172	MOEL GEUFRON, SHEEPFOLD	SHEEP FOLD	445
163442	SN94237137	NANNERTH GANOL, HOUSE	HOUSE	255
165809	SN93857129	NANNERTH-FFRWD, FARMHOUSE	HOUSE	235
165813	SN91187156	SARN GEUFRON, MILESTONE	MILESTONE	420
169549	SN94406974	CWM BACH MINE, WORKING	MINE (LEAD)	440
170550	SN90177255	NANT YR YCH, HOLLOW	SPRING	365
170969	SN944709	MILL	MILL (CORN)	220
269301	SN94466978	ESGAIR DDERW, QUARRY I	QUARRY	450
269302	SN94916953	Y WENNALLT, QUARRY	QUARRY	415
269303	SN95346917	LLAWR DDERW, MOUND I	MOUND	345

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269304	SN95346912	LLAWR DDERW, PLATFORM I	PLATFORM	345
269305	SN95386908	LLAWR DDERW, PLATFORM II	PLATFORM	350
269306	SN94396977	ESGAIR DDERW, QUARRY II	QUARRY	445
269307	SN94596985	ESGAIR DDERW, SHAFT	MINE SHAFT	450
269308	SN95106938	Y WENNALLT, MOUND I	MOUND	385
269309	SN95166937	Y WENNALLT, MOUND II	MOUND	380
269310	SN95226938	LLAWR DDERW, MOUND II	MOUND	375
269311	SN95266925	LLAWR DDERW, MOUND III	MOUND	350
269312	SN95336921	LLAWR DDERW, MOUND IV	MOUND	345
269313	SN95366917	LLAWR DDERW, MOUND V	MOUND	345
269314	SN95366916	LLAWR DDERW, MOUND VI	MOUND	345
269315	SN95416911	LLAWR DDERW, PLATFORM III	PLATFORM	350
269316	SN91297403	PEN-YR-OCHR, BOUNDARY I	FIELD BOUNDARY	355
269317	SN91337408	PEN-YR-OCHR, TRACKWAY	TRACKWAY	340
269318	SN91777418	PEN-YR-OCHR, BOUNDARY II	FIELD BOUNDARY	260
269319	SN93906973	ESGAIR DDERW, MINING TRIAL I	TRIAL MINE	400
269320	SN93926977	ESGAIR DDERW, MINING TRIAL II	TRIAL MINE	420
269321	SN93956973	ESGAIR DDERW, MOUND	MOUND	410
269322	SN94216974	ESGAIR DDERW, MINING TRIAL III	TRIAL MINE	430
269323	SN93956993	ESGAIR DDERW, MINING TRIAL IV	TRIAL MINE	435

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269324	SN93966999	ESGAIR DDERW, MINING TRIAL V	TRIAL MINE	430
269325	SN93977004	ESGAIR DDERW, MINING TRIAL VI	TRIAL MINE	420
269326	SN93987011	FERGWM, TRACKWAY I	TRACKWAY	395
269327	SN93897002	ESGAIR DDERW, PILLOW MOUND I	PILLOW MOUND	430
269328	SN93877001	ESGAIR DDERW, PILLOW MOUND II	PILLOW MOUND ?	435
269329	SN93587002	CERRIG GWALCH, PEAT CUTTING I	PEAT CUTTING	455
269330	SN93457051	CERRIG GWALCH, TRACKWAY	TRACKWAY	485
269331	SN93467031	CERRIG GWALCH, PEAT CUTTING II	PEAT CUTTING	490
269332	SN91047187	MOEL GEUFRON, PEAT CUTTING	PEAT CUTTING	495
269333	SN90837259	SYCHNENTYDD, MOUND	MOUND	485
269334	SN90767228	SYCHNENTYDD, PEAT CUTTING I	PEAT CUTTING	505
269335	SN90837228	SYCHNENTYDD, PEAT CUTTING II	PEAT CUTTING	505
269336	SN90917238	SYCHNENTYDD, BOUNDARY MARKER I	BOUNDARY MARKER	505
269337	SN90967222	SYCHNENTYDD, BOUNDARY MARKER II	BOUNDARY MARKER	495
269338	SN90967216	SYCHNENTYDD, BOUNDARY MARKER III	BOUNDARY MARKER	495
269339	SN90957213	SYCHNENTYDD, BOUNDARY MARKER IV	BOUNDARY MARKER	495
269340	SN94247145	NANNERTH GANOL, QUARRY	QUARRY	270
269341	SN93917132	NANNERTH GANOL, TRACKWAY	TRACKWAY	240
269342	SN94297126	NANNERTH GANOL, MOUND	MOUND	235
269343	SN93947120	NANNERTH-FFRWD, BANK AND DITCH	FIELD BOUNDARY	230

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269344	SN93887095	FERGWM, PEAT CUTTING	PEAT CUTTING	225
269345	SN93817080	FERGWM, BANK I	FIELD BOUNDARY	240
269346	SN94107061	FERGWM, QUARRY	QUARRY	260
269347	SN94047053	FERGWM, TRACKWAY II	TRACKWAY	275
269348	SN93607132	NANNERTH-FFRWD, ENCLOSURE	ENCLOSURE	245
269349	SN92187321	TY MAWR, TRACKWAY I	TRACKWAY	330
269350	SN91927345	TY MAWR, TRACKWAY II	TRACKWAY	310
269351	SN92087300	WEN DY ?, HOUSE	HOUSE	380
269352	SN92097293	NANT TY-MAWR, BANK I	FIELD BOUNDARY	380
269353	SN92087287	NANT TY-MAWR, BANK II	FIELD BOUNDARY	380
269354	SN92127273	NANT TY-MAWR, TRACKWAY	TRACKWAY	370
269355	SN92157332	TY MAWR, PLATFORM	PLATFORM	305
269356	SN92177336	TY MAWR, BARN	BARN	290
269357	SN92427316	TY MAWR, BANK	FIELD BOUNDARY	275
269358	SN92337316	FAENOL TY ?, HOUSE	HOUSE	285
269359	SN92377281	NANT TY-MAWR, BANK III	FIELD BOUNDARY	315
269360	SN92337271	NANT TY-MAWR, BANK IV	FIELD BOUNDARY	340
269361	SN92527318	TY MAWR, FARMSTEAD	FARMSTEAD	260
269362	SN92347054	NANT GWYNLLYN, TRACKWAY	TRACKWAY	465
269363	SN92417048	NANT GWYNLLYN, MINING TRIAL I	TRIAL MINE ?	460

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269364	SN92547031	NANT GWYNLLYN, PEAT CUTTING I	PEAT CUTTING	450
269365	SN93147052	PENRHIW-WEN, TRACKWAY II	TRACKWAY	485
269366	SN93287002	NANT GWYNLLYN, PEAT CUTTING II	PEAT CUTTING	445
269367	SN92967022	PENRHIW-WEN, GULLY I	GULLY ?	460
269368	SN92937033	PENRHIW-WEN, GULLY II	GULLY	465
269369	SN92157064	PENRHIW-WEN, QUARRY I	QUARRY	475
269370	SN92107072	PENRHIW-WEN, QUARRY II	QUARRY	480
269371	SN91507163	SARN GEUFRON, TRACKWAY	TRACKWAY	435
269372	SN91497163	SARN GEUFRON, PEAT CUTTING	PEAT CUTTING	425
269373	SN92007164	Y GORS, PEAT CUTTING	PEAT CUTTING	435
269374	SN92047152	LLETHR DU, PLATFORM I	PLATFORM	440
269375	SN91867156	Y GORS, BOUNDARY STONE	BOUNDARY STONE ?	445
269376	SN91907151	LLETHR DU, PEAT CUTTING	PEAT CUTTING	450
269377	SN91937148	LLETHR DU, PEAT STAND	PEAT STAND ?	455
269378	SN91997144	LLETHR DU, PLATFORM II	PLATFORM	450
269379	SN91917121	PENRHIW-WEN, EARTHWORKS	EARTHWORKS	475
269380	SN92177134	LLETHR DU, BANK	BANK	445
269381	SN92237161	RHYD GARREG-LWYD, TRACKWAY	TRACKWAY	425
269382	SN92397155	RHYD GARREG-LWYD, SHELTER WALL	WALL	415
269383	SN92407144	LLETHR DU, SHELTER WALL	WALL	420

