

Landscapes Working For Bridgend County Borough

# **Technical Annex**

Volume 4







January 1997



#### GUIDE TO STRATEGY DOCUMENT

Sach Volume of the Shutegy has a specific function relevant to different people and crysmisations and all one intervalated

# Volume \ Main Strategy

#### Containt

Key issues relating to Bridgend County Borough's lendscape resource

A Walon for the County borough a landscape Strategy Themes and Recommendations A Strategy for each Landscape Character area Mechanisms for Implementing the Strategy Stategraphy

# Volume`L *Design* Guidelines

Conteine

A Checklist for Developers Overall Design Themes for the County Borough Design Palette for each Charpoter Area Design Guidance for specific sites Design Birlefs for key development sites

Action Programme.

Volume's

Contains 53 Landscape Schemes for Implementation in a profilised and coated list

Volume 4 Technical Annex

#### Conternal

Background Information for the Strategy Including Appraisals of Landscape, Ecology, and Issues Inlating to the Isoal Economy, Flanning, Touriam, Sublainable Development and Community Consultation An Action Plan for activities to implement the Strategy

Opus Strifermenta Desgr

# CONTENTS

1.0	Introduction
2,0	Landscape Appraval
3.0	Ecological Appraisal
4.0	Economic Appraisal
5.0	Planning Appraisal
6.0	Tourism Appraisal
27.0	Sustainable Development Overview
8.0	Community Comultation
90	Action Plan
Figu	res .
Figur	

- Figure TA2 Simplified Solid and Drift Geology
- Figure TA3 Topography
- Figure TA4 Drainage
- Figure TA3 Soils
- Figure TA6 Agricultural Classification
- Figure TA7 Landscape Designations
- Figure TA8 Countryside Access
- Figure TA9 Recreation and Amenaty
- Figure TA10 Landscape Types
- Figure TA11 Landscape Character Areas
- Figure TAJ2 Sites of Heritage Interest
- Figure TA11 Ecology and Nature Conservation
  - SNCI Location Plans

# 1.0 INTRODUCTION

This document is Volume 4 of a series of four documents which together make up the Landscape Strategy entitled 'Landscapes Working for Bridgend County Borough'. The Guide to the Strategy document at the front of this report explains the titles and contents of the other three volumes.

The intention of this volume is provide background information primarily for the Main Strategy Document. It consists of separate appraisals of the main subject areas involved in preparing the strategy and background information. These are:

- Landscape
- Ecology
- Economic Planning
- Planning
- Tourism
- Sustainable Development
- Community Issues
- Action Plan

A bibliography is located within the Ecology section. The appraisals are not cross-referenced to the other documents as they are source material in themselves

The extent of the study area and it's location are shown in Figure TA1.

and scape Apprairal CHE IN

SECTION 2.0

# 2.0 LANDSCAPE APPRAISAL SUMMARY

#### 1.0 INTRODUCTION

The appraisal has involved desk studies, field appraisals and consultations with both public and community bodies.

#### 2.0 DESK STUDY

In order to build up a picture of the landscape characteristics of the borough, the following subject areas have been analysed and mapped

Geology Topography Drainage Soils Agricultural Land Classification Landscape Designations Countryside Access Recreation and Amenity Heritage Interest

A summary of the key points relating to each is set out below

#### Geology:

The area is divided geologically into three areas

Carboniferous Upper and Middle Coal Measures of upland plateau overlain by glacial and allovial deposits in north/south aligned valleys.

Narrow east/west aligned Carboniferous Millstone Grit ridge terminating above pattern

Carboniferous Dolomitic and Oolitic Linuestone on gentle plateau to the south with Mesozoic Lias and Mercian Madstone fringes. Glacial and alluvial deposits on valley floors.

See Figure TA2.

#### Topography:

The topography follows the geology closely:

Upland plateau to the north, with broad tops in places such as Mynydd. Llangeinor, reaches 550m AOD at Werfa. Cut through by steep sided north/south aligned valleys with re-ontrant incised side valleys.

North /south grain of topography interrupted by east/west ridges of Mynydd Baeden and Y Gaer [290mAOD] and lower parallel ridges to south of Cefn Cribwr and Cefn Hirgood [134m AOD] These push rivers to a confluence and confine the southern exit to one narrow gap at Sarn.

The gently undulating plateau landscape to the south rises from either side of the broad River Ogmore and Ewenny Valleys. More pronounced rolling landscape is apparent around Costy

The coast consists of stabilised dunes, some running up south facing slopes as at Merthyr Mawr, and superb cliffs, wave cut platforms and beaches.

See Figure TA3

#### Drainage:

Most of borough is within the Ogmote catchment area with the following principal tributaries; the Llynfi, Garw, Ogwr Fawr, Ogwr Fach to the north and the Ewonny further south. The catchment of the Afan and Kenfig to the west drains the rest of the area. The River Kenfig forms the western boundary of the borough for part of it's length.

Catchment Management plans have been prepared by the NRA for both catchment areas [see Bibbography]

See Figure TA4

#### Solls:

Podzolic soils dominate the upland areas with surface water Gley soils on poorly drained slopes. Disturbed soils are apparent on Hirwain Common and in the open cast area in Park Slip The lowland areas are dominated by Brown soils with Lithomorphic sands in the dunes. Throughout, alluvial brown soils occur in the valley bottoms.

See Figure TAS.

#### Agricultural Land Quality:

The highest grade land is Grade 2 which occurs between Porthcawl and Pyle and runs as a broad, discontinuous band through the limestone and lias plateaux and up to Pencoed. This is interspersed with the more widespread Grade 3 land and patches of Grade 4 on downs. The southern uplands are generally Grade 4 with isolated patches of Grade 5 while to the north the pattern is reversed.

See Figure TA6

#### Landscape Designations:

There are two important landscape designations: the Glamorgan Heritage Coast and Merthyr Mawr and Kenfig Burrows Landscapes of Exceptional Historic Interest. The Glamorgan Heritage Coast runs from Merthyr Mawr dunes eastwards along the superb coastline of cliffs, wavecut platforms and beaches. Merthyr Mawr and Kenfig Burrows have been designated by Cadw/ICOMOS/CCW as grade I Landscapes of Exceptional Historic Interest [see Heritage section].

Ogive borough have defined Landscape Conservation Areas which are landscapes of value. The authority has also defined Green Wedges whose purpose is to separate settlements.

#### See Figure TA7

#### Countryside Access:

The existing strategic routes are the Ogwr Ridgeway and the Heritage Coast path. The proposed Sustrans National Cycle route linking Cardiff and Swansea, passes to the north of the borough in the Afan Valley. An alternative southerly lowland route, as part of a braided network, is being investigated at present

The borough has defined Community routes with Groundwork Ogwr which link the north of the borough with Bridgend, mainly along dismantled railways. These are to be completed as part of a Millenium funded project by Groundwork Ogwr.

These tie in with the borough's overall 'Strategy Promoting Countryside Access'

Areas of access deficiency are on the eastern and vale limestone planeaux coinciding generally with estate owned land.

#### See Figure TAS.

#### **Recreation and Amenity:**

Bryngarw is the key Country Park located centrally in the borough. It has a low key visitor centre with facilities, play areas, nature trails and will be tied into the community route network. The coast is the focus of most recreational activity either side of the tourist resort of Porthcawl. Visitor centres are located at Kenfig and Southerndown.

#### See Figure TA9.

#### Heritage Interest:

Evidence of changes to the landscape through history and rummants of successive human use of the land is patchy. As is often the case, evidence of earlier times are primarily found in relatively undisturbed uplands, the lowland remnants having been erased by subsequent generations.

The main items of historic interest are described as follows:

Prehistoric sites occur on mainly on the uplands. Bronze Age remnants include Mynnydd Caerau round cairns and the Bridgend Standing Stone. Iron Age features include Y Bwiwarcau, an extensive earthwork probably related to stock raising on the ridge west of Llangynwyd, Mynydd y Gner Hilffort and Dunraven Hilffort on the coast. Much evidence of the Iron Age Silures who were located on the fringes of the lowlands and valleys with some presence on the uplands has disappeared.

Roman remains are scarce: A Roman Road runs across the lowland partly on the line of the A48. This area was Roman border country with their influence mainly confined to the lowlands by the Silures.

Early Medieval traces are also few. The Bwich yr Avan Dyke is an earthwork consisting of a bank and ditch across the ridgeline. This acted probably as a boundary. Other early features include the Merthyr Mawr early. Christian Stones which suggest a Monastic settlement in the vicinity and the Coychurch Celtic Cross Shaft.

Medieval remains are more prevalent. The compart of South East Wales by the Normans involved the building of castles to consolidate gains. In the Study Area three were built after the second generation of expansion from 1090 onwards. These include Coity, Ogmore and Newcastle, the latter two to guard key river crossings. The Marcher Lords also set up religious institutions of which Ewenny Priory is an example. Other castles on fringes include Candleston and Llangynwyd. Overall, the impact of the Normans on the lowlands was significant and remains today with the imposition of a manorial structure and the creation of villages. The 14th Century was a time of troubles including plagues, Welsh raids, climatic deterioration and sand blow. This led to the shrinking of sottlement from marginal land. The Merthyr Mawr and Kenfig Borrows landscapes dated from these times.

The Study Area has a significant **Industrial Heritage** of ironworks [Cefu Cribwr, Bedford Works, Maesteg, Tonda], collieries and railways, most notably the Dyffryn, Llynfi and Porthcawl railway which linked the harbour with the ironworks. The Valleys settlements were primarily set up in this period dominating the valley floor and creating a new Imdscape of spoil tips and heavy industry. Schemes such as the Tondu Ironworks beritage scheme and the Garw valley railway are continuing the process of conservation of industrial heritage features. The damage of this era is now being rectified with reclamation schemes.

The Study Area has historically been divided between the Uplands/Valleys and the Lowlands and has at key times been a border area. The lowlands have been dominated by the incoming 'civilised' Romans and Normans and the uplands and valleys on the fringes dominated by border lords with strong native Welsh ties. The split in the borough has continued with 19th century industrialisation of the the valleys and its subsequent decline with manufacturing and settlement concentrating in the lowlands in the 20th century.

There are 63 Scheduled Ancient Monuments in the Study Area. There are grade 1 Landscapes of Exceptional Historic Interest at Merthyt Mawr and Kmfig Burrows. These were designated by Cadw/ICOMOS/CCW in 1995 because they contain remains beneath the encroaching sands of immense archaeological and historical potential from Prehistoric, Roman and Medieval periods.

There are five Parks and Gardens on the CADW register for Wales within the Study Area. They are Bryngarw, Court Colman, Glanchyd Hospital, Menthyr Mawr House and Tythegston Court.

Conservation areas are concentrated on the cores of villages and towns of medieval origin in the lowlands and at Llungymwyd and Llangeinor. Listed buildings have not been studied.

It is important to note that the above is based on limited information including Cadw's Schedule of Ancient Monuments, informal Borough Council records and other literature. Full information on non-designated archaeological sites has not been made available to the consultant.

See Figure TA12

#### 3.0 FIELD APPRAISAL

The landscape field appraisal was carried out in accordance with the Countryside Commission Guidance in CCP423. A standard field survey form was used to assess the landscape which included an annotated sketch, brief description, a checklist of the dominant landcover and landscape elements, landform, aesthetic factors, perceptions and impressions. A note was also made of potential issues which could be of relevance to the landscape strategy. Forty one viewpoints were selected covering the study area offering panoramic views of the surrounding landscape.

#### 4.0 LANDSCAPE TYPES

From the desk study and field survey, Landscape Types were identified [see Figure TA10]. These show a broad range throughout the borough from the Coalifield Plateau uplands and valleys in the north through friege areas of the strong east/west running Millatone Grit ridge, to the lowland valleys and Linestone and Liss plateaux and the coastal dunes and cliffs in the south.

#### 5.0 LANDSCAPE CHARACTER AREAS

Having broken down the landscape into understandable components we have defined areas of coherent landscape identity or landscape character. The following criteria have been applied to these areas.

Area associated with dominant landform e.g. valley, coast

Area associated with a dominant settlement/landcover pattern a.g. the valleys settlements, Bridgend

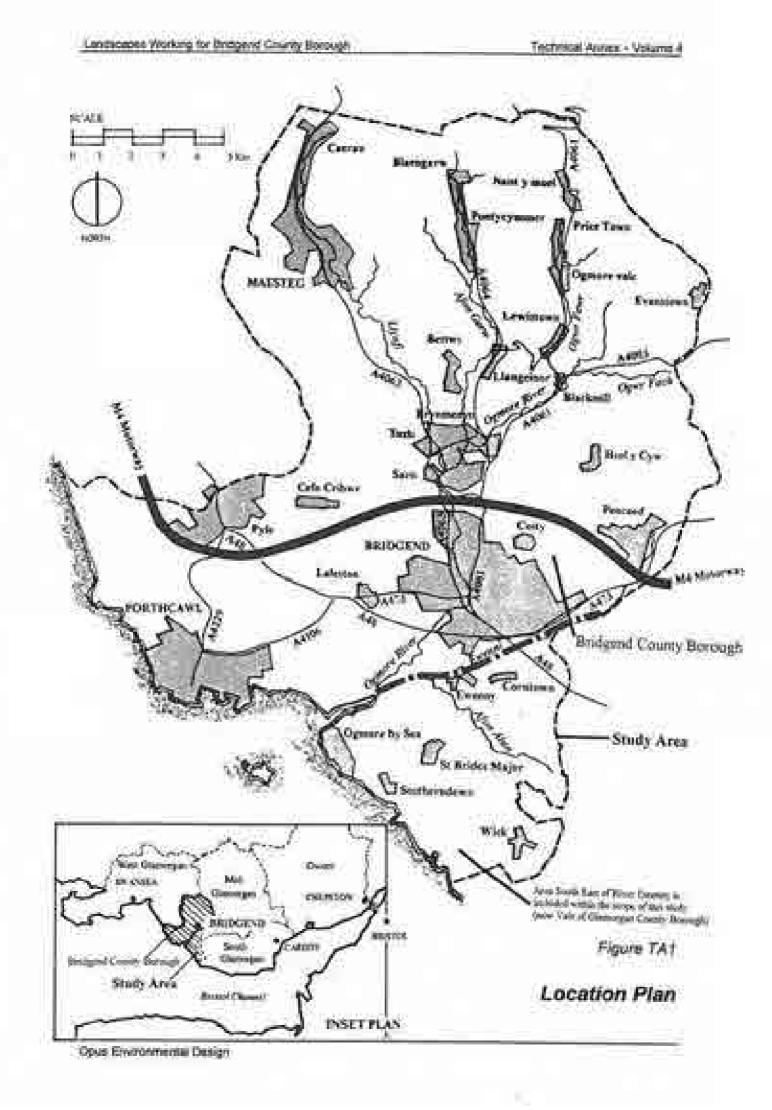
Area with consistent cultural or historical character e.g. the Valleys share a different history from the Vale.

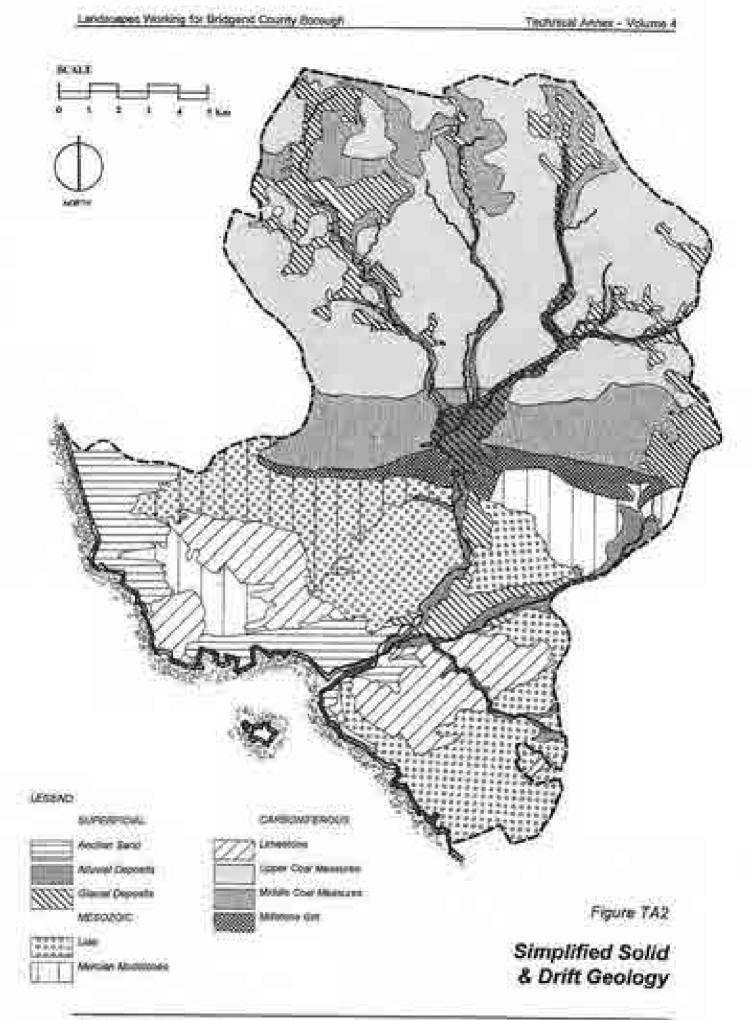
Area identified with a particular community e.g. communities in each valley have been physically separated by topography which han led to the development of separate identities.

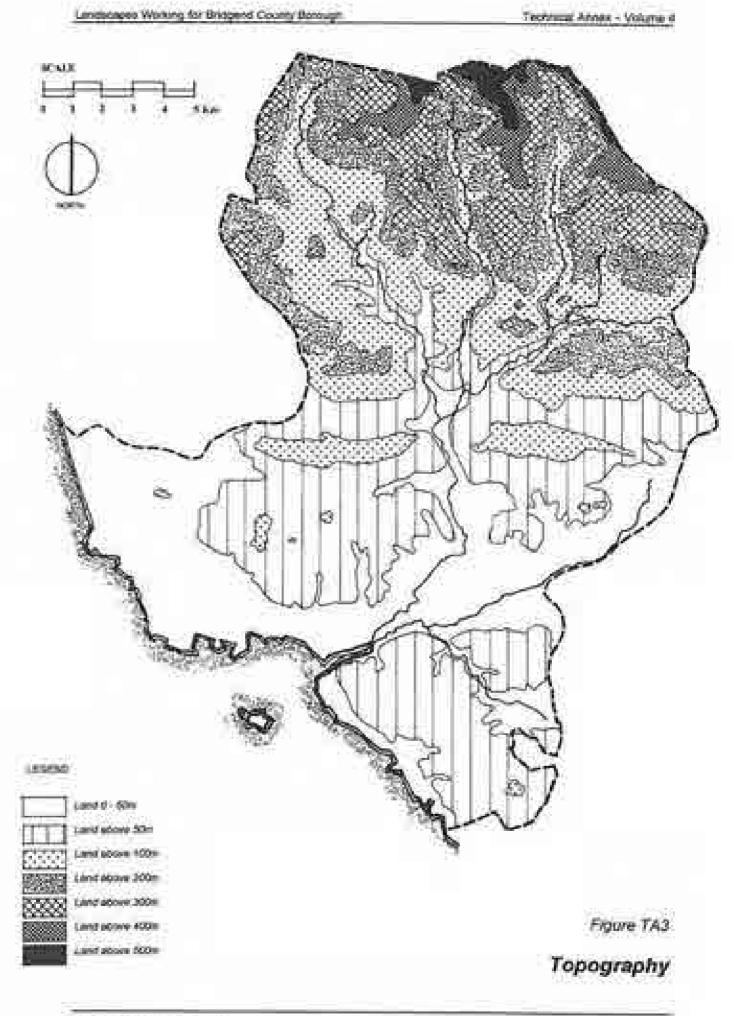
The historical and cultural aspects of the area have also been researched in books on local history and culture and in talking to commonity for aabout their areas [see Community Issues, Technical-Annex Section 8.0].

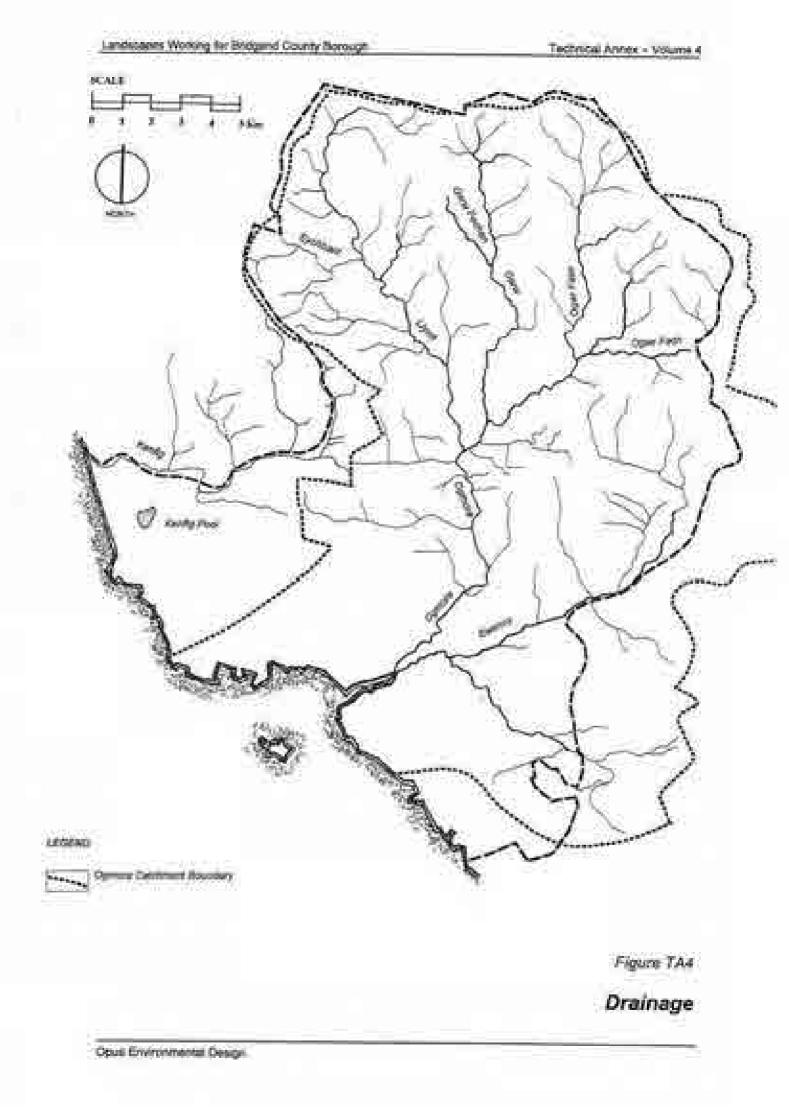
The Character areas defined are shown in Figure TA11

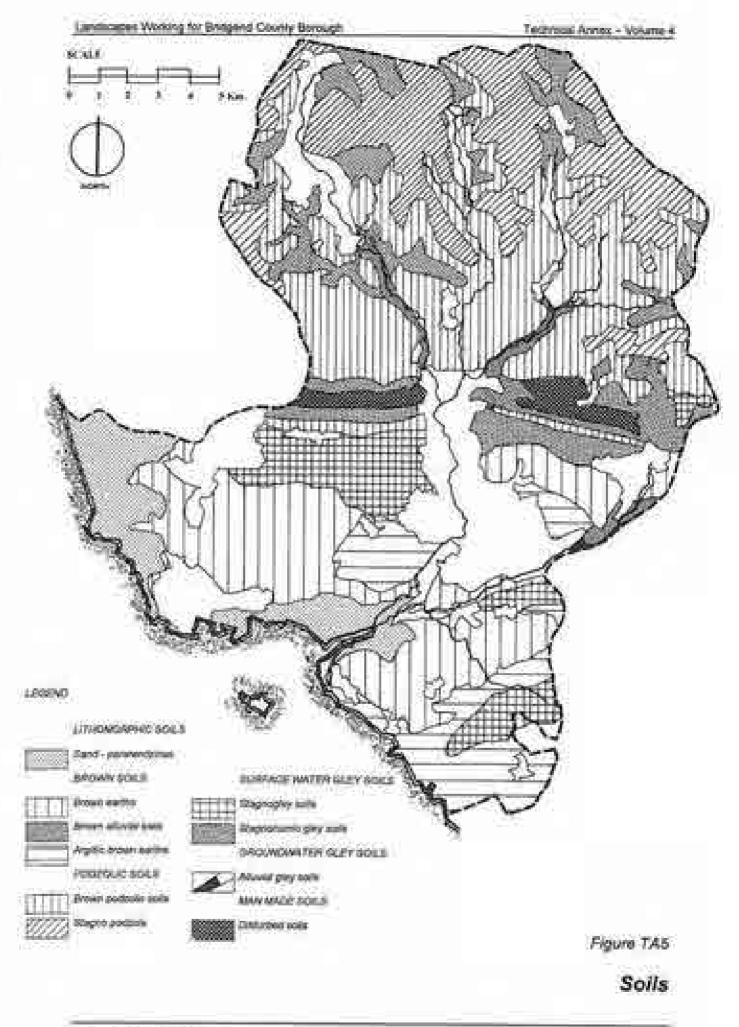
A primary purpose of defining the Landscape Character areas is to enable a strategy to be prepared at a detailed level which has relevance in reinforcing local identity. This is dealt with in the Main Strategy Report Volume 1.

