

Appendix G



Denbighshire Local Development Plan 2006 - 2021

Habitat Regulations Appraisal (Update July 2017)

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1. Introduction

1.1 Denbighshire County Council has started the process of reviewing its adopted Local Development Plan 2006 – 2021 (LDP), with the view to developing a replacement Plan. In its initial stage, the Council aims to identify changes to national policy, strategic documents and newly emerged evidence that necessitates or substantiates future LDP amendments.

1.2 The Planning Inspectors leading the examination of the DRAFT LDP were satisfied that the document complies with ‘The Conservation of Habitats and Species Regulations 2010’. All planning proposals were comprehensively assessed with regard to the likelihood of significant adverse effects on the qualifying features of European sites within and (where appropriate) outside the County throughout the Plan-making process.

1.3 It is the purpose of the following sections to re-visit previous assessments with the aim of identifying potential changes to the relevant European sites (area, qualifying features, relevance to future assessments, etc.) and screening individual site allocations with regard to the effectiveness of the incorporated cancellation, avoidance or mitigation measures in the LDP. There is additional information on air quality as its impact on the qualifying features of the ‘Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains’ Special Area of Conservation were highlighted as an area of caution in proposing new road infrastructure in the south of the County.

1.4 This document does not meet the legal and procedural requirements of a full Habitat Regulation Assessment (HRA) for a local plan. It is preparative in nature for future HRA work, to support the assessment of forthcoming work on a replacement LDP with updated information. The Council nevertheless invites members of the public and interest bodies to submit their comments in order to inform drafting of future HRA documentation.

2. European site review

2.1 The first step in carrying out a Habitats Regulations Assessment for an emerging or revised Local Development Plan is the identification of European sites and Ramsar

sites that could adversely be effected by individual development proposals. It is important to identify the interest features and their conservation objectives.

- 2.2 Local policy revision must be carried out on the basis of up-to-date evidence and in line with national policy and other strategic documents. Equally, any HRA is going to be carried out on the basis of latest information available for the relevant European and Ramsar sites. The purpose of this section is to identify any changes to those sites that have been made since the Denbighshire LDP was adopted in June 2013. Table 1 presents an overview of all European sites and a single Ramsar site that were considered throughout the previous process. Site details can be found on the website of the Joint Nature Conservation Committee (www.jncc.defra.gov.uk).

Table 1: European sites

Site Name	Designation*
Llwyn	SAC
Coedwigoedd Dyffryn Elwy / Elwy Valley Woods	SAC
Coedwigoedd Dyffryn Alun / Alyn Valley Woods	SAC
Afon Dyfrdwy a Llyn Tegid / River Dee and Bala Lake	SAC
Mynydd Helygain / Halkyn Mountain	SAC
Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains	SAC
Deeside and Buckley Newt Sites	SAC
Johnstown Newt Sites	SAC
Aber Dyfrdwy / Dee Estuary	SAC
Aber Dyfrdwy / Dee Estuary	SPA
Y Berwyn	SPA
Bae Lerpwl / Liverpool Bay	SPA
Aber Dyfrdwy / Dee Estuary	Ramsar

* SAC – Special Area of Conservation;
 SPA – Special Protection Area;
 Ramsar – Sites protected under the Convention of Wetlands (Ramsar 1971)

- 2.3 The Liverpool Bay became a ‘full’ Special Protection Area in 2011; after the Council had started working on the Deposit LDP and the completion of the first HRA. Since potential Special Protection Areas and candidate Special Areas of Conservation have to be treated in for HRA purposes as if they were already fully designated sites, the Council had regard to all interest features and conservation objectives for this area throughout the Plan-making process.
- 2.4 In Winter 2016, Natural Resources Wales and Natural England consulted with the public and proposed an extension to the Liverpool Bay SPA. The intention is to extend the SPA area westwards along the central beach area of Prestatyn. Being mindful of the proposal, the Council is going to review the spatial extent of the Coastal tourism protection zone (LDP policy PSE 13) between Rhyl and Prestatyn which lays immediately to the south of the beach.