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269384	SN92687137	NANT Y SARN, PLATFORM	PLATFORM	400
269385	SN93717113	NANNERTH-FFRWD, BOUNDARY	FIELD BOUNDARY	250
269386	SN93587128	NANNERTH-FFRWD, WALL	WALL	245
269387	SN93437128	NANT Y SARN, WATER SUPPLY	PIPELINE	300
269388	SN93637114	NANNERTH-FFRWD, BANK	FIELD BOUNDARY ?	285
269389	SN93777079	FERGWM, WALL	WALL	255
269390	SN93817073	FERGWM, BANK II	FIELD BOUNDARY	250
269391	SN93897039	CERRIG GWALCH, BOUNDARY BANK	FIELD BOUNDARY	325
269392	SN93827011	CERRIG GWALCH, TRACKWAY	TRACKWAY	425
269393	SN93787016	CERRIG GWALCH, SHEEPFOLD	SHEEPFOLD	420
269394	SN93787016	CERRIG GWALCH, LONGHOUSE	LONGHOUSE	420
269395	SN93777018	CERRIG GWALCH, FIELD SYSTEM	FIELD SYSTEM	420
269396	SN93757020	CERRIG GWALCH, PLATFORM	PLATFORM ?	420
269397	SN92087098	PENRHIW-WEN, PEAT CUTTING I	PEAT CUTTING	480
269398	SN92287110	PENRHIW-WEN, PEAT CUTTING II	PEAT CUTTING	475
269399	SN92347102	PENRHIW-WEN, PEAT CUTTING III	PEAT CUTTING	495
269400	SN92697096	PENRHIW-WEN, PEAT CUTTING IV	PEAT CUTTING	495
269401	SN92447090	PENRHIW-WEN, QUARRY III	QUARRY	505
269402	SN90977228	SYCHNENTYDD, BOUNDARY MARKER V	BOUNDARY MARKER	495
269403	SN91457179	MOEL GEUFRON, BOUNDARY MARKER I	BOUNDARY MARKER	440

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269404	SN91467175	MOEL GEUFRON, BOUNDARY MARKER II	BOUNDARY MARKER	435
269405	SN91337229	Y GORS, PEAT CUTTING I	PEAT CUTTING	470
269406	SN91707231	Y GORS, PEAT CUTTING II	PEAT CUTTING	470
269407	SN90197188	PONT AR ELAN, TRACKWAY	TRACKWAY	345
269408	SN90707275	NANT YR YCH, PLATFORM I	PLATFORM ?	450
269409	SN90657273	NANT YR YCH, PLATFORM II	PLATFORM	445
269410	SN90377256	NANT YR YCH, TRACKWAY	TRACKWAY	395
269411	SN89947220	ABERHENLLAN, FIELD SYSTEM	FIELD SYSTEM	340
269412	SN92387158	RHYD GARREG-LWYD, LONGHOUSE	LONGHOUSE	415
269413	SN92587154	NANT Y SARN, SHELTER	SHELTER	415
269414	SN92377158	RHYD GARREG-LWYD, SHEEPFOLD	SHEEPFOLD	415
269415	SN95047185	COED NANNERTH-FAWR, FIELD BOUNDARY I	FIELD BOUNDARY	245
269416	SN94767214	COED NANNERTH-FAWR, FIELD BOUNDARY II	FIELD BOUNDARY	270
269417	SN94757228	BWLCH-GWYN-ISAF BRIDGE	BRIDGE	225
269418	SN93847268	GRAIG DDU, FIELD BOUNDARY I	FIELD BOUNDARY	240
269419	SN94517223	GRAIG DDU, TRACKWAY I	TRACKWAY	280
269420	SN94667169	COED NANNERTH-FAWR, QUARRY	QUARRY	325
269421	SN93687285	SAFN-Y-COED, BARN	BARN	250
269422	SN94627207	GRAIG DDU, TRACKWAY II	TRACKWAY	320
269423	SN94837179	COED NANNERTH-FAWR, TRACKWAY I	TRACKWAY	320

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269424	SN94807176	COED NANNERTH-FAWR, BANK I	BANK	330
269425	SN94717170	COED NANNERTH-FAWR, TRACKWAY II	TRACKWAY	325
269426	SN94577167	NANNERTH-FAWR, FIELD BOUNDARY	FIELD BOUNDARY	320
269427	SN94587162	NANNERTH-FAWR, TRACKWAY I	TRACKWAY	300
269428	SN94497163	NANNERTH-FAWR, TRACKWAY II	TRACKWAY	310
269429	SN93127160	LLUEST PEN-RHIW, FIELD SYSTEM II	FIELD SYSTEM	430
269430	SN93237157	LLUEST PEN-RHIW, RIDGE AND FURROW	RIDGE AND FURROW	420
269431	SN93037164	LLUEST PEN-RHIW, LEAT	LEAT	440
269432	SN92807170	CEFN NANNERTH, FOLD	FOLD	445
269433	SN93417141	LLUEST PEN-RHIW, TRACKWAY	TRACKWAY	335
269434	SN92927160	MOELFRYN, TRACKWAY I	TRACKWAY	430
269435	SN92767222	CEFN NANNERTH, PEAT CUTTING I	PEAT CUTTING	465
269436	SN92647213	CEFN NANNERTH, PEAT CUTTING II	PEAT CUTTING	470
269437	SN92417213	CEFN NANNERTH, BANK AND DITCH I	BANK AND DITCH	465
269438	SN92147224	CEFN NANNERTH, PEAT CUTTING III	PEAT CUTTING	465
269439	SN92207227	CEFN NANNERTH, BANK AND DITCH II	BANK AND DITCH	465
269440	SN93617211	MOELFRYN, CAIRN	CAIRN	525
269441	SN93957193	MOELFRYN, FIELD SYSTEM	FIELD SYSTEM	465
269442	SN93967201	MOELFRYN, RIDGE AND FURROW I	RIDGE AND FURROW ?	460
269443	SN93877205	MOELFRYN, LONG HUT II	LONG HUT	470

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269444	SN93247207	MOELFRYN, TRACKWAY II	TRACKWAY	475
269445	SN94187182	MOELFRYN, RIDGE AND FURROW II	RIDGE AND FURROW	435
269446	SN94307202	MOELFRYN, QUARRY I	QUARRY	410
269447	SN94387189	MOELFRYN, QUARRY II	QUARRY	400
269448	SN94477198	COED NANNERTH-FAWR, BANK II	BANK	385
269449	SN93037291	GRAIG FAWR, TRIAL MINE	TRIAL MINE ?	350
269450	SN93167258	GRAIG SAFN-Y-COED, PEAT CUTTING I	PEAT CUTTING	470
269451	SN92857250	BWLCH, PEAT CUTTING	PEAT CUTTING	455
269452	SN93027245	GRAIG SAFN-Y-COED, PEAT CUTTING II	PEAT CUTTING	470
269453	SN93137244	GRAIG SAFN-Y-COED, PEAT CUTTING III	PEAT CUTTING	475
269454	SN92027293	LAN WEN, FIELD SYSTEM	FIELD SYSTEM	395
269455	SN92027293	LAN WEN, PLATFORM	PLATFORM	395
269456	SN92417277	RHIW-GAM, TRACKWAY I	TRACKWAY	340
269457	SN92547279	RHIW-GAM, TRACKWAY II	TRACKWAY	375
269458	SN92617276	RHIW-GAM, FIELD BOUNDARY	FIELD BOUNDARY	400
269459	SN92687275	RHIW-GAM, TRACKWAY III	TRACKWAY	420
269460	SN92647297	RHIW-GAM, TRACKWAY IV	TRACKWAY	330
269461	SN92647301	RHIW-GAM, TRACKWAY V	TRACKWAY	315
269462	SN92487292	RHIW-GAM, TRACKWAY VI	TRACKWAY	320
269463	SN92567301	TY MAWR, ENCLOSURE	ENCLOSURE	305