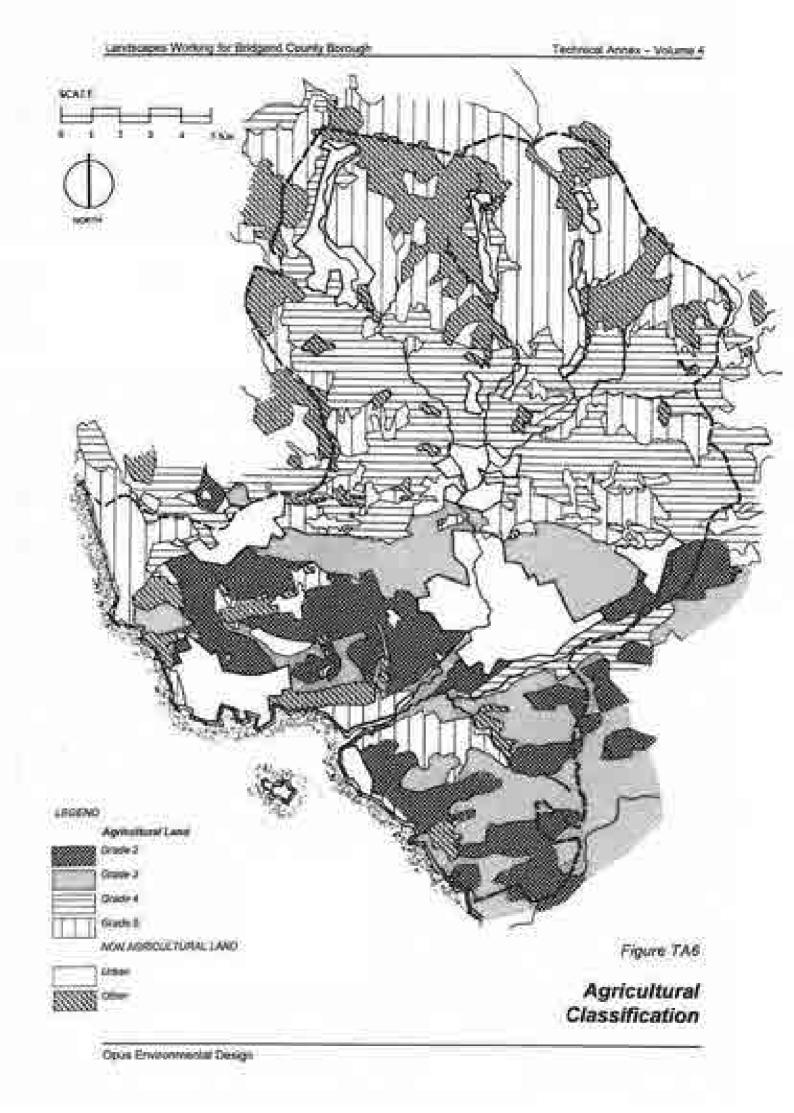


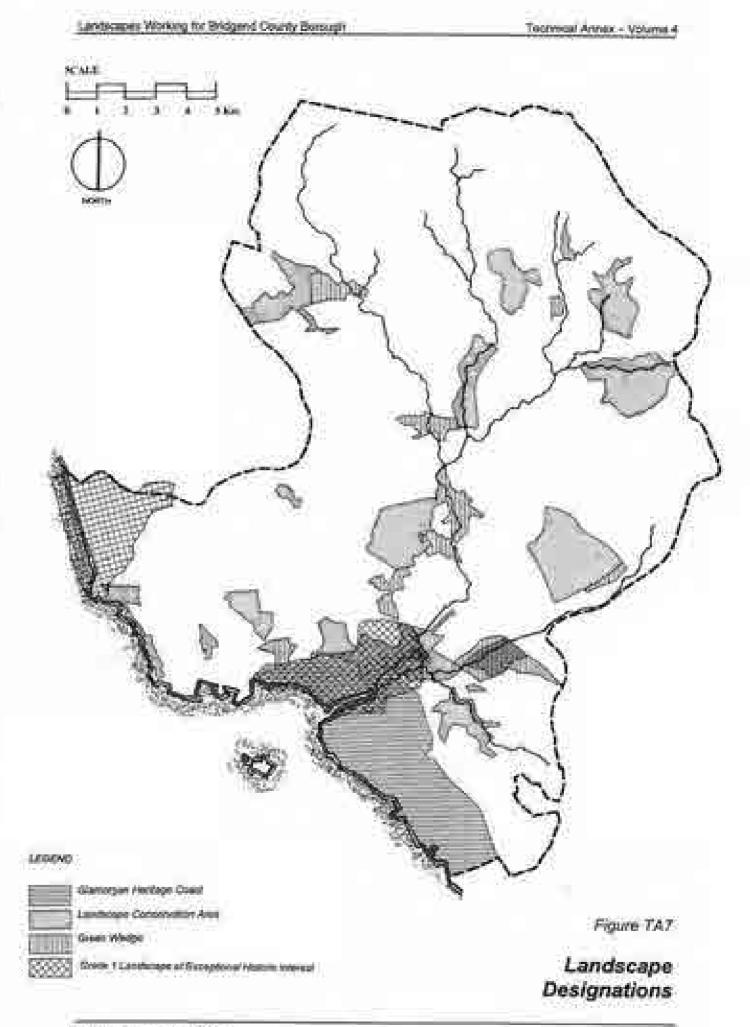




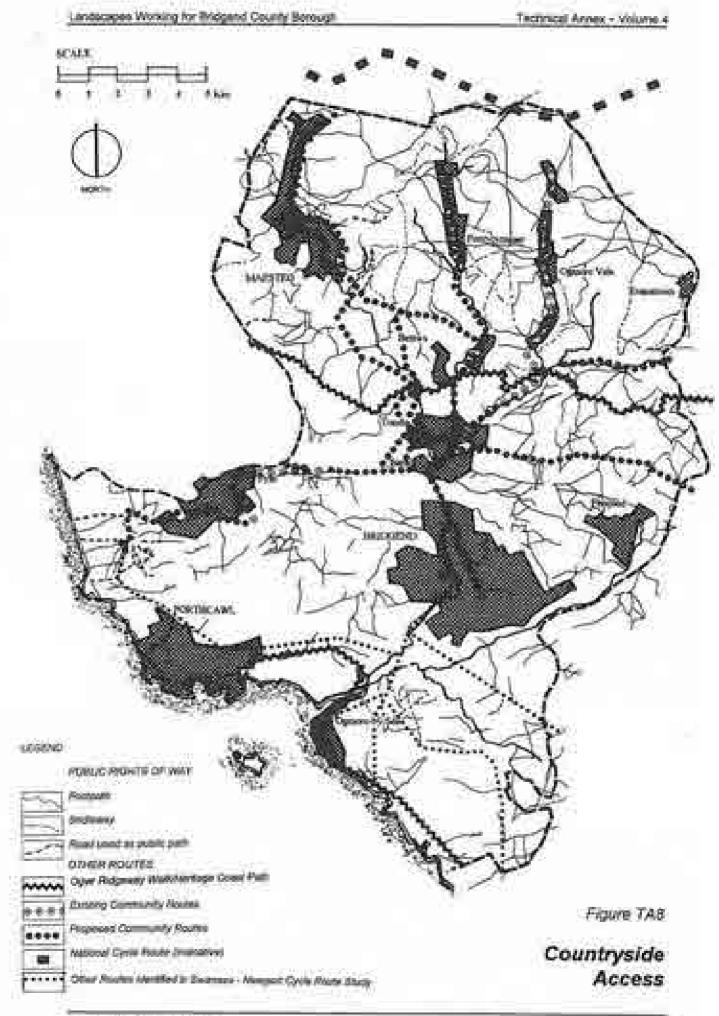


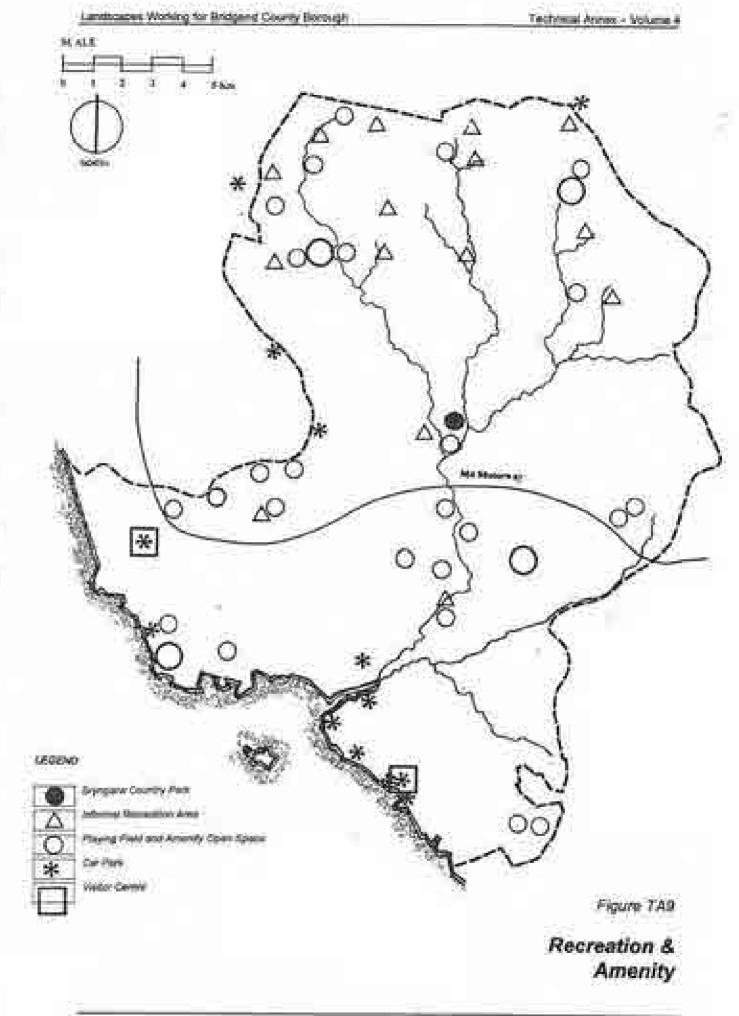






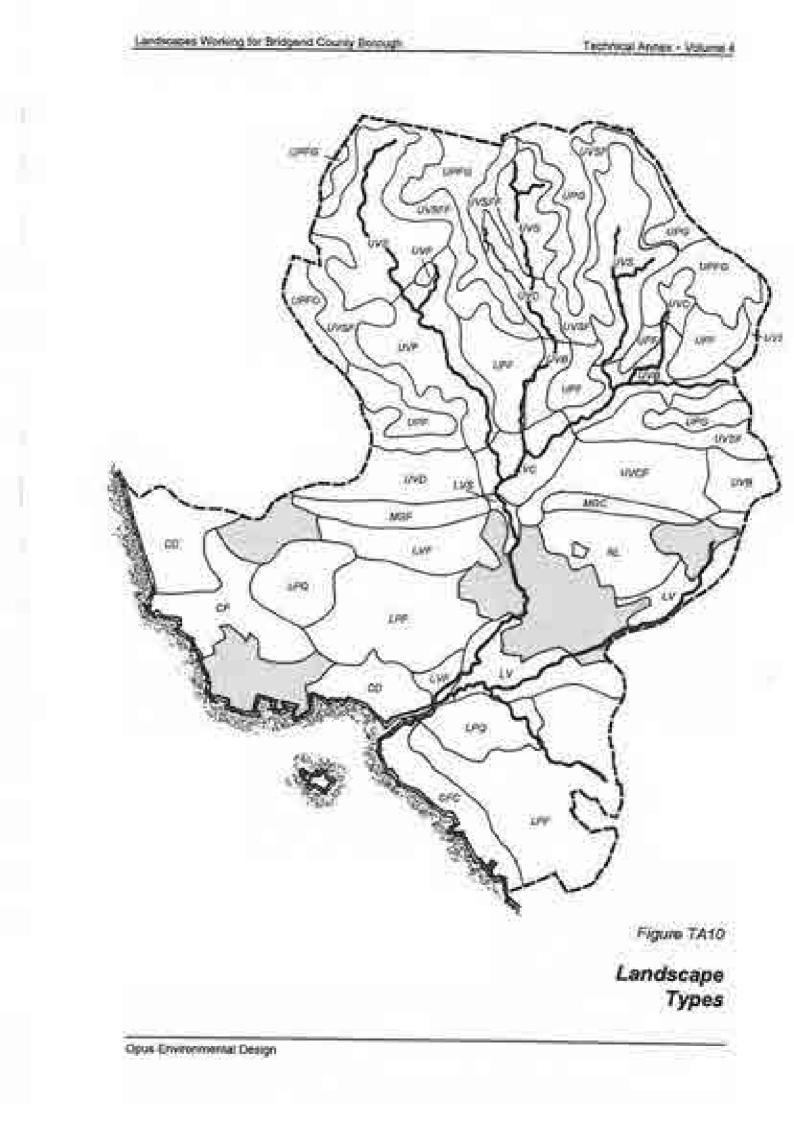
wegn

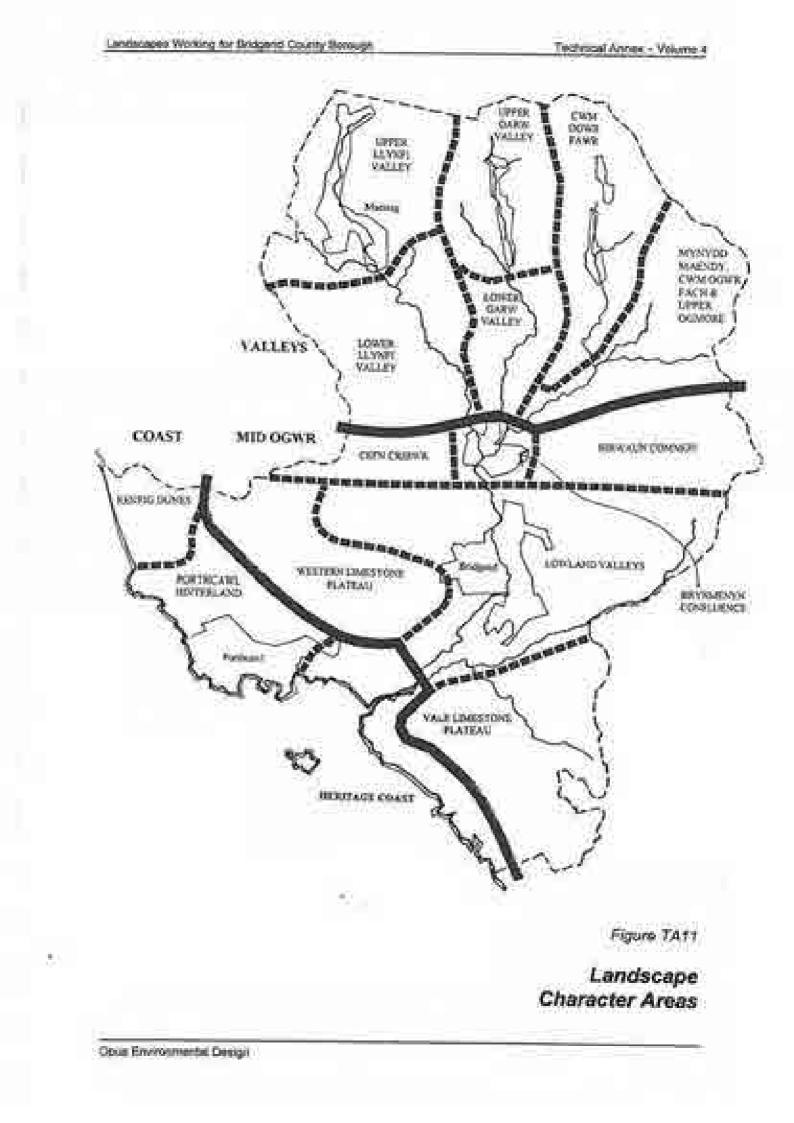




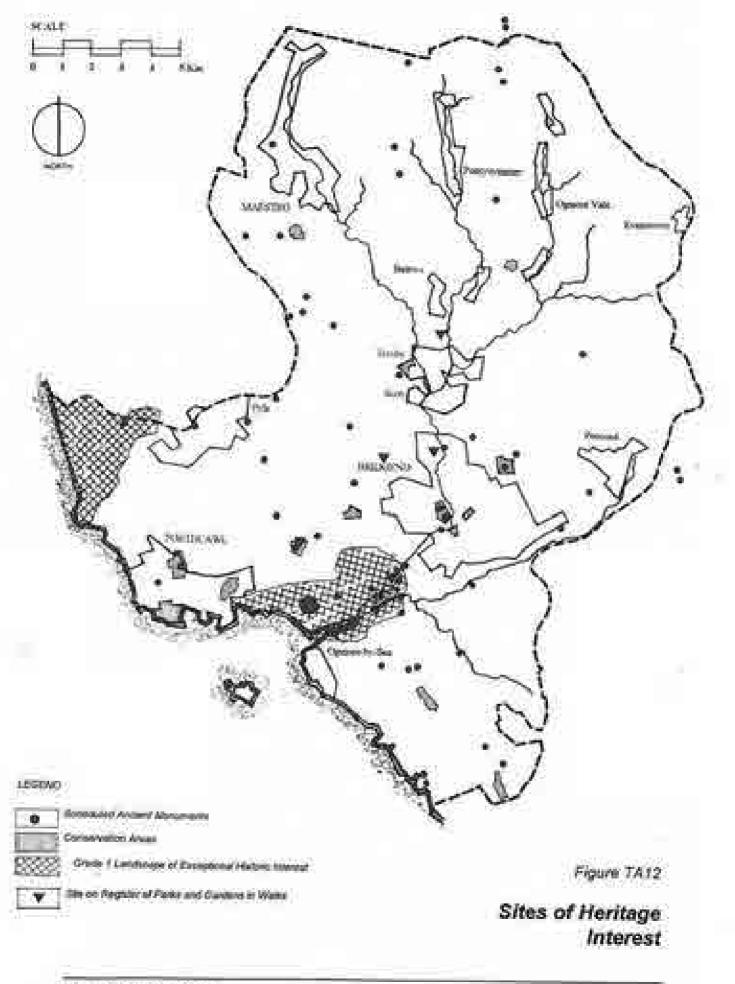
#### LEGSNO. UPCANDE OPE Uprend Planae Acid Graussing 1040 Ligamet Plateau with Ferrady and Anist Chanatave Design of **Uprand Phatasa Pontisco** 14960 Mound Children with Fernalty USE: Motional Pringin Phatman with Planmand Mac Aldebre Get Aloge with Ably Charment . 10.00 Militane Grit Niccos with Farmund GIVES. Lipland Fringe Valley with Disturbed Lexitorage VALLENS White Villey will Software and Distative Landscape 090E date: **Million Milliony with Planmanet** USU: Withind Vallay with significant Disastual Woodland and Farming 197 Coriner Valley with Conference Woodland and Rough Greesland Opiand Fringe Visitey with Districted Landsman 0701 Volumed Fringel Vallay with Common and Farmigna WVCF-NG. Valley Configures with formerical and Litter Frings Parmand WWW. Lipper Valley orders will: 7 antihand and Forestry and the Upper Very state with Partness Louisod Veley will Sellement 115 1.94 Losiand Valley with Palmiland 0.77 Loniarsd Surley with Fairnland and eleoslished 128 Plateav with Permand and Woodland (PG) Unrestow Plebay with Woodand and Querres 1662 Rolling Lowland Farmland with Woodband COAST 640 Couldrag furnission with Cartal 64 Calanter Permitted at Low Clevenan

CO Coasar Ounes











Ceological Appraisal SECTION 3.0

## 3.0 ECOLOGY AND NATURE CONSERVATION

#### PART 1 - INTRODUCTION

This technical annex provides an overview of the nature conservation resource provided by the distinctive assumblage of wildlife habitats, communities and species of flora and facus that are present within Ogwr. The aim is not to provide a comprehensive review, but to illustrate the variety of features that are present, and io establish some of the principal relationships between geology, clinate, wills, drainage, landform, landuse and landcover that have developed a distinctive pattern of features of nature conservation interest. The review is followed by the plansing policy centext in relation to nature conservation and strategy proposals including the establishment of a Biodiventity Action Plan and Countryside Management Service. A schedule of the proposed SNCIs derived from the Ogwr Wildhife Strategy with location plans is included. A bibliography is set out at the end of the document for reference. The annex is divided into the following parts:

- Part 1 Introduction
- Part 2 Summary Biodiversity Profile of Study Area
- Part 3 Outline Nature Conservation Review [of each Landscape Character Area]
- Part 4 Planning Context and Strategy Proposals
- Part 5 Proposed SNCIs Sobodule
- Part 6 References

The review has been undertaken in support of the landscape assessment to identify the prime features of the nature conservation interest and to establish the key issues relating to the conservation, enhancement and consolidation of this resource through a thanework of protective and proactive policy recommandations.

The review has been compiled from a variety of sources, and these are cited in the text. An outline biodiversity profile for the Borough is provided as a summary of the review, which is followed by an outline of the prime features of interest that comprise the name conservation resource of each landscape policy area. An outline is provided of the key issues regarding biodiversity conservation within each landscape policy area, accompanied by a review of the principal aims and objectives to be considered in addressing these issues.

#### METHODOLOGY

This review draws from information derived from a desk study of existing information and from recommissance field surveys undertaken for this appraisal. Details of these stages are outlined below

#### Deak Study

Existing information on the same conservation resource of Ogwe has been compiled from consultation with a variety of individuals and organizations. These are as follows:

- Glumorgas Wildlife Trust, Conservation Officer,
- Glamorgan Wildlife Trust Reserves Management Officiar;
- Glassorgan Heritage Coast Project Officer and Rauger Service:

- West Glanicepan County Council Ecologist.
- Kenfig Borrows National Nature Reserve Project Officer;
- Countrysade Council for Wales Area Officers;
- Countrystde Council for Wales Phase 1 Habitat Serveyor;
- Countryside Council for Wales Phase 2 wagetation surveyor.

Consultation with these individuals has provided access to the following principal sources of information:

- An Inventory of Rare, Scarce and Notable Vascular Plant Species in the County Borough of Bridgend (1996);
- Submission for Wales Bindiversity Plan, Glamorgan Wildlife Trust Consurvation Committee (1996);
- Citations and citation maps for Sizes of Special Scientific Interest within Ogwr and for the Kenfig Burrows National Nature Reserve;
- Recommendation for possible Special Area of Conservation as Kenfig Pool and Denes and Membyr Mawr Sizes of Special Scientific Interest;
- Giumorgan Wildhife Trust Phase 1 Habital Survey Maps (1992);
- Countryside Council for Wales Phase 1 Habitat Survey Maps and Target Notes for lowdard areas
  ().
- Phase 2 Vegetation survey profiles for semi-matural lowland pressland sites;
- Biological Surveys of Common Land No. 20 Mid Glamorgan, CCW Ruml Surveys Research Unit (1991).
- Glamorgan Huntage Coast Plan Statement (1975) and Annual Report 1994/1995;
- Upland Vegetation Servey No. 22 Mid Glassorgen Uplands, Nature Conservancy Wales Field Unit (1985);
- Survey and monitoring of the Brending Status of the Marsh Frinillary in Mid Glamorgan, CCW Contract Science No. 73 (1993);
- An Introduction to Kenfig NNR paper presented at fifth EUCC meeting, Cardiff (1995);
- A Widdlife Strategy for Oger Groundwork Oger (1993), including a schedule of provisional Sites of Nature Conservation Interest.

In addition to three sources, additional information his been obtained from frequent discussions with the consulters listed above. In addition, constitution with the Glamergan Wildlife Trust has provided access to a manuary nature conservation review of Ogwr that draws from the following additional sources:

- Nature Conservancy Council Wetlands Survey 1977-1984;
- Nature Conservancy Council South Wales Open Water Survey 1981;
- Nature Conservancy Council Uplands Survey 1982-1983;
- Nature Conservancy Council Meadow Survey 1985-1986;
- Nature Conservancy Council Ancient Semi-autoral Woodland Inventory 1986;
- Nature Conservancy Council Woodland Surveys 1981-1989.

#### **Field** appraisal

To supplement the information provided by the sources listed above, and to identify key strategic intues, areas of Ogwt readily accessible by car were visited during January 1996. A sories of target notes were taken at locations throughout the landscape character areas to enable a broad characterisation of the biodiversity resource, and to record the principal insues, strategic aims and objectives for each area.

#### Limitations

Dat to time constraints, a comprehensive review of existing information or an exhaustive programme of field apprainals has not been possible. Consequently, the Summary Biodiversity Profile and Outino Nature Conservation Review presented in the following sections aim to provide a digest of key points rather than a definitive appraisal of the nature conservation resource of Ogur.

### PART 2 - SUMMARY BIODIVERSITY PROFILE OF STUDY AREA

Collation of information from the sources listed above has enabled the preparation of an outline biodiversity profile for the Seidy Area. This aims to indicate the location and extent of core areas of biodiversity interest in terms of tracts of countryside that comprise notable wildlife habitats, plant and minuted communities and species of flora and fauna. In these areas, wildlife habitats are present either as a continuous matrix or a contiguous activity of babitat patches connected by a meth of linear habitats.

The biodiversity resource of the Study Acea has been summarised as a series of Key Areas of Biodiversity Interest, and these shown on plan no. xxxx, Ecology and Nature Conservation. This indicates the following general points

- in general terms, core areas of biodiversity interest are present within the Valleys, Mid Ogwr and Coast landscape policy areas
- the biodiversity resource is most fragmonied and marginalized within the Mid Ogwe Landscape Policy Area;
- on the high level land within the Valleys Landscape Policy Area and along the maritime fringe of the Coast Landscape Policy Areas, core areas of biodiversity interest are relatively continuous.

Within the Valleys landscape policy area, key areas of biodiversity interest are generally associated with extensive tracts of upland acid grassland on upper valley sides and along ridgelines. In places, vegetation in this area is modified through agricultural improvement, but retains extensive areas of grassland with strong semi-natural character. In these areas, babitat diversity is provided by the occurrence of rock onicrops, scree and areas of heathland vegetation. Biodiversity inserest extends along re-entrant valleys, associated mainly with semi-natural broadienved woodland and riparian habitat.

Lower sections of the Valleys landscape policy area are of particular importance for broadleaved woodland and grassland habitat of strong semi-natural character, associated with postions of river oursider generally subjected to low intensity development pressure.

The Mid Ogwr landscape policy area is notable for contiguous area of diverse biodiversity character. This includes low-level outliers of acid grassland, with locally extensive tructs of semi-estaral wet grassland of considerable nature conservation interest. Riparian semi-natural woodland is an important element of Key Biodiversity Areas within the Mid Ogwr landscape policy area. Towards the coast, areas of biodiversity interest are fragmented by locally extensive agricultural improvement, and are mamly associated with localised areas of uncultivated grassland and corridors of semi-matural riparian woodland and grassland associated with a series of river salleys.

The maritime margin of the Coast landscape policy area is a vertually continuous area of significant biodiversity interest. Most of the maritime margin is undeveloped coastline, protected from significant change by a variety of protective designations, in constant to a localised section of developed coastline at Porthems1.

## **PART 3 - OUTLINE NATURE CONSERVATION REVIEW**

This section provides a systematic seview of key features of nature conservation interest and the principal strategic issues for nature conservation within each of the landscape character areas within each of the Landscape Policy Areas

The following landscape character area reviews have the following structure:

- Description, providing a physiographic review of each landscape character seen, followed by a description of the principal wildlife habitats;
- Key issues, identifying the most preminent issues for consideration by policies for eeology and nature conservation;
- Key must, providing a translation of the key issues into a series of policy sime;
- Key objectives, identifying a series of practical activities to be encouraged through policy mechanisms to address key issues for ecology and nature conservation.

5.1

#### UPPER LLYNFI VALLEY

#### Description

#### Physiographic overview

This area extends south from high ground at around 300m AOD at Blaancurns, as far as Cwenfelin, south of Massteg at around 121m AOD. The eastern boundary of this area follows the creat of the undulating ridge defining the main watershed between the northern Llynfi Valley and the northern section of Cwen Gurw to the sust. The boundary extends from the assumet of Myoydd Caeran at 556m AOD in the north, failing across a relatively well-defined ridge to Feel Gwilim Hywel at 434m AOD to the south. From this point the boundary continues to a low names above Brytalefaid where the boundary leaves the main ridge, following a steep spir to cross a saddle tear the head of Cwen Du before rising to the summit of Gaeth Hill at 257m AOD.

From Garth Hill, the southern boundary of the Upper Llynfi landscape character area falls across steep land to cross the flood plain of the River Llynfi between Cwmfelia and Pont Rhyd-y-cyff at around 120m AOD. From this point the boundary rises across steep slopes to the summit of Moel Treed-y-Rhew (218m AOD) before rising along a dissected ridge that defines the watershed of Cwm Cerdin. The boundary continues to follow this ridge until the main Administrative Boundary above Cwm Kenfig to the west.

The main valley is well-defined in the north, with storp valley sides enclosing the valley bottom flood-plain between prominent hilhops of Feel y Dyffryn and Gum Wen to the west and Mynydd Bach to the east. At Maesteg, however, the valley sides are interrupted by the main re-entrust valleys of Nant y Crymwydd to the uest, and by a broad, indistinct valley between the promisent landforms of Mynydd Bach and Garth Hill. South west of Maesteg the east facing valleys side of the Llynfi Valley is dissocied by a distinct side valley of Cwm Sychbani.

This is an area of complex prological characteristics, with highest land comprising Upper Coal Measures, with complex dip characteristics, forming distinctive landloens at Mynydd Bach, Foel y Dyfryn and Waan Lluest-wen in the soath west. Upper valley sides below Mynydd Bach and Gurn Wen comprise frequently bedded Middle Coal Measures, with upper valley sides elsewhere consisting extensive Boulder Clay deposits. Boulder Clay extends across lower valley sides and valley bottoms within principal side valleys and the main Llynfi valley sorth of Maesteg, with well-drained allovial deposits present across the main valley bottom at Maesteg.

The variety of soils within the Upper Llynfi landscape character area are closely related to the distinctive geology of the area. Upper Coal Measures on highest land generally support fixely-draining and strongly leached acide ferrie stagsopodeols, and typical between podeols, both with slowly decomposing penty topicola. These soils extend acrois the Middle Coal Measures, grading into locally extensive slowly permeable, elayenriched cambic stagogohumic gley soils with penty topicols formed over glacial boulder clay deposits on lower valley sides and valley bottoms. Within Maesteg, freely draining, coarse and fine loany brown alluvial soils have developed over valley bottom alluvial deposits.

#### Principal wildlife habitats

In the north of the Upper Llynfi valley, the generally acute topography at Blanncaerau has prevented significant landcover modification, and hard development is typically confined to the valley bottom. Lower valley sides support significantly modified vegetation, with spoil heaps and locally extensive areas of improved agricultural grassland. Upper valley sides in this area support less intensively modified wildlife habitats comprising vegetation of distinct semi-natural character, typically acid grassland, and including Purple Moor-grass with Deergrass. Heither, Cross-leaved Heath, Sheep's-fesces and Matrass. The semi-natural vegetation has a significant element of Beaclam cover, and locally extensive Goese semin.

At highest levels, semi-mature to mature Larch and Norway Spruce forestry has had a notable modifying effect on features of nature conservation interest. In these areas, features of nature conservation interest are mainly fragments of semi-matural acid grassland along rides, within clearings and along edges of the plantation blocks. In places there is significant Bracken cover.

Betwen Blamcaruu and Dyffryn, verges along the A4063 support a distinctive mosaic of acid grassland acid dry heath vegetation, with extensive early mature phase Heather vegetation. Locally patchy sections of Bracken and Gorse are present, but are not significant detractors.

Land on valicy sides above Dyffryn is of some nature conservation interest, with frequent stature broadleaved trees along a network of well-defined hedgerow field boundaries, and blocks of broadleaved actd Osk woodland with Booch and Sycamore present on lower slopes, over rough actd grassland. Land in this area is uneven, providing topographic variety, reflected in variations in drainage conditions and vegetation structure. However, woodland generally has a uniform, open structure, where grazing is apparently significant in suppressing woodland regeneration.

Lower level woodland blocks have some features of note in terms of diversifying the babitat structure, including localised rock outcrops and mine spoil, with a number of small re-enstrant stream valleys disacting the main Llynfi valley side.

At Nantyffyllen, fastures of sum-natural interest along the valley bottom and lower valley sides are almost ontirely replaced by residential and industrial development, and lower valley sides are significantly modified by spoil douping.

Upper valley sides support extensive rough grazing on marginally improved grazsland with a weak system of field boundaries. On highest level land, some features of semi-natural interest comprising localised senas of senis-natural acid grassland with locally extensive Bracken cover are retained where locally aggressive topography on coarser spoil heaps and localised rock outcrops occur. Commercial forestry is a significant feature on higher valley sides, where features of some interest are associated with diversifying elements such as small stream valleys, and rock faces such as the significant outcrops at Durren y Bannas.

The Llyufs channel at Nantifylien is not significantly modified, retaining an apparently natural meander physiography, and local sections of scattered Goat Willow scrub with Ash over sumi-appatic marginal vegetation. The river channel has sections of unised rocky channel with a good riffle-pool structure, and the combination of these elements retentains significant riparian habitat interest along upper sections of the Uyofi, sumaining relatively intact as far as the edge of Maester.

Formory at gami Wen oreases a potential purch point in the continuity of open, non-formsted land with wildlife habitat structural diversity and ecological interest below Peo y Llan In this area, a small stream channel passes through a narrow strip of land occupied by a scrap yard/waste tip between the conifer plantation and adjacent developed land along the lower valley sides and valley bottom

A significant cover of mature phase Heather is present along steeper sections of the lower Llyafi valley in this area, with strong semi-natural character and nature conservation interest. In contrast, colliery spoil on lower valley sides east of Nantyffyllon has been planted up extensively by the WDA, using a uniform matrix of standard trees

Along the B4282 is a well-defined side valley of the Upper Llytifi landscape character area, with a variety of land uses reflected in a diverse land cover. Manateg golf course has created an extensive are of tignificantly modified vegetation with negligible nature conservation interest, in contrast to adjacent rough grazing on rash pastare, retaining localised features of armi-natural interest. Grassland characterized by abundant Purple Moor-grass is locally abundant on lower valley side and valley bottom areas, often present in conjunction with areas of scattered and dense Willow and Hawthern scrub, providing features of some semi-natural value. The Willow scrub also includes an element of Oak woodland, following the stream channel, and in combination with the Purple moor-grass vegnation emans an area of Oak-Willow care woodland.

Extensive mature confer plantation woodland is present on upper sections of this side valley, with features of nature conservation value generally confined to rock faces and rides where some semi-natural vegetation and features of wildlife habitat interest survive.

Above Maesteg is a relatively well-defined valley below Feel Gwilym Hywel, with modified vegetation comprising pasture with locally significantly improved grassland on the valley bottom. Fields are generally defined by lines of low Sessile Oak and Holly trees, merging into a strip of locally submantial woodland along the valley bottom comprising Silver Birch, Holly and shrubby Willows. Semi-natural grassland is also present on the valley sides, comprising Boot-Fescue-Matgrass vegetation with sections of Parple Moor-grass.

Opper valley sides support agenticant scree exposures enclosing extensive belts of Bracken alternating with scattered scrub and acid grassland, modified through moderate grazing pressure. At the valley head there is an extensive conifer plantation with localised features of some nature conservation interest associated with rides, glades and rock outcreps.

The adjacent valley below Garth Hill includes a woodland SSSI, and Nant Cwm-du has localised features of sensi-matural broadleuved woodland interest. There is sufficient broadleuved woodland interest in this mea to make it one of the more valuable areas locally for the conservation of sensi-natural woodland wildlife habitat.