- 2.5 Natural Resources Wales is currently in the process of reviewing the available information on Alyn Valley Woods SAC. It is likely to publish an update in Autumn 2017. This means future assessments will have to take into consideration that information; particularly with regard to planning proposals along the eastern boundary of the County.
- 2.6 'Johnstown Newt Sites' SAC and 'Deeside and Buckley Newt Sites' SAC are two European sites that have previously been considered in the HRA. They are located in the urbanised areas of Wrexham CBC and Flintshire CC respectively; with a minimum distance of 5,000m from any County-boundary with Denbighshire. The qualifying feature is the Great Crested Newt (GCN). Threats to its habitat can broadly be caused by (1) development requiring planning permission; (2) harmful human activities affecting the habitat; (3) activities that involve damage or infilling of ditch or pond supplied by ditch, pipe or watercourse; or (4) threats by stocking with fish. [Source: Langton, T.E.S., Beckett, C.L., and Foster, J.P. (2001), Great Crested Newt Conservation Handbook, Froglife, Halesworth; p.40]
- 2.7 It is argued that any development stipulated by the provisions of the Denbighshire Local Development Plan would unlikely to be of threat to these GCN habitats due to the built environment surrounding them, lack of authority in adjoining local planning authorities, and the distance to the County boundary. Great Crested Newts rarely migrate more than 1,000m from their breeding pond. [Source: Langton, T.E.S., Beckett, C.L., and Foster, J.P. (2001), Great Crested Newt Conservation Handbook, Froglife, Halesworth; p. 10] It is therefore suggested that individual Plan proposals are not screened regarding the likelihood of significant effects on 'Johnstown Newt Sites' SAC and 'Deeside and Buckley Newt Sites' SAC in itself. However, both European sites must still be considered as part of potential cumulative effects when assessing planning proposals in adjacent authorities.

3. **LDP site allocation screening**

- 3.1 All local policies and site allocations were screened with regard to likely significant effects on the qualifying features of the European sites several times during the Plan-making process. The Council is confident that the different types of avoidance, cancellation or mitigation measures incorporated in the LDP or secured by external bodies are 'fit for purpose' and operational where necessary.
- 3.2 The purpose of screening the LDP site allocations is to look at how effective are those measures and, if possible, are there any ways of improving or strengthening them. Appendix 1 contains the complete screening table. In summary, there are three types of activities that could cause the occurrence of likely significant effects: (1) changes to water quantity and/ or water quality; (2) recreation pressure from new residential development; (3) adverse air quality impacts; or (4) 'in-combination effects' with adjoining local authorities' development plans. Air quality impacts are discussed in section 4. Irrespective of the screening results, it must be noted that the number of dwellings granted planning permission so far, is well below the anticipated levels of growth. For example, as of May 2017, the Bodelwyddan Key

Strategic Site had not delivered any dwellings. It benefits from an outline planning application with many details still to be approved by the local planning authority.

- 3.3 Changes to water quantity and/ or water quality are controlled through the incorporation of soakaways and drainage structures in new developments. If applicable, planning permission is accompanied by a developer note outlining the need to seek further consent from Dŵr Cymru Welsh Water or Natural Resources Wales prior to commencement of development. Both bodies are statutory consultees on planning applications and provide advice on the adequacy of the proposed measures.
- 3.4 The Council has conducted an audit of recreational open space in the County. It included playgrounds, sports fields, amenity green spaces, public parks and gardens and natural and semi natural greenspaces on the outskirts of settlements. The results will not only be used to improve the quality of existing spaces but informed the production of a new supplementary planning guidance note on open space provision in residential developments. Providing high quality places for sports or recreational purposes within settlements raises the local offer and distracts from roaming through the open countryside and European sites. Well-maintained and signposted paths guide local communities through adjacent woods and fields, and supports the experience of natural environment in a managed way without harming protected habitats and species.
- 3.5 The screening exercise did not identify any 'in-combination' effects. It must however be kept in mind that some adjoining local planning authorities in the process of progressing their local development plan towards adoption or they are in the process of revising its document, too. Whilst Denbighshire County Council is likely to be consulted on their proposed changes, the next HRA must carefully study the effects of externally proposed development proposals on the natural environment in the County.