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269464	SN91427341	CWM-BYR, LEAT	LEAT	375
269465	SN91467310	CWM GWN OG, TRIAL MINE	TRIAL MINE	350
269466	SN91527325	CWM GWN OG, MOUND	MOUND	330
269467	SN91627329	CWM GWN OG, LEAT	LEAT	320
269468	SN91757350	CWM GWN OG, FIELD BOUNDARY	FIELD BOUNDARY	300
269469	SN91927336	LAN WEN, TRIAL MINE I	TRIAL MINE	345
269470	SN92027308	LAN WEN, TRIAL MINE II	TRIAL MINE	400
269471	SN91977287	LAN WEN, TRIAL MINE III	TRIAL MINE	415
269472	SN92007315	LAN WEN, TRIAL MINE IV	TRIAL MINE	395
269473	SN91927320	LAN WEN, TRIAL MINE V	TRIAL MINE	395
269474	SN91907321	LAN WEN, TRIAL MINE VI	TRIAL MINE	395
269475	SN91757321	LAN WEN, TRIAL MINE VII	TRIAL MINE	395
269476	SN91357333	CWM-BYR, MOUND	MOUND	410
269477	SN91267341	CWM-BYR, TRIAL MINE	TRIAL MINE	415
269478	SN91327336	CWM-BYR, TRACKWAY I	TRACKWAY	415
269479	SN91287340	CWM-BYR, TRACKWAY II	TRACKWAY	412
269480	SN92017377	PEN-Y-BANC, HOUSE	HOUSE	250
269481	SN91567377	CWM-BYR, FIELD BOUNDARY	FIELD BOUNDARY	305
269482	SN91757264	LAN WEN, PEAT CUTTING I	PEAT CUTTING	495
269483	SN91597263	LAN WEN, PEAT CUTTING II	PEAT CUTTING	480

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269484	SN91347261	LAN WEN, PEAT CUTTING III	PEAT CUTTING	485
269485	SN91457264	LAN WEN, PEAT CUTTING IV	PEAT CUTTING	475
269486	SN91107274	CWM GWYNOG, TRACKWAY II	TRACKWAY	495
269487	SN91077287	CERRIG LLWYDION, BOUNDARY MARKER I	BOUNDARY MARKER	495
269488	SN91017287	CERRIG LLWYDION, PEAT CUTTING	PEAT CUTTING	495
269489	SN90987318	CERRIG LLWYDION, BOUNDARY MARKER II	BOUNDARY MARKER	505
269489	SN91307194	MOEL GEUFRON, BOUNDARY MARKER VI	BOUNDARY MARKER	470
269490	SN90977314	CERRIG LLWYDION, BOUNDARY MARKER III	BOUNDARY MARKER	505
269491	SN90867287	CWM YR YCH, QUARRY	QUARRY	490
269492	SN90917284	CWM YR YCH, PEAT CUTTING I	PEAT CUTTING	490
269493	SN91037275	CERRIG LLWYDION, BOUNDARY MARKER IV	BOUNDARY MARKER	495
269494	SN90927272	CWM YR YCH, PEAT CUTTING II	PEAT CUTTING	485
269495	SN91137265	MOEL GEUFRON, BOUNDARY MARKER III	BOUNDARY MARKER	500
269496	SN91067262	MOEL GEUFRON, BOUNDARY MARKER IV	BOUNDARY MARKER	505
269497	SN91047255	MOEL GEUFRON, BOUNDARY MARKER V	BOUNDARY MARKER	505
269499	SN91277176	MOEL GEUFRON, TRACKWAY	TRACKWAY	445
269500	SN91527150	SARN GEUFRON, BOUNDARY MARKER I	BOUNDARY MARKER	445
269501	SN91527149	SARN GEUFRON, BOUNDARY MARKER II	BOUNDARY MARKER	445
269502	SN90677344	CERRIG LLWYDION, ROUND BARROW	RING CAIRN	460
269503	SN90707362	CEFN BACH, BOUNDARY MARKER	BOUNDARY MARKER	470

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269504	SN91057406	CEFN BACH, QUARRY I	QUARRY	410
269505	SN91097407	CEFN BACH, QUARRY II	QUARRY	395
269506	SN91277398	CEFN BACH, TRIAL MINE I	TRIAL MINE	370
269507	SN91167373	CEFN BACH, TRIAL MINE II	TRIAL MINE	420
269508	SN91217357	CEFN BACH, TRIAL MINE III	TRIAL MINE	395
269509	SN90937402	CEFN BACH, TRACKWAY I	TRACKWAY	435
269510	SN91147400	CEFN BACH, TRACKWAY II	TRACKWAY	410
269511	SN91197378	CEFN BACH, TRACKWAY III	TRACKWAY	400
269512	SN91197386	CEFN BACH, TRACKWAY IV	TRACKWAY	400
269513	SN91147370	CEFN BACH, TRACKWAY V	TRACKWAY	495
269514	SN91217362	CEFN BACH, TRACKWAY VI	TRACKWAY	395
269515	SN91017342	CEFN BACH, TRACKWAY VII	TRACKWAY	480
269516	SN91027329	CERRIG LLWYDION, BOUNDARY MARKER V	BOUNDARY MARKER	500
269517	SN90957356	CERRIG LLWYDION, BOUNDARY MARKER VI	BOUNDARY MARKER	485
269518	SN90317300	CWM Y FFALD, BANK AND DITCH	BANK AND DITCH	400
269519	SN96076864	GWARDOLAU, QUARRY I	QUARRY	265
269520	SN96056877	GWARDOLAU, QUARRY II	QUARRY	280
269521	SN96026868	GWARDOLAU, BANK	BANK	275
269522	SN95966882	PEN-CAEU, RIDGE AND FURROW I	RIDGE AND FURROW	285
269523	SN95866888	PEN-CAEU, RIDGE AND FURROW II	RIDGE AND FURROW	295

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269524	SN95886887	PEN-CAEAU, QUARRY	QUARRY	295
269525	SN95546906	LLAWR DDERW, TERRACE	TERRACE	350
269526	SN95526915	LLAWR DDERW, MOUND VII	MOUND	355
269527	SN95526923	LLAWR DDERW, TRIAL MINE	TRIAL MINE ?	350
269528	SN95656909	LLAWR DDERW, FIRING RANGE	FIRING RANGE	335
269529	SN94556996	ESGAIR DDERW, MINING TRIAL VII	TRIAL MINE	455
269530	SN94706985	ESGAIR DDERW, ENCLOSURE I	ENCLOSURE ?	435
269531	SN94577006	ESGAIR DDERW, ENCLOSURE II	ENCLOSURE	450
269532	SN94926980	CWMBACH, TRIAL MINE I	TRIAL MINE	395
269533	SN94996980	CWMBACH, TRIAL MINE II	TRIAL MINE	385
269534	SN95266960	CWMBACH, TRIAL MINE III	TRIAL MINE	365
269535	SN95276958	CWMBACH, TRIAL MINE IV	TRIAL MINE	365
269536	SN95296956	CWMBACH, TRIAL MINE V	TRIAL MINE ?	365
269537	SN95336954	CWMBACH, TRIAL MINE VI	TRIAL MINE	360
269538	SN95396947	CWMBACH, TRIAL MINE VII	TRIAL MINE	350
269539	SN95406941	CWMBACH, TRIAL MINE VIII	TRIAL MINE	350
269540	SN95416946	CWMBACH, TRIAL MINE IX	TRIAL MINE	345
269541	SN95426945	CWMBACH, FIELD BOUNDARY	BANK AND DITCH	345
269542	SN95456937	CWMBACH, TRIAL MINE X	TRIAL MINE	345
269543	SN95906877	PEN-CAEAU, FIELD BOUNDARY I	FIELD BOUNDARY	285

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269544	SN95896881	PEN-CAEAU, FIELD BOUNDARY II	FIELD BOUNDARY	290
269545	SN95896890	PEN-CAEAU, FIELD BOUNDARY III	FIELD BOUNDARY	295
269546	SN93517264	SAFN-Y-COED, WALL	WALL	325
269547	SN93777246	GRAIG DDU, BANK	BANK	340
269548	SN93807250	GRAIG DDU, ROCK SHELTER	ROCK SHELTER	310
302189	SN91537393	PEN-YR-OCHR, FARMSTEAD	FARMSTEAD	295
302190	SN91887374	TY-NANT	HOUSE	265
302191	SN91967382	TY-NANT, BARN	BARN	260

Appendix 3

Archaeological Sites in the Elan Valley (NE) Survey Area (by Type)