#### Key innes

- Forestry, agricultural grassland improvement, industrial/residential development and colliery wants disposal has reduced features of significant nature conservation interest to a series of localized fragments.
- Features associated with past mining activities such as rock outcrops and spoil heaps have developed vegetation of strong semi-natural character.
- Features within conifer plantation woodland such as rides, clearings, streams and rock onceops provide some habitat structural diversity.
- Within areas of notable wiidlife lubitat, a lack of appropriate management is recoiling in significant Brackm cover, and the development of structural uniformity within grasshand vegetation of seminatural interest on upper valley sides.
- Semi-matural broadleaved woodland habitat is localized on lower valley rades and is scattered along the river channel.

- Re-courant valleys provide areas of some local woodland and gravitand wildlife habitat mareat, including an area of antionally important broadleaved woodland habitat at Gaeth Hill.
- Road verges within higher sections of the valley support acid grassland and heathland vegetation of strong sensi-natural character
- Field systems on lower valley sides are defined by weak networks of gappy, undermanaged hadgerows.
- The Afon Liyufi is not significantly modified and is of some namere conservation interest, supporting siparian scrub and grassland vegetation.
- Local justaposition of development within the valley bottom and forestry on valley sides roduces the continuity of notable wildlife habitats along the valley.

### Key alou:

- The conservation and enhancement of existing areas of woodland and grassland wildlife babitet of nature conservation interest, minimizing further losses of somi-natural vegetation through development within sensitive sites and through inappripriate vegetation management
- Within areas of conter plantation woodland, maximise the residual value of habitat fragments of semi-natural interest that survive along rides and within glades, and diversify the plantation woodland structure and composition.
- Enhance the continuity of widdlife habitat along valley sides and the valley bottom.
- Biodiversity enhancement within land in upper valley side and on valley tops, minusisting further conversion of valuable semi-natural wildlife habitat to productive agricultural uses such as improved grassland.
- Enhance and consolidate remnant semi-natural vegetation along road verges.
- Maintain and diversify the quality of squatic and semi-squatic wildlife habitat, flora and finana along the Afen Llynfi, conscidate and enhance the field boundary bedgerow pattern on valley sides and within re-entrant valleys

- Undertake ecological assessment and management planning of core areas of wildlife habitat, with the objective of identifying coherent countryside management lastis, focusing on woodland, grassland and riparian habitat, to identify vegetation management priorities.
- Estuates the existing woodland wildlife habitat resource by provision of stock-proof exclosures to
  encourage natural regeneration, and by undertaking appropriate habitat management.
- Consolidate the causing woodland wildlife habitat resource through extension of woodland areas by tree and slavib planting on adjacent significantly modified grassland uses, to provide woodland strips and outlying woodland blocks to increase the connectivity of broadlen of woodland habitat.

- Hedgerow rejuvenation to be achieved by planting within stock-proof exclosures to consolidate hodgerow structure and composition, with subsequint sensitive management to diversify habitat structure and composition.
- Enhance areas of existing granuland wildlife habitat interest by appropriate management, and cossolidation of existing areas by conversion of adjacent productive agricultural land to granuland of setta-natural character.
- Undertake water quality monitoring within the Afos Llysfi for water resource conservation and management planning, and undertake aquatic and semi-aquatic riparian vegetation management and habitat diversification through creation of reedswarp and inundation vegetation.
- Undertake assessments and management planning of remnast sensi-natural vegetation along road verges.

## LOWER LLYNFT VALLEY

#### Description:

### Physiographic review

This area extinsis from the southern boundary of the Upper Llynft landscape character area as far as Coytraises in the south, at around 50m AOD. The castern boundary follows the southern section of the main ridge defining the watershed between the Llynft valley and Costs Garw to the east. This abuts the Upper Llynft landscape character area at around 300m AOD above Bryndefaid, continuing across a dissocted ridgeline to Craig-yt-hudol before failing across steep alopes above Brithdir to around 150m AOD. From here the boundary passes to the west of Bettwa and continues sowards the Beyngarw Constry Park at around 100m AOD. From Beyngarw, the southern boundary of the Lower Llynft landscape character area crosses the River Llynft valley bottom at Coytraben before rising steeply to follow the prominent ridge of Myrodd Baedan at 251m AOD. From here the boundary continues to the west, falling across steep slopes above Nant Craigyraber that marks the main administrative boundary.

In contrast to other main valley systems within Ogwr, the main valley of the River Llynfi is less distinct in this area, as the valley sides are dissocted by frequent, well-defined re-entrant side valleys, creating a landform of roundid spirs between incised valleys. Prominent high level landforms enclosing the main valley are associated mainly with Waim Linest Wen at 316m AOD, Moel Troed-y-Rhiw at 218m AOD and Garth Hill at 259m AOD in the north, with Moel Cynhordy at 346m AOD in the north cast, Craig-yr-hudol at 355m AOD in the east, Mynydd Baedan at 251m AOD in the south and Mynydd Ty-thwyn at 241m AOD in the south west.

Principal side valleys are those at Cwm Du in the north west, flowing between Ganh Hill and Moel Cynhordy, Nant y Gadlys draining valley sides above Llangynwyd and belew Mynydd Ty-talwyn and Cwm Cedfyw draining land below Moel Cynhordy and Craig-yr-hudol. The interflower between these valleys are farther dissected by smaller produtation.

The goology of this landscape character area is dominated by an extensive, heavily dissocted plasma of Upper Coal Measures, extending across billops, ridges and valley sides. In the north of the area, lower valley sides support glasmal boulder clay, extending along lower sections of Nant y Galdys, Nant Cwm-da and Cwm Cedfs: Recent, well-drained alluvial deposits are present along the entire valley bottom of the main Llyufi valley. A geological feature of significance in shaping the scenery of this area is a fault line, corresponding with lower Cwm Cedfia, where low-lying undusting land below the foot of steep slopes between Craig-yrbudel and Beymonyn is present on the downthrow side of the fault.

The principal soil types within this area closely reflect the geological characteristics. Widespread freelydraining and strongly leached acidic typical brown podeols with alowly decomposing peaty topsoils are present across extensive areas of the main valley sides on Upper Coal Measures, with locally extensive slowly permeable, city-spriched cambic staggeolannic gley soils with peaty topsoils over glacial boalder clay deposits on lower valley sides in the north of the area. The valley bottom alluvial deposits support freely draining, coarse and fine loamy brown alluvial soils.

# Principal wildlife habitatz

Nant Bryncymm is in a well defined, distinctive valley to the north of this area, of particular value for the conservation of significant areas of aemi-natural broadleaved woodland. This is present as core areas of semi-natural woodland and outlying secondary woodland sites, with some connectivity provided by strong field boundary bedgerows. Core woodland areas comprise woodland near Bryncynan, along Nant Bryncynan

### and adjacent tributary valleys

Woodland in this area comprises a distinctive Oak-Ash canceys over Hazel, typically with notable habitat structural diversity, and associated with valuable complementary habitats such as the riparian channel habitat of Nate Bryncynan. This has a well-defined meander physiography, varied riffle-pool channel bed features, enclosed by a combination of woody vegetation, and sections of low-lying flood plain wet grassland. There is occasional evidence that coppleing may have taken place on an ad-hoc basis in the past, but past management of the woodland blocks is not obvious, and many have developed a high forest structure.

The field pattern in this area is locally modified to a system of relatively large fields with frequently transed hodges along field boundaries. Many fields support modified grassland with little semi-natural character, but in planes the grassland has retained some anno-natural interest. Hodges in this area are distinctive in that they comprise Oak. Ash, Holly and Hanti, are closely associated with adjacent woodland habitat, but are frequently trimmed to a uniform structure, which is a general loss of nature conservation value.

Along the Liynfi below Post Rhyd-y-cyff, the valley bottom is of particular value for the conservation of woodland wildlife habitat, including significant continuous blocks of semi-natural woodland along the Liynfi flood plain. Woodland in this area is generally Oak-Ash high forest with no obvious management history, and with local Alder valley bottom woodland over reedswamp vegetation. This combination of semi-natural habitat types is of ecological interest and of considerable sature conservation value.

Extensive fields of significantly modified agricultural grassland occur adjacent to these woodland blocks, and these are enclosed by field boundary bedges that are of some local interest supporting lines of metare bedgerow standard bedgerow Oak and Ash trees with a scattered understorey of Hawtheen, Elder and Hazel

To the out of the Lower Llynfi, Nant Codfyw is enclosed by an extensive valley bottom woodland strip supporting semi-natural broadleaved woodland of considerable ecological interest and nature conservation value. The woodland is not obviously managed and has a well-developed, varied structure including Oak catopy standards with a sub-catopy of Downy Birch over a shrub layer of Hazel with occasional Oaelder Rose and Holly, and regeneration of woody species is prolific. The Nant Cedfyw is a fast flowing watercourse with a well-defined meander physiography and flowing through a story substrate. The flow is turbulent, with good riffie-pool formations and likely to be of value for aquatic macromvertebrates.

Land enclosing Nant Cedifor comprises early successional woodland and scrub with a series of well-defined wooded hedge banks defining a small scale field pattern. Hedge banks are occasionally in a deteriorating condition where the shrub element has been lost and where the field boundary is defined by a line of mature standard Sensile Oak trees.

The fields typically contain grassland, often modified from the sensi-natural state, but in places retaining scene features of sensi-natural character, often where poor drainage conditions prevail. In these areas, sensi-natural grassland characterised by abundant Purple Moor-grass is notable.

On high level isotoded slopes above Llangenyd, very large fields of sugarficantly modified agricultural graniand area present, extending to the tops of the valley sides, and onto high level ridges. Features of nature conservation interest are marginalised on these high level slopes, where field boundaries are typically drystone walls and write feners, with very occasional weak hedgerows and some scattered Gome slong field boundaries. This pattern is reflected across high level land enclosing the Liynfi valley within this section, and with commercial forestry typically sited on the tops of ridges where there are significant elimatic constraints on grassland cultivation. In the Lower Liynfi valley, features of nature conservation interest are generally confined to the lower valley tides and valley bottoms and are principally associated with semi-natural broadleaved woodland and localised acts matural grassland. However, a number of the sunken lanes that extend into the upper valley side areas ritain reliet. Goes that has strong semi-natural character, supporting ericaceous sub-slimb species, with associated species such as Sheep's-feacue and Matrass.

# Key issues

- The lower Llyufi valley is of particular importance for the conservation of signman flora and fauna and wildlife habitat of strong semi-neinrel character, incuding broadleaved woodland, grassland and river channel wildlife habitat.
- Lower valley sides are of value for the conservation of some-natural broadleaved woodland wildlife habitat, often with complementary grassland habitat.
- Re-estrant valleys are of particular value for the conservation of seen-natural broadleaved woodland wildlife habitat, often with complementary grazzland habitat.
- Lower sections of the Llynfi are of high general water quality, supporting valuable aquatic and semiaquatic wildlife habitat, flora and fauna.
- Locally extensive areas of productive agricultural land are present, reducing the contamity of features of nature conservation interest.
- Most field boundary hodgerows are subject to intensive management, roducing their nature conservation value.
- Upper valley sides and valley tops support agricultural grassland with few features of nature conservation interest, generally limited to grassland along road verges and field boundaries.

#### Key aims

- The conservation and enhancement of woodland, gransland and riparian wildlife habitat of strong semi-natural nature conservation value along lower valley sides and valley bottom.
- The conservation and enhancement of woodland, gransland and ziparian wildlife habitat of strong semi-natural nature conservation value within re-entrant calleys.
- The conservation and enhancement of notable species of flora and fauta, and cossolidation of wildlife habitat pattern to enable dispensal throughout the landscape.
- Repuvination of field boundary bedgerow wildlife habitat
- Biodiversity enhancement within land in opper valley side and valley top locations.
- Manitain the quality of squatic and semi-squatic wildlife habitat. flora and fauna within lowar sections of the Liyafi.
- Minimus flather conversion of valuable semi-natural wildlife habitat to productive agricultural uses

### such at improved granland.

- Undertake recological assessment and management planning of core woodland, grassland and riparian wildlife habitat with the objective of identifying a series of coherent countryside management units, focusing on valley bottom and lower valley side woodland and grassland menaics. Incorporate assessment and management planning of complementary habitats such as cothying semi-natural woodland and grassland and riparian channel habitat.
- Enlance the course woodland wildlife habitat resource by provision of stock-proof exclosures to encourse natural regeneration, and undertaking appropriate habitat management
- Consolidate the existing woodland wildlife habitat resource through extension of woodland areas by tree and shrub planting on adjacent significantly modified grassland sites, to provide woodland strips and outlying woodland blocks to increase the connectivity of breadlerved woodland habitat.
  - Consolidation of exerting woodland wildlife habitat by relevanion of intensive hedge management practice to mable the development of a more varied hedgerow habitat structure adjacent to woodland blocks, extending valuable woodland edge babitat into adjacent areas of open grassland.
- Hedgerow rejuvenation to be achieved by planning within stock-proof exclosures to consolidate hedgerow structure and composition.
- Enhance areas of existing grassland wildlife liabitat interest by appropriate management, and consolidate existing areas of notable grassland habitat by conversion of adjacent productive agricultural land to grassland of semi-natural character
- Undertake ecological assessment and management planning of habitat remnants along road verges and field boundaries within upper valley sides.
- Undertake water quality monitoring within the lower Llynfi for water resource conservation and management planning
- Undertake aquatic and semi-squatte signifies vegetation management and habitat diversification through creation of reedswamp and inundation vegetation

### UPPER GARW VALLEY

#### Description

#### Physiographic review .

This area extends from high ground at around 500m AOD at Blacogarw, to a point along Cwm Garw at around 100m AOD north of Pout-y-rhyl, enclosed to the rast by the distinctive ridge of Mynydd Llangtinwyr, defining the watershed between Cwm Garw and Cwm Ogwr Fawr to the east. The character area boundary descends from Werfa in the north usst at 568m AOD to Pant Blaenhurwr in the south east at 366m AOD, descending from this point to the valley bottom of Cwm Garw before rising across short steep slopes to attain a point along Mynydd Moelgeila at around 340m AOD. From this location, the Upper Garw Valley character area abuts the Lower Llynfi and Upper Llynfi character areas to the north, following the ridge it Mynydd Moelgeila to Foel Gwilym Hywel at 434m AOD and then to Mynydd Caeran at 555m AOD.

The mano valley is distinctive, with steep valley sides enclosing a narrow valley floor. The west facing valley sides are dissected by a series of steep sided re-entrant valleys, whereas the east facing main valley tide has more anuform topography, where side valleys are less frequent.

The principal side valleys along the west facing valley side are at Comin Garw north of Blaengarw, Comin Nanthir, Coun Gelli-weim and Comin Fforch-wein, enclosed by prominent, storep-sided spurs extending from the main ridge of Mynydd Llangeinove. The main side valleys along the east facing main valley side are at Nans Comi-goyn in the north and along Comin Garw Feelum in the south.

This landscape character area has a distinctive geological character, comprising extensive Upper Coal Measures on highest land, forming the distinctive landform of Werfa and the Mynydd Llangeinwyr ridge, and of Mynydd Careau and the ridge between Foel Gwilym Hywel and Mynydd Moelinla. Upper Coal Measures extends across upper valley sides, grading into strata of the Middle Coal Measures on lower valley sides, forming the destinctive incised re-entrant valley topography. The main valley bottem of Cwm Garw mainly comprises boulder clay deposits, with allovial deposits present to the south.

Seils within this landscope character area closely reflect the distinctive geological characteristics. Upper Cosi Measures on highest land generally support freely-draining and strongly leached acids: ferric stagropodeols, grading into freely draining, loansy typical brown podeols over the Middle Coal Measures of lower valley sides. Valley bottom boulder elay typically supports alowly permeable, clay-enriched cambic stagragohumic glay soils with pearsy topicals.

#### Principal wildlife habitate

In the north of this area, Cwn Garw provides an area of high ground that has not been blanker afforested, principally because Cwan Garw is fined with a series of steep erags and scree fields. The consequence of this is that Cwan Garw and Bwith Garw support some of the few areas of significant upland unicoproved acid grassland, and this may be one of the most important areas within Ogwr for the conservation of this vegetation type. The rock faces and scree slopes are also important in providing additional habitat structural diversity and is likely to be reflected in local populations of plant and possibly animal species (og shiff-menting raptors) that are relatively uncommon elsewhere in the Borough.

East facing valley sides of Cwen Garw have been afformed, where afforestation has largely replaced seminatural features of nature conservation significance, and the wildlife habitats of conifer plantations are relatively weak in nature conservation terms. Within conifer plantations some features of more interest are prosent, mainly associated with diversifying elements such as tides, streams and rock faces, and in places these may be of particular value.

On went facing valley sides above Pontrymer, middle valley side slopes along Cwin Gelli-wern are doministed by Brackin, leading to more semi-natural gressland on upper valley sides and valley tops. Along the lower valley sides there is a more varied mosaic of mature woodland and semi-improved parture grassland, in fields generally enclosed by a strong hedgerow network, locally comprising lines of mature breadleaved trees. The woodland is generally open, semi-netural broadleaved, woodland and has a weak structure, with woodland regeneration typically supressed by grazing effects.

Above Pentrymer, the valley sides are large, rounded slopes, supporting extensive unenclosed rough grazing. The higher valley sides mainly support improved grazisland loading to valley tops and ridge lines, but also include both grazisland and extensive Brackin. On lower valley sides there is a smaller scale field pattern, including fields of less significantly modified grazisland. The field boundaries in this area are generally defined by relatively weak boundary hedges, comprising mainly lines of standard mature Oak hedgerow standards.

Towards Moril Garn the valley sides support a varied topography, derived from small scale quarrying operations, and this has generated an area of some habitat structural diversity. This includes heathland and acid granuland patches on rock exposures and on scree, with areas of mature semi-matural woodland that is open grown with little structural variety and showing the effects of suppressed regeneration through grazing pressers. Abandoned quarries are principal sites for ericaceous heathland sub-shrub vegetation in this area, and make a valuable contribution to the nature conservation resource of the valley.

To the south of Poncymer, at Braich y Cymer, the local road on the western side of the valley bottom edges onto a couller plantation which has significant areas of acid granuland with building to mature plass heather along the plantation edge, of some ecological interest. In areas, this heather zone is around 15m wide, making a noteworthy contribution to local vegetation interest, as it provides significant somi-natural character. The heathland strip includes occasional rock outcrops and occasional small streams, adding to the variety of wildhife babinats present. There is also Putple Meor-grass grassland, Bilberry, Sensile Oak and Downy Birch, which provides more habitat structural variety, diversifying the lower edge of the conifer plantation which would otherwise provide a relatively narrow zone of nature conservation interest.

The extent of heathland vegetation is this area complements that which occurs across the valley, and this vegetation is of value in its context, in the valley bottom and lower valley sides of the Afon Garw, which has seen significant modification in nature conservation terms, and a visually complete replacement of seminatural hobitat by residential and industrial development. Some vegetation has developed along the valley bottom associated with the railway line and the Afon Garw, but the value of these areas is relatively marginal, compared to the extent of riparian habitat associated with apper and middle sections of the Livufi.

To the extreme south of Posteynoer, the river channel has been significantly modified, with rock armour along the banks, resulting in removal of features such as gently sheiving channel edges that are of wildlife habitat interest. In addition, the bankside vegetation has been removed and replaced by the rock armour. There are also sections of planted broadleaved woodland on steep slopes above the Afon Garw along this section, mainly over mature Beech, which is presently in a state of descriptation, with many trees collapsing and in need of treatment.

#### Key issues

Upper sections of Cwm Gurw are of significance for the conservation of semi-manaral upland wildlefe-

habitats, notably cliff-face, scree and acid graniland vegetation, with locally extensive Bracken colonization on upper valley sides and valley tops. Mine speil is locally extensive on lower valley sides, and has developed acid gransland vegetation of semi-natural character.

- Confer plantation woodland is locally extensive, creating areas of little nature conservation value.
   Features within centifer plantation woodland such as rides, clearings, streams and took caterops provide some habitat anuctural diversity, inleading areas of semi-natural grassland and heathland vegetation.
- Sections of Afan Garw channel have been modified through engineering works, removing features of nature conservation interest.
- Justaposition of valley bottom development with conifer plantation woodland on valley sides reduces wildlife isabitat connectivity
- Broadleaved woodland blocks on lower valley sides lack structural variety due to supression of regeneration by grazing pressure.
- Lower valley sides include areas of grassland of moderate semi-natural character enclosed by weak field boundary hedgerows.

## Key aimu

- Ensure the conservation and enhancement of upland wildlife habitats on rock face and acree fields on upper valley side and associated with mine spoil disponal areas
- Diversification of conifer planution woodland, conservation, enhancement and consolidation of features of nature conservation interest within plantation woodland areas.
- Reinstatement of features of ripatian wildlife habitat interest along modified soctions of Afon Garss.
- Improve and maintain commuty of wildlife habitat along valley sides.
- Ensure appropriate management of lower valley side grassland of nature conservation interest and improve nature conservation value of field boundary hedgerows.

- Undertake ecological approxials of upland wildlife habitats and within more speel areas to determine habitat management priorities and implement vegetation management plans as appropriate, including Bracken management.
- Implement programme of conifer plantation woodland edge habital diversifeation.
- Undertake aquatic and semi-aquatic wildlife babitat creation and management.
- Lindertake wildlife hobitat management and creative conservation on valley sides to maximize habitat connectivity.

- Maximum value of knowleaved woodland wildlife hubitats through planting and by exchanne of grazing to anable natural regenderation.
- Lindentake occlogical assessments of lower valley side grassland to identify wildlife habitat management priorities, and enable cossolidation and enhancement of hedgerow wildlife habitats durough planning and exclusion of stock to enable regeneration.

# LOWER GARW VALLEY

#### Description.

#### Physiographic review

This area extends from Poet-y-rhyl at around 100m AOD south along Cwm Garw to the Bryngarw Country Park at around 100m AOD. The castern boundary follows the southern soution of the Mynydd Llangtinner ridge, falling across steep slopes from Past Blaenhirwe and Pony Forl at around 350m AOD to the Brynnanyn confloence at around 100m AOD. The character area boundary then crosses Cwm Garw at the Bryngarw Country Park before abutting the adjacent Lower Llyefi landicape character area boundary.

In the north of this area the valley faulform in consistent, enclosed by storp slopes below Craig-yr-hadol and Pen y Foel. However, between Llangeinor and Brymmenyn in the south, land falls across steep slopes to an area of low-lying, undulating land dissected by the Afort Garw.

This area has a uniform geological character, mainly comprising an extensive area of Upper Coal Measures on upper and lower valley sides, with a narrow strip of allovial deposits along the immediate valley bottom of the Alon Garw. A geological feature of significance is shaping the scenery of this landscape character area is a fault line trending roughly east - west above Llangeiner. Low-lying, undulating load has developed on the downthrow side of the fault, extending towards Brynnenyn.

A limited variety of soil types have developed within this landscape character area, mainly in response to topographic variety. On highest land north of Llangeinor at Craig-yr-budol and at Pen y Foel are localised sections of freely-draining and strongly leached acidic ferric stagnopodools, within extensive areas of strongly leachest acidic typical brown podzols with slowly decomposing penty topically. On locally low-lying land north of Bettws, slowly perseable, clay-enriched cambic stagngohumic glay soils with peaty topicols have developed.

### Principal wildlife habriats

At Port-y-rhyl in the north of this area, the lower valley sides of Own Garw are ites intensively developed than at higher levels, and as a consequence the nature conservation interest increases, where there is a greater variety of vegetation types, which includes a locally extensive cover of heathland with a metalic of Gorso and arid greasland with extensive Bracken, and local areas of broadleaved woodland.

Land along the east facing valley side of Cwm Garw above Llangeisor is intermediate between the upper valley/upland zone and the lower wooded improved grassland zone. The tendeover here is generally improved grassland in relatively small scale fields enclosed by wooded hedgeress. The upper valley sides support a combination of improved/semi-improved grassland with areas of more semi-natural acid grassland with extensive areas of Brasken and Gorse. Higher slopes also support significant conifer plantation woodland, mainly Latch and Norway Sprace, with some broadleaved woodland. Broadleaved woodland in this area is typically Oak, but has an open structure comprising matters and semi-nature conopy standards with a virtually absent shrift layer, and no notable regeneration due to suppression by grazing. The field boundary hedgerows and woodland strips are declining and are prevented from regeneration by suppression from grazing. Lower slopes leading down to the Afon Garw are more densely wooded, with a smaller scale field pattern enclosing rush pastare and moderately improved grassland with a system of field boundaries supporting significant hadgerows and discrete woodland strips, notably following tributary valleys flowing towards the Afon Garw. The Afon Garw valley bottom is marked by a strip of semi-natural woodland.

In the vicinity of Betrus, lower valley sides and the valley bottom of the Afon Garw supports an extensive and virtually unbroken corridor of semi-natural broadleaved woodland. This is a significant area for the conservation of broadleaved woodland habitat, as it is an extensive area, and is associated with other complementary babitats such as the river chausel of the Afon Garw, and areas of moderately improved prassland exclosed by field boundaries that in places comprise wire finces, but elsewhere comprise lines of woody vegetation. The woodland is generally Oak-Ash, but includes areas with Birch and Holly, and there is local valley bottom Alder woodland.

### Key issues

- The lower Garw valley is of particular importance for the conservation of riperian flora and finanand wildlife habitat of strong semi-matural character, incuding broadleaved woodland, grassland and river channel wildlife habitat.
- Lower valley sides are of value for the conservation of sens-natural broadloaved woodland wildlife habitat, often with complementary grassland habitat.
- Upper valley sides are of some value for the conservation of sensi-minual acid grassland, with local Gorse and Bracken colonisation.
- Locally extensive coeffer plantation woodland on upper valley sides creats areas of relatively little nature costruction interest.
- Broadleaved woodland of some wildlife habitat value are present on upper valley sider, but where woodland regeneration is inspected by grazing.
- Lower sections of the Garw valley are of high general water quality, supporting valuable aquatic and semi-aquatic weblie habitat, flora and fatera
- Many field boundary hodges within lower valley sides and along the valley bottom are undermanaged and have a gappy structure, roducing their wildlife habitat value.
- Locally educative areas of productive agriculatral land are present, reducing the continuity of features of nature concervation interest

## Key alms

- The conservation and enhancement of notable woodland, grassland and riperian wildlife habitat of strong semi-natural value conservation value along lower valley sides and valley bottom.
- Enhancement of upper valley side acid gransland through Gorse and Bracken management.
- Diversification of cosiller plantation woodland structure and composition on upper valley sides to onlance their nature conservation value.

- Enhancement of upper vallay side broadleaved weedland wildlife habitat through diversification of habitat structure and composition.
- Maintain the quality of aquatic and sensi-sequatic wildlife hubitat, flora and faims within lower sections of the Afon Garw.
- Consoidate and enhance the field boundary liedgenow patient on lower valley aidin and within the valley bottom
- Minimum further conversion of valuable semi-namenal wildlife habitat to productive agricultural uses such as improved grassland.

- Undertake noological assessment and management planning of core woodland, grassland and reparam wildlife habitat. Identify a series of coherent countryside management units, focuring on valley bottom and lower valley ride woodland and grassland mesaics. Incorporate resessment and management planning of complementary habitate such as outlying semi-natural woodland and grassland and reparam channel labitat.
- Enhance the existing woodland wildlife habitat resource by provision of stock-proof exclosures to measures natural regeneration, and undertaking appropriate habitat management.
- Conscibute the existing woodland wildlife habitat resource through extension of woodland areas by true and shink planting on adjacent significantly modified grassland sites, to provide woodland strips and outlying woodland blocks to increase the connectivity of broadleaved woodland habitat.
- Undertake ecological assessments of grassland on upper valley sides and within woodland mosaic on lower valley sides and valley bottom to identify vegetation management priorities.
- Implementation of conifier plantation edge management regimes to diversify the plantation habitat ministure and composition to reduce the contrast between the conifer plantation edge and the adjacent open grassland habitat
- Undertake enhancement and consolidation of field boundary holgerous through planting and by regeneration within stockproof exclosures, and adopting sensitive holgerow management practices elsewhere.
- Undertake water quality monitoring within the lower Liyedi for water resource conservation and intenspersent planning.

# MYNYDD MAENDY AND CWM OGWR FACH

#### Description

#### Physiographic review

This landscape character area extends form high ground in the east between around 450m AOD and 240m AOD at Mynydd Maes-teg to around 60m AOD along the Ogmite River in the routh west at the Brynnienyn confluence. The easters boundary follows that of the administrative boundary, along upper sections of Oran Ogwr Fach. To the south of Galfach Goch, the boundary follows the prominent high level ridge of Mynydd y Gaer, defining the watershod of Cwm Ogwr Fach between Gilfach Goch and Brynnanyn. At Brynnanyn the boundary follows that of the adjacent Cwm Ogwr Fawr landscape character area. The landform of the Mynydd Maesdy and Cwm Ogwr Fach landscape character area is varied, consisting of two principal units, the high level dissocied plateous of Mynydd Maes-teg, and the valley form of Cwm Ogwr Fach.

Mynydd Mans-tog comprises a broad ridge and several rounded spars formed by dissoction of a high level plateau by tributary valleys of the main Cwm Ogor Fach valley to the south. The principal tributary valleys are those of Nam Abercerdin, draining Mynydd Maes-teg above Gilfisch Goch and Nate Hendre IEan Goch draining land below Mynydd Maeudy, with Nant Llwyn-care-inwsh and the prominent, simious valley of Cwm Dimbath, both draining Bryn y Can below Mynydd Maes-teg.

Cwm Ogwr Fach has a distinctive valley physiography, with short, steep valley sides enclosing the valley bottom. South facing valley sides are dissocted by a series of re-extrant river valleys draining from Mynydd Maendy and Mynydd Maes-teg, with several short, steep valleys crossing north facing valley rides below Mynydd y Garr. These include Nant Caner-mowr and Cwm Dwr. A significant topographic feature is provided at Blackmill, where the confluence of Cwm Ogwr Fach with Cwm Ogwt Fawr creates a major break along the steep south facing valley side of Cwm Ogwr Fach.

This landscape character area has well-defined geological characteristics, where most of the high-level ground associated with Myoydd Maes-reg. Mynydd Maendy and Mynydd y Guer consist of Upper Coal Measures. Where the south facing valley ades of Coan Ogor Fach are next heavily dissected, re-entrant valleys support boulder clay deposits. This is most notable within lower Com Dimitoth and Nant Llwyn-caer injust. The valley bottom of Coan Ogor Fach contains extensive superficial deposits, and these include a combination of allovial deposits with glacial sands and gravels with localized boulder clay.