4. **Air Quality**

- 4.1 Likely significant effects on the qualifying features of a European site may not only be caused by development or human activities but also by changes to the air quality of an area; especially the exceedance of critical load levels in selective gases. Previous screening of the Draft Denbighshire Local Development Plan 2006 – 2021 highlighted concerns regarding adverse effects on the qualifying features of the 'Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains' caused by high deposition of nitrogen (N dep).
- 4.2 Air pollution can affect ecosystems in a variety of ways on a local, regional and global scale. Concentrations in air and deposition of particles onto vegetation can damage the vegetation directly or affect plant health productivity. Air quality will generally be considered in term of oxides of nitrogen (NOx), nitrogen deposit (N dep) and other concentration deposits. It can be classified as 'direct', i.e. it is assigned to a physical pollutant/ source, or as 'diffuse', i.e. part of the general air composition in

a given area. Diffuse air pollution cannot be assigned to individual pollutants, it is difficult to identify the source and establish a chain of cause and effect.

- 4.3 In relation to land use planning, the two main sources for 'direct' air quality impacts are employment / industrial areas and transport networks, mainly roads. There has been a newly-built facility for a local printing company in Llangollen. The Planning application was closely scrutinised by the Council and Natural Resources Wales for potential effects on two European sites ('Afon Dyfrdwy a Llyn Tegid / River Dee and Bala Lake' and 'Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains'). Subject to the installation of mitigation measures, planning consent for replacing the 'old' factory was granted by the Council.
- 4.4 New transport routes change traffic directions and traffic flows in an area, with corresponding impacts on air quality. Increases in concentration occur usually within 200m of a major road, though a small contribution from vehicular emissions may be measurable at a further distance. Of most concern for sensitive vegetation are oxides of nitrogen (NO_x) and nitrogen deposition (N dep). The latest figures available from the Air Pollution System website (APIS) are shown below for 'Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains' SAC.

Table 2: Air quality in Berwyn and South Clwyd Mountains SAC for 2013 - 2015

Interest features	Critical Load N dep kg/ha/yr	Critical Level (µg NO _x /m ³ annual mean)	APIS - N dep (kg/ha/yr)	APIS – NO _x (µg/m ³)
Blanket bogs	5 – 10	30	22.54	5.38
Calcareous rocky slopes with chasmophytic vegetation	5 – 10	30	22.54	5.38
Calcareous and calcshist screes of the montane to alpine levels	5 – 15	30	22.54	5.38
Transition mires and quaking bogs	10 – 15	30	22.54	5.38
European dry heaths	10 – 20	30	22.54	5.38
Semi-natural dry grasslands and scrubland facies on calcareous substrates	15 – 25	30	22.54	5.38

* - Standard critical load level set for international and national nature sites

Source: Core Management Plan for European site, APIS website (accessed 05/05/2017)

- 4.5 The table above shows that the nitrogen deposition (N dep) significantly exceeds the relevant critical load in 'Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains SAC' but not the critical level in nitrogen oxidants (NO_x) for vegetation. Nitrogen oxides are the main contributors to air pollution within 200m of the road curb. Since there are no main roads in this European site, and no proposals contained in the Local Development Plan, the existing nitrogen deposition will not be significantly affected by the low levels of NO_x.

5. Summary

- 5.1 The purpose of the Habitat Regulations Assessment (HRA) screening exercise was to re-visit previously conducted HRAs with regard to the Denbighshire Local Development Plan 2006 -2021 (LDP); identify changes to individual European sites; and look at the effectiveness of previously suggested avoidance, cancellation or mitigation measures. It was not aimed at compliance with HRA methodology and legislative requirements but at setting the framework for future work.
- 5.2 None of the local policies and planning proposals contained in the LDP have caused significant effects on any European site since Plan adoption. Proposed measures to offset their occurrence are (where necessary) operational and effective. Nevertheless, further investigations must be carried out to explore opportunities to improve the air quality in the south of the County; especially the reduction of nitrogen depositions.
- 5.3 It was concluded that forthcoming HRAs will additionally have to have regard to the proposed extension of the 'Bae Lerpwl / Liverpool Bay' SPA and new information on 'Coedwigoedd Dyffryn Alun / Alyn Valley Woods' SAC. These changes may have an effect on local policy and the potential forms of land use.