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269380	SN92177134	LLETHR DU, BANK	BANK	445
269424	SN94807176	COED NANNERTH-FAWR, BANK I	BANK	330
269448	SN94477198	COED NANNERTH-FAWR, BANK II	BANK	385
269521	SN96026868	GWARDOLAU, BANK	BANK	275
269547	SN93777246	GRAIG DDU, BANK	BANK	340
269437	SN92417213	CEFN NANNERTH, BANK AND DITCH I	BANK AND DITCH	465
269439	SN92207227	CEFN NANNERTH, BANK AND DITCH II	BANK AND DITCH	465
269518	SN90317300	CWM Y FFALD, BANK AND DITCH	BANK AND DITCH	400
269541	SN95426945	CWMBACH, FIELD BOUNDARY	BANK AND DITCH	345
98090	SN93877129	NANNERTH-FFRWD, BARN	BARN	235
302191	SN91967382	TY-NANT, BARN	BARN	260
269421	SN93687285	SAFN-Y-COED, BARN	BARN	250
269356	SN92177336	TY MAWR, BARN	BARN	290
97814	SN94247136	NANNERTH GANOL, BARN	BARN	250
97643	SN93937069	FERGWM, BARN	BARN	245
30592	SN91377362	CWM-BYR BARN	BARN	345
269336	SN90917238	SYCHNENTYDD, BOUNDARY MARKER I	BOUNDARY MARKER	505
269337	SN90967222	SYCHNENTYDD, BOUNDARY MARKER II	BOUNDARY MARKER	495
269338	SN90967216	SYCHNENTYDD, BOUNDARY MARKER III	BOUNDARY MARKER	495

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269339	SN90957213	SYCHNENTYDD, BOUNDARY MARKER IV	BOUNDARY MARKER	495
269402	SN90977228	SYCHNENTYDD, BOUNDARY MARKER V	BOUNDARY MARKER	495
269403	SN91457179	MOEL GEUFRON, BOUNDARY MARKER I	BOUNDARY MARKER	440
269404	SN91467175	MOEL GEUFRON, BOUNDARY MARKER II	BOUNDARY MARKER	435
269487	SN91077287	CERRIG LLWYDION, BOUNDARY MARKER I	BOUNDARY MARKER	495
269489	SN90987318	CERRIG LLWYDION, BOUNDARY MARKER II	BOUNDARY MARKER	505
269490	SN90977314	CERRIG LLWYDION, BOUNDARY MARKER III	BOUNDARY MARKER	505
269493	SN91037275	CERRIG LLWYDION, BOUNDARY MARKER IV	BOUNDARY MARKER	495
269495	SN91137265	MOEL GEUFRON, BOUNDARY MARKER III	BOUNDARY MARKER	500
269496	SN91067262	MOEL GEUFRON, BOUNDARY MARKER IV	BOUNDARY MARKER	505
269497	SN91047255	MOEL GEUFRON, BOUNDARY MARKER V	BOUNDARY MARKER	505
269489	SN91307194	MOEL GEUFRON, BOUNDARY MARKER VI	BOUNDARY MARKER	470
269500	SN91527150	SARN GEUFRON, BOUNDARY MARKER I	BOUNDARY MARKER	445
269501	SN91527149	SARN GEUFRON, BOUNDARY MARKER II	BOUNDARY MARKER	445
269503	SN90707362	CEFN BACH, BOUNDARY MARKER	BOUNDARY MARKER	470
269516	SN91027329	CERRIG LLWYDION, BOUNDARY MARKER V	BOUNDARY MARKER	500
269517	SN90957356	CERRIG LLWYDION, BOUNDARY MARKER VI	BOUNDARY MARKER	485
269375	SN91867156	Y GORS, BOUNDARY STONE	BOUNDARY STONE ?	445
269417	SN94757228	BWLCH-GWYN-ISAF BRIDGE	BRIDGE	225
97815	SN94247138	NANNERTH GANOL, BYRE	BYRE	255

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269440	SN93617211	MOELFRYN, CAIRN	CAIRN	525
269379	SN91917121	PENRHIW-WEN, EARTHWORKS	EARTHWORKS	475
269348	SN93607132	NANNERTH-FFRWD, ENCLOSURE	ENCLOSURE	245
269463	SN92567301	TY MAWR, ENCLOSURE	ENCLOSURE	305
269531	SN94577006	ESGAIR DDERW, ENCLOSURE II	ENCLOSURE	450
269530	SN94706985	ESGAIR DDERW, ENCLOSURE I	ENCLOSURE ?	435
81148	SN91417360	CWM-BYR	FARMHOUSE	345
302189	SN91537393	PEN-YR-OCHR, FARMSTEAD	FARMSTEAD	295
81731	SN93867128	NANNERTH-FFRWD, FARMSTEAD	FARMSTEAD	235
269361	SN92527318	TY MAWR, FARMSTEAD	FARMSTEAD	260
81515	SN92857326	SAFN-Y-COED, FARMSTEAD	FARMSTEAD	245
81414	SN94757158	NANNERTH-FAWR	FARMSTEAD	270
269316	SN91297403	PEN-YR-OCHR, BOUNDARY I	FIELD BOUNDARY	355
269318	SN91777418	PEN-YR-OCHR, BOUNDARY II	FIELD BOUNDARY	260
269343	SN93947120	NANNERTH-FFRWD, BANK AND DITCH	FIELD BOUNDARY	230
269345	SN93817080	FERGWM, BANK I	FIELD BOUNDARY	240
269352	SN92097293	NANT TY-MAWR, BANK I	FIELD BOUNDARY	380
269353	SN92087287	NANT TY-MAWR, BANK II	FIELD BOUNDARY	380
269357	SN92427316	TY MAWR, BANK	FIELD BOUNDARY	275
269359	SN92377281	NANT TY-MAWR, BANK III	FIELD BOUNDARY	315

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269360	SN92337271	NANT TY-MAWR, BANK IV	FIELD BOUNDARY	340
269385	SN93717113	NANNERTH-FFRWD, BOUNDARY	FIELD BOUNDARY	250
269390	SN93817073	FERGWM, BANK II	FIELD BOUNDARY	250
269391	SN93897039	CERRIG GWALCH, BOUNDARY BANK	FIELD BOUNDARY	325
269415	SN95047185	COED NANNERTH-FAWR, FIELD BOUNDARY I	FIELD BOUNDARY	245
269416	SN94767214	COED NANNERTH-FAWR, FIELD BOUNDARY II	FIELD BOUNDARY	270
269418	SN93847268	GRAIG DDU, FIELD BOUNDARY I	FIELD BOUNDARY	240
269426	SN94577167	NANNERTH-FAWR, FIELD BOUNDARY	FIELD BOUNDARY	320
269458	SN92617276	RHIW-GAM, FIELD BOUNDARY	FIELD BOUNDARY	400
269468	SN91757350	CWM GWNOG, FIELD BOUNDARY	FIELD BOUNDARY	300
269481	SN91567377	CWM-BYR, FIELD BOUNDARY	FIELD BOUNDARY	305
269543	SN95906877	PEN-CAEAU, FIELD BOUNDARY I	FIELD BOUNDARY	285
269544	SN95896881	PEN-CAEAU, FIELD BOUNDARY II	FIELD BOUNDARY	290
269545	SN95896890	PEN-CAEAU, FIELD BOUNDARY III	FIELD BOUNDARY	295
269388	SN93637114	NANNERTH-FFRWD, BANK	FIELD BOUNDARY ?	285
269395	SN93777018	CERRIG GWALCH, FIELD SYSTEM	FIELD SYSTEM	420
269411	SN89947220	ABERHENLLAN, FIELD SYSTEM	FIELD SYSTEM	340
269429	SN93127160	LLUEST PEN-RHIW, FIELD SYSTEM II	FIELD SYSTEM	430
81344	SN93147148	LLUEST PEN-RHIW, FIELD SYSTEM I	FIELD SYSTEM	410
269441	SN93957193	MOELFRYN, FIELD SYSTEM	FIELD SYSTEM	465

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269454	SN92027293	LAN WEN, FIELD SYSTEM	FIELD SYSTEM	395
269528	SN95656909	LLAWR DDERW, FIRING RANGE	FIRING RANGE	335
269432	SN92807170	CEFN NANNERTH, FOLD	FOLD	445
269368	SN92937033	PENRHIW-WEN, GULLY II	GULLY	465
269367	SN92967022	PENRHIW-WEN, GULLY I	GULLY ?	460
143141	SN93097147	LLUEST PEN RHIW, HOUSE	HOUSE	410
143143	SN92257278	CWM BEDW, HOUSE	HOUSE	328
143449	SN89947229	ABER HENLLAN, LONGHOUSE	HOUSE	335
163442	SN94237137	NANNERTH GANOL, HOUSE	HOUSE	255
165809	SN93857129	NANNERTH-FFRWD, FARMHOUSE	HOUSE	235
302190	SN91887374	TY-NANT	HOUSE	265
269351	SN92087300	WEN DY ?, HOUSE	HOUSE	380
269358	SN92337316	FAENOL TY ?, HOUSE	HOUSE	285
98091	SN93867128	NANNERTH-FFRWD, FARMHOUSE	HOUSE	235
81416	SN94207137	NANNERTH-GANOL	HOUSE	255
81202	SN93947073	FERGWM, HOUSE	HOUSE	240
269480	SN92017377	PEN-Y-BANC, HOUSE	HOUSE	250
269431	SN93037164	LLUEST PEN-RHIW, LEAT	LEAT	440
269464	SN91427341	CWM-BYR, LEAT	LEAT	375
269467	SN91627329	CWM GWNOG, LEAT	LEAT	320