The development of soil types within this area closely reflects patterns of lasiform, where highest level land to the north and in the south east support localized freely-draining and strongly leached acidic furric stagnopodools. Across much of the remainder of the area, strongly leached acidic typical brown podeols with slowly decomposing peats topsoils are present on upper and lower valley sides. In the extreme west, locally extensive slowly perseable, clay-enriched cambic stagngobamic gley soils with peaty topsoils have formed over glacial boulder clay and allovial deposits on lower valley sides and valley bottoms. Allovial deposits along the valley bottom south west of Blackmill support freely draining coarse and fine loamy typical brown allovial yoln.

## Principal wildlife habitate

Along lower Cwm Doubath is an area of local significance for the conservation of semi-natural broadleaved woodland and grassland wildlife habitat. The principal features of sature conservation interest are along the lower valley sides and the valley bottom, where woodland along the valley bottom of lower Cwm Dirobath secludes Nant lockyd SNCI, and is a core feature in defining the local woodland nature conservation resource. This is a significant woodland block, comprising an Oak-Ash canopy over Hazni, with very occasional Beech and scattered Holly, and includes numerous significant boundary features, indicating ascient semi-nutural woodland origins. Along the valley bottom there is distinctive valley bottom Alder woodland, providing additional habitat variety. There is reasonable regeneration in Ash, Holly and Hazel, but listle obvious Oak regeneration. There is some ovidence of past management in the area, with many of the Alders present as heavily overstood coppice, but other areas of the woodland are not obviously managed. The woodland edge along the road has potential significant habitat interest as this has been laid, but has been trimmed to a uniform shape, lacking significant structural variety. Upper sections of Cwm Dimbeth are also of nature comervation value, including Com Dimbeth SNCL, and Daren Y Disabath SSSL of particular importance for bryophyte and firm species

The value of woodiand habitat in this area is enhanced by the presence of complementary stream and grassland habitat, where lower lying grassland comprises areas of rush pasture with sections of Purple Moorgrass vegetation, and with strong semi-natural character. The riparian channel habitat is associated with a first-flowing stream pasting through a rocky substrate and providing a good riffle-pool structure and varied memder physiography. Tributary streams such as this would be used by Otters moving out of Ogar Fach.

On the opper valley sides, grassland is significantly modified, generally comprising improved grassland. This is present in large fields enclosed by a network of variable boundary features, including usire fences and definet hedges, but in places comprising lines of scrub and large mature trees, providing features of more nature conservation interest.

West of Gilfach Goch, on lower slopes of Mynydd Maendy and at land around Bryn-chwath, improved grassland extends across much of the area within a large scale field system defined by a relatively strong network of hedges. These are typically lines of mature and semi-mature standard Oak trees, with an inderstorey of Hazel and Helly, in placet replaced with definet hedgerows where standard trees are not present, and where field boundaries are marked by scattered Hawthorn, Hazel and Helly scrub. This area is important for the conservation of broadleaved woodland, which occurs along the valley bottom of Ogwr Fawr, and extends along the tributary valley of Nant Hendre Ifan Goch, providing a valuable extension of the woodland habitat into an area otherwise dominated by improved grassland.

The section of Cwm Ogwr Fach between Gilfach Goeh and Blackmill is of particular importance for m diversity of nature conservation interest. The valley is virtually undeveloped, and land cover on both sides of the valley support largely semi-natural vegetation types and wiidlife habitats. Significant elements include extensive mature broadbaved Oak-Ash weedland with Downy Birch and locally extensive areas of open acid grassland with patchy heathland, valley bottom Purple Moor-grass grassland in extensive valley mire formations, resembling valley mire vegetation at Cwm Caner Mawr SSSI. Within a relatively short section of valley bottom along Cwm Ogwr Fach between Blackmill and the distal end of Cwm Dimbath three has been locally significant development along one side of the Ogmore River flood plant, and this is the main interruption along the Cwm Ogwr Fach balitat corridor.

On sonth facing valley sides of Cwm Ogwr Fach nouth west of Gitfach Goch, valley bottoms and longer valley sides are notable for semi-natural broadleaved woodland, a significant area, and apparently of strong seminatural character. These include sections of valley bottom Alder wet woodland, and are connected by the sorridor of Ogwr Fach, where the lower valley sides of Cwm Ogwr Fach provide an area of considerable importance for the conservation of semi-natural broadleaved woodland, including Llandyfedwg Wood SNCI and Cwm Ogwr Fach SNCI. The woodland is generally enclosed on higher slopes by significantly modified gransland, which on lower level land is enclosed by strong field boundary woodland strips and hedgerows. On lowest slopes, field boundary woodland strips and hedgerows enclose fields of some semi-natural character, including areas of rush pastare and Pusple Moor-grass grassland. High level land at Mynydd y Gaer supports extensive Bracken dominated acid grassland. At Blackmill, Cwm Ogwr Fach and Cwm Ogwr Fawr meet at a point where there has been minutely little valley bettern development, and consequently, features of nature conservation value are locally abundant, consisting a mosaic of semi-natural broadleaved woodland, grassland and serub extend across the lower valley slopes and the valley bottom. This comprises Oak-Ash over Hazel woodland with wet Alder woodland and occasional Downy Birth on the valley bottom, with clearings that comprise acid grassland with dense Bracken along the valley sides. Upper valley sides typically comprise modified acid grassland with dense Bracken along the valley sides. Upper valley sides typically comprise modified acid grassland with extensive areas of intensively grazed grassland, defined by a network of field boundary hedges that are grazenily storeg as lites of Oak and Ash standards with Hazel and Holly understorey. On south facing valley sides of Cwm Ogwr Fach south west of Blackmill, Craig Tal-y-fan common prevides an extensive area of Bracken microached semi-natural acid grassland, and this is reposited on steep slopes below Dolma-Ifin-ddu

Between Blackmill and Brynmenyn, this section of the Ognore valley provides a continuation of the undeveloped Ognore Valley system, with significant nature conservation interest on valley sides and across the valley bottom. Two SSSI woodlands are present in this area, one of which enclosed by common lund at Crosg Tally-fat. Additional complementary woodland habitat is present along the valley bottom in the form of semi-natural Alder valley woodland strips with areas of Oak over Hazel and Holly woodland is strips defining fields of graveland with moderate semi-natural character on the Ognore flood-plain.

#### Key issues

w

- In places, Upper valley sides are notable for the conservation of semi-natural acid grassland, web local Gorse and Bracken colonisation. Elsewhere, apper valley sides and valley tops support agricultural grassland with few features of nature conservation interest.
  - Lower valley sides are of value for the conservation of semi-namural broadleaved woodland widtlife habitat, often with complementary grassland habitat, forming a virtually continuous corridor of wildlife habitat unrest. Woodland typically has a matform structure due to regeneration supression by grazing
- Nationally important woodland wildlife habitat occurs at Craig Tal-y-fan and Alle y Rhiw, and nationally important valley mire vegetation occurs within Nant Caner-many.
  - Romman valies are of particular value for the conservation of semi-natural broadlenved woodland wikdlife babitat, often with complementary grassland habitat and field boundary woodland strips and hedgerows.
- The Afen Ogwr is of high general water quality, supporting valuable aquatic and semi-squatic wildlife habitat, flora and fauna. Land along the valley bottom is of value for the conservation of riparian woodland and grassland vegetation. The Afen Ogwr has a well-developed meander physiography with little channel modification.
- The configures of Cwin Oger Fach with Cwin Ogwr Faver at Blackmill is a concentration of wildlife babitat interest.
- Locally extensive areas of productive agricultural grassiand are present on high level land, reducing the extent and continuity of features of same conservation interest.
- In places, upper valley sides are of some value for the conservation of semi-natural acid grassland, with local Gorse and Brackes colosisation.

- Local confer plantation woodland on high level land create areas of relatively little native construction interest.
- Many field boundary hedges within lower valley sides and along the valley bottom are undermanaged and have a gappy structure, reducing their wildlife habitat value.
- Fly-tipping is a detractor within woodland blocks along local roads within re-entrant valleys.

## Key aims

- The conservation and enhancement of cotable woodland, grassland and tiparian wildlife habitat of strong some-contoral nature conservation value along valley sides and valley bottom. Conservation of nationally important woodland and mire habitat in a priority.
- Enhancement of upper valley risk acid grassland through Goese and Bracken management.
- Minimum the community of wildlife habitat along lower valley sides and the valley bottom.
- Biodiversity enhancement within land in upper valley side and valley top locations, and minimise further conversion of valuable semi-matural wildlife habitat to productive agricultural uses such as improved grassland.
- Diversification of conifer plastation woodland structure and composition on upper valley sides to enhance their nature conservation value.
- Maintain the quality of aquatic and semi-aquatic waldlife habitat, flore and fauns along the Afen Ogwr.
- Consoldate and enhance the field boundary hedgerow pattern on valley sides and within re-entrans valleys.
- The conservation and enhancement of notable species of flora and finant, and consolidation of wildlife habitat pattern to enable dispersal throughout the landscape.
- Biodiversity enhancement within land in upper valley side and valley top locations.
- Eraduate the problem of fly-tipping in woodland blocks
  - Sensitive habitat management and creation should be undertaken at the confinence of Cwm Ogwr Fach with Cwm Ogwr Fawr at Blackmill to muntain wildlife habitat continuity along Cwm Ogwr Fach.

### Key objectives

 Undertake ecological assessmera and management plausing of core woodland, grassland and riperan wildlife habitat with the objective of identifying a aeries of coherent countryside management units, focusing on valley bottom and lower valley side woodland and grassland mosaics. Incorporate assessment and management planning of complementary habitats such as outlying semi-natural woodland and grassland and riparian channel habitat.

- Undertake ecological assumments of gravitand on upper valley sides to identify vegetation management proteities
- Enhance the existing woodland wildlife habitat resource by provision of stock-proof exclosures to encourage natural regeneration, and undertaking appropriate habitat management.
- Cossolidate the existing woodland wildlife habitat resource through extension of woodland areas by tree and shieb planting on adjacent significantly modified grassland sites, to provide woodland strips and outlying woodland blocks to increase the connectivity of broadlewood woodland habitat.
- Hotgerow rejuvenation to be achieved by planting within stock-proof exclosures to consolidate bedgerow structure and composition.
- Enhance areas of counting grassland wildlife habitat interest by appropriate management, and consolidate existing areas of notable grassland habitat by conversion of adjacent productive agricultural land to grassland of sens-manual character.
- Undertake water quality monthly within the Afen Ogwr for water resource conservation and management planning.
- Undertake aquatic and sensi-equatic riparten vegetation management and habitat diversification through creation of reedswamp and mandation vegetation.
- Implementation of conifer plantation edge management regioner to diversity the plantation habitat structure and composition to reduce the contrast between the conifer plantation edge and the adjacent open graviland habitat.
- Undertake rehancement and consolidation of field boundary bedgerows fluough planting and by regeneration within stockproof exclosures, and adopting sensitive hedgerow management practices elsewhere.

## **CWM OGWR FAWR**

#### Description

#### Physiographic review

This character area extends from high ground at 550m AOD, above Craig Ogor as far as lead above Bischnill at around 180m AOD. The eastern boundary of the area follows a ridge that defines the watershed between Cwm Ogwr Fawr and the adjacent Cwm Ogwr Fach to the cast. In the north cast the character area is enclosed by the administrative boundary that initially follows Myuydd William Mayrick, then follows a situous ridge running south west to Myuydd y Gwair at 325m AOD. From here the ridge continues along high ground above Past-yr-awel before crossing the Ogwr Fawr at around 100m AOD near Blackmill. The boundary then follows storp slopes above Cwm Ogwr Fach to abot the adjacent boundary of the Lower Garw Valley landscape character area.

The main valley is well defined along the full length of this landscape character area, with a narrow valley hotiom enclosed by storp, undulating valley sides, dissected by a series of incised re-entrant valleys. The main valleys are those at Cwm Nant-y-moet, Cwm-y-flosp, Cwm y Fowch and Cwm Cyffog in the north, with Cwm Nant-y-ci providing local topographic variety above Lewistown. The incised re-entrant valleys that dissect the main valley sides of Cwm Ogwr Fawr create a series of high-level spars that extend the adjacent ridges of high ground. These provide locally prominent landforms such as that at Mynydd yr Aber.

The geology of Cwm Oger Fach is dominated by extensive Upper Ceal Measures that comprise valley side and ridge landforms throughout the landscape character area. In the extreme north, steep upper valley nides exclosing Nant-y-moel and Price Town consist of Middle Ceal Measures, with locally extensive boulder clay deposits on lower valley sides. Along upper maches of the Ogwr Fawr, valley bottems consist of alluvial deposits, fringed with glatial sends and gravels, and with boulder clay within lower reaches.

Within this landscape character area three main soil types are present. Fronty-draining, strongly leached acidic forric stagnopodicols are widespread on highest level land that comprise Upper Coal Measures north of Ognore Vale, extending along Mynydd Llangeinwyr to Pen y Foel and to Mynydd y Gwair. On forwer valley sides and valley bottoms north of Ognore Vale, locally extensive slowly permeable, elay-ensiched emble stagngohamic gley soils with peaty topsoils are widespread over Middlin Coal Measures and boulder slay deposits. South of Ognore Vale soils are typically freely-draining, strongly leached acidic ferric stagnopodicols over Upper Coal Measures, with local freely-draining coarse and fine loamy brown alluvial soils along the valley bottom between Lewistown and Blackmill.

#### Principal wildlife habitats

The north of this area at the head of Owis Ogar Fasie is above the limit of counter plantation woodland within Own Ogav, and the landcover is mainly characterised by semi-natural vegotation. This consists predominantly acid grassland, comprising Matrixes-Agrostis-Fescue, with widespread Polytrichum and local areas of Heather and Heath Tormenial. The character of the vegetation is varied, due to a message of substrate types, including took outcrops, coarse scree slepe boulder fields and small stream characters discorting the superficial deposits of the area.

The area is extensively graced, and is of some value and importance for the conservation of upland semuunitural acid grassland vegetation. The conifer plantation has had a significantly modifying effect on the grassland vegetation, and is a locally extensive, significant landcover. The plantation is mantre Larch and Norway Sprace with Cornican Pine, providing an area of negligible nature conservation value, with the everption of local funtures that retain some semi-matural character. This is, however, less notable in this area, than with other couldr plantation woodland, where eg locally extensive areas of heathland and acid grassland vegetation is present within rides, in glades and associated with week faces in consider plantations.

On lower valley sides below the belt of coniler plantation woodland within the head of Cwm Ogwr, grassland is marginally improved through intensive grazing. In these areas, ruth partare with locally abundant Bracken is the prodominant vegetation type, with in least well-drained areas there is localized semi-named Purple Moor-grass dominated grassland with Bramble scrub and Soft Rush.

The field system on the lower valley sides and the valley bottoms is reasonably well-defined by a network of wire fences and lines of scattered scrob, mainly Hawthorn and local Birch and Oak and occasional emergent Oak standards. The head of Talga is marked by more significant broadleaved woodland, particularly below Ffynhorman Tyllan Gloryn. These areas are, however, even aged, manue even grown woodland, and are similar to other areas of broadleaved woodland scene elsewhere, affected by intensive grating with the effect of suppressing any obvious regeneration, resulting in a uniform woodland structure of marginal nature conservation value.

Upper valley sides support extensive conifer plantation, effectively modified the semi-natural vegetation to a significant extent. Above the conifer plantation three is an extension of semi-natural grassland on high level slopes along Rhiw'r Mynach and Rhiw Fer.

At Nant-y-Moel, this is the first location where the Ognore valley bottom has been significantly modified through development and habitat modification. There has been significant residential development, relatively little industrial development, and this has occupied much of the valley bottom in this area. Within the residential development within this area and below price town there has been significant modification of the valley bottom for amenity mes with development of a rugby pitch and amenity tree planting. Forestry at nant-y-moel has been recently clear felled to an extensive degree and this presents an opportunity for incorporation of habitat creation measures within replanting plans.

The isumediate valley bostom of the Ogmore is relatively unaffected by residential development in this area and retains some features of sensi-antatal character such as sections of scattered Willow and Hawthorn scrub, within a semi-improved coarse grassland vegetation with sections of Bramble and Bracken. The Ogmore channel has retained many features of nature conservation interest and has not ben significantly modified by river engineering works along this section.

As the bottom of Cwm-y-flotp above Proce Town, the area comprises essentially modified vegetation on lower valley sides where grassland has been significantly improved for high quality forage. Above this, grassland is generally improved, but grades into a rush-pastam vegetation, and on upper slopes the grassland is more semi-outural in character with more Bracken cover. On upper valley sides the vegetation in diversified by the presence of localised rock faces and more extensive areas of scree and boulder fields, generally the product of mine spoil tipping. There are a number of stream valleys with deeply incised, dissociating characters that contribute to diversification of the mosaie of granulaed types present within this area.

Price Town is a location when the valley bottom is significantly modified, and where most features of name conservation value have been replaced by man-made features. Field boundaries on lower slopes are weakly defined by scattered scrob and lines of mature standard trees, but in general the field boundaries are weak and there is a negligible broadleaved woodland cover in this area.

The Opmore Vale at Wyndham is at a point oorth of Ogmore vale that is notable for semi-natural broafferved woodland. This is present in an extensive area of acid Oak woodland below Mynydd yr Aber, and is present as a series of riparian broadleaved woodland strips associated with Nant Dyri. In addition, there is significant broadleaved woodland cover along the Ognove, comprising mainly plained woodland of Goat Willow, Black Poplar Serotina and Common Alder, planted in association with river engineering works in this section, but of sufficient extent and at a state of development where this makes a contribution to the nature conservation value of this section of the Ogwr valley bottom.

Above Wytelsam the field pattern is defined by a network of relatively weak woodland strips, marking the remains of wooded field boundaries that are in a state of detellation. Upper valley sides are valuable for the conservation of grassland widtle habitat, notably unimproved upland acid grassland with scattered Bracken with some features providing local diversification, such as rock outcrops and cock faces at the site of disated small quarties, and spoil heaps providing a scree-type habitat. Consequently, grassland that has developed by natural invasion and establishment provide analogues with natural grassland of rock face habitat en ledges and scree fields. In general (throughout Ogwr) this is a key factor to the value of grassland vegetation that has developed on post-industrial mine sites.

Woodland blocks in this area are relatively even-signd and have a uniform structure, comprising mature standards with a negligible sub-canopy or shrub layer. This situation has arisen due to uncontrolled grazing within the woodland blocks which has suppressed regeneration. Although the area around Wyndham is of value in terms of relatively unimproved semi-natural grazialand on upper valley sides, the moderately improved grazisland enclosed by wooded field boundaries on lower valley sides, the valley bottom has undergone significant modification through the development of a number of industrial uses, and river engineering works, and consequently, this contributes to the general lack of ripatian corridor interest along the Ogwr between Price Town and Ogmore Vale.

At the head of Ogmore Vale this is a section where the lower valley side has been significantly affected by development, where residential development extends to the edge of the river channel, and where the channel has been subjected to significant river engineering works in the past. In places the river channel passes under some of the factory units built at the head of Ogmore Vale.

Above Ognore Vale is Cwm y Fusch, which provides a features of significant topographic variety along the tides of Cwm Ogser Fawt, and this generally supports extensive unimproved acid grassland with cominuous Bracken cover, and with extensive mature conifer plantations. On lower slopes above Ogneze Vale there is a more varied mosaic of Bracken with open grassland, Gorse cover and areas of heathland, generally associated with rock outcrops and small series alopes in sections of disated quarry workings.

The Cwm Ogwr Fawr at Lewistown, between Ogmore Vale and Lewistown, the valley bottom of Cwm Ogwr is significantly modified, through past industrial development, which is presently a strip of derelict land, exating opportunities for creative conservation to strengthen the names conservation value of Ogwr Pawr valley bottom between Ogmore Vale and Lewistown. At Lewistown, the west facing valley side supports a locally cotensive area of mature sensi-natural broadleaved woodland on the lower valley sides, comprising mainly nature Sensile Onk and local Ash. Above this a relatively narrow conifer plantation below moderately improved acid grassland on higher slopes, largely defined by a weak field pattern, in places present as lines of Gorse sorub and Hawthorn scrub.

Above Lowistown along Grang Wen there is generally unimproved semi-natural acid grassland with extensive continuous Bracken and areas of most interest for grassland are associated with local sock outerog and scree formations.

In the south of Cwm Oger Fawr at Bryn y Wrack common, slopes below the high common platent support typically suppoved grassland, resulting in an acute contrast with the sami-natural grassland vegetation of the common. The common is a meanic of relatively strong semi-natural grassland comprising a Bent-Fescue-Matrices-Crested Dogs-tail community with Tufted Hair-grass and Soft Rush in damper areas, supporting a form of rush passage vegetation. An extensive element of the vegetation in this area in Gorse and Bracken invasion, and these present issues in terms of grassland conservation.

# Key issues 1

- Upper socious of Cwm Ogar Fawr are of significance for the connervation of semi-normal upland wildlife babitats, notably acid grassland vegetation.
- Conifer plantation woodland is locally extensive, creating areas of little nature conservation value, Features within conifer plantation woodland such an rides, clearings and streams provide some habitat structural diversity.
- Side valleys provide local wildlife habitat variety, notably including diverse grassland monsies on lower valley sides enclosed by field boundries marked by weak bedgerows.
- Lower valley sides include areas of value for the conservation of broadleaved woodland wildlife habitat, including woodland along valley bottoms. Elsewhere, broadleaved woodland blocks lack significant structural variety due to suppression of regeneration by grazing.
- Justaposition of valley bosom development with confiler planation woodland on valley adex reduces wikitide habitat connectivity.

## Key aims

- Ensure the countryation and enhancement of upland wildlide habitats on rock face and scree fields on upper valley sides.
- Diversification of conifer plantation woodland, conservation, enhancement and consolidation of features of nature conservation interest within plantation woodland areas.
- Improve and maintain commuty of wildlife habitat along valley udge.
- Ensure appropriate management of lower valley side grassland of nature conservation interest and improve nature conservation value of field boundary holgsrown.

- Undertake ecological approxiats of upland wildlife habitats and within mine spoil areas to determine habitat management priorities and implement vegetation management plans as appropriate, including Bracken management.
- Implement programme of confire plantation woodland edge habitat diversification.
- Undertake wildlife habitat management and creative conservation on valley sides to maximise habitat connectivity.
- Maximise value of broadleaved woodland wildlife habitats through planting and by exclaimon of grazing to enable natural regenberation.

Undertake coological assessments of lower vallay side grassland to identify wildhife habitat management priorities, and enable consolidation and anhancement of hodgerow wildlife habitata through planting and exclusion of stock to enable regeneration.

•

# **BRYNMENYN CONFLUENCE**

# Description

### Finetographic review

This landscape character area is bounded by the developed area enclosing the coefficience of Afon Garw and Ogmore River. The area is sited on a copies of superficial deposits comprising allevial deposits along the river channels, with terrace deposits, glacial sands and gravels and bouilder clay present along floed plain margins and along lower valley sides.

## Principal wildlift babinate

The intensity of development within this area has significantly reduced the number and extent of features of nature conservation interest. These are typically associated with linear wildlife habitats along river coriders and open spaces within the matrix of developed areas. Ognumore River is the principal river corrider that retains some nature conservation interest, extending along Afon Llyefi and along Nant Beynenthic to the east, and Nant lowerth-goch to the west. In places, all river corridors are associated with riparian woodland strips and localized sections of flood plain grasuland. Woodland is often of semi-returnal origin, and grasuland is typically modified through improvement to amenity grasuland and through river engineering works.

## Key issues

 Features of nature conservation interest are marginalised by extensive developed land, with most features of value associated muinly with the Ogmore River wildlife habitat corridor. Afor Liyafi, and several other watercourses passing through the area. A series of open spaces are also present that support features of wildlife habitat intorest. Most wildlife habitats are significantly modified through the offsets of development.

# Key arm

 Enhancement of features of nature conservation value within corridors and open spaces to maximise the ecological value of the area, and to increase opportunities for movement of wild species.

- Undertake ecological assessment and management planning of core areas of wildlife habitat, focusing on identification of babitat management priorities along corridors and within open mases.
- Consolidate the existing wildlife habitat resource through diversification and extension of existing features through appropriate vegetation management and habitat creation where possible

### CEFN CRIBWR

### Description

### Physiographic review

The nerthern boundary of this area follows the ridge of Mynydd Baedan along the southern boundary of the Lower Llynfi Valley landscape character area, attaining a maximum height of 25 tm AOD. This is followed to the west untill the ridge abots the administractive boundary which is followed to Kenfig Hill in the south. From Kenfig Hill, the southern boundary of this area follows the Cefn Cribr ridge to Pen-y-lan, attaining a maximum height of 130m AOD at Pen-y-castell. The area is characterised by three distinct physiographic units, the high ridge of Mynydd Baedan, a low-lying plain west of Tondu, and the Cefn Cribwr ridge. From Mynydd Baedan, land descends across gently undelating, moderatiley steep slopes, grading into undulating low-lying land resulting from a restored open cast mine site at around 100m AOD west of Tondu. This is in centrant to the prominent ridge of Cefn Cribwr to the south.

The characteristic physiographic units of this area reflect a distinctive geological character. The meep northern slopes below Mynydd Baudan consist of Upper Coal Measures, grading into locally extensive quarried sandatone strata of the Middle Coal Measures, contrasting with the locally prominent sandstone ridge of Millatone Grit at Cefn Cribwt

The soils of this area have a direct relationship with the arrangement of geological strata, with the steep northern slopes supporting fively-draining and strongly leached acidic ferris stagnopodzols. The low-lying restored open cast west of Tendu comprises made land, contrasting with slowly permeable, clay-enriched cambic stagngohumic gley soils with peary topsoils on lower slopes of the Cefn Cribwr ridge, grading into firstly-draining and strongly losched acidic typical brown podcols on north facing upper slopes of the ridge.

### Principal wildlife kabitais

At Cefh Cribr, ridgetop grassland is typically modified to a significant degree for pasture, and has been converted to suproved grassland. On side slopes of the Cefh Cribwr ridge, grassland, and other open habitats including wet heath, with strong semi-natural character nurvive and these are typically enclosed by field boardaries that comprise densely wooded hedgerows and in places woodland strips of semi-natural origin. The retuit is a complex mesaic of habitat types of considerable nature conservation interest, including grassland and wet beath vegetation mesaics at Cefn Cribwr Meadows SSSI and at Waun Cienia SSSI, and the strong semi-natural character of these habitats is of value in the context of the significantly modified habitat of the ridgetop and at the Tendu open cast reclamation site.

Within these graveland areas and extending along the western end of the Tondu open cast reclamation sto see additional grassland areas that are of value for Heath Fritillary. This interest extended into grassland op touth facing slopes above Tonda, mainly within the Cwer Risca Meadows SSSI.

The eastern end of this landscape character area is notable for the conservation of broadleaved woodland wildlife habitat, inleading. Tondu House Woood SNCI and Glendy Wood SNCI.

### Key issues

4.

Includes fields of lowland semi-natural wet grassland and wet beath of ecosidurable nature

conservation value including areas of nationally important wildlife habitat

- Field system defined by a network of some natural broadlenyed woodland strips and large hedgerows. Hedgerows are locally subjet to more intensive management programme, resulting in relatively features of weak nature conservation value.
- Extinsive areas of agriculutural grassland of little nature conservationinterest are present.
- Locally extensive couller plantation woodland creates an extensive area of little names conservation interest.

Key aiten

- Ensure conservation, enhancement and consolidation of valuable grassland wildlife habitat, including extension of areas comprising grassland of semi-matural habitat character.
- Maximise the nature conservation value of field boundary bedgerows, andertaking habitat enhancement and consolidation where appropriate.
- Diversification of conifer plantation woodland

- Undertake ecological appraisals of grassland wildlife habitats to identify habitat management priorities. Undertake approvate management within areas of grassland habitat interest, and implement a programme of creative conservation within adjacent land to consolidate the value of the area for grassland habitat conservation.
- Undertake sympathetic management of field boundary woodland strips and implement a programme of habitat rehabilitation where inappropriate management or neglect has reduced the nature conservation value of hedgerows.
- Diversify structure and composition of comfer plantation woodland.

## HIRWAUN COMMON

#### Description

#### Physiographic review

The northern boundary of dus area follows the ridge of Mynydd y Gant, achieving 295m AOD at the highest point, abutting the southern boundary of the Mynydd Maensh and Cwm Ogwr Fach landscape character area. The eastern boundary follows the administrative boundary to Penprysg in the south, then ascends the ridge of Cefn Hirgord to a height of 130m AOD before descending to Saru in the west. The physiography of the men is mainly associated with three distinct features, comprising steep south facing slopes below Mynydd y Garr, low-lying land at Hirwaan Common and the prominent ridge of Cefn Hirgord.

From Mynydd y Gaer, the arta descends across short, steep slopes, dissected by several incised river valleys, principally Cwm Crymlyn, Cwm Llwyd and Natt Tenry-y-groes. At around 100m AOD steep land below Mynydd y Gaer grades into low-lying land along the valley bottom of Natt Crymlyn within Hirwaen Common. This comprises a very gently undulating plain that varies between 45m AOD in the east at Perprysg, to between Min and 90m AOD in the west at Bryneethyn. South of Hirwann Common, land ruses across short, steep slopes to the ridge of Cefn Hirgord that attains a maximum height of 142m AOD midway along the east-west axis.

The distinctive physiography of this landscape character area is a close reflection of its geological character. The steep south facing slopes below Mynydd y Gaer comprises the southern extent of Upper Coal Measures within Opper. Low-lying land within the valley of Nant Crymlyn marks a locally extensive area of sandstone strata of the Middle Coal Measures, centrasting with the locally prominent sandstone ridge of Millistone Grit at Cefs Hiegood. In the extense east of the area, low-lying land comprises a southern outlier of Boulder Clay deposits.

Seil types within this landscape character have formed in response to the combined influence of the distinctive topography and the geological character of the area, with low altitude outliers of typically highlevel podaolic soils present on local areas of high ground. Highest level land at Mynydd y Gaer in the north of this area supports freely-draining and strongly leached acidic ferric stagnopodzols, grading into a variety of fively-draining and strongly leached acidic typical brown podeols, and slowly permeable, clay-enriched cambic stagngohantic gley soils with penty topicils on Middle Coal Meanires within Hirwain Common. Boolder clay deposits within low-lying land in the cast support a combination of firely-draining and strongly leached acidic typical brown podeols with fine learny surface water gley cambic stagnogley soils. In the south of this area, steeper sloping land of the Millstone Grit ridge of Cefn Hirgoed supports a section of strongly leached acidic typical brown podeols with slowly decomposing peaks topicols on lower valley sides and valley bottoms.