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Appendix I – LDP site allocation screening

Settlement	LDP Policy	Site Name / Deposit LDP ref.	Previously identified potential effects on any European site	Have significant effects occurred since Plan adoption?	Comments (May 2017)
Corwen	BSC 1	former Council Depot, Clawdd Poncen / 05A-01	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx 1.5km to the south, partly on a lower level; Potential effects on 'River Dee and Bala Lake SAC': effects on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	No planning application has yet been received.
Corwen	BSC 1	adj. Ysgol Caer Drewyn, Clawdd Poncen / 05A-02		No	No planning application has yet been received.
Denbigh	BSC 1	Land at Bryn Stanley / 01A-01	'Llwyn SAC' is located approx. 3km to the south east;	No	No planning application has yet been received.
Denbigh	BSC 1	former Autoworld Garage, Smithfield Road / 01A-25	Site allocation taken forward from UDP; Potential effects on 'Llwyn SAC': None identified	No	Development completed; mixed use scheme (residential / community use)
Denbigh	BSC 1	former Smithfield Garage, Smithfield Road / 01A-26		No	Planning permission has been granted for a change of use to car wash facility (May 2017).
Denbigh	BSC 1	Land at Lodge Farm	'Llwyn SAC' is located about 4km to the southwest of potential housing site; Potential effects on the SAC's qualifying features were not identified	No	No planning application has yet been received.
Denbigh	BSC 1	Land adj Ysgol Heulfre		No	No planning application has yet been received.
Denbigh	BSC 1	Land between old and new Ruthin road	'Llwyn SAC' is located about 1km to the southwest of potential housing site. Potential effects on the SAC's	No	Planning application is under consideration (May 2017)

Denbigh	BSC 1	Land off Whitchurch Road [Land at Cae Todyn]	qualifying features were not identified.	No	No adverse effects were identified through Council and NRW assessment of planning application; Planning Committee refused permission in March 2017 and appeal lodged.
St Asaph	BSC 1	Land at former HM Stanley hospital / 46A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 3km to the south, Potential effects on	No	Development is under construction. No likely significant effects were identified prior to granting planning permission.
St Asaph	BSC 1	Bishops Walk / 46A-02	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC': None identified;	No	Development completed.
St Asaph	BSC 1	Bronwylfa Nurseries / 46A-03	Potential effects on 'Liverpool Bay SPA': indirect effects caused by	No	Development completed.
St Asaph	BSC 1	Land off Bryn Gobaith	changes in water quality (river Elwy, river Clwyd, river Clwyd estuary) might have an impact on fish species that	No	No likely significant effects were identified prior to granting planning permission by appeal.
St Asaph	BSC 1	Land off the Paddock	form the basis of the diet of protected birds	No	No planning application has yet been received.
St Asaph	BSC 1	Additional land at former HM Stanley hospital		No	No planning application has yet been received.
Llangollen	BSC 1	Vicarage Road / 03A-01	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located in the vicinity (~1km);	No	No likely significant effects were identified prior to granting planning permission.
Llangollen	BSC 1	Land adj. Trem y Gwernant / 03A-02	Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity, on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	No planning application has yet been received.

Llangollen	BSC 1	Land at Wern Road	'River Dee and Bala Lake SAC' is located on lower ground approx. 300m to the south potential effects on 'River Dee and Bala Lake SAC': impact on water quality caused by surface water run-off from site	No	No planning application has yet been received.
Llangollen	BSC 1	Rear of Castle View and The Hollies	'River Dee and Bala Lake SAC' is located on a lower ground approx. 550m to (north)east; Potential effects on SAC: none identified; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure; Additional consideration: air pollution caused from traffic towards this site in relation to 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC'. Site is located approx. 2km to the south/ southwest, and there is no access from the main road network to the site closer than this distance. Therefore, direct air pollution caused by additional road traffic can be excluded as a likely significant effect. (see HRA document (August 2011), paragraph 5.12 – 5.18))	No	Site is going to be delivered in conjunction with Vicarage Road residential development. No likely significant effects were identified prior to granting planning permission. Update on air quality monitoring can be found in main document, section 4.
Prestatyn	BSC 1	Tip Lane, 43A-02	'Liverpool Bay SPA' and 'The Dee Estuary SPA' are off the Prestatyn coast; Potential effects: none identified at application stage – 'in combination'	No	Development completed.