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
86936	SN93917193	MOELFRYN, LONG HUT I	LONG HUT	475
269443	SN93877205	MOELFRYN, LONG HUT II	LONG HUT	470
269394	SN93787016	CERRIG GWALCH, LONGHOUSE	LONGHOUSE	420
269412	SN92387158	RHYD GARREG-LWYD, LONGHOUSE	LONGHOUSE	415
165813	SN91187156	SARN GEUFRON, MILESTONE	MILESTONE	420
170969	SN944709	MILL	MILL (CORN)	220
152372	SN94406980	CWM BACH, MINE (POST MEDIEVAL)	MINE (LEAD)	450
152373	SN94406980	CWM BACH, MINE (MODERN)	MINE (LEAD)	450
169549	SN94406974	CWM BACH MINE, WORKING	MINE (LEAD)	440
269307	SN94596985	ESGAIR DDERW, SHAFT	MINE SHAFT	450
269303	SN95346917	LLAWR DDERW, MOUND I	MOUND	345
269308	SN95106938	Y WENNALLT, MOUND I	MOUND	385
269309	SN95166937	Y WENNALLT, MOUND II	MOUND	380
269310	SN95226938	LLAWR DDERW, MOUND II	MOUND	375
269311	SN95266925	LLAWR DDERW, MOUND III	MOUND	350
269312	SN95336921	LLAWR DDERW, MOUND IV	MOUND	345
269313	SN95366917	LLAWR DDERW, MOUND V	MOUND	345
269314	SN95366916	LLAWR DDERW, MOUND VI	MOUND	345
269321	SN93956973	ESGAIR DDERW, MOUND	MOUND	410
269333	SN90837259	SYCHNENTYDD, MOUND	MOUND	485

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269342	SN94297126	NANNERTH GANOL, MOUND	MOUND	235
269466	SN91527325	CWM GWNOG, MOUND	MOUND	330
269476	SN91357333	CWM-BYR, MOUND	MOUND	410
269526	SN95526915	LLAWR DDERW, MOUND VII	MOUND	355
143439	SN90067209	ABER HENLLAN, PLATFORM	NON ANTIQUITY	343
269329	SN93587002	CERRIG GWALCH, PEAT CUTTING I	PEAT CUTTING	455
269331	SN93467031	CERRIG GWALCH, PEAT CUTTING II	PEAT CUTTING	490
269332	SN91047187	MOEL GEUFRON, PEAT CUTTING	PEAT CUTTING	495
269334	SN90767228	SYCHNENTYDD, PEAT CUTTING I	PEAT CUTTING	505
269335	SN90837228	SYCHNENTYDD, PEAT CUTTING II	PEAT CUTTING	505
269344	SN93887095	FERGWM, PEAT CUTTING	PEAT CUTTING	225
269364	SN92547031	NANT GWYNLLYN, PEAT CUTTING I	PEAT CUTTING	450
269366	SN93287002	NANT GWYNLLYN, PEAT CUTTING II	PEAT CUTTING	445
269372	SN91497163	SARN GEUFRON, PEAT CUTTING	PEAT CUTTING	425
269373	SN92007164	Y GORS, PEAT CUTTING	PEAT CUTTING	435
269376	SN91907151	LLETHR DU, PEAT CUTTING	PEAT CUTTING	450
269397	SN92087098	PENRHIW-WEN, PEAT CUTTING I	PEAT CUTTING	480
269398	SN92287110	PENRHIW-WEN, PEAT CUTTING II	PEAT CUTTING	475
269399	SN92347102	PENRHIW-WEN, PEAT CUTTING III	PEAT CUTTING	495
269400	SN92697096	PENRHIW-WEN, PEAT CUTTING IV	PEAT CUTTING	495

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269405	SN91337229	Y GORS, PEAT CUTTING I	PEAT CUTTING	470
269406	SN91707231	Y GORS, PEAT CUTTING II	PEAT CUTTING	470
269435	SN92767222	CEFN NANNERTH, PEAT CUTTING I	PEAT CUTTING	465
269436	SN92647213	CEFN NANNERTH, PEAT CUTTING II	PEAT CUTTING	470
269438	SN92147224	CEFN NANNERTH, PEAT CUTTING III	PEAT CUTTING	465
269450	SN93167258	GRAIG SAFN-Y-COED, PEAT CUTTING I	PEAT CUTTING	470
269451	SN92857250	BWLCH, PEAT CUTTING	PEAT CUTTING	455
269452	SN93027245	GRAIG SAFN-Y-COED, PEAT CUTTING II	PEAT CUTTING	470
269453	SN93137244	GRAIG SAFN-Y-COED, PEAT CUTTING III	PEAT CUTTING	475
269482	SN91757264	LAN WEN, PEAT CUTTING I	PEAT CUTTING	495
269483	SN91597263	LAN WEN, PEAT CUTTING II	PEAT CUTTING	480
269484	SN91347261	LAN WEN, PEAT CUTTING III	PEAT CUTTING	485
269485	SN91457264	LAN WEN, PEAT CUTTING IV	PEAT CUTTING	475
269488	SN91017287	CERRIG LLWYDION, PEAT CUTTING	PEAT CUTTING	495
269492	SN90917284	CWM YR YCH, PEAT CUTTING I	PEAT CUTTING	490
269494	SN90927272	CWM YR YCH, PEAT CUTTING II	PEAT CUTTING	485
269377	SN91937148	LLETHR DU, PEAT STAND	PEAT STAND ?	455
269327	SN93897002	ESGAIR DDERW, PILLOW MOUND I	PILLOW MOUND	430
269328	SN93877001	ESGAIR DDERW, PILLOW MOUND II	PILLOW MOUND ?	435
269387	SN93437128	NANT Y SARN, WATER SUPPLY	PIPELINE	300

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
143139	SN91147161	SARN GEUFRON, PLATFORM	PLATFORM	435
269304	SN95346912	LLAWR DDERW, PLATFORM I	PLATFORM	345
269305	SN95386908	LLAWR DDERW, PLATFORM II	PLATFORM	350
269315	SN95416911	LLAWR DDERW, PLATFORM III	PLATFORM	350
269355	SN92157332	TY MAWR, PLATFORM	PLATFORM	305
269374	SN92047152	LLETHR DU, PLATFORM I	PLATFORM	440
269378	SN91997144	LLETHR DU, PLATFORM II	PLATFORM	450
269384	SN92687137	NANT Y SARN, PLATFORM	PLATFORM	400
269409	SN90657273	NANT YR YCH, PLATFORM II	PLATFORM	445
269455	SN92027293	LAN WEN, PLATFORM	PLATFORM	395
269396	SN93757020	CERRIG GWALCH, PLATFORM	PLATFORM ?	420
269408	SN90707275	NANT YR YCH, PLATFORM I	PLATFORM ?	450
269301	SN94466978	ESGAIR DDERW, QUARRY I	QUARRY	450
269302	SN94916953	Y WENNALLT, QUARRY	QUARRY	415
269306	SN94396977	ESGAIR DDERW, QUARRY II	QUARRY	445
269340	SN94247145	NANNERTH GANOL, QUARRY	QUARRY	270
269346	SN94107061	FERGWM, QUARRY	QUARRY	260
269369	SN92157064	PENRHIW-WEN, QUARRY I	QUARRY	475
269370	SN92107072	PENRHIW-WEN, QUARRY II	QUARRY	480
269401	SN92447090	PENRHIW-WEN, QUARRY III	QUARRY	505