### Principal wildligh habitair

North east of Pencoed, grassland at Bryogwenith is part of an extensive area of considerable nature conservation interest within low-lying land on the flood plain of nati Crymlyn. In this area the vegetation comprises an area of unimproved Purple Moor-grass grassland with Soft Ruth, in a complex messie with wet woodland that comprises extensive Alder, Sexule Oak and Gost Willow in a series of woodland belos. There is some local Bracken in the area, and a network of field drainage ditches that support open water and marshy grassland vegetation. This is an extensive area of semi-natural vegetation wildlife habitat of considerable nature conservation value.

Between Pencood and Rhiwceiling in the north is an area of grassland at Ty-chwith, a continuation of the wet

grassland mosaic is low bytog land within the Nam Crymlyn catchment, and includes the Brynun and surrounding arms SNCI, including areas of value for Heath Fritillary. This area generally consists of a small scale field pattern defined by large woodland surge and hedgerows of Hazel and Holly that comprise mainly wet woodland of Alder, Sessile Out: and Geot Willow that enclose fields of unimproved neural grassland and marshy grassland with locally abundant Purple Moor-grass. A notable feature of this area are surforn trackways lined with woodland strips that provide local features of wildlife habitat diversity. This interest extends across adjacent higher ground to the north, abutting an unreclained spot heap at Werit Tarw, which is gullying and has a patchy vegetation cover resulting from colonisation by Barch and a variety of Beat grantes from adjacent established vegetation.

On sonth facing alopes below high land at Myoydd y Gier, the landform is an undulating, dissected scarp face of the coal measures escarpment, supporting improved grassland on upper slopes. Along the valley bottom and defining many of the fields there is a series of strong semi-natural breadleaved woodland blocks and strips, and these provide an important area for the conservation of woodland wildlife habitat, including a woodland SNCI rast of Heol y Cyw. Through woodland blocks extending along Nant Ton-y-grees there is a continuum of breadleaved semi-natural woodland cover extending along Nant Ton-y-grees there is a continuum of breadleaved semi-natural woodland cover extending into the valley bottom of Nant Crymlyn, which is an important corrider of woodland extending from the valley bottom across the valley sides and fringing the upland plateau. Woodland of this character extends across lower slopes of this coal measures scarp face, and is strongly associated with stream valleys where attempts at improving grassland have been last successful. These uparian corriders support woodland of added value where woodland combines with riparian finances to provide corriders of notable habitat structural detervity.

Along the undulating high level plateau of Mynydd y Gaer is an area of some value for the conservation upland grassiand hobitat. There is a considerable area of open acid grassland comprising a Matgrass with Bent and Fescue spocies, but also there are areas with significant Bracken invasion. Sections of patchy heathland vegetation are also present in this area, with valley mire vegetation along Cwm Rhydynilwyr, an important and relatively searce type of somi-nameral vegetation.

Central sortions of Hawam Common comprises low-lying land, supporting senas of improved grassland and locally extensive areas of rush pastner typically modified from the semi-samani state, with very occasional Purple Moor-grass grassland. The fields area largely defined by weak field boundaries, typically lines of scattered scrub and occasionally meet substantial low trees. The area is in contrast the adjacent alopes leading towards Cefn Hingoed, supporting more strongly semi-natural vegetation, with and acid grassland and Bracken monaic and locally extensive snattered Gorse scrub.

Low lying land at the east of Hirwann Common, support extensive rath pasture vegetation, with inoderate semi-natural character, but grassland with strongest semi-natural characteristics is generally localised, confined to patches of Purple Moor-grass dominated grassland. Where this grassland is present there is generally dense Bracken encreachment, and this is typically present adjacent to Nant Crymlyo, defined by a line of Alder woodland with Ivy and occasional Hazel. The adjacent Pencoed ridge supports scattered Gorse scrub and extensive Bracken over unimproved acid grassland, with lines of significant woodland with strong semi-outprat character, primarily Oak and Alder woodland.

On the storp scarp face of Cells Hiegoed is an impoversibed acid grussland vegetation, with extensive Bracken and Gorse invasion, part of the extensive Cells Hirgoed SNCI. On the plateau there is extensive Purple Moot-grass with Cross-leaved Heath, Heather, Soft Rosh and grassland comprising Matgrass with Bent and Foscue species. This is an important area for conservation of this distinctive semi-natural grassland community, providing a low-level outlier of a combination of grassland types that are characteristic of highlevel areas within the upland dissocted plateau of the Oper valleys.

At Cefn Hirgord, the field system at Heol-las comprises modified Purple Moor-grass grassland into a series

of grazing paddocks, but the grassland is not significantly modified and ottains some semi-matural character. The field system is defined by a network of woodland strips along bedge lines, and these provide a locally valuable assemblage of complementary liabitat types in combination with the grassland.

On the brow of the Cefa Hirgood ridge, a main water pipe has been constructed, and where the pipe trench has been reinstand, agricultural cultivation and seeding methods have been used, replacing the semi-natural grassland with a swathe of agricultural grassland. This is a significant feature in ecological terms, severing the vegetation and habitat interest of the Cefa Hirgood ridge, and has had a significant ecological impact

## Key sames

- Includes an extensive area of semi-metaral lowland wet grassland of considerable nature conservation interost, within a network of field boundaries comprising semi-netural broadleaved woodland strips. The area includes extensive trates of relatively uniform runb pasture vegetation.
- Steep slopes exclosing the areas to the north support extensive areas of semi-matural broadleaved woodland, wildlife habitat of considerable nature conservation value, below high level land supporting valuable optand semi-natural acid grassiand vegetation with locally extensive Bracker.
- Stoep slopes and plateau of Cefn Hargoed support a mosase of semi-natural acid grassland types with local dense Brackm and Gorse. Grassland on the plateau is severed by the line of a recently laid wither pipe.

# Key aims

- Conservation and mhanement of valuable low-lying wet grassland and complementary broadleaved woodland strip babilities.
- Diversification of extensive low-lying righ partice vegetation.
- Conservation and enhancement of broadleaved woodland wildlife habitat within llow-lying wet granuland areas and or storp slopes to the north.
- Conservation and inhancement of spland acid grassland, reinstating valuable vegetatio damaged within area affected by pipeline construction.

- Undertake ecological appraisals of both low-lying wit grassland and high level acid grassland wildlife habitate to identify habitat management priorities. Undertake apprpriate management within areas of grassland habitat interest, and implement a programme of creative conservation within adjacent land to consolidate the value of the area for grassland habitat posservation.
- Undertake sympathetic management of som-natural field boundary broadleaved woodland strips and implement a programme of habitat rehabilitation where inappropriate management or neglect has reduced the nature conservation value of hedgerows.
- Undertake ecological appraisals of semi-natural broadleaved woodland wildlife habitats to identify

habitat management priorities. Undertake appropriate management within areas of woodland habitat internst, and implement a programme of creative conservation within adjacent land to consolidate the value of the area for breadenved woodland habitat conservation.

Undertake a programme of vegetation reinstatement along the bine of piple construction.

# WESTERN LIMESTONE PLATEAU

#### Description

### Physiographic review

This is as atea characterised by a very gently landform, generally lacking features of significant topographic variety. The atea extends from the perimeter of Kenfig Hill in the west at between 130m AOD and 100m AOD, to the outskirts of Bridgend in the east at around 80mAOD. The southern boundary is defined in the west by the edge of Newton Down, extending along the edge of Menthyr Mowy. In the east and north, she boundary follows that of the Lowland Wooded Valleys landscape character area. Principal features of topographic interest are associated with localised steep, south facing slopes of Ceffa Cribwr in the north east, and with shallow valleys at Cwm y Befos and Cwm Cwintin that dissect land above Menthyr Mawr.

The geology of this area comprises a varied assemblage of Mesosoic strats in three main areas. In the pertiof the area, Mesoanic rocks are mainly of the Mercia Muditone group and sandstones of the Penarth Group with areas of Lower Lias. Superficial deposits are also present, comprising mainly head, boulder cley and glacial sinds and gravels. In the soath west, there is a varied essemblage of Lower Carboniferous Lanestone strata comprising bands of Oxwich Head Linnestone, Cornelly Onlite Linnestone and Golly Onlite Linestone, with localised superficial deposits comprising mainly head and boulder clay deposits. In the east there are locally extensive Lower Lias deposits on land either side of the River Outpoint.

Relatively few soil types are present within this area, mainly comprising an extensive area of shallow to moderately deep fine silty and loanty typical brown earths. In the north west, slowly permeable, fine loanty cambic stagnogleys are present on steep slopes below Cefn Cribwr, grading into slowly permeable, seasonally waterlogged clay enriched pelo-stagnogley soils. In the south east, locally high land supports thallow, well-drained fine oilty argiflic brown earths with significant clay enrichment.

#### Principal wildlife habitaty

South cast of Kenfig Hill, high level land supports an area of uncultivated land at Stormy Down, consisting deuse stands of Bracken with patchy scattered sends comprising Goat Willow and Hawthorn. The Bracken is at a sufficient density and extent to be of marginal nature conservation value, and would benefit from management to achieve a more patchy distribution of Bracken and allowing the development of grunter seminatural grasshand interest, likely to be undergoing significant modification from shading by the Bracken natural grasshand interest, likely to be undergoing significant modification from shading by the Bracken natural.

Stormy Down is surrounded by land that has undergone significant modification either as improved grassiand or as quarrying and landfilling, and in nature conservation terms, Storm Down is of considerable local value and significant ecological benefit would be attained from appropriate Bracken management on Stormy Down. There is also Japanese Knotweed here, relatively localized but requiring transgement to control its spread. To the south west of Stormy Down, Cornelly Quarry includes woodland, surab and grassland vegetation of considerable nature conservation value, including vegetation with strong semi-summal calcureous grassland associations.

Above Newton Down is an area dominated by significantly modified land cover, where improved grassland and arabic cultivation are widespread. There are few features of semi-netaral value in this area, and these area isolated areas of Willow scrub with Gerse and Brackee on uncultivated field corners and field margins. There are several areas of conster planation that occupy in places considerable areas, and these are of angligible nature conservation interest. Field boundaries comprise mainly linear, frequently trimmed hedges, typically species poor comprising Sycarnere, Hawthorn, Bracken and Bramble, and these are relatively weak in nature conservation terms.

On land below Newton Down, the area supports predominately improved grassland with infrequently around below Newton Down, the inproved grassland continues. On higher land to the north, on slopes leading to Newton Down, the improved grassland continues for some distance, but is interrupted by areas of Gorse and Bencken over relatively unimproved grassland. There are also blocks of relatively open, semi-natural broadcaved woodland on the bank. The woodland interest continues along the slopes below Newton Down as far as Danygraig, where there are substantial broadleaved woodland blocks.

Land south of Laleston comprises excessive improved gassiand, with a series of woodland blocks, and frequently trimmed hedgerows enclosing the fields. The core area of semi-natural woodland interest is associated with the Cood Cwintin, which extends into the area along a valley bettom, which has a large hedgerow extending from it along the valley bottom.

## Key issues

- An area dominated by extensive productive agricultural land providing few features of nature conservation interest
- Strormy Down and Newton Down provide local areas of semi-natural grassland vegetation with extensive deam Bracken colonization within extensive productive agricultural land.
- Cornelly Quarty includes a variety of features of nature conservation interest including woodland, sorub and grassland of strong semi-natural character.
- Steep sloping land below Newton Down support locally extensiove areas of woodland wildlife babitat, including areas of sens-natural broadleaved woodland.

### Key aimi

- Diversification of the wildlife habitat interest of the exosting extensive agricultural lendscape.
- Maximisation of the semi-natural vegetation interest of Stormy Down and Newton Down by control
  of Brackets encroachaeset.
- Maximisation of the nature conservation value of widlife habitats that have developed within Cornelly Quarry and counting the protection from further quarrying operations of scene that have developed particular interest.
- Maximum the wildlife habitat interest of woodland below Newton Down.

### Key objectives

 Encourage investment in creative censervation on farmland by creation of woodland and grassland wildlift habitats of strong semi-entural character.

- Undertake ecological appraisals of wildlift habitats within Stormy Down and at Newton Down to identify nature conservation and habitat management priorities. Undertake Brackam management on Stormy Down and at Newton Down to enable extension of area of open semi-natural acid gransland vegetation.
- Undertake coological appracials of wildlife habitata within Conselly Quarty to identify sature conservation and habitat management priorizies.

# LOWLAND WOODED VALLEYS

#### Description

#### Physiographic review

This is an extensive landscape character area, including land to the east of Bridgend, land to the west of Bridgend including Nanat Fformwg, and land to the south of Bridgend, including sections of the Ogmore River and the Ewenny River. The northern boundary of this area is defined by high lovel land along the southern boundaries of landscape character areas at Cefn Cribwr and Hirwnian Common, and along the southern boundaries of landscape character areas at Cefn Cribwr and Hirwnian Common, and along the southern boundaries of the Brynmenyn Confluence landscape character area.

West of Bridgend, this area consists of south facing slopes of the Cefn Cribwer ridge in the north, descending from a maximum height of 131m AOD across moderately steep slopes to the valley floor of Nait Effortwa at around 50m AOD. Along the southern boundary of this area are very genily unduilating, north facing valley sides of Nait Effortwa achieving a maximum height of around 90m AOD. East of Bridgend, the area comprises a strongly unduilating landform, varying in lenght from 114m AOD to around 30m AOD, including the distinct, sinucus valley of Nain-Brn-glas. South of Bridgend, most of the land surface is below 50m AOD, with the steepest sloping land present on north facing valley sides of the Ewenny River in the north tast, and on south facing slopes of Cef Hargoed along the northern boundary of this area.

The landform of this area generally reflects a distanctive assembly of geological characteristics, with Millsteee Grit andstone strata present along the high lovel, steep sloping land of the Cefn Cribwt and Cefn Hirgood ridges. West of Bridgend, most land within the valley of Nant Fformwg comprises a locally extensive, varied assemblage of Mesozoic and superficial deposits. The Mesozoic rocks are mainly of the Mercia Machtene group, sandstones of the Peaarth Group and areas of Lower Lias, with superficial deposits mainly consisting head deposits, boulder clay, glacial smith and gravels, and with localised allovial deposits associated with Nant Fformwg

East of Bridgend, the majority of low-lying land below Cofn Hirgood constists of relatively uniform Mesoacie deposits of the Mercia Madatone group, with local sandstones of the Penarth group and localised superficial deposits comprising bead and boolder clay. Predominately allavial deposits are present on the valley botion of the Ewenny River in the extreme east of this area, with localised head deposits on lower valley side slopes.

South of Bridgend, the landscape has been more significantly dissected by the channels of the Ognoore River and the Ewenny River, creating in area of more varied geological character. Locally higher land in the south nast and the north west mainly consists of Lower Liassie deposits, with localised accumulations of head deposits within undulations within the Lias surface. Low-lying land between the channels of the Ognore River and the Ewenny River consists of locally extensive glacial nands and gravels with boulder clay, mustly overlying lower Lias deposits. Within the channels of the River Ognore and River Ewenny these are profominately allevial deposits with localized head deposits en lower valley side slopes.

Soils that have developed within this area generally reflect the inflaence of underlying geology. South facing slopes above the Nant Florinog in the nerth west support slowly permeable, fine loamy cambic stagnogleys, grading into slowly permeable, seasonally waterlogged clay enriched pelo-stagnogley soils on gentle north facing slopes above Nant Florinog. East of Bridgend, seasonally waterlogged, strongly gleyed cambic stagnolismic gley soils area extend across undulating land below Cefin Hizgord, grading into locally extensive itselfow to moderatley deep fine silty and loamy typical brown earths to the scoth. In the axirame west, the Eventy River flood plain supports examisive freely draining, coarse and fine loamy brown allovial soils.

South of Bridgend, locally high land above the Ogenere River support shallow, well-dramed fine silty argillie

known carths with sigificant city enruchment. High land above the Ewenny River supports slowly permeable, seasonally witterlogged city miriched pelo-stagnogley soils. Shallow to moderatley deep fine silty and loany typical between thethenpole of the Ewenny River and the Ogmore River, mainly supporting freely draining, coarse and fine loany brown allevial soils.

## Principal wildlife habitate

East of Bridgered, from Colty through Bragdy to Hotre the austhalating landscape is occupied by a distinctive small scale field pattern that includes both improved and anni-improved grassland. Field houndaries are well defined in this area and comprise lines of mature Ook and Ash standards with an undertiferey of Hazel, local Holly and Hawthorn. The field boundaries are present at a relatively high donaity, enclosing a relatively small scale field pattern, and this provides a framework of significant field boundaries with potential as woodland habitat. In places, the field boundaries are in a state of deterioration and have developed significant gaps and are present as lines of isolated mature standard trees.

Within land to the north of Shelf is an area with a series of locally significant semi-natural breadleaved woodland blocks. The woodland is present within a gently unfolating landform, supporting largely semiimproved and poor semi-improved grassland with locally more significantly improved grassland. In places the field boundaries are defined by frequently trimmed bedgerows, but the majority of field boundaries are large hedges that comprise Oak and Ash standards with Hazel, Holly, Field Maple, Hawthons, Field Rose and Dog Rose. The majority of woodland blocks are set within a matrix of large field boundaries, and consequently, woodland habitat connectivity is strong. Many of the woodland blocks are structurally varied, but some have developed a more uniform structure through the prevention of tegenmenton by browsing attock within woodland blocks.

West of Bridgend at Peo-y-fai common, the common supports dense Bracken and Gotar with extensive mature scrub comprising Downy Birch, Hawthorn, Blackthorn and Gott Willow. In places anni-matural grassland vegetation is present, a combination of acid grassland, damp Tufted Hair-grass and Purple Mocrgrass grassland with Saw-wort in low-lying areas. The vegetation as not been significantly modified or improved, and as a consequence, in invite at this site is that it is of some local interest for the conservation of unimproved sensi-natural wildlife habitat. Woodfand at Coed-y-wasus comprises mainly planted Sycamore and has relatively little sensi-natural character. The woodfand is an even-aged plantation, with a uniform structure, lacking significant sub-campy or shrub layer elements. The woodfand edge includes some Holly, Hazel and localized Sessile Oak standards, complementary to the grassland and scrub monaic at Pen-y-fai common.

At Court Colman, there are frequent areas of mature planted broadleaved woodland, mainly comprising mature sycamore, typically with a weak woodland habitat structure. The woodland blocks area associated with a number of stream valleys and extend across woodland at Pant Fame as far as Cefficiellow Wood and along to woodland at Ten-gwyn and to the outskirts of Pen-y-fai.

Between Bridgend and North Conselly in an area where improved grassland is present extending across significant areas, and where features of nature conservation interest have been marginalised by this improvement process, and are relatively localised and confined principally to remnant woodland blocks. Fields are typically enclosed that are frequently trianmed and offen gappy, comprising Hawthorn and Elackthorn, providing features of low nature conservation value.

Main features of interest are scattered woodland blocks, and these have strong scini-natural character. These are typically broadleaved woodland, with some areas comprising structurally varied woodland habinat composition. A number of woodland blocks are apparently used for cover by stock, resulting in the continuation of grazing into the woodland areas, where woodland regeneration is largely eliminated by

#### between effects.

In low-lying arms, and along the Nam Fformsg, the woodland appears, to include blocks of Willow woodland, with some local distinctiveness, and is likely to have strong semi-natural character. Nant Fformsg creates a relatively weak valley in this area, the most distinctive features being the cluster of substantial woodland blocks along the lower valley sides, associated with the lower sections of the river valley - ipper valley sides and the interflowe ridges are occupied by extensive improved grassland. Along the river channel of Nam Pformsg, there is an unbroken strip of semi-natural broadleaved wet woodland of considerable nature conservation value. This comprises Oak and Poplar and possibly Aspen over Goat Willow, Hazel, Ash and local Downy Birch. Along side the railway line the woodland has been coppeed as part of lineside vegetation management, and this contributes to a diverse woodland habitat structure. There is also locally extensive notable. Common Alder woodland. This woodland complements extensive semi-natural broadleaved woodland at Conditionen and on the outskirts of Cefn Glas.

South of Bridgend, the River Ewenny has an extensive flood plain, with a number of drainage ditches that are long established, and enclose areas of lightly modified allovial gransland. In places the fields are enclosed by lines of scattered Hawthora, Hazel and Ash scrub, but are generally enclosed by wire fences. Along the main river charnel is a line of semi-natural wet Alder woodland which is of nature conservation value, and exampling to Contown is a series of woodland blocks of semi-natural character, extending the babian interest of the Evenary Valley, into the valley sides that typically support improved granuland and arable coltivation on upper valley sides and valley tops.

In the extreme south of the area, land above Coentown is gently sloping, high level land, supporting improved grassland and arable fields, with the result that features of nature conservation internat are generally coeffined to steepest sloping areas of land where cultivation has been least encoessful. In this area, this has resulted in the retainton of semi-natural woodland habitat along Cwin Alun and below Beech Court Farm. This is in contrast to areas of woodland surrounding Wick and St Beide's Major, which is generally plantation woodland and has very weak semi-natural characteristics. Woodland in the Cwin Alus area, in contrast, tends to be derived from room secondary ancient woodland, and the recent secondary woodland is likely to be on ancient woodland sites.

#### Key issues

- Broadleaved woodland blocks of strong semi-matural character are widespread throughout this area, with concentrations of internt adjacent to Coity, along the valley of Naturt Fforming and at Pen-y-fai common. Many woodland blocks have a weak habitat structure due to supression of regeneration by grazing;
- Field systems are typically small-scale, with field boundaries marked by large hedgerows and woodland strips enclosing fields that include areas of semi-natural grassland.
- Consumation function operation interest are enclosed by extensive tracts of improved greashind that inforders isolated features of local nature conservation interest.
- Alkevial grassland with relatively strong semi-natural character is present on the flood plain of the River Ewenny, where localized blocks of reparian woodland provide some habitat structural diversity.

Key aims

- The conservation, unhancement and cossolidation of existing areas of woodland and grassland wildlife liabilist of nature conservation interest, minimizing further losses of semi-natural vogetation
- Maximise the nature conservation value of the system of field boundary woodland strips through enhancing woodland labitat structure and composition.
- Maximise the nature conservation interest of extensive improved grassland by enhancement of existing features of value and by consolidation through introduction of additional wildlife habitats.

## Key objectives

- Undertake ecological assessment and management planning of core areas of wildlife habitat, with the objective of identifying coherent countryside management units, focusing on woodland, grassland and ripartan habitat, to identify vegetation management priorities.
- Provide grazing exclosures aropind woodland blocks and along wooded field boundaries to incourage regeneration of woodland babitat and to mable tree and shrub planting.
- Implement a policy of creative conservation within extensive improved graniland to enhance the musting network of wildlife habitat, including woodland, grassland and wetland habitat types.

## VALE LIMESTONE PLATEAU

### Description

## Physiographic review

This area is generally characterized by an extensive, gently undulating low level plain, with some topographic interest provided by the Alun valley in the north. In the east, the area boundary follows that of the administrative boundary to a point south west of Wick, where it follows a gentle, rounded change of slope above the coastal margin at between 60m AOD and 93m AOD. In the north the boundary follows the edge of Ognore Down before joining the boundary of the adjacent Lowland Wooded Valleys landscape character area above the river livenary.

North of Wick, the Alun valley is a broad, indistinct features, becoming more storp-sided at Castle-upon-Alun and forming a samous, dissocted ravise through locally high level land at Old Castle Down and Ewenny Down. A feature opf similar character is provided by the steep-sided valley of Pant St Bride's, between Old Castle Down and Ognore Down.

The geological charcutre of this area comprises two main strata. Land in the south cast consists mainly of lower Line, with local deformation by fault systems, and localised accumulations of head deposits present within local undelations in the surface of Line deposits. The north west of the area comprises mainly High Tor Linestone with local Onlitic and Deformation Linestone deposits, and along the Alun valley in the north east there are proformately allovial deposits within the valley bottom, with localised head deposits on lower valley sides. On steep alopes at the edge of Ogmore Down in the north west there is a local area of blown sand as superficial deposits over Dolomitised Lower Carbonifecous Linestone bedrock.

The sols of the area closely reflect the gelogical character of this area, with shallow to moderately deep well drained fine silty typical bown earths over Limentone deposits in the north east, and learny, well drained argillic brown earths with significant clay enrichment over the Liassne deposits in the south east. Extending acres the area to the north of Wick is a soction of slowly personable, seasonally waterlogged pelo-stagnogleyic noil, and on the wind blown rand fringing Ogmore Down there is a local area of shallow, immature sand pararendents soils.

### Principal wildlife hobitary

Lated around Wick supports extensive fields of significantly improved grassland where features of nature conservation value are localised, and are marginalised. The fields are extensive rectilinear and are typically defined by networks of frequently trimmed species poor hedgerows comprising Hawthorn, Elder, Ash and Holly. Arable is also primerit in the area. Land of most nature conservation interest is that in the immediate historiant of Wick, where the field pattern is a smaller scale, and where grassland is modified but less significantly improved than surrounding improved grassland. The field systems in these areas are defined by infrequently trimmed large hedgerows. In addition, this network includes a series of significant blocks of serub, and semi-natural broadleaved woodland. The small scale field pattern is of nature conservation interest, and of particular note at Try-pit has been identified as a SENC.

Woodland at Past y groes is one of the most significant features locally for name conservation interest, set within a landscape of improved grassland with negligible features of wildlife habitat value, where seminatural characteristics have been entirely modified through extension of improved grassland. The woodland at Pant y groes is a shelter belt and has weak semi-natural characteristics, comprising mainly planted Sycarrore with some Pine. Ash and Beech. The plantation is relatively unmanaged, and is even-aged with a relatively uniform habitat structure. The woodland strip extends to the coast, and a key potential interest is as a breeding or stop-over site for migrant passerine birds. Its value in this respect would be enhanced considerably by the creation of a more varied habitat structure.

At Blackhall, this location marks the start of an area of significant nature conservation interest to the south of Braigend. It marks the source of the Afon Akus, and the head of Cwm Akus is strongly associated with features of interest at Cong Ddu and Coed y Wallas and at Old Castle Down. Woodland in this area includes Ash, Hazel and Holly, and includes the Coed y Bod Glansorgan Truss reserve. Where the Akus flows through the woodland it has a strong meander physiography, creating as area of interdation vegetation and redswamp, providing considerable habitat structural diversification. At this point the woodland character is varied, including areas of valley bottom Alder and Ash woodland. The river flows through this area in a variety of braided character, with a valuable squatic microphyte vegetation, and is likely to be of considerable interest for ripatian invertebrates, birds and otters. Along the edge of this area, wildlife babitats have mederate semi-natural character, comprising mainly under managed shelterbelt woodland enclosing farm baldings and areas of semi-improved grassland. Adjacent land supports manaive improved grassland in large fields enclosed by frequently trimmed uniform hedgerows, In consequence, this area is of considerable local nature conservation importance, diversifying an area where features of nature conservation interest have born significantly modified by extensive intensive agricultural land use:

Land along Clementstone Brook above Tynewydd is an area of undalating topography, where sloping land supports highly productive geneland in extensive fields with very localised areas of peorly drained land with rush pasture and enclosed by infrequently trimmed hedges. In general, this area is typical of the surrounding agricultural landscape, and where features of nature conservation interest have generally been replaced and modified by the improved graniland. The damp grassland and large hedges are of some interest, however, and this extends in a relatively immesting corridor along Clementstone Brook.

Woodland along the Afon Alon forms a continuous strip along the valley of the river which has been worked for annall scale quarrying in the past, and the valley sidos include a series of rock faces providing local topographic variety. The river a good meander physiography, flowing through a strip of reedewamp with intradation vegetation fringed by extensive semi-natural broadleaved woodland clothing the varied alopes of the valley sides. The woodland is an Oak-Ash canopy over Hazel with Holly and Dowey Birch, and is a valuable area for the conservation of woodland labitats scheding a number of locally nignificant ground flora species such as Dogs Mercury, Wood Faise-brons, Wood Sodge and Herb Bennet. The woodland is not in any obvious management regime, and has a varied high forest structure.

Above Contown, high level gently sloping land supports improved grassland and arable fields, with the result that features of nature conservation interest are generally confined to steepest sloping areas of land where cultivation has been least successful. In this area, this has resulted in the extention of armi-natural woodland habitat along Cwm Ahm and below Beech Court Farm. This is in contrast, to areas of woodland surrounding Wick and St Bride's Major, which is generally plantation woodland and has very weak arminatural characteristics. Woodland in the Cwm Ahm area, in contrast, tands to be derived from recent secondary ancient woodland, and the recent secondary woodland in likely to be on ancient woodland sites.

Old Castle Down and Ognore Down is a significant area for the conservation of limestone heath vegetation and calcareous grassland vegetation. A key issue in this area is undernumagement of the vegetation, where side slopes and areas on the common plateau are undergoing colonisation by significant areas of Gorse and Bracken. These species are baving a modifying effect on the grassland through shading and enrichment, and this is likely to suppress the regeneration of stress tolerare plant species that are characteristic of the seminatural grassland and limestone heath quality of the area.

Land at Beacons Down consists of large fields occupied almost entitely by improved grassland and defined

by frequently trimmed, uniform hedges and include few features of nature conservation value. Features of nost interest are associated with outliers of Ognore Down and Beacon Down at Part Norton and Pant Mari Flanders. These contain areas of rough semi-natural grassland with Gorse and Bracken and are locally vulnable as diversifying the wildlift habitat interest of this extensive egricultural plain. They are valuable in extending the core area of Ognore Down and Beacons Down into adjacent land.

Issue:

- There is significant marginalization of features of nature conservation interest in this area of extensive fields of improved grassland and arable cultivation, with localized concentrations of considerable semi-natural and near semi-natural wildlife habitat interest.
- Land at Blackhail incudes a variety of features of nature conservation interest, providing a buffer between the surrounding agricultural landscape and a locally extensive area of ecological value along the Alun Valley, including woodland of national importance at Coed y Bwl SSSI.
- Old Castle Down, Ogmore Down and Beacons Down are of particular importance for the conservation of semi-natural graveland wildlife habitate, including examples of national importance at Old Castle Down SSSI. In addition, nationally important seminatural graveland is also present at Clementatione Meadows SSSI.
- Important grassland wildlife habitat at Old Castle Down, Ogniore Down and Beacons Down is under threat from invasive Gorse scrub and Bracken cover, resulting from a lack of appropriate vegetation management.
- The section of River Alan flowing through this area is of high quality and supports a variety
  of riparian wildlife habitats of particular value and importance.

1.0

Key aims:

- Conserve, inhance and where appropriate consolidate the areas identified as of particular rature conservation importance, addressing issues of inappropriate vegetation management within nationally important grassland sizes.
- Ethance the nature conservation value of the wider agricultural landscape by widdlife labitat diversification.
- Maintain the quality of the River Alon riparian environment and associated features of nature conservation interest.