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269420	SN94667169	COED NANNERTH-FAWR, QUARRY	QUARRY	325
269446	SN94307202	MOELFRYN, QUARRY I	QUARRY	410
269447	SN94387189	MOELFRYN, QUARRY II	QUARRY	400
269491	SN90867287	CWM YR YCH, QUARRY	QUARRY	490
269504	SN91057406	CEFN BACH, QUARRY I	QUARRY	410
269505	SN91097407	CEFN BACH, QUARRY II	QUARRY	395
269519	SN96076864	GWARDOLAU, QUARRY I	QUARRY	265
269520	SN96056877	GWARDOLAU, QUARRY II	QUARRY	280
269524	SN95886887	PEN-CAEAU, QUARRY	QUARRY	295
269430	SN93237157	LLUEST PEN-RHIW, RIDGE AND FURROW	RIDGE AND FURROW	420
269445	SN94187182	MOELFRYN, RIDGE AND FURROW II	RIDGE AND FURROW	435
269522	SN95966882	PEN-CAEAU, RIDGE AND FURROW I	RIDGE AND FURROW	285
269523	SN95866888	PEN-CAEAU, RIDGE AND FURROW II	RIDGE AND FURROW	295
269442	SN93967201	MOELFRYN, RIDGE AND FURROW I	RIDGE AND FURROW ?	460
269502	SN90677344	CERRIG LLWYDION, ROUND BARROW	RING CAIRN	460
269548	SN93807250	GRAIG DDU, ROCK SHELTER	ROCK SHELTER	310
140794	SN93656992	CLAP YR ARIAN, CAIRN II	ROUND BARROW	445
140791	SN93646996	CLAP YR ARIAN, CAIRN I	ROUND BARROW (CAIRN)	450
160888	SN91237172	MOEL GEUFRON, SHEEPFOLD	SHEEP FOLD	445
269393	SN93787016	CERRIG GWALCH, SHEEPFOLD	SHEEPFOLD	420

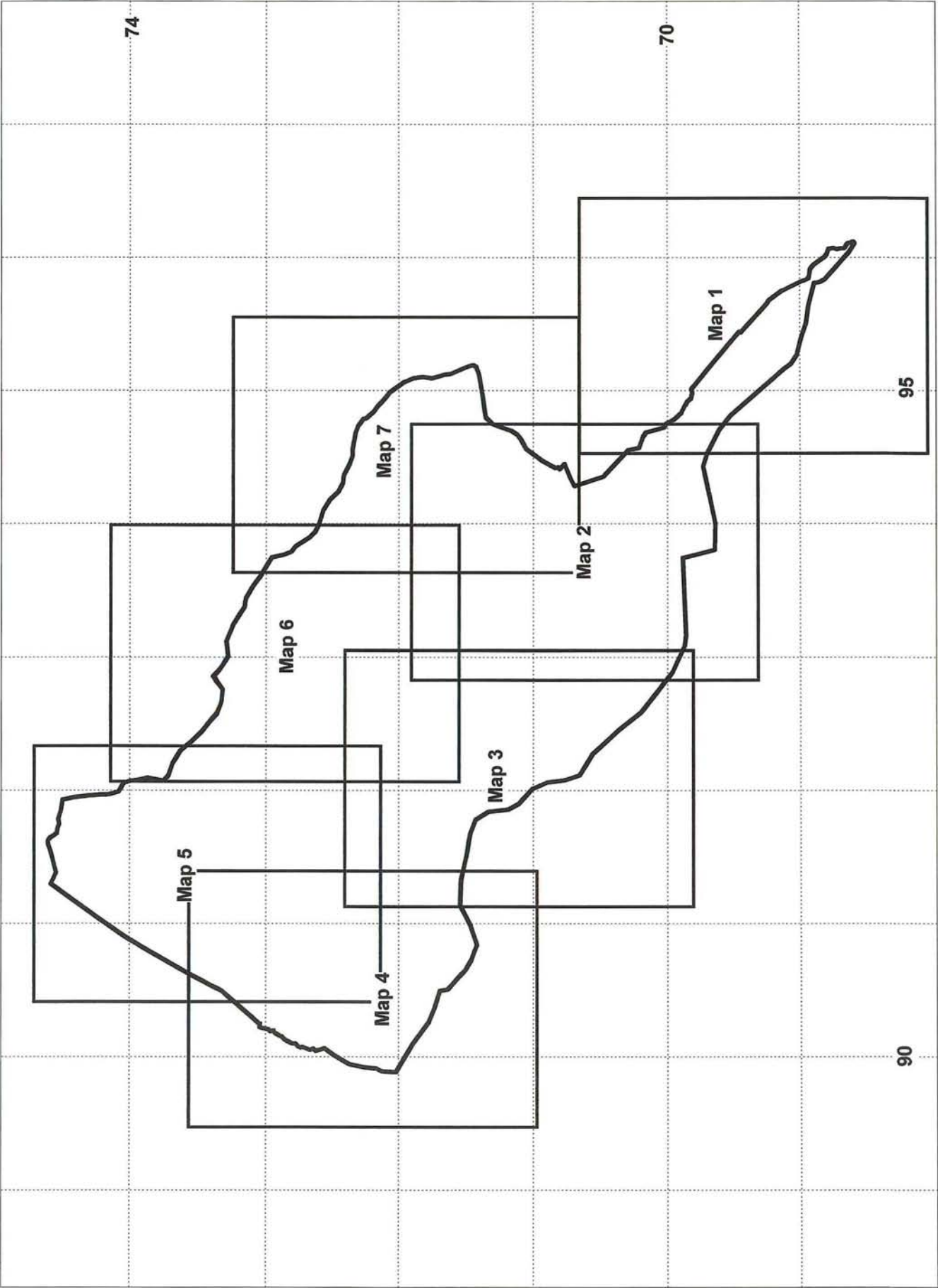
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269414	SN92377158	RHYD GARREG-LWYD, SHEEPFOLD	SHEEPFOLD	415
143440	SN89967199	ABER HENLLAN, SHEEPFOLD	SHEEPFOLD ?	328
143138	SN90187256	NANT YR YCH, HUT	SHELTER	365
269413	SN92587154	NANT Y SARN, SHELTER	SHELTER	415
143526	SN93656995	CLAP YR ARIAN, CAIRN III	SPOIL HEAP ?	450
170550	SN90177255	NANT YR YCH, HOLLOW	SPRING	365
140790	SN94306988	MAEN SERTH ESGAIR DDERW, STONE	STANDING STONE	460
140822	SN92577057	MAENGWYNGWEDDW, STONE	STANDING STONE ?	480
269525	SN95546906	LLAWR DDERW, TERRACE	TERRACE	350
142265	SN92757040	PENRHIW-WEN, TRACKWAY I	TRACKWAY	457
269317	SN91337408	PEN-YR-OCHR, TRACKWAY	TRACKWAY	340
269326	SN93987011	FERGWM, TRACKWAY I	TRACKWAY	395
269330	SN93457051	CERRIG GWALCH, TRACKWAY	TRACKWAY	485
269341	SN93917132	NANNERTH GANOL, TRACKWAY	TRACKWAY	240
269347	SN94047053	FERGWM, TRACKWAY II	TRACKWAY	275
269349	SN92187321	TY MAWR, TRACKWAY I	TRACKWAY	330
269350	SN91927345	TY MAWR, TRACKWAY II	TRACKWAY	310
269354	SN92127273	NANT TY-MAWR, TRACKWAY	TRACKWAY	370
269362	SN92347054	NANT GWYNLLYN, TRACKWAY	TRACKWAY	465
269365	SN93147052	PENRHIW-WEN, TRACKWAY II	TRACKWAY	485

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269371	SN91507163	SARN GEUFRON, TRACKWAY	TRACKWAY	435
269381	SN92237161	RHYD GARREG-LWYD, TRACKWAY	TRACKWAY	425
269392	SN93827011	CERRIG GWALCH, TRACKWAY	TRACKWAY	425
269407	SN90197188	PONT AR ELAN, TRACKWAY	TRACKWAY	345
269410	SN90377256	NANT YR YCH, TRACKWAY	TRACKWAY	395
269419	SN94517223	GRAIG DDU, TRACKWAY I	TRACKWAY	280
269422	SN94627207	GRAIG DDU, TRACKWAY II	TRACKWAY	320
269423	SN94837179	COED NANNERTH-FAWR, TRACKWAY I	TRACKWAY	320
269425	SN94717170	COED NANNERTH-FAWR, TRACKWAY II	TRACKWAY	325
269427	SN94587162	NANNERTH-FAWR, TRACKWAY I	TRACKWAY	300
269428	SN94497163	NANNERTH-FAWR, TRACKWAY II	TRACKWAY	310
269433	SN93417141	LLUEST PEN-RHIW, TRACKWAY	TRACKWAY	335
269434	SN92927160	MOELFRYN, TRACKWAY I	TRACKWAY	430
269444	SN93247207	MOELFRYN, TRACKWAY II	TRACKWAY	475
269456	SN92417277	RHIW-GAM, TRACKWAY I	TRACKWAY	340
269457	SN92547279	RHIW-GAM, TRACKWAY II	TRACKWAY	375
269459	SN92687275	RHIW-GAM, TRACKWAY III	TRACKWAY	420
269460	SN92647297	RHIW-GAM, TRACKWAY IV	TRACKWAY	330
269461	SN92647301	RHIW-GAM, TRACKWAY V	TRACKWAY	315
269462	SN92487292	RHIW-GAM, TRACKWAY VI	TRACKWAY	320