### Key objectives

- Endertake ecological appraisals of wildlife habitant within key areas of nature connervation interest to identify nature conservation and habitat management priorities. Undertake Gorse acrub management and control of Bracken spread on key grassland sites to maintain areasof open gransland wildlife habitat.
- Undertake ecological appraisals of wildlife habitats within wider agricultural landscape to identify and appraise fragments of nature conservation interest.

- Encourage investment is creative conservation on familiard to reduce marginalization of features of
  wildlife labitat interest and to increase the community of wildlife labitat fragments within the area.
  Achieve this by coation of woodland and grassland wildlife labitats of strong semi-matural character
  in areas of least productive land and by relaxation of intensive bedgerow management policy to
  enable development of stronger network of linear wildlife labitats.
- Undertake appraisals of environmental quality within the River Ahan and maintain aspects that are of particular nature conservation largortance.

### HERITAGE COAST

### Description

### Physiographic review .

This landscape character area comprises two main sections, Merthyr Mawr Warren, Newton Burrows and the Ognore River in the north west, and the coastal strip south east of Ognore-by-sen. In the north, the boundary follows land at between 15nt AOD and 60m AOD forming a crescent of high land enclosing the dune system of Merthyr Mawr Warren. The boundary crosses the River Ognore at between 9m AOD and 10m AOD at Merthyr Mawr before according steep slopes to the edge of Ognore Down at around 75m AOD. The boundary continues along the edge of Ognore Down to the south west, rising to a height of 93m AOD above Ognore-by-Sea. From this point the boundary follows gently indulating land above the coastal margin between 60m AOD and 90m AOD to the south east.

This landscape character area comprises a variety of distinctive geological characteristics that have had a direct effect on shaping the scenary of the area. Morthyr Mawr Warren is a date system comprising wind blown sand that has developed as a superficial deposit over Dolomitised Lower Carboniferous Linestone bedrock, outcropping within the distal end of the River Ogmore valley. High ground enclosing the date system to the north west marks the southern extent of a locally extensive outcrop of Oolitie Lower Carboniferous Linestone. In the north east, the date system is enclosed by the edge of a locally extensive area of Lower Line strata. Along the valley bottom of Ogmore River, a variety of superficial deposits are present, comprising mainly allurial deposits along the valley bottom, with areas of glacial and and gravel, boulder clay and head deposits.

Between Ognozo-by-Sea and Duzeuven Park the boundary of this landscape character area follows the edge of a locally extensive section of Oelitic and Dolomitised Limestone to the east, in contrast to the section of Lower Lina within the landscape character area. In the north of this section, Oelitic and Dolomitised Limestone outcrope along cliffs below Ognore-by-Sea, and in the south, Lower Line underlies all fand within the landscape character area and estends to the east.

A variety of soil types are present within the landscape character area, and these are closely associated with the prevailing geological characteristics. Well-developed, non-altuvial learny between earths occur over higher level land comprising Ooline Linestone and Lower Lins strata enclosing Merthyr Mawr Warren, with shallow, immutare and pararendzinas developed over unconsolidated calcareous and deposita. The acuthere section of this landscape character area extending along the coastal fringe supports mainly well-drained, shallow, typical argittle brown earths, with significant subsoil elay enrichment.

### Principal wildlife habitate

The physiography of this landscape character area has produced a range of contrasting features of considerable nature conservation interest, reflecting the diverse landform and variety of manimie and terrestrial influences that predominant the ecology of different parts within the area.

The dame system at Merthys Mawr Warren is an extensive feature, supporting a varied mesate of wildlife habitata, including calcareous grassland and duoe slack habitats with areas of armb woodland and localised sections of heathland vegetation. The area includes both stabilised dunes with a significant vegetation cover and mobile dones where windblown said is an important feature. The extent and location of the dune system is reflected in a variety of notable faura groups, including significant invertebrate populations and providing a significant location for system materia conservation, homing both broofing brd populations and providing a significant location for system material conservation. a stop-over location for magnet species and a significant site for wintering hird populations. The outstanding scological interest of Merthyr Mawr Warren is recognised by its designation as a Site of Special Scientific learest (SSSI), and combined with Kendig Pool and Dunes, its identification as a proposed Special Arus for Conservation (pSAC). This is in accordance with the EU Directive on the conservation of natural habitats and of wild flora and finana (92/43/EEC), and is recognition of the importance of Marthyr Mawr for the conservation of a number of wildlife habitat types and species at a European level.

Bounding Methys Mowe denses to the south east in the Opinero Estuary SNC1. This is a tidal section of the Ognore River supports a variety of aquatic and semi-aquatic wildlife habitats with varying degrees of maritime influence, including extensive areas of intertidal soft sedement wildlife habitat fringed with submarsh vegetation and tidal immediation grassland. This grades into allurial grassland it Ognore Moor, on the flood plain of the Ognore River, an area subject to occasional flooding. This is largely open grassland with few diversitiving features, confined to scattered scrub, and a belt of more continuous scrub along the main river channel. The Moor isoclades a series of drainage dichest and has an undulating surface which retains areas of open water to create a series of pools, enhancing the wetland habitat value of this area. The combination of these elements regults in an area of particular interest birdlife, notably with the intertidal soft sediment providing rich low tide feeding habitat for variests species of waters, with higher level salimanah, immidation and allavial grassland providing high tide feeding areas.

On steep side slopes of Ognors Down above Ognore River to the south, calcaseous grassland of interest continues around and develops some localised areas of less base rich grassland and these are being colonised by Gorse and Bracken. The mature conifer plantation at Past y Cwerti on the valley sides has resulted in significant modification of the grassland interest through soils acidification and shading.

The nature conservation interest of the southern section of the landscape character area comprises features of value are associated with exposures of Limestone and Lias deposits along the cliffs and wave-cut platforms, and with the variety of grassland, woodland and scrub wildlife habitats on land above the cliff edge. The cliffs and wave-cut platforms are especially noted for their geological interest, with sections designated as a geological SSSI at Southern Flats and at Southern-Down Coast, both meas including a combination of cliff exposures and wave-cut platforms. Notable features within land above the cliff edge are valleys at Durraven Park, Pant-y-groes, Cwm Mawe and Cwm Bach. These are typically wooded valleys, where steep valley sides have prevented significant improvement, and generally have strong semi-satural qualities, particularly notable for populators of passage magnant and breeding passerine birds. In many locations the woodland is part of a complex measure with complementary, non-woodland wildlife habitat, adding significantly to the nature conservation interest of these valleys, including many specialised coastal vegetation types that have developed under the influence of salt-laden outfore winds. Included within the series of wooded valley systems are Slade Wood SNCI and Cwm Mawr Wood SNCI. In addition to the notable ecological elements within this part of the landscape character area, significant colonies of high brown thitlary are kown to oecus.

## Key Issues

- An area of international nature construction importance, including an outstanding variety
  of natural and semi-natural coastal wildlife habitat types, including saud duor, salt murch
  and tidal grassland, rocky shore, soft shore, cliff and cliff-top grassland and woodland.
- Widdlife habitat quality is under threat from effects of recruition pressure, coastal erosion, river-bonne and tidal litter accumulation and spread of invasive Japanese Knorweed.
- Many of the area's most valuable features are maintained by complex and wide-ranging

### coastal processes

Area designations on at locally valuable areas of contiguous wildlife habitat, connected by physical coastal processes

## Key aims

2

- Ensure conservation, enhancement and consolidation of features of numer conservation interest, maintaining wildlife habitats of international importance as a priority.
- Ensure that threats to nature conservation interest from litter accomplation and inappropriate recreational uses are minimized.
- Identify principal coastal processes, and ensure that they are maintained and where appropriate enhanced. Characterise important relationships between natural processes and land use patterns.
- Ensure that contiguous and interdependent features of sature conservation interest are represented in frameworks of site designation and protection.

### Key objectives

- Implement a programme of ecological appraisal and management planing to identify management priorities, notably those arising from lister accumulation and mappropriate recreational uses.
- Undertake coastal process apprairals with a view to identifying key management and onhancement requirements. Characterise principal relationships between natural processes and land use characteristics.
- Rationalise frameworks and mechanisms for site designation and protection to include costiguous features of value and importance.

## KENFIG DUNES

### Description:

### Physiographic review

This area murely comprises the extensive date system at Kenfig Burrows, and includes localised sections of surrounding land. The eastern boundary of this landscape character area stoloses Watersheet Dunes, moth rast of the M4, passing to the cast of Kenfig village and crossing Kenfig golf course as far as Parc Newydd Farm in the south. The southern boundary of the area outouds west from Parc Newydd Farm along the access road to Sker House, following the south western edge of the dune system to Sker Point.

The area is defined by a distinctive assemblage of geological characteristics and soil types, comprising superficial deposits of blown sand over Mercian Mudistones at the distal end of the River Kenfig valley. Mudistones outcrop through the and deposits as a local area of high level ground west of Kenfig vallage, and in this area, the impermeable atrata support Kenfig pool. Soils within the main dasse system are mainly thin, immisture sand pararendarinas that have developed over unconsolidated calcareous and deposits. Where Mercian maditores outcrop in the cast of this area, generally well-drained, non-alluvial, loanty brown earths have developed.

### Principal wildlife habines

Kenfig Wamm contains one of the largest date systema in south wales, and the dates have an extensive aeminatural vegetation cover, revealing few areas of bare sand. The vegetation is varied, including a mosaic of calcicolous grassland, with areas of more mesotrophic and local calcifuge grassland on date soils where latching has reduced the base content. The assemblage of centrating vegetation types is of interest, but these include a number of notable plant species that are of importance at national and international levels.

Wildlife habitat atractural diversity at Kenfig is enhanced by duae slack flora, and areas of these scrab woodland, and by Konfig Pool, an extensive freshwater dunc lake supporting a rich aquatic and semi-squatic vegetation, including both shallow marginal, amorgent and subsecred vegetation elements. The exame and variety of distinctive wildlife habitat types present at Kenfig support a range of notable fairna groups, including a diversity of specialized invertebrate species. Kenfig Danes is also noted as an important location for birdlife, hosting significant breeding bird populations, providing a stop-over location for migrant species and a significant site for wintering populations.

The constanding ecological interest of Kenfig Dones is recognised by a cascade of statutory designations in accordance with domestic and European legislation. This includes notification of the area as a Site of Special Scientific Interest (SSSI), a Local Nature Reserve (LNR), and a National Nature Reserve (NNR). In conjunction with Monthyr Mawr Dunes, Kenfig Dunes has also been identified as a proposed Special Area for Conservation (pSAC), in accordance with the EU Directive on the conservation of natural habitats and of wild flors and fauna (92/43/EEC), in recognition of the value of these areas for the conservation of a manifer of wildlife habitat types and species at a European level.

Between the Kenfig pSAC and the aurrounding agricultural land is the Kenfig golf course, comprising extensive areas of modified fairway vegetation, but including significant tracts of remnant date system. This comprises relatively unmodified date grassland with areas of dense and scattered series and of significant Bracken colonisation on leached date soils. The hinterfand to the golf course and the NNR is characterised by extensive fields of improved grassland and local arable fields, the large scale field system typically enclosed by wire forcer, scattered Hawtheen scrub, and locally with areas of denser acrob comprising Hawtheen, Gost Willow and occasionally Cuk.

## Key Issues.

- An area of international nature conservation importance, including an extensive and varied psoemblage of sand dune wildlife habitat formations and spocies.
- In places, nature commvation interests are under threat from inappropriate recreational une
- Area designations are not comprehensive and omit sections of valuable wildlife habitat, notably areas of dure habitat severed by the M4 and the administrative boundary following the River Kenfig.
- Many of the most valuable features are maintained by complex and wide-tanging coastal processes, and the Kenfig dune system is part of a more extinsive dune system.

### Key aims

- Ensure conservation, enhancement and consolidation of features of particular nature conservation interest, ensuring that threads to nature conservation interest are minimised.
- Provide a more coherent framework for site appraisal and management, rectifying montalies in protected area boundaries.
- Identify principal elements of coastal processes and reflect these as a framework for appraisal and management, representing coatiguous and interdependent aspects.

## **Key objectives**

 Implement and monitor a programme of ecological appraisal and wildlife lightant management, as part of a programme of wide-ranging appraisals to characterise the interaction of natural processes and human activity in maintenance of the Kenfig Dune system.

identify the extent of non-designated features complementary to the core terms of primary nature conservation importance at Kenfig and incorporate into programme of assessment and management planning.

# PORTHCAWL HINTERLAND

### Description |

### physiographic review

The boundary for this landscape character area is defined in the north west by the boundary of the Kenfig Dunes landscape character area, and to the north east by the boundary of the western limestene plateau landscape character area. To the south and east the area is bounded by the undeveloped coastline between Sker Point and Pertheawl, and the developed coastline of Portheawl.

The area is characterised by complex geological features, with superficial calcareous sand deposits in the north west over Mercian Mudstones and over Delomitised Lower Carboniferous Linestone on the south east. Portheawl is utuated on an area of Lower Carboniferous Linestone, outcropping along the coardine, and grading into coastal outcrops of Mercian Mudstone in the north east. Mercian Mudstones are present as extensive state north and east of Portheaul, grading into localised areas of Lower Carboniferous Limentone along the boundary with the western linestone plateau character area

Soil types within this landscape character area reflect the influence of underlying geology. Shallow, immature and paramodolaus have developed over sand deposits in the north west and the south east, and a variety of non-alluvial typical brown earths over Mercian Mudatones north and east of Portheavil.

### Principal wildlife habitant

The combination of econosive agricultural improvement and development within Porthcawl have reduced features of nature conservation interest to a variety of localised fragments, and these are multiply along the coastline and within Porthcawl. The field system enclosing Porthcawl typically comprises a large scale pattern of improved pasture fields defined by weak field boundaries of wire fraces and frequently trimmed hedgerows.

Along the coastal strip, notable rocky shore wildfulle habitat is present at Skir Rocks SNCI, Locks Common SNCL Rych point SNCI and Black Rocks SNCI. Locks Common SNCI also includes notable maritime clifftop grassland vegetation. Within Portheawl, a number of undeveloped spaces contain features of interest, including Trafalgar Wood SNCI, The Wildemass SNCI, Nottage Coart Wood SNCI and Pwill y Waan SNCI.

### Key Issues

- Developed coastline within Ponthearol reduces the continuity of coastal features of manage conservation interest.
- The landscape narrounding Portheast is characterised by extensive fields of improved grassland with few features of nature conservation interest, confined mainly to clifflep semi-outural grassland and southered woodland blocks.
- Secons of undeveloped comfine are important for the conservation of rocky shore wildlide habitat.
- A series of locations with local nature conservation value are preset within Portheawl, diversifying

the ecological value of the developed area

# Key aimi

- Enhance the nature conservation value of features within the Porthcawl section of developed constilling to maximize continuity of coastal wildlife habitats.
- Conservation, enhancement and consolidation of rocky shore and cliff-top somi-natual wildlife habitata
- Enhancement of the wildlife habitat value of improved grassland surrounding Portheasel, and of acuts
  of nature conservation interest within Portheasel.

## Key objectives

- Undertake ecological assessment and management planning of one areas of wildlife bahitar, with the objective of identifying wildlife habitat management management priorities.
- Enhance and consolidate the nature conservation value of the area by sensitive wildlife habitat management of existing sites of interest, and by implementing a programmer of creatizive conservation within Portheawi and within surrounding agricultural land to maximise the area's nature conservation resource.

# PART 4 PLANNING CONTEXT AND STRATEGY PROPOSALS

### PLANNING AND LEGISLATIVE FRAMEWORK

### Nature conservation

Current statutory framework policies aim for the following

- Definition and communition of biodiversity innotation through biodiversity action planning.
- Systematic identification and protection of special terms through site and area designation frameworks.

The committeest to formal biodiversity conservation and Biodiversity Action Planning derives from commitments made at the 1992 Rio Earth Summar, translated into demontic guidance by the United Kingdom Biodiversity Strategy. This requires the preparation of biodiversity conservation targets as national and local bracis, and implementation of various action plant to achieve these targets.

The legislative theremode for also designation derives from a variety of statisticity instruments at European and dominic levels, multileg in a biscourty of size designations as follows.

DESIGNATION	LEGISLATION COMPETENT ALTEORITY
SINC	Toms and Country Planning Ann. Hiridgend Country Strength
siste	Netional Parks and Access in the Countrysials Act 1940 Wildleb and Countrysials Act (1991) Countrysials Council for Wales
LNENGE	National Parks and Access in the Countryside Act (P40) Countryside Caccult Se Water Bridgend County Seconge
197A Just in thely area	Tests Directory Countryside Council Re Wales, South Council Re Values Countriation.
Apric	Helstats Divertien, Connervative Regulations Countryside Council Sv Walat, Soon Council Sv Nature Council along

This current designation system has developed most significantly in response to the European Directive on the Conservation of Natural Habitate and Wild Flora and Faune (92/43/EEC), the Habitate and Species Directive. This is the primary legislation for designation of Special Areas for Conservation. These are sites identified on the basis of species or habitat types of European nature conservation importance. These is also a requirement within the Directive for ecological appraisal to include assessment of hodiversity internate at the landscape scale, to represent nature nonservation interests outside the boundaries of designated sizes. The Ogwr Wildlife Strategy is the current base document for nature conservation policy in the borough. It identifies a nature of disorete provisional SNCIs where salter or servation is of amportance. In general, this approach is not in accordance with current legislation activity the lack of provision for features of nature conservation interest that exist conside the provisional SNCI boundaries. On the back of provision for features of nature conservation interest that exist conside the provisional SNCI boundaries. On this bases

It is recommended that a biodiversity action plan is undertaken by the borough and a systematic survey and evaluation of stars carried out to evaluate appropriate and constitute designation of stars of nature concernation interest Biodiversity Action Plan needs to be integrated into a framework for wider constrained management.

#### Integrated Countal Zone Management and Planning

The continue of Ogity is a particularly important hadroupe, datum conservation and heritage resource. It is also used conneively for tourism and recreation with resultant conflicts in some areas. The physical and biological precesses that shape the continue and the administrative and institutional frameworks for its management are extremely complex. They transcend homogli administrative toundaries and require tounderation at a broader scale which in part is already being done. However, donote this the existing materia does not address all the mean satisfactorily.

It is incommended that the control powe is identified as a discrete control management unit relating in the whole of Sources Bay for the purpose of trangrating the institutional, organizational, legislattice and administrative aspects undertaken by the relevant authorities. The Borough could take the lead to in integrating its constal planning with neighbouring authorities.

It in recommended that coastal zone management plan is developed for the Bridgend coastal tane area, comprising a therefore management plan and an avegrated intervidal presential management plan, setting out a framework for integration with neighbouring addiantics.

### STRATEGY.

#### Overall Strategy

The landscope of Study Area is characterised by a varied ecological resource, recognised by a diversity of size designations including Special Protection Areas, proposed Special Areas for Conservation, Sites of Special Scientific intenst, National Native Reservey, Local Nature Reserves and Sites of Nature Conservation Interest [see Figure LS3]. In stammary the key ecological interest of the borough is as follows:

- The counted zone boarts the main designations with Kenfig Fool and Dunes Dunes National Nature Reserve and SSSI, Merityr Mawr Warren SSSI, both of which are proposed to form a single Special Acts for Conservation. There are also a transfer of geological SSSIs along the Glamoryan Heritage Count. These areas of sensitivity are under pressure from recreational use in some areas.
- In Mid Ogier, the main ecological interest is split between perior matural woodlands in the Coley and Court Coleman areas, colearense grassland and heatbland on the larestone plateers, and river corridors such as the Alan. These are under greatest threat from agricultural practice mich as overgraving of some woodlands, and the drampe and improvement of some grassland states overal marshy grassland areas within Mid Ogive are notable for supporting broading populations of the Marsh Fritiling batterfly.
- In the Valleys, the key interent in the sense unitaral woodlands on the valley sides and mid graniland and heathand on the upper valley sides and planna. Attempted conversion of high level graniland to improved particle with high forage value and imappropriate management have load to extension of Gorse, Brackes and other surphy tempting at loss of valuable semi-metaral graniland wildlife highmats and species. Confirm affirestation also has reduced the outlogical value of some areas.

An overall, problem in the fragmentation of habitats through development and patterns of land management. In addition, the obstigling nature of land management through a decline in traditional land management practices and a doclining agricultural labour force are important factors in shaping the current nature conservation resource.

Depite the widespeed application of existing site designations, and significant developments in the current statutory planning context (notably through the effect of the EC Publicats and Species Directive), a number of general usage regarding planning for biodiversity concervation and countryside management exist within the Coastly Borough of Bridgers]

In some situations, min designations have accomplain to the alignment of designation boundaries. This includes situations where flattance of value and expectators are omitted and are therefore not afforded appropriate protection. This situation may have when an electromitaneous where details of landownership to not reflect the pattern of ecological interest at a use, prompting the need for a substary and boundary review. Alternatively, the value of appropriate nature conservation management within land adjacent to designated sizes could be promoted to controlidate the protection afforded by size designations. In addition, the provisional SNCI Damework does not protude a comprehensitive reflection of the area's varied boodiversity massare.

It is recommended that a landscape scale hoodwarsity assessment of the barrough is covered out, complementing and extending relevant work being undertaken by other bodies

It is recommended that core areas of bindeversity purrent are identified.

It is recommended that additional areas of biodiversity interest are defined as complementary bioffer some habitatiand habitat corridors that induce the ecological effects of isolation on fragmented sore areas of biodiversity interest

It is recommended that a formul Biodiversity Action Plan should be developed to provide the Jeicrum for biodiversity concernation within Bridgend County Barough.

It is recomminded that the network of Stee of Nature Canaervation Interest should be reviewed through the process of Biodiversity Action Plan preparation, and consolidated to ensure that all features of biodiversity value and importance are included.

The beyough lasks an administrative sevenure necessary for planning the achievement of biodiversity conservation and wider constructed management objectives

It is recommended that a countryside management service should be developed to private an administrative service and human resource for an integrated service of biodiversity concervation and countryside monogenets. The countryside management service should be structured in a way that complements wider environmental planning objectives such as implementation of Local Agende 21.

Opportunities for stronger community sevel (emint in biodiversity consurvation and countryside management are setbeing taken.

It is recommended that the sensature of the countryable management service should identify a obtar role for two-locment of community groups. Operation of the countryable management service should include a clear commenteent to provision of advice on environmental enhancement to land contex, and guidance on sources of funding.

Organisation of anymountail information is fragmented and is a weak basis for adaptement of bodyerstryoccuservation objectives.

Is a recommended that the countryarde management service should include a communite to excelutionent of a countralised biological recording course for the Bridgend County Boroligh, comprising a partnership of organisations already activaly involved in biological recording.

#### Proposed Biodiversity Action Plan

Bodiversity Action Planning is a hadamental activity for achievement of matainable development objectives, providing a clear definition of the County Borough's biodivecuity reasonce and identifying a systematic firmnwork of prioritised objectives for biodiversity maintenance, enhancement and cossolidation. An administrative structure for Biodiversity Action Planning is proposed that maximises opportunities for involvement of local communities at all stages in implementation of the Action Plan, providing a high profile for countryside management and biodiversity conservation. It is essential that biodiversity action planning within the borough is set within a context of priority biodiversity conservation objectives operating at national and international levels.

Preparation of a Biodiversity Action Plan for Bridgend County Borough has three main simu-

The translation of national biodiversity largets to action at a local level, with preparation of a local

Encoursesity Action Plan to provide a facua for iteral antiations to fulfil local biodynamicy conservation requirements, reflecting the values of local people and a range of provailing local ecotrogenesis) factors:

- To define environmental common values provides as a constant to planning for nontainable development.
- To not as a calabor for aution at the local level, through formation of partnerships for all slages of Active Plat preparation and delivery, and maning awardments of the importance of the headwartery structure.

Proparation of a Biodromain Action Plan for the County Bornrigh respires a number of dimensi activities, grouped into five principle stages.

- Fatablish as administrative framework and set broad objectives.
- Undertake data collection and definition of the biodiversity resource;
- Define bookiversity consumptions objectives and providen.
- Define elements of the biodiversity strategy;
- Draver the blottweath strategy

A variety of organisations are correctly engaged in activities that are complementary to booliversity action planning objectives, including the Glamorgan Wildlife Trust and the Royal Society for the Protection of Birds, and it is essential that complementary affort to coordinated through a partnership approach to biodiversity action plan preparation.

Definition of the biochversety resource should identify core areas of biodiversity importance, as Prime Hiodiversity Assaum important component of the eritical natural capital of the County Berough of Bridgenal. In addition to these score areas, finitures of lower nature conservation interest that no adjacent to and complement the Prime Biodiversity Areas also require identification in defining the County Borough's biodiversity resource. This approach will provide a biodiversity profile for the County Borough that draws from landscape scale ecological approach will provide a biodiversity profile for the County Borough that draws from landscape scale ecological approach will provide a biodiversity profile for the County Borough that draws from landscape scale ecological approach will provide a biodiversity profile for the County Borough that draws from landscape scale ecological approach will provide a biodiversity profile for the County Borough that draws from landscape scale ecological approach will provide a biodiversity areas to be considered as a basis for alernifying a system of countryside management units for the County Borough: A prioritised programme of detailed ecological management planning for Prone Biodiversity Areas should be developed, complementing the preparation and review of site management planning for Sites of Special Scientific Interest, National Nature Reserves and Local Nature Reserves.

Successful Evolversity Action Flaming requires effective deteription, elisistication and evaluation of the Critical Natural Capital of the County Ecough. This would entitic identification of clear biodiversity enhancement targets, and setting thresholds of significant change in the biodiversity resource as a basis for monitoring biodiversity conservation solvenesers. The present system of environmental information management within the County Borough is heighly informal, with data betd in a variety of locations, is a variety of formats and by a combination of endeametic anateur naturalists and professional ecologies. It is therefore recommended that in development of a county-side management arryice a Europework for environmental information management is established.

It is recommended that a formal Biodiversity Action Plan is developed for Bridgend County Borough, and that the Action Plan is adopted as orienal to the organisation of an administrative atouchare for integrated countrysela wanagement, coordinating the attention of appropriate organisations.

It is recommended that an integrated environmental information management system is developed in support of Stadhurvay Actual Planning activities.

# PART 5 - PROPOSED SNCIS SCHEDULE WITHIN THE OGWR BOROUGH WILDLIFE STRATEGY

Sile No.	Site Name	Grid Ref.
1	Newton Disrown pLNR	\$\$\$45771
320	Black Rocks	\$\$\$843768
.85	Ognore Estany	55566762
	Ognore by See	\$\$\$65741
142	Crisig-att Wood	\$\$\$75778
190	Sinde Wood	\$\$\$898735
10	Ognore Down	\$\$894763
11	Kings Wood	\$\$895T66
12	St. Brides Major Pond	\$\$895744
195	Cwm Mawr Wood	\$\$\$8997723
-14	Old Cante Down Wood	88902762
36	Cood y Wallas	\$\$912755
1982	Beech Court Farm	\$\$905768
195	Economy Cross, Rosel Verge	88912768
- 20	Tingle Wood	\$\$911775
21	Tag Cross	\$\$915765
22	Chapel Wood, Ewenny	88915774
23	Gross Uchaf, Trepit.	88916721
- 24	Biscon Town Pond	\$\$919721
20	Curninson Road pond	\$\$921776
17	Lisergha Point	55921754
28	Longlands Quarry	\$\$\$927773
30	After Reafig	\$\$815828
31	Redied Ferk	SS779834
35	Sket Rocks	\$\$787797
10	Stor Ferm Dunes	SS790801
- 58	Pink Big, Parthaunt	55797793
39	Pyle and Kenfig Golf Course	\$\$805805
40	Siter Pool	\$\$802792
-0	Look's Common	85795785
41	Verville: Marthyy Mawe	\$\$\$12729
35	Moor Lane Pond	SS815792

Opua Environmental Design

395007'N960416.D8

die No.	Site Name	Grid Ref.
44	Trafalger Wrest	358817775
45	Notage Court Wood	55851785
46	The Wilderses	SS823776
42	Ty Tangiwyat Wood	55827806
38	Grow Common	55827796
49	Rhych Print	55824764
- 00	Centrelly Querry	33825803
<u>\$1</u>	Pello-Wen	SSE30779
8	Fireg Peerd Wood Mendow	\$\$\$28822
53	Old Ballar Wood	\$\$\$31807
54	North of Pyle	55834833
55	Past-y-Hyl	\$\$\$\$37794
56	Footpeth Wood	\$\$834807
57	Newton Point	85836763
58	Kently Hill Field	\$\$\$R(2819
55	Kentig Hill Field	SS841819
61	Dimmeried Railway	\$\$\$45333
63	Charg Wood	\$\$\$843778
54	The Belacous	35845792
66	Spanny Disen-	\$\$\$47807
67	Mynydd Bath	55848825
68	Wave Cimite	35850832
ίθ.	Merther Many Common	SS853T82
20	Home Wood/Loog Beh Woodlands	35855793
TT:	Wrun Free/Coodschuf	\$\$\$\$585820
73	Car Pen-y-tion	\$\$862814
74	Ceta-y-Bolte	\$\$859780
13	Pw0-y-mor	\$\$\$62796
76	Car-porti	38871811
17	Cost Courses	\$\$871781
78	Laleston "Mesdows"	55873807
79.	Court Colman fishpond	\$\$883617
85	Trayi Wood	\$33552328
81	Pare Sile Nation Park	55880838

Opus Emmonimital Design

593007/N960416.DB

Site No.	Site Name	Grid Ref.
12	Fermylvaria Wood	558655377
83	Cost-y-Havers	55556784
- 84	Cond-y-Tyle	SS887786
65	Cond ty-mam	55888813
86	Chaped Hitt	\$\$859781
87	Cond-y-Weat	88891827
R	Pergian Farm	\$\$592832
90	Costly-flams	\$\$\$94814
91	Pen/p-Fal Congrege	85393826
-64	Cists Olas Wood	55899807
15	Angeline Concesso	\$\$\$00814
36	Wildow Comming Park	\$3906813
32	Hermittes House Meadow	55909784
.198	Fart of Cefn Hirgord (combined with SNCI 107 Cefn Hirgord)	55908831
99	Cond Country	85913836
100	Derwan Wood	\$\$914825
101	Coad y Morth	\$3917806
1977	Ewanay Moor	\$5910780
101	Long Wood	\$\$919777
104	River Wood	\$5919792
105	Tremmun Wood	\$3921802
105	Conage Wood	85923719
107	Cefe Hitgood	\$5922831
108	Bast of Paro Farm	88925821
109	Coed Pare-Gaser	53927824
120	Waterion Moora	\$\$927754
iii.	Cond Stryts-Clas	\$\$933803
182	Ored Lain	88934812
113	Rhen Wen	55936834
114	Bryu Glas	55536800
ш	Hya Du Furni	5594182#
116	Morfx Linugradio	\$5945794
Ţ12	Cost-Cae-Garw	\$5943807
119	North of Hinning	\$\$949643

Opus Environmental Design

595007/N960416.DB

She No.	Sing Name	Grid Ref.
131	NW of Worn Farm	\$\$955842
122	Bryngam leaf	\$\$\$65832
173	Brytam Fickle	35966834
124	Owns Sychians	\$\$\$80000
125	Cwester Wood (Hafed Decce)	55852865
126	Aber Centin Wood	\$\$851395
122	Fool-Fach Wrod	35834683
129	Cwee Nast-gwyn	388/20867
133	Lienvisrongen Woold	55878888
152	Park Foul	55081843
133	Totaka Hause Wood	\$\$887844
134	Cool Pentsyn	558878(4
135	ParcTarm	55889844
136	Calady Wool	\$5452886
132	Cellydd thai	53891879
138	Cojitubiu Wood	\$\$\$95856
122	Controlion House	358968.0
141	Coed Kennington	\$\$904857
142	Britistosoyo Comessei	55973849
10	Bryngarw Country Park	.85902854
14	Costgathm	\$\$1903865
145	Drynpew Meadow	SSOOLANT
145	Cumdda Bach	\$5913652
147	Bryn y Wesch	35920870
148	Crinig Tablear	55860721
140	Part of Cala He good (SNCI 107)	85922831
155	FBithwata	53923876
132	Fdittywara Common	55928875
18	Centr-Berh	55945857
155	Netr Icefyd	55948836
155	Circle Direbith	\$\$949889
157	Hest y Orw	58948843
199	Crem Gadlyn	\$3956886
160	Stymid v Gaor	\$\$955857

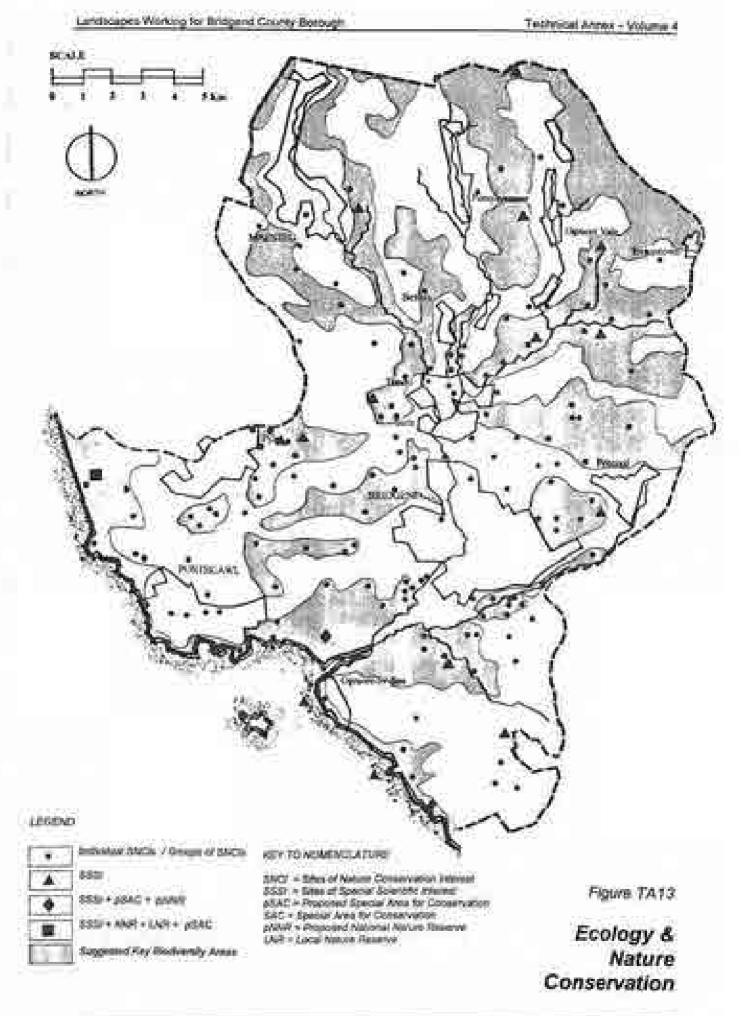
Opus Environmental Design

\$95007W960416.03B

Site No.	Site Name	Grid Ref.
161	Cvm Oger Fach	\$\$949869
162	Linchfordeg Wood	\$\$963872
163	Hende-suthaf Weod	\$8983835
164	Litsyndamh Wood	\$\$859904
165	St. John's Colliny Field	38872914
167	Fforch-sem Wood	SS911911
168	Morgold Linegensor	88919933
170	Coul Nant Divys	98932927
174	Aber Wood	\$\$936911
172	Brys y Can	SS\$48700
124	Myrrydd Mainthy	53168895

# Candidate siles

Site No.	Grid Ref.
A	\$8894757
18	\$\$\$787.59
C.	35881757
D	\$5882768
(E	\$\$809825
T.	\$\$844818
5	35843859
н	55843822
- 1É	\$\$\$65831
10.	55866817
ĸ	55872788
1160	\$\$\$67796
M	\$\$939833
ĸ	38943543 [Nist in Study Asra]
0	55982836
69	SS988796 (Not in Study Area
0	55938849



Opus Environmental Design.

# PART 6 - NATURE CONSERVATION REFERENCES

### Jonn P. (1995)

An Inventory of Rore. Scarce and Notable Vanualar Plant Species in the County Borough of Bridgend

Glamorgan Wildlife Trast Conservation Committee (1996) Submission for Wales Brodiversity Plan

Citations and citation maps for Sites of Special Scientific Interest within Oper and for the Kenfig Burrows National Nature Reserve;

Countryside Council For Wales (1995) Recommendation for possible Special Area of Conservation at Kenfig Pool and Duner and Merthyr Maser Sites of Special Scientific Interest

Glamorgan Wildlife Trust (1992) Phase J Habitat Survey Mapo

Countryside Council for Wales (1995) Phase 1 Habitat Sorvey Maps and Target Notes for Jowland areas

Countryside Council for Wales (1995) Phase 2 Vegetation survey profiles for sensnational lowland grassland since

CCW Rural Surveys Research Unit (1991) Biological Surveys of Common Land No. 20 -Mid Glamorgan

Glamorgan Heritage Coast Project (1975) Glamorgon Heritage Coast Plan Statement

Glamorgan Hevitage Coast Project (1995) Annual Raport 1994/1995

Nature Conservancy Wales Field Unn (1985) Upland Vegetation Survey No. 27 - Mid Glamorgan Uplands

Countryside Council for Wales (1993) Survey and monitoring of the Breeding Status of the Marsh Frinillary in Mid Glassorgan, CCW Contract Science No. 73 Jones F. (1995) An Introduction to Kenfig XNR - paper presented at fifth EUCC meeting, Cardoff

Groundwork Ogiet (1993) A Wildlife Strategy for Oger

Nature Conservancy Council (1984) Weilunds Survey 1977-1984

Name Conservancy Council (1981) South Wates Open Water Survey

Nature Conservancy Council (1983) Uplimite Survey 1982-1983

Nature Conservancy Council (1986) Mentiow Survey 1985-1986

Nature Conservancy Council (1986) Ancient Semi-Natural Woodland Inventory

Nature Conservancy Council (1989) Woodland Surveys 1981-1989

HMSO (1994) Biodiversity - The UK Action Piox

HMSO (1995) Biodiversity - the UK Steering Group Report -Volume 1: Meeting the Bio Challenge

HMSO (1995) Biodivernity - the UK Steering Group Report -Volume 2: Action Plans

HMSO (1994) Sustainable Development - the UK Strategy

Department of the literronneed (1996)\* Reclaiming Danaged Lond for Nature Conservation HMSO

Department of the Environment (1953) Control Planning and Management: A review HMSO

Entry M. (1986)\* Promoting Nature in Clines and Towns Croom Holm

Open Economical Design

59500738961014.08

Parkas D.M. (1995)\* Hohitat Creation - a Critical Guide English Nature Science Series No. 21

Beadshaw A.D. et al (Eds) (1983)\* Ecology and Design in Landscape Blackwell

Rodwell J S. (Ed) et al (1992) British Plant Communities - Volume 3: Granslands and montane communities Cambridge

Wyme G. er al (1995) Biodriersty Challenge 2nd Ed RSPB

Gilham M.E. (1993) The Glamorgan Hermage Count Wildlife Series Volume 4: Coastal Doonts

Gilliam M.E. (1991) The Glamorgan Heritage Coast Wildlife Series Volume 3: Limestone Dorsus

HMSO (1970) British Regional Geology - South Wales (3rd Falition)

Rudeforth, C.C. (1984) Soil Survey of England and Wates Bulletin no. 11 - Soils and their sad in Wales

Opus Environmental Design-

Conomic Appraisal SECTION 4.0

# Contents

1	Introduction	3.
2	Economic and Social Context	
23	Introduction	4
2.2	Demographics	5
2.9	Employment Structure and Change	8.1
2,6	Components of Employment Change	6
2.5	Daneployment Rates	. वट
2.6	SWOT Analysis	- 190 c
3	Policy Context	
3.1	Introduction	
3.2	Bossensic Development Strategy	7 ( <b>9</b> :)
5.3	Ogwr Local Plan	8 <b>9</b> 0
: 34	Employment Sites	10
-4:	Summary	12
4.1	Key issues from Economic Apprainal	12
42	Key Issues from Environmental Appratual	12

# 1 Introduction

KPMO have been communicated by Opta on behalf of Ogwr Borough Council and the Wehlt Development Agency to examine, from an economic development perspective, the implications of the proposed environmental strategy in be developed for Ogwr Borough. As part of this encount this paper provides a brief review of the economic, accial and policy context. This is intended to provide a basis for discussions with other members of the man regarding the development of the environmental anticey and possible areas of coefficient

The paper is structured as follows:

- Section 2 examines the recommic and social context through a review of Censi of Employment and Population Information and other available secondary data;
- Section 3 briefly outlines the policy context provided by the Local Plan and the Borough Economic Development Surargy;
- · Section 4 provides a nummary of the key issues emorging.

# 2 Economic and Social Context

# 2.1 Introduction

Despite its overall coherence and a range of common inners, significant differences exist within the Borough in the problems, opportunities and invironmental latera of individual areas. These variations will need to be encognized within the environmental strategy. Broadly the Ogwe can be sub-divided into three main sub areas:

- The counted strip this area includes attractive strenches of countline and some good quality beaches. The major resort is Porthered which is new in need of administral investment:
- III Die volleys there are those indu valleys Llyafi, Garw and Ogmore which are amongst the earliest industrialised areas in the world. This is reflected in many cases in the quality of the orban unvironment, unattractive rows centres, the age and quelity of much of the humang stock and the problems of industrial detelliction and communication.
- (iii) The M4 corridor coursed around the industrial tows of Bridgend this now the focus of the majority of aconomic development pressures and opportunities.

### 7.1.1 Minovical development

Isdustrial development of the area began in the Linfi Valley in the 1820s and 1830s with the establishment of iron works and the subsequent growth of soal mining in the 1850s in the Ognum Valley. Deep coal mining has now ceased in Ogwr and many valley communities whose origina derived from the development of the coal industry have been scrietooly affected as a consequence.

The dependence on rating and heavy industries has had far reaching effects on factors as diverse in the occupational structure and skill composition of the workforce, activity rates and attitudes in relation to enterprise and mobility. It has left a major legacy of environmental problems. Together, these characteristics, together with the difficult topography of the valleys and shortage of available development user, have created major occupants development difficulties for the subregion which require considerable investment to overcome.

The industrial development opportunities that exits in the stree static valleys - Liynfl, Garw and Ogment - tend to be comparatively small scale. Development opportunities continue to be hisdered by poor access and environmental quality.

However, the Borough is in transition. The traditional core of coal mining and metalmanufacturing have declared. Employment opportunities now primarily court on Bridgeod and the M4 corridor to the north of Bridgeod and the A473 and A48 which territor large industrial areas to the south.

The other area of economic activity is the coastal irrep which includes some attractive constituer and the traditional coastal holiday resort of Porthcawl. Fundemental changes in the tourisin market combined with a lack of investment must that the resort is now in need of regeneration and a major initiative led by the WTB, WDA and local authorities is currently being implemented.

These local variations in local contomic structure, preformance and prospecti are important and inevitably mean that the environment strategy will need to consider insure at a lower spatial scale three the Borough and the broad statistical units used within this paper which must important local transet.

# 2.2 Demographics

The total population of the Borough was 154,900 according to the 1993 mid year estimates; approximately one quarter of the population of the County. This represents an overall population increase in the Borough of 4,700 (2.6%) alone 1981; alightly below the overall task of increase for Wales (6.4%) over this period.

The increase in population reflects both positive contributions from natural change (excess of hirths over deatos), plus contributions from in-migration. Open was the only Borough in Mid Glamorgan where there were positive inflows of migratus. The age intecture is remarkably similar to that for Wales as a whole.

The population is concentrated in the main sowns of Beidgeod (34,887), Maesneg (21,672) and Poinhcawi (16,100).

# 2.3 Employment Structure and Change

Below we examine the structure of employment and employment change at SIC division level for Ogwr and Wales over the period 1981 and 1991.

SIC Division	Totor M. organization charlent	Oper H	Opt I	Oper S skarge 21/81	Webs X educer 82-01
0 Agriculture, topeury & Stihing	2.2				1915
1 Energy water supply	- 2,5	11.6	14,366	1-87.9	-59.9
2 Extraction/minerals/metals	4.9	4.3	54	3.2	-19.9
3 Metal goods/whicle industries	9.4	15.2	182	2.8	31
4 Other manufactoring industries	8.5	13,4	470	9.2	12.8
9 Construction	4.8	5.1	341	13.9	-11.2
6 Distribution, homb/calaring: repairs	20.8	21.2	2,231	34.3	21.8
7 Transport/committuation	4.5	40	-529	-6.9	-142
8 Basking, finance, insurance	34	53	-38	2.5	43.9
9 Ofter services	34.8	01.7	1,789	15.2	13,9
Total	100.0	100.0	-621	-1.48	2.9

### Table I Employment structure and change in Ogwr and Wales (1981-1991)

Rome. The Figures do not builde the toll empropert. At dominant faces report, and providing which there is a sense.

It should be send that the Course of Employment for 1993 has been classified under a different SIC than in provides years enabling only broad comparisons to be stude so we have restricted the comparison have to cover the 81-91 period. Some of these figures are restricted by the confidentiality classes.

The employment structure of Ogen minister to that of Wales indicates the significance of manufacturing industries, particularly vehicle and other manufacturing. Primary industries now only form a very small proportion of the overall economy. Backing, finance and other previoes comprise only a relatively small properties of the overall economy. This reflects the absence of any major service comme within the Borough and the proximity to Cardiff and Swamen.

In terms of temployment performance, the picture is dominated by the loss of jobs in the primary sector, reflecting the sobstantial rationalisation of the coal industry over the 1980s, Manufacturing industry, construction and distribution, havelo/cosering all performed well. The overall performance of the service sector, was deservoiring.

In the period between 1991 and 1993, overall employment has continued to decline to around 38,000 employees in amployment. Unfortunately, direct comparison with the 1991 dataset is not possible (Son Annex 1 for details);

## 2.4 Components of Employment Change

There are a number of components of change within a local economy including: () the contribution made by the formation of new form; (ii) thanges within the indigenous sector; and (iii) (neattraction of inward investory.

Employment change within the Borough has clearly been dominated by structural change associated with the restructuring within the coal industry and the colliery closure programma implemented over the 1980s. This has led to the substantial decline in employment of an industry which in 1981 employed over 10% of the workfaces.

If allowance is made for the decline of coal, the overall performance of the economy begins m look quite fevorable. The major farior in the soccessful tentraturing of the local economy has been the attraction of inward investment in electronics, information technology and automotive sectors. Table 2 below shows for the four mention of the region, the number of inward investment projects over the period 1983 - 1992, the mapher of new jobs crassed and the value of the rapital investment involved.

Country	Number of projects	New Jobs	Capital investment (f)
Gwest	(33	8.379	588,931
Mid Glassorgan	131	9,572	862,571
South Glassergan	74	6,661	1,376,054
West Glanorgan	60	2,634	216,092
Total	398	27,447	2,813,648

Table 2 Oversnas investment in South Wales (1983 - 1992)

Ogwr has been especially successful in attracting investment including Suny Manufacturing and Sony Munic Mouldings, Displastins, Meiki (from Japan), Align Rite, British Tismen, Chriteri (J&A) Lid, Ford Motor Co., Rexel Engineering (from North America) and Rockwool, Pauch Precision Laf, Milm Laboratories (from Europe). Much of this investment has been concommend in Mid Ogwr, particularly Bridgeod (Sony, Ford and British Tismes are located here).

# 2.5 Unemployment Rates

Average annual succeptoyusset in Ogwe declined consistently from 1986 to 1990 and the average unemployment state for Bridgend TTWA (which includes part of the Vale of Glassorgan) fell from 17.2% at 7% (see Table 3).

Year	Bridgesd TTWA	Mid Glassergan	Wates
1988	10.2	12.0	10.4
1989	7.5	9.2	- 34
1990	7;0	8,7	6.8
1991	9.8	11.7	9,0
1992	9.61	12.6	\$0.0
1993	11.2	12.9	10.4
1994	9.7	(104)	9,6

Table 3 Average memployment mes: Bridgend TTWA and Walm (1988-1998)

# 2.6 SWOT Analysis

The following summarises the key strengths, winknesses, opportunities, and threats which are perceived by the Council to face the diarriet.

Strengthu	Opportuaities
<ul> <li>skilled workforen, good labour relations and relatively low labour costs;</li> </ul>	<ul> <li>potential to encourage further inward investment;</li> </ul>
<ul> <li>good access to the motorway network, ports and airports;</li> </ul>	<ul> <li>sites suitable for high technology manufacturing, technology Park;</li> </ul>
<ul> <li>competitive commercial property prices, variety of serviced land;</li> </ul>	<ul> <li>upgrading the quality of the southing product.</li> </ul>
<ul> <li>proximity of three Universities;</li> </ul>	
<ul> <li>variety of financial incentives.</li> </ul>	

Weeknowes	Threats
<ul> <li>low levels of high ants suppley point;</li> <li>few porporate and HQ backment;</li> <li>group aphical peripherality in Europe;</li> <li>derefferom in the valleys;</li> <li>under to vession in coation facilities;</li> <li>low levels of private sector white collar employment and relatively low camings.</li> </ul>	<ul> <li>the Charteel Tunnel and the SEM could emphatise area's peripherality;</li> <li>competition for investment from other sites along the M4 contriler;</li> <li>over capacity in the European sites and automotive industries could have adverse impacts locally;</li> <li>increasing competition for declining amount of mobile investment.</li> </ul>

# 3 Policy Context

# 3.1 Introduction

This section provides a brief overview of the policy context for the Borough of Ogwr, focumg on the connector development strategy and Local Plan policies.

# 3.2 Economic Development Strategy

The overall size of the strategy is "To endeavour to improve and broaden the accusous base of the Borough of Oyur, in order to summe that secure and good quality employment opportunities are annihible to the residence of the Borough." The specific policy aims and actions are set out below.

Development action programmes	Targets
Arcore environm program	To university an advertising assurement parapsign and a taggang saturation and a taggang
	Ar annually plane 3 of the stategod workshop some in Nov Ty Geogra Selection Press and Paperson der mit dem Kop selection
	To produce quarters's appears of the Property and Land Availability Scholars, provide process forces detectivy tail associ- with the transmit of 20 unit featurestee sits the Consol's Jamel, Rammer Gam. Science.
	To contrast in participal in M. DCC and in some optimum Analog under Rectar.
	Production of an EDS for the Midgand sets.
	To compare building of promptil, weathings at Real Ty Dargo and intent Records Local Plan.
	To carry the source-count important to the bedret induced from Disconton-Space, to factor do Lastard Brach Meterial Edge of Ed and completion a report arrange
	To nearing frequency limits estimate factors fact, compare Lines increases and device a Constantly must become Weigend and Repairings.
Engineers do-America	To system 2 Curtamoly Development Workers, Italians a Commutity Teran in the Upper Lipsti Valley and support Commutity Research Sections
	To infrare bundling generations for EDQP-EDF, in continue on device SDH automation and make market aggregation under Rachae programme

# 3.3 Ogwr Local Plan

The overall guiding principles of the plan are:

- to milimate submantial valleys communities;
- exploit the development gotestial for industry at the valley months and heads of the valleys area; and

 neoghise the continuing developenne of Cardoff as an administrative, ensembleduring and service centre.

A summary of the main Pine politics is given below.

### Noastag /

- (1) Major new development within Mid Ogwr, particularly in Bridgend, to accommodate all the future in migration to the Borough, the area's own natural change and an element of sweepill from the Lipsel valley.
- (2) The development of existing residential communities in Porthcawl and the coastal vale, together with a listing release of new land on the periphery of the Porthcawl orban area to accommodate the areas own natural change only.
- (3) The development of existing residential communities in the Liyall valley, together with some limited replacement sites, to nativfy the area's own summal change.
- (4) There will only be minimal developments within the smaller settlements of the Borough-

#### Engloyment

- Major new allocations of industrial land in Mid Ogwr, in satisfy needs of medium and large stale one-prises.
- (2) The full development, or where accessary, the limited extension, of existing informal estates throughout the Borough, for light, general and service industry.
- (3) The afforation of land in the form of new small sites, for the development of light and service industries close to residential areas.
- (4) The development of existing or, where necessary, the afformation of additional stress throughout the Borough to provide opportunities for those employers with specialist requirements.
- (5) The announagement of office and other service jobs in appropriate locations.

#### Retailing

Bridgend should remain the focus of the Borough's trade.

#### Transportation

To improve the levels of accessibility by both public and private transport to the major places of attraction within and outwide the Borough, to promote comprehendive commercial transport plans for the established control of Bridgend, Portfocavi and Massing, and to identify policies for the main read network to other communities within the Borough.

### 3.4 Employment Sites

The availability of land for development is an issue in Opwr as in other valley communities. For example, the Local Plan indicates that in January 1994 cut of a total of 280 hectares of land, only 39 was inmediately available for development with mach of the cemainder requiring schemental infrastructure investment.

#### Premium coppoyment thes

The Local Plan identifies a number of premium employment sites with good access to the motorway network which are to be developed to high design manifestir. These sites include:

- Mid Giamorgan Science Park, including adjacent land at hiland Farm, firidgeod (allocated for high technology uses).
- Sory Technology Park, Paecood (B1 manufacturing).

Fare Hospital Site, Bridgend (B1 besinem nue).

(v) Land sw of the M4 motorway junction 35, Pencoud (B3 business ine).

The development of these sizes will provide for the instructing densing for employment in locations where good design and landscape standards are detired by the occupiers and where good access to the motorway network is explored. On all of these sites there is a requirement for high quality inadacoping and architectural design.

### Industrial and commencial development sizes

The Local Plan identifies a total of 36 sizes for industrial and commercial development during the Plan period, alabedgh not all will be available at any one particular time. The larger industrial strates include: Brackla, Bridgerd, Brymmeryn, Village Farm and Waterton.

Llynfi Power Station site is included in the local plan as an industrial site. However, there are access and contamination problems associated with the development of this site and hence high costs of development. As a nesult of these barriers to development EDAW have suggested, as part of their economic mudy for MM Ogwr, that the site may be more appropriately developed for contism related wars, including environmental improvements to screen the nearby British Tissue plant and generally clear up the site through planting.

New allocations at <u>Biocostle</u> (Watertoo) and <u>Wern Eastr</u> (Pencood) have been included to increase the range of employment opportunities in close proximity to the strategic road network where investment can be most easily attracted. The Biocostle site is particularly important because it provides over 18 ba of good quality employment land which is in short supply throughout the region.

It should also be noted a large proportion of the sites identified above as sorving the Borough's neployteens needs is actually located in the Vale of Glamorgan.

Forther aim specific details will be consulted in the Economic Stenegy for Mid Oger due for completion by EDAW by the end of this month.

# 4 Summary

## 4.1 Key issues from Economic Appraisal

- The Borough has undergoue submattial accessnic sustructuring over the pair docade associated with the arts's previous dependence on cosi – and to a lease exiter metal industries - and the programme of colliery cienters implemented over the 1980s.
- The bical accounty has, in other respects, performed well. Employment growth in memufacturing has been relatively marked. Much of this growth has been the consequence of the attraction of inward investment.
- There are concerns that much of the inventment has been in relatively low value added and reotize tasks with limited RAD or design functions. There is a dauger of creating a 'branch plant' economy.
- The success of the area in attracting inward investment effects a number of theorem including the success of the WDA, the annihibility and competitive rates for most of the key factors of production and the package of financial assistance available. Key amongst the success factors has been the location close to the M4 corridor and the availability of stime and premittee.
- The Borough new has the opportunity to capitaliae on previous inward investment into the region by bringing forward some of the key development apportunities along the M# corridor.

## 4.2 Key Issues from Environmental Appnisal

- The Borough can broadly be sub-divided into at least three sub-negoons; the valleys, mit Ogwe and the coast. The environmental strategy will need to reflect the differences in problems, potentials and opportunities within these areas.
- In parts of the Brorough economic and maximumental objectives would appear to be rouplementary. Tourism development and environmental protection, for example, should result is mutually supportive actions. Baymoumental improvements also have a key role so play in the regeneration of the older valley communities.
- Inevicably, there would appear to be acres of remion between occounted and environmental development, perhaps most notably in relation to the continued growth of Mid Ogwe There are a number of potential environmental insees here including.
  - the balance between the development of the valley communities and the M4 consider must be handled carefully. Where the two effectively compete for investment the valley communities will lose out with implications for investment said enveronment quality.
  - the reversemental quality of Mid Ogser appears to be quite high and development may result in some loss of valuable habitats and environmentally semilitive areas and/or the chievature of specific communities;
  - One implications for travel domain of the new employment sites. Many of these appear to be located close to the national motorway network and tend to be more difficult to serve by public transport. This has implications for travel demand and also accessificility for these without scenes to motor vehicles;

there may be a case for reviewing the economic justification for the reclamation of siles in the Valleys and possibly examining the potential for lemme-relivironsernal upgrading rather than for indostrial either development.

This would need to be looked at on a site by uno busin. Each appeared would need to examine

a detailed site assessment;

×.

- The Highly levels of demand;
- the costs of development/gap finding;
- the number of jobs likely to be attracted to each site; and
- the respective cost per job crusted and value for money inster-

Clearly in the absence of a detailed unarranteet which goes beyond in error for this study it is not possible to state whether sparific sites - og Pos Clovys - should be allocated for hard or soft and uses.

lanning Apprairal SECTION 5.0

# LANDSCAPES WORKING FOR OGWR BOROUGH

# PLANNING CONTEXT

# I PREAMBLE

1.1 This paper is intended to form one of a number of background papers which provide information and insight into the study area. The paper will consider, in global terms, the present planning framework. for Ogwr and, in particular, will analyse the approaches of both the County and Borough Councils, as expressed in their recently approved development plans. The paper will go on to consider the area in the longer term, in recognition, in particular, that the environmental and landscape strategies that are to be formulated by this study, will operate on a much longer timescale than the present 10 year cycle of Development Plans. Sustainable planning will inevitably require long-term strategie goals to be defined and firm commitments made towards them.

# HISTORICAL AND ECONOMIC CONTEXT

2.1 Inevitably the approach to the control of land-use in any area is governed, to a great extent, by both the historical context and economic background to the area. By and large, this material has already been provided by the report of K.P.M.G. in Section 2, and there is no need to duplicate this information.

# 3 THE COUNTY-WIDE STRATEGY

- 3.1 The Borough of Ogwr is, of course, presently one of the six district Councils within the Councy of Mid Giamorgan. The majority of the County's area comprises the valley areas of Cynon Valley, Merthyr, Rhoudda and Rhymmey Valley. Ogwr and Taff Ely, however, occupy the more southern sections of the County and present within their individual boundaries, strikingly contrasting areas, whether defined in landscape terms or in socio-economic terms.
- 3.2 The County Council was first formulated in 1974 and the general planning and socio-economic strategies adopted since that time have, inevitably, been beavily influenced by the fact that the area has been principally one of contraction and re-building, as the traditional industries of the area have gone into steep decline. Ogwr, because it combines mining valley areas to the north, redefining valley mouth areas in the centre, and relatively prosperous rural and coastal areas to the south, has shown as a microcosm of what has happened in the County as a whole, or rather the Mid Giamorgan and South Giamorgan Counties when seen as an entity.

- 3.3 The first expression of strategic policy for South East Wales came in the Welsh Office publication 'Wales the Way Ahead' produced in 1967. It is in this document that the first over commitment is given to the rejection of any policy that would assume the disintegration of the substantial valley communities. The plan, therefore, proposed that new employment be brought to the valley communities and to the Heads of the Valleys where possible. It also recognised, however, that economic forces would dictate that new development would be more likely to gravitate to the valley mouth areas or to the coastal strip, and it was made clear that such developments should be catered for. In this context, it was even suggested at that time that a new town be created at Llantrisant to be a focus for the grawth that was medied.
- 3.4 One of the tools by which Government hoped to bring about the required growth and restructuring of the South Wales economy at that time was via the grant system that accompanied Development Area status. In the 1970's the whole of the County, with the exception only of Bridgend, was defined as being a Special Development Area and therefore eligible for the highest level of grant for the establishment of new employment-generating development. By 1976 this incentive scheme was given a boost by the creation, firstly, of the Welsh Development Agency, to set in a more direct way in providing and servicing new industrial areas and, secondly, the Land Authority for Wales, whose cole is to ensure that land is brought forward for development when it has been so allocated.
- 3.5 The first Structure Plan for Mid Glamorgan was produced in draft form in 1978, received final approval in 1982 and covered the period to 1991. The Plan adopted in fall the ethic that all existing valley communities should be maintained and that fall exploitation should take place of the development potential of the Valley Mouths and Heads of the Valleys areas. It was recognised that there would newitably be a migration of people from the valley areas and their policy of maintaining valley communities would of necessity have to be a positive one. The pragmatic view seems to have been taken at that time, that the valley attilements should be maintained by allowing them to become, effectively, dormitory residential areas, with the majority of new job opportunities being provided at valley mouth and valley head locations together, inevitably, with the majority of new housing. The building ant alignment of the M4 must also be seen as fitting exactly with the strategic policies identified with the area and, to some extent, explains the apparent detour of the road to the north of Bridgend, rather than the more direct and easier route that would have been available to the south.