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269478	SN91327336	CWM-BYR, TRACKWAY I	TRACKWAY	415
269479	SN91287340	CWM-BYR, TRACKWAY II	TRACKWAY	412
269486	SN91107274	CWM GWYNOG, TRACKWAY II	TRACKWAY	495
269499	SN91277176	MOEL GEUFRON, TRACKWAY	TRACKWAY	445
269509	SN90937402	CEFN BACH, TRACKWAY I	TRACKWAY	435
269510	SN91147400	CEFN BACH, TRACKWAY II	TRACKWAY	410
269511	SN91197378	CEFN BACH, TRACKWAY III	TRACKWAY	400
269512	SN91197386	CEFN BACH, TRACKWAY IV	TRACKWAY	400
269513	SN91147370	CEFN BACH, TRACKWAY V	TRACKWAY	495
269514	SN91217362	CEFN BACH, TRACKWAY VI	TRACKWAY	395
269515	SN91017342	CEFN BACH, TRACKWAY VII	TRACKWAY	480
269319	SN93906973	ESGAIR DDERW, MINING TRIAL I	TRIAL MINE	400
269320	SN93926977	ESGAIR DDERW, MINING TRIAL II	TRIAL MINE	420
269322	SN94216974	ESGAIR DDERW, MINING TRIAL III	TRIAL MINE	430
269323	SN93956993	ESGAIR DDERW, MINING TRIAL IV	TRIAL MINE	435
269324	SN93966999	ESGAIR DDERW, MINING TRIAL V	TRIAL MINE	430
269325	SN93977004	ESGAIR DDERW, MINING TRIAL VI	TRIAL MINE	420
269465	SN91467310	CWM GWNOC, TRIAL MINE	TRIAL MINE	350
269469	SN91927336	LAN WEN, TRIAL MINE I	TRIAL MINE	345
269470	SN92027308	LAN WEN, TRIAL MINE II	TRIAL MINE	400

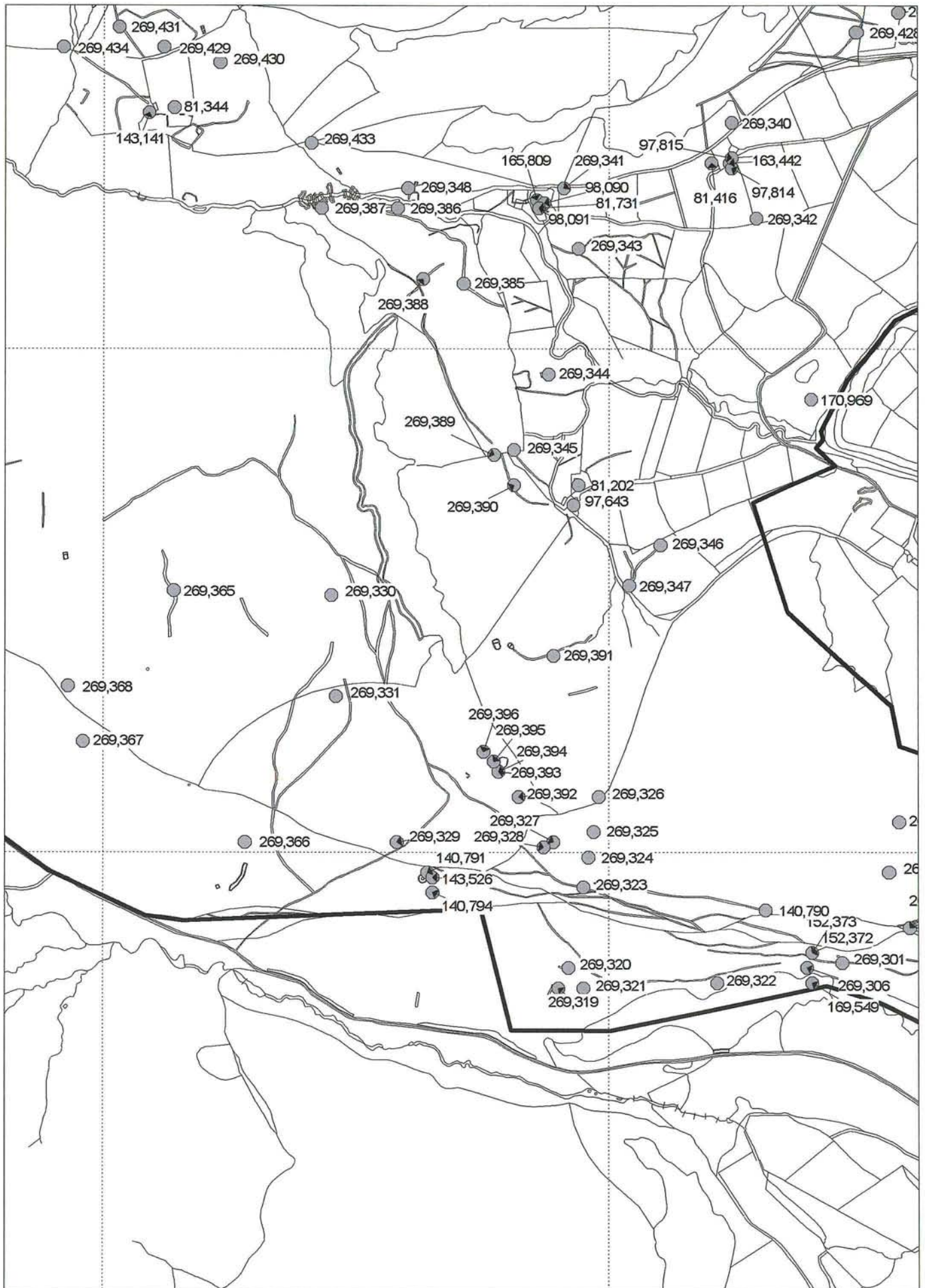
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269471	SN91977287	LAN WEN, TRIAL MINE III	TRIAL MINE	415
269472	SN92007315	LAN WEN, TRIAL MINE IV	TRIAL MINE	395
269473	SN91927320	LAN WEN, TRIAL MINE V	TRIAL MINE	395
269474	SN91907321	LAN WEN, TRIAL MINE VI	TRIAL MINE	395
269475	SN91757321	LAN WEN, TRIAL MINE VII	TRIAL MINE	395
269477	SN91267341	CWM-BYR, TRIAL MINE	TRIAL MINE	415
269506	SN91277398	CEFN BACH, TRIAL MINE I	TRIAL MINE	370
269507	SN91167373	CEFN BACH, TRIAL MINE II	TRIAL MINE	420
269508	SN91217357	CEFN BACH, TRIAL MINE III	TRIAL MINE	395
269529	SN94556996	ESGAIR DDERW, MINING TRIAL VII	TRIAL MINE	455
269532	SN94926980	CWMBACH, TRIAL MINE I	TRIAL MINE	395
269533	SN94996980	CWMBACH, TRIAL MINE II	TRIAL MINE	385
269534	SN95266960	CWMBACH, TRIAL MINE III	TRIAL MINE	365
269535	SN95276958	CWMBACH, TRIAL MINE IV	TRIAL MINE	365
269537	SN95336954	CWMBACH, TRIAL MINE VI	TRIAL MINE	360
269538	SN95396947	CWMBACH, TRIAL MINE VII	TRIAL MINE	350
269539	SN95406941	CWMBACH, TRIAL MINE VIII	TRIAL MINE	350
269540	SN95416946	CWMBACH, TRIAL MINE IX	TRIAL MINE	345
269542	SN95456937	CWMBACH, TRIAL MINE X	TRIAL MINE	345
269363	SN92417048	NANT GWYNLLYN, MINING TRIAL I	TRIAL MINE ?	460

<i>NPRN</i>	<i>NGR</i>	<i>Name</i>	<i>Type</i>	<i>Altitude</i>
269449	SN93037291	GRAIG FAWR, TRIAL MINE	TRIAL MINE ?	350
269527	SN95526923	LLAWR DDERW, TRIAL MINE	TRIAL MINE ?	350
269536	SN95296956	CWMBACH, TRIAL MINE V	TRIAL MINE ?	365
269382	SN92397155	RHYD GARREG-LWYD, SHELTER WALL	WALL	415
269383	SN92407144	LLETHR DU, SHELTER WALL	WALL	420
269386	SN93587128	NANNERTH-FFRWD, WALL	WALL	245
269389	SN93777079	FERGWM, WALL	WALL	255
269546	SN93517264	SAFN-Y-COED, WALL	WALL	325

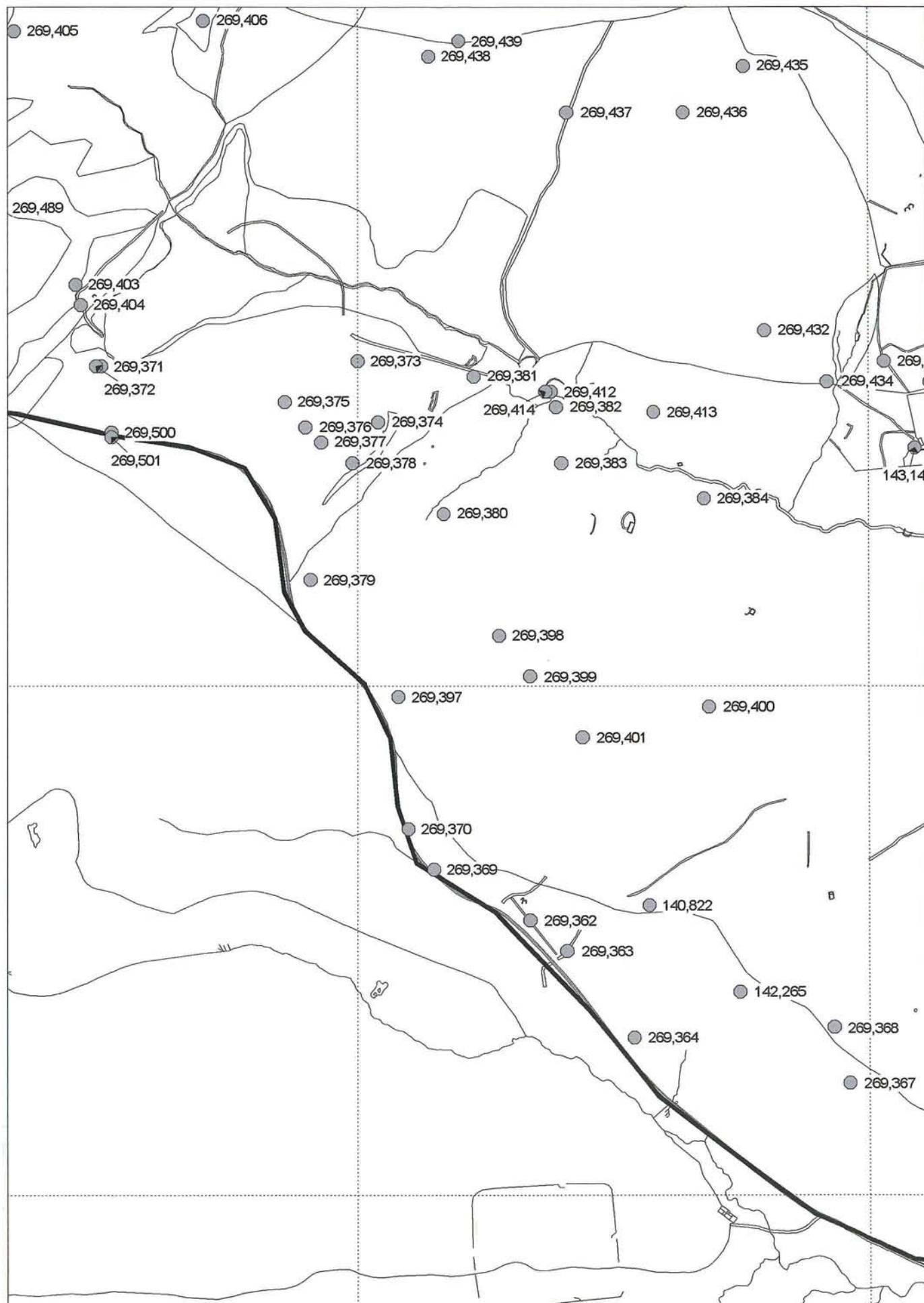


Keymap for Maps 1-7, Scale 1:40,000

Map 1, Scale 1:10,000



Map 2, Scale 1:10,000

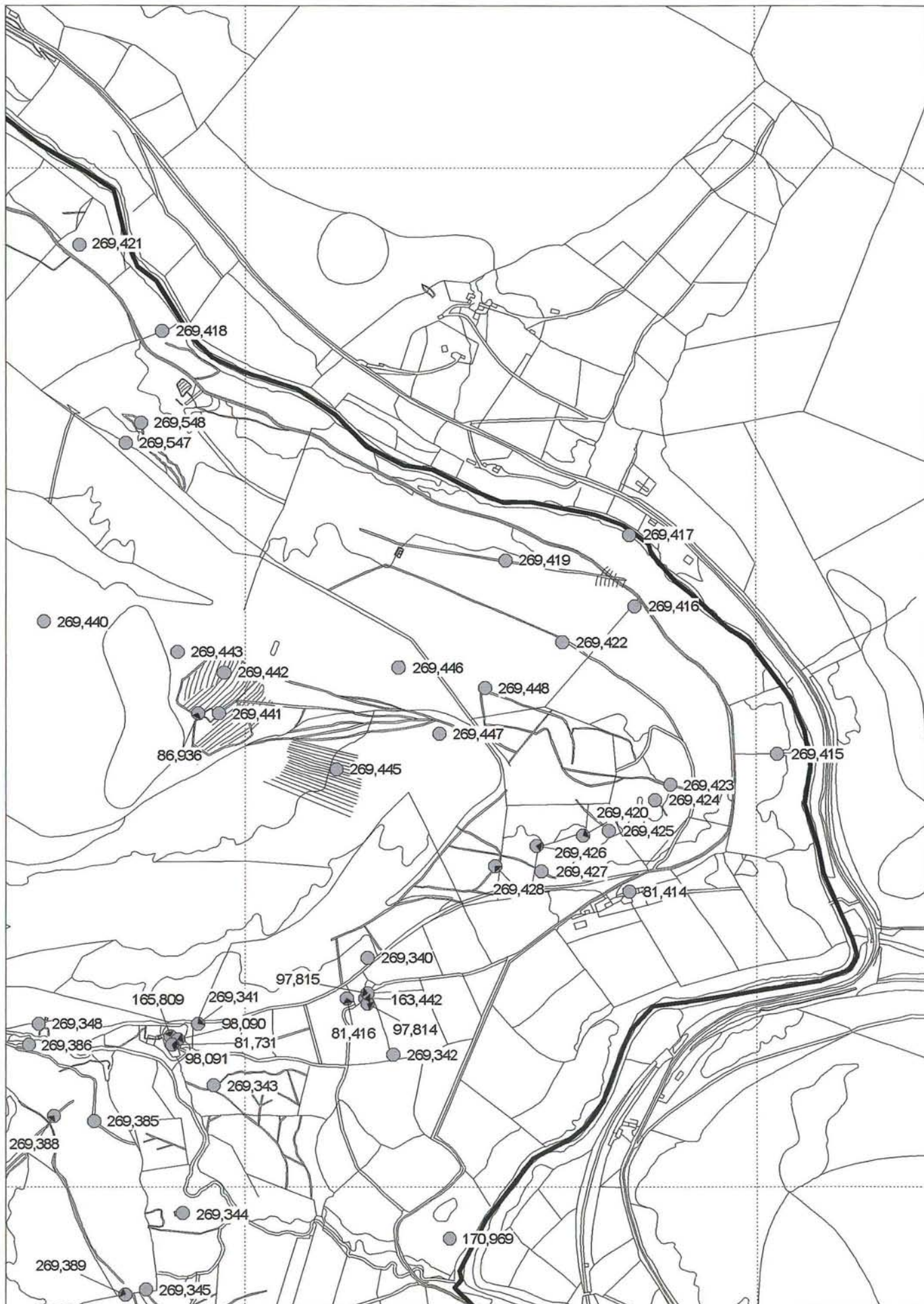


Map 3, Scale 1:10,000

Map 4, Scale 1:10,000

Map 5, Scale 1:10,000

Map 6, Scale 1:10,000



Map 7, Scale 1:10,000