Specifically in the Borough of Ogwr, Structure Plan policies recognised the dominance of Bridgend, where the majority of new jobs would be established and also where a significant proportion of the expected 8% population growth of the area would be housed. Policies were, nevertheless, imposed which sought to reinforce and improve Bridgend as a service centre for the Ogwr sub-region, whilst at the same time seeking to provide additional job opportunities and housing at the valley mouth conglomeration around Aberkenfig, Brynmenyn and Sam. Growth in this area was seen at that time to also have the added bonus of rationalising what had become a very disparate and unstructured growth pattern. Even today it is doubtful whether this policy has yet had the desired effect.

3,6

- 3.7 Elsewhere in the Borough there was a general policy of restraint of growth. In Portheawi and along the coastline, uncouragement was given for the development of tourism, but now housing was to cater only for local needs. The rest of the coastal strip was designated either as important dune-land or heritage coast, which was to be protected from development in its own right. In the valley areas there was a presumption in favour of new industry in Maesteg but otherwise housing was to be allowed only to must local needs.
- 3.8 The setting of policy in the 1960's and 1970's has been described in some detail in order to demonstrate that planning policies for this part of Wales are long-standing and unlikely to radically change in principle. This is, of course, partly due to political commitment but also because policy and economic initiatives of the past, where they have been generally successful, as in Ogwr, must also reflect and accommodate the economic realities of the time. It is only where policy fails or economic factors drastically change, that we are likely to see any real deviation in policy for the area.
- 3.9 The first updating of the County Structure Plan was issued in draft in 1985 and eventually received the approval of the Secretary of State in 1989. The Plan made plain its continued commitment to the maintenance of substantial valley communities and the exploitation of the development potential of areas at the heads and mouths of the valleys. In so doing, it was expected that a significant level of population increase would also be witnessed. For the first time there was also official recognition of a need for high technology employment sites, and the site at Bridgerid was one of a number that were allocated. Housing land requirements were seen to be high, particularly in Ogwr where growth in population was expected to contribute to a need for some 7000 new dwallings over the period to 1996.

- 3.10 A significant change could be disconned at this time, however, in policy towards retailing. Whereas previous policies had sought to bolster and improve existing town centres, this new Structure Plan accepted the changes that were already occurring in retail patterns as superstores and retail warehouses began to appear.
- 3.11 A draft replacement Structure Plan was produced in December 1993 The Examination in Public of the Plan took place in September 1995 and final adoption will be taken forward by the new Unitary Authority following re-organisation. The guiding principle of the plan and, hence, also of the recently approved Ogwr Local Plan, remains the maximisation of the development potential of the valley mouth and valley head areas, whilst at the same time baving regard to the need to maintain the substantial valley communities.
- 3.12 For the first time the replacement Structure Plan introduces the concept of suztainability which is defined as follows:-

"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

Specifically, these requirements are interpreted by the County Council as requiring the conservation and enhancement of the best of the environment; an emphasis on urban renewal as opposed to new development; the projection of important natural resources, the encouragement of public transport; and the long term protection of specific development sites for the particular purpose for which they are designated.

3.13 Over the plan period, it is again expected that Ogwr will be the only real growth area in terms of population change, and there is an anticipated need for some 4800 new dwellings in the period up to 2006. Ogwr and Taff Ely also had the highest recognised needs in terms of new industrial acreage, with some 60% of the total requirement for the County to be provided in these two districts. The need for flarther 'high-tech' areas continues to be emphasised and, in this respect, the County Council, in partnership with the Welsh Development Agency, has completed the acquisition of land for the second phase of the Bridgend Science Park. Significantly also, the plan now seeks to emphasise the need not only to provide new employment sites, but to dramatically improve the appearance of existing ones by redeveloping dereluct sites; upgrading buildings; rationalising layoots; and introducing landscaping. The Bridgend Industrial Estate has certainly benefited from this approach. High standards of layout and design are now required of all new industrial or business developments.

3.14 The Plan cm also be identified as introducing an increasing emphasis on the protection of the natural environment for its own sake, in response to a general political and professional acceptance of 'green' policies. Development in the countryside is to be allowed only when specifically required. Important features of the natural and built environment have been given protection by the introduction of special designations and controls such as 'Areas of High Landscape Value'. In Ogwr, this designation covers all of the upland areas to the north of the Borough as well as the heritage coast, and Policy EV4 of the Plan militares against any development in these areas which would result in visual intrusion.

### BOROUGH-WIDE POLICIES

4.1

- The Development Plan system in England and Wales is a two-tier process, comprising structure of strategic plans over a wider area, that set the framework of policy and the targets for growth, accompanied by local plans for more restricted areas, which seek to translate that policy framework into specific land-use allocation. Ogwr sought to prepare a series of local plans to cover the Borough. Those plans for Greater Bridgend and Ogmore and Gazw were taken through to full adoption stage. The Kenfig-Pyle Plan teached the sdoption stage, but this never actually took plane, whilst plans for Maesteg and Porthcawl got no further than the draft stage. These plans conformed closely with the approved Structure Plan and did not seek to set any specific policies for the area as a whole.
- 4.2 More recently, the Planning & Compensation Act 1991 has introduced the requirement that all district councils in England and Wales shall produce unitary development plans to cover the whole of their areas. Such a plan, of necessity, tends to overlap the prevailing structure plan and contains a significantly higher proportion of strategic policies than bad hitherto been som in local plans.
- 4.3 The draft of the Ogwr Local Plan was produced in 1991 and, following a public inquiry in 1994, it was formally adopted on 12 April 1995. The overall strategy of the Borough Council, as expressed in the plan and clearly accepted by the Welsh Office, is "to maximize the development potential of the growth area of the Borough based mamly around and to the south of the M4 corridor, whilst at the sume time having regard to the need to maintain the substantial Valley communities to the north"
- 4.4 The initial draft of the plan envisaged a need for the provision of some 9,600 new dwellings, in line with stated Structure Plan targets at the time. Following the production of the final mid-year estimates by the Registrar General, however, and in conjunction with the County Council, it was finally agreed that the Borough required the provision of some 7,240 new dwellings between 1991 and 2006, or approximately 500 per annum. Over and above existing approvals and commitments, it was necessary to allocate sufficient land to accommodate just over 2000 houses.

4.5 New housing provision is primarily intended to be in Bridgend, with two major releases of laad at Litchard, to the north east of the town, and at Laleston to the west. Some housing had been proposed at Portheawl, but with the lowening of the identified requirements, many of these sites were deleted. However, only a portion of the allocated areas of the two imjor sites will be developed doring the plan period. As in previous years, and continuing the policies laid down since the 1960's, the housing allocations in the valley areas are to eater for natural growth or local needs only, and the majority of the identified in the Ogmore and Garw Valleys, to replace existing usattractive ones that have remained undeveloped. All this is, in any event, unavoidable, because developers generally require to build where they are sure they can sell, and there is little or no interest in the valley areas from the volume builders. The valley areas continue, therefore, to be dormitory areas only, and this is assisted in recent years by improved communications and environmental upgradings. The provision of services continues to be a problem, however, with school populations declining and many retailers being forced out of business from the competition of new retail businesses in the Bridgend area.

The analysis of employment land carried out by the Council as part of their plan preparations, clearly 4.6demonstrates Ogwa's continuing attraction to industry, particularly on those sites in the vicinity of Bridgend with good access to the M4. The conclusion drawn was that additional land was required to be allocated in the Borough to satisfy the demands of medium and large scale enterprises, on good quality sites with good access to the main road network and, of course, to catter for the employment needs of a growing local population. The major industrial land releases within the plan are at the Sony Technology Park, Pencoed, Wern Fawr and Wern Tarw to the north of Pencoed and close to the existing Rockwool plant, Park Shp, Tondo; and Waterton, in the vicinity of the Ford Plant. Extensions are also proposed to the Bracklu estate near Coity, the Brynmenyn estate, the Abergarw estate north of Brynnsmyn; and Village Farm at Kenfig Hill. Minor allocations intended to serve local business are also proposed in valley locations, particularly in the Lower Llynfi Valley. Sites for business uses (B1) are also identified at Island Farm; Cefn Hirgoed to the north of Bridgend; motorway junction 35 at Pencoed; and close to Sony at Pencoed. Clearly all of these allocations reflect the obvious need to locate new employment facilities close to lines of communication and close to the main population centre. In so doing, the areas to the north and east of Bridgend are reinforced as being the areas under greatest pressure for new development, stimulated both by population growth and the decline of the older industrial base.

- Highway proposals in the plan, not surprisingly, reflect and reinforce these growth pressures. The  $4.7^{+1}$ major new scheme is the Bridgend northern distributor road, linking the town centre with the M4, and this is coupled with an inner by-pass scheme for the town centre, which is currently under construction. In the longer term, roads are envisaged to provide by-pass arrangements for both
  - Brynoethin and Coity,:

In environmental terms, the plan sets a number of objectives, as follows 3.7

- to guide and control development in order to enhance and protect the urban and rural  $|0\rangle$ environment;
- 68 to maintain the physical and social identity of existing settlements;
- to conserve and enhance the man-made beritage and natural fauna and flora; and 63.
- to undertake and co-ordinate efforts in the environmental improvement of, and access to, the durban and rural covironment.

In accordance with these aims, therefore, the plan includes a phalanx of policies designed to protect. the open countryside (defined as being that area outside the defined settlements or allocated land) from unnecessary development, and to ensure that any new development that does take place does not

detract. A number of guiding principles apply, including the need to retain clear separation of

settlements by recognising green wedges; the need to protect and retain trees and hedgerows; the

resistance to ribbon development; and the need to protect recognised sites such as SSSI's and Nature

Reserves. In respect of the last point, the plan specifically seeks to resist any development which

swould adversely affect or visually impiage upon a number of named sites, as follows:

- Ð. The Glamorgan Heritage Coast.
- 韵. The Kenfig National Nature Reserve:
- The strategic coalfield plateau and associated valley sides. iii)
- iv) Landscape Conservation Areas.
- Other important natural features such as the coastline, valley sides, hill tops, and ridgelines; and  $\langle 0 \rangle$

The landscape associated with the rural highway network. VÜ.

#### $5^{\circ}$ THE LONGER TERM

Building on the above assessment of Development Plan policies for the area, it is essential for the 5.1 purposes of this study, that some consideration is given to the likely directions of growth and strategy beyond the present out-off point of 2005. The likely finner pattern of growth will inevitably be an important factor in the setting of landscape policy for the area. If we are serious about achieving a measure of sustainability in the future, the planning of the built form will need to achieve the same sort of time-scales that are utilised in the natural world.

- 5.2 The Ogwr area has experienced a consistency of growth in the post-war period and there seems little reason to believe that this will not continue post 2006. Population shift continues to take place within the Borough as people move out of the valley areas, but this is likely to diminish in the future as the valley areas bonefit from the significant improvements made in both contrommental and transportation terms. These areas would appear now to be establishing themselves as a consequence of these changes, primarily as dominion residential areas dependent, by and large, on the mid-Ogwr area for employment and shopping facilities.
- 5.3 Natural population growth and a likely continuation of in-migration will serve to maintain the continuing growth of mid-Ogwr and, in particular, this will be seen to take place along the M4 contidor. Structure Plan policies have consistently sought to cater for these growth demands and future regional guidance from the Welth Office will be likely to continue with this policy. What has also been generally recognised and accepted throughout England and Wales in recent years is the potential for commercial investment on sites within close proximity of major road interchanges, and particularly these close to motorways. It is inevitable, therefore, that these development nodes will figure in the future re-shaping of the area. Landscape considerations need to be established at an early stage and, in this respect, any areas denoted in the Local Plan as green wedges (Policy EV10) should be treated as under threat of future development pressure.

Probably the most obvious pressure area in the future will be the corridor either side of the A473 road 5.4linking Pencoed and Bridgend. The village of Coychurch has gradually been drawn into a Greater Bridgend initially in the 1950's by the development of Bridgend Industrial Estate and, in more recent times, as a result of the massive Brackla residential area and the Waterton industrial areas, including the Ford Plant. A tenuous gap of less than one mile now exists between Coychurch and the motorway interchange at Pencoed and this is to be further eroded in the near future with the development of a major site immediately west of the junction on hand allocated in the Ogwr Local Plan (Policy E4(4)) for special employment purposes. Planning permission was granted on this site in February 1996 for a scheme including cinemas, a shopping village, restaurants, and a petrol filling station/cur sales. To the north of the main railway line, and lying between Bridgend and the motorway, is a considerable area of hand recognised as being of special landscape value. South of the railway, and between it and the road, the Local Plan identifies an area under pressure for development by defining it as a green wedge, in accordance with Policy E10 which, essentially, is a mechanism to maintain the separation of communities. Strangely, the land to the south of the road and east of the Waterton industrial estate is not given any form of protective allocation and would appear to be a natural future growth area for commercial or industrial developments generally.

- 5.5 New industrial areas are identified in the Hirwann common areas to the north of Pencoed, in the vicinity of the Rockwool plant at Wern Fawr. Improved road links to the motorway have encouraged this allocation and this may well lead to further industrial developments, particularly where major sites may be required for industry that does not make a good neighbour. Local concern has already been expressed concerning the environmental impacts of these allocations and these possibilities will need to be carefully considered against the requirement, to ensure that all new developments are sustainable in unvironmental terms.
- 5.6 It might similarly be expected that development will be attracted to the motorway interchange at Cornelly, which will be assisted by the recent improvements to the road links with Portheawi. This particular area represents and interface between the mid-Ogwr growth zone and the coastal zone and finture development may well be based on recreational or tourism emergrise.
- 5.7 Two major housing developments are allocated in the Bridgeod area, at Laleston and Litchard, and it is anticipated that they will not be completed during the life of the plan. Future boasing growth will not, therefore, have to be accommodated immediately after 2006. This situation is reinforced by the proposed new settlement just across the Borough boundary, to the west of Pyle. Some 400 houses are proposed in a scheme which is to be taken forward by Westbury's. Inevitably, this scheme will relate far more to Bridgend as a centre rather than Port Tafbot, and many people from the Borough will be likely to find accommodation there. Major new housing areas will not be required oven in the medium term, therefore, although more modest sites will continue to be found in the consext of existing settlements. Improved road links will allow further growth in the Nottage area of Porthcawi, whilst there will be continuing pressure for growth immediately to the north of the Newton-Nottage road at Porthcawi, for housing, recreational and tourist developments.

# KEY ISSUES FROM PLANNING APPRAISAL

Pollowing a study of the Local Pan and draft County Structure Plan, the following key issues have been highlighted.

- The Local Plan provides a sound basis for the development of a complimentary landscape strategy;
- The land-use proposals for the District reflect the settlement pattern and communications network, and follow general policy lines that have been in place for a considerable period and are likely to continue;
- Increasing growth pressure will almost certainly be full in the mid-Ogwr area and close to the unitorway intersections. This will be most keenly felt between Bridgend and Percoed.
- Pressure for growth will generally not be in areas of high landscape value but steps need to be taken at an early stage to ensure that growth patterns are sustainable;
- Recreational and housing pressures will also be felt in the environmentally sensitive coastal areas.

Jourism Appraisal SECTION 6.0

## OGWR LANDSCAPE STRATEGY TOURISM INPUT

- 1980) BURNESS

#### 1 INTRODUCTION

The purpose of this report is to identify where a landscape strategy can assist the tourism product of Ogwr. In order to provide a realistic assessment of this issue, it has been necessary to undertake a review of existing studies which have been undertaken over the past few years which look at the tourism product, analyse the market and determine the future tourism potential of Ogwr Borough (see Appendix 1).

There is an image and identify problem for the Borough as far as tourists and visitors perceptions are concerned and the Borough has, comparatively speaking, made little investment in tourist facilities. The challenge is to identify realistic new opportunities and the means of turning good ideas into action. Within the Local Plan, Ogwr Borough have identified possible opportunities for development or reinvestment in tourism mlated products such as:

- Bedford Park, Waun Cimla, industrial heritage and recreation project (now implemented).
- conservation and interpretation of Cefn Cribwr and Llynfi Ironworks;
- interpretation strategy for Daffyn Llynfi Portheawl Railway.

Within this study we will aim to put forward recommendations which achieve sustainable developments, serving the interests of oconomic growth and conservation of the environment.

#### 2 TOURISM OVERVIEW

### 2.1 National Perspective

Discussions of the benefits of tourism has unded to focus upon income generation. This is not surprising since spending remains the tangible evidence of tourism development. During 1994, United Kingdom residents took some 109.8 million tourism trips of one night or more within the United Kingdom. These lasted a total of 416.5 million nights, with spending of £14,495 million. A further £9,820 million was spent in the United Kingdom, during 1994, by 21 million overseas visitors. British people took an estimated 58 million long holidays (4+ nights) away from home in 1994 - an increase of 4% on 1993 figures. The number of holidays taken in Britain during 1994 was down by 1 million compared with the previous year, while the number of holidays taken abroad increased by 2.75 million. Long holidays in Britain teached its highest ever volume in the mid seventies but since then have declined gradually.

### 2.2 Regional Perspective

Tourism in Wales has shown many of the same characteristics as that in the rest of Britain. Main holidays of a week or more in the sommer have declined because families have gone abroad for generally better and less expensive facilities plus guaranteed samshine. Shorter holidays, particularly in the shoulder season (April, May and September,October), have more than compensated in terms of overall spending and have had the effect of spreading business over a greater part of the year.

According to the Wales Tourist Board, domestic (UK) residents took on average some 8.6 million tourism trips in Wales during 1994. These lasted an average of 38.6 million nights and cost £984 million. The majority of trips (72%) were for holiday purpose, a further 16% were to visit friends and relatives, while 8% were for business/work purposes.

In South Wales, it was estimated in 1993 that 3.8 million sourism trips were taken lasting 17.1 million nights and cost £400,000, 50% of trips were for holiday purposes, 22% were visiting friends and relatives and 5% on business/work.

It is estimated that in the region of 95,000 jobs, more than 9% of all employment in Wales, are due to tourism. More than 60,000 of them are serving tourists directly in various tourism-related industries and more than 30,000 are in industries supplying tourism.

#### 2.3 Local Perspective

Within Ogwr Borough, it is estimated that the Borough receives an annual figure of £25 million from visitors, supporting some 2000 jobs. Basiness tourism, according to hotels and guest houses in the Borough, accounts for around 90% of trade. In terms of product, Ogwr has approximately 30 hotels, 50 guest houses, 10 self-catering establishments and 6 caravan/camping tites. Treeco Bay Caravan Site in Portheawl is the largest accommodation provider in the Borough. Accommodation is predominantly located in the Bridgeod and Portheawl areas with virtually no provision in the Valleys. Although Ogwr Borough does not have a visitor attraction, it does offer a masonably good range of informal outdoor recreation facilities such as:

- Glamorgan Heritage Coast,
- Kenfig National Nature Reserve;

#### Bryngarw Country Park and House

The informal recreational facilities prevalent within Ogwr Borough outwith the key tourist areas complement the contrasting activities available within, for example, Portheawl. According to the Wales Tourist Board, the main activities undertaken by visitors on a trip to Wales are walking, sight seeing, visiting castles and monuments. Ourwith Portheawl, therefore, the rest of Ogwr has much to offer the visitor and should be marketed and developed as an alternative to the seaside resort "experience".

## 3 AREAS FOR POTENTIAL DEVELOPMENT

#### 3.1 Introduction

The following are the key areas at which we feel tourism and landscape can work together to enhance the quality and enjoyment of the area for both visitors and the local community;

- the Valleys;
- the countal strip;
- mid Ogwr,

These are discussed in more detail below.

#### 3.2 The Valleys

3.2.1 The Resource

The three deep Valleys which divide Ogwr Borough are the Garw Valley which ends in a cull de sau and nan northwards through the heart of Ogwr, Llynfi Valley which runs northwest from Bridgend to Maesteg; and Ogmore Valley, the most eastern of the three main valleys with steep-sided hills and traditional terraced communities and thick forests. A spectacular mountain road leads up to the head of this valley where there are panoramic viewpoints.

The image of the Valleys as being solely related to industry and mining largely obscures the very considerable natural heritage which lies within and around the Valleys. Were is not for the landscape and its geology, the Valleys would never have become prominent in the industrial history of South Wales. The Valleys require a period of consolidation, where tourism is part of an overall conservation ethic and not part of a developmental drive which has little or no concern for the naroundings. While the Valleys have a fascinating history and attractive countryside, many of the towns still need further environmental improvements. The main tourism appeal of the Valleys currently is to specialist niche markets for staying visitors, to school groups and to independent visitors. The accommodation base is under developed in the Valleys but, before visitors will spend more nights in the area, there will be a requirement to improve the quality of the visitor infrastructure and increase the critical mass of activities and facilities for the day visitor and tourist to enjoy (particularly wet weather facilities).

#### 3.2.2 The Potential

The tourism element of the landscape strategy should play an important part in establishing and developing tourism as a recognised economic and social force in the Valleys. It will help to focus not only the attention of visitors but, importantly, also that of the local people.

The Valleys have significant potential through their natural assets but still suffer from their industrial past. The network of "community routes" are perhaps key to opening up greater opportunities for "green tourism". The "community routes" could provide the vital link between the Valleys and the Heritage Coast Path, Bridgend and the Ogwr Ridgeway Path, creating considerable interest in the walking/cycling markets.

The recreational potential for the three Valleys is substantial and should be exploited in conjunction with the landscape strategy. Opportunities for providing activities for the residents and day trip visitors to the Valleys lists in the development of recreational activities supported by visitor infrastructure and interpretation, such as cycle routes, trails, bridle paths, circular walks, play areas, benches, lister bins, signage both to signify the recreational activities located at key nodes, way markers, shelters etc.

There are also opportunities to develop visitor infrastructure at the following points:

- a car park at Gilfach Orfydd;
- orientation points at the public houses at Llangynwyd and Llangeinor (which already has a play area for children);
- car park and picnic spot east of Blackmill at Llwyn Heigg, this spot allows for easy access to the Ogwt Fach riverside and the route is currently a byway open to all traffic;
- circular walks developed in the lower Llnfi along Cwm Ogwr Fach, leading to the Ogwr Ridgeway Walk.

#### 3.3.3 Orientation

Visitors should be exposed to orientation information at key sites. Looking at the three Valleys as a whole, there is very little identification as to:

- when each valley starts and ends;
- what attractions and facilities can be found on visiting the Valleys either on foot, by bicycle or car;
- the length of time required to visit each Valley.

Visitors should be exposed to orientation information at key sites and locations. There are several reasons for this:

- many visitors set out with a clear idea of their main destination but can be open to suggestions for additional visits on their day out;
- other visitors are unsure as to where they are heading and will be responsive to clear suggestions;
- orientation displays can be used to promote lesser known sites;
- many visitors require detailed guidance when on their day trip to give them key information about what they might see/visit etc (Ogwr Borough have produced route maps for car drivers travelling the Valleys).

There is also a requirement for several "Gateways to the Valleys" sites and it is suggested that such Gateway Centres may be situated at Tonda, within Bryngarw Country Park and at Llangeinor. It may also be possible to link these Gateway Centres to the tourist information centre network. Their job would be to present key interpretive themes and explain how they can be explored by means of town trails, car tours and visiting attractions. By combining such centres with tourist information centres, operational costs can be minimised whilst providing a logical extension to the tourist information centre function (The Wales network of TICs currently consists of around 80 centres, over half of which are open all year round. There are TICs at Bridgend and Porthcawi).

The "Gateway" should:

- be attractively designed to encourage visitors to stop and find out more information;
- have a orientation and relief map at a strategic point within Maesteg offering clear information to the visitor on the "Valley Experience", local attractions, entertainment etc;
- indicate things to look out for in terms of bird life, plants, picnic spots, viewpoints, play areas for children etc.

Interpretation and theming of, for example, lay-by's, signposts and information boards, may enhance the "sense of arrival" for the visitor at their chosen destination.

#### 3.2.3 Recreation Developments

The proposed tourist train journey from Tondu Station in the Gurw Valley to Pontycymmer, for example, will provide an ideal opportunity for improving the landscaping along the route and providing infrastructure and informal recreational facilities at each station stop. Improved visitor facilities are also required at Postycymmer, Blaengurw and Nant-y-Moel, in terms of accommodation, retail and catering and tourist information.

At the Llynfi Valley there are plans by Ogwr Borough to interpret the old corn store/blast house on the old Tumaen sites alongside the car park as part of the Bedford Ironworks project.

Garw Valley is a blind valley. There is a proposal for operating a steam train to Pontycymmer but there is a requirement for the route to have small scale facilities/activities along it to make it a worthwhile trip. It would be particularly sensible to have the train station starting from within Bryngarw Country Park, which will have a steady flow of visitors to it throughout the summer months.

At Pontycymmer, there needs to be a focal point - a reason for travelling up the valley. Walks, footpaths, trails, picnic tables, wet weather sheltnrs, play areas, refreshments etc should be developed from here to encourage visiturs to alight from the train and spend several hours in the valley before taking the return train back.

However, as tourism itself is no panacea for ailing economies, interpretation and signposting, in themselves, will not bring more people. Tourism must be allied to environmental improvement; interpretation must be allied to the enhancement of existing tourism and leisure resources and the creation of new attractions

Bryngarw Country Park currently offers nature trails and woodland walks, information centre, catering and a formal Japanese Garden. Signage to the country park is poor externally and requires to be addressed within an area signage strategy.

The landscape strategy will have an important role to play in terms of developing the visitor infrastructure along the Valley road so that, once the visitor is suitably informed as to where to go and how to get there, that they are not disappointed by the experience they encounter.

Within the Wales Tourist Board Tourism 2000 Strategy, there are a member of Development Action programmes, one of which is the South Wales Valley's Programmes. The Wales Tourist Board objectives through this programme will be:

 to improve the quality of the product in both physical and service terms;

- to raise the profile of the Valleys as a tourist destination, promoting its links with major towns and cities on the coast;
- to develop the tourism potential of the Valleys for staying and day visitors.

For any proposed developments it is advisable to involve the Wales Tourist Board in future development plans.

#### 3.3 Coastal Strip

#### 3.3.1 The Resource

The strength of the coast as a natural atset has been recognised in the designation of the Heritage Coast and Kenfig Nature Reserve, the latter of which requires to be more fully integrated into the tourism product of the area in terms of interpretation, signage and car/cycle/walking routes. At the same time there are pressures on what may be deemed sensitive environments, at Merthyr Mawr Warren for example. Coney Beach Annuscment Park in Porthcawl is the largest visitor attraction in Ogwr but is in obvious contrast to the natural environment.

Within the Wales Tourist Board Tourism 2000 Strategy, Development Action Programmes have been proposed which will provide an integrated framework within which the industry can develop. A specific programme within the Development Action Programmes is the Coastal Resort Regeneration Programme for Wales. Key components of this programme include:

- co-ordinated programmes of public infrastructure improvements including implementation of visitor management plans relating to traffic management, parking, signing, visitor information and interpretation;
- eovironmental enhancement/landscaping measures in public areas;
- developing opportunities for activity tourism particularly relating to water sports;
- improving the quality of the existing product and identifying opportunities for new developments;
- improving the quality of beach management.

It is advisable to involve the Wales Tourist Board as an active partner in any fuence development work. The potential of the coastal strip in Ogwr and the small seaside towns lies in providing facilities which match a particular market sector and in joint marketing with other resorts and inland attractions. There is a visitor centre at Kenfig Nature Reserve, Newton Burrows and a Heritage Centre at Dunraven Bay. These nodes have very poor linkages with one another. Within the resort of Portheawl, for example, a unified approach is needed with regard to design features and street furniture.

The sourism product of Ogwr is presently Portheawl. It has a population of around 16,000 and receives in excess of 0.5 million visitors each year. Within the resort, implementation of some of the objectives within the Portheawl Regeneration Strategy are currently underway. It will be important for the landscape strategy to be integrated into whatever developments are currently planned for the next 12 months. Since writing the Portheawl Regeneration Strategy, the following developments are planned:

- Innings Building: subject to a feasibility study resulting in the weatherproofing of the building in January. The uses of the building will be to turn it into a visitor attraction focusing on the history of the seaside, hoping that this will have national appeal. It will also have a catering outlet. It is viewed as a high risk strategy but it is the only suggested solution that will meet the requirements of the regeneration strategy;
- Salt Lake Car Park: senders are being sent out to consultants to socertain the best possible use of this high profile size. The idea of locating a swimming pool at this size has been voiced but the consultants report highlighting key options will not be completed until early next year;
- Grand Pavilion: refurbishment is currently underway both internally and externally. The shelters on either side of the Pavilion are currently being upgraded to become office accommodation on one side and a catering facility on the other;
- <u>Rest Bay</u>: planned to develop a seasonal road train from Rest Bay to the centre of Porthcawl;
- <u>Sandy Bay</u>: there is the potential for indoor lensure facilities to be developed. A feasibility study into the potential use of Sandy Bay is just about to be commissioned by Ogwr Borough - the landscape strategy should be aware of both the studies at Sandy Bay and Salt lake car park.

Whilst the frontage of Porthcawl is receiving attention in terms of upgrading the visual impact and image of key buildings, there are obvious opportunities that could also be addressed:

- removal of the Dunraven Flats at the corner of the Esplanade. This is
  one of the first buildings you see approaching the Front and its rainout
  state immediately sets the wrong tone for the resort;
- Iook at sensitively developing Porthcawl's "hinterland" the villages of Nottage and Newton are located within walking distance of the Explanate and within the villages there is a village green, good cattring facilities and pubs and a wishing well. Walks, cycle reutes and nature trails could be developed to encourage visitors to explore further afield and give them a wider experience that the beach;
- development of fishing at Pwil-Y-Waun;
- development of a Gaseway into Porthcawl at the roundabout approaching Porthcawl, creating a sense of arrival;
- improved signposting of the area within the resort;
- develop short break "themed" weekends, focusing on golf, outdoor activities, the environment etc.
- provision of tourist information points (unmanned) at smategically placed locations offering information to the visitor on a variety of things for them to see and do, thus aiding in keeping them in the area longer.

There are also the following opportunities for improving the visitor infrastructure along the coastal strip as follows:

- provide a tourist information point at Methyr Mawr.
- should Newton Burrows be designated as a local nature reserve, ensure that there are plans and a budget for providing board walks, car parking and other visitor infrastructure in this area; this would provide the people of Portheawl with another option for recreation;
- link the Lock's Common pedestrian route into a National Coastal Footpath from Knefig, via Methyr Mawr to Dunnaven Bay; the success of such a coastal route will be dependent upon the availability of public transport to provide a shuttle service.