			with other developments: water quantity and water quality in above European sites		
Prestatyn	BSC 1	Land at Mid Nant Farm	'The Dee Estuary SPA' is located adjacent to the potential housing site. Potential effects on the SPA's qualifying features could be caused by surface water run-off and subsequent changes to food regimes, and recreation pressure.	No	No planning application has yet been received.
Prestatyn / Meliden	BSC 1	Land rear of Ffordd Hendre (Minfford Farm)	'Liverpool Bay SPA' and 'The Dee Estuary SPA' are approximately 3km to the north of the sites; Potential effects: none identified	No	No adverse effects were identified through Council and NRW assessment of planning application; Planning Committee refused permission in April 2017.
Prestatyn / Meliden	BSC 1	Land rear of Maes Meurig		No	No planning application has yet been received.
Ruthin	BSC 1	Glasdir	'Llwyn SAC' is located approximately 7km downstream the river Clwyd; Potential effects: none identified at application stage	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Site remains under construction.
Ruthin	BSC 1	Land adj Maes Hafod and Llys Famau	There isn't a European site in the vicinity that requires consideration. Impact on the water quality caused by water surface run-off into the river Clwyd / Liverpool Bay SPA cannot be envisaged.	No	No planning application has yet been received.
Rhyl	BSC 1	Rhyl South East / 45A-01 / 45A-48	Liverpool Bay SPA' and 'The Dee Estuary' are off the Rhyl coast; Potential effects: none identified at application stage – 'in combination' with other developments: water	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Site is under construction.

			quantity and water quality in above European sites.		
Rhyl	BSC 1	Grange Hotel / 45A-46	Liverpool Bay SPA' and 'The Dee Estuary' are off the Rhyl coast.	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Site is under construction.
Rhyl	BSC 1	Northgate School / 45A-47	Potential effects: none identified at application stage – 'in combination' with other developments: water quantity and water quality in above European sites.	No	No likely significant effects were identified prior to granting planning permission; development is under construction.
Rhyl	BSC 1	Victoria Road / 45A-49		No	No likely significant effects were identified prior to granting planning permission; development is under construction.
Rhyl	BSC 1	Westbourne Avenue / 45A-53		No	No likely significant effects were identified prior to granting planning permission; development is under construction.
Rhyl	BSC 1	Land adj. Sydenham Avenue and West Parade		No	No likely significant effects were identified prior to granting planning permission; development is under construction.
Rhuddlan	BSC 1	Maes y Castell / 44A-13	River Clwyd runs in close proximity to this site, and joins the 'Liverpool Bay SPA' at Foryd harbour in Rhyl; Potential 'in combination' effects: water quantity and water quality in above European sites	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development is completed.
Rhuddlan	BSC 1	Land adj. Hafod Gan and Ysgol Tir Morfa (Tirionfa)	River Clwyd runs in close proximity to this site, and joins the 'Liverpool Bay SPA' at Foryd harbour in Rhyl. Potential in-combination effects on	No	No likely significant effects were identified prior to granting planning permission; development is under construction.

			the SPA's qualifying features were not identified.		
Bodfari	BSC 1	Land to rear of Bryn Orme / 41A-01	'Llwyn SAC' is located about 5km to the southwest of potential housing site. Potential effects on the SAC's qualifying features were not identified.	No	No planning application has yet been received.
Bodfari	BSC 1	Car park adj Dinorben Arms / 41A-02	'Llwyn SAC' is located about 5km to the southwest of potential housing site. Potential effects on the SAC's qualifying features were not identified.	No	No planning application has yet been received.
Bodfari	BSC 1	Ffynnon y Chwarel/ 41A-03	'Llwyn SAC' is located about 5km to the southwest of potential housing site. Potential effects on the SAC's qualifying features were not identified.	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development has been completed.
Bodfari	BSC 1	Land at side of No.16 Maes y Graig	'Llwyn SAC' is located about 5km to the southwest of potential housing site. Potential effects on the SAC's qualifying features were not identified.	No	No planning application has yet been received.
Bryneglwys	BSC 1	Land to the rear of Bryn Awel / 10A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx. 1.5km to the south on a higher ground;	No	No planning application has yet been received.
Bryneglwys	BSC 1	Trem y Foel / 10A-02	Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	No adverse effects were identified through Council and NRW assessment of planning application; Development not yet commenced.
Carrog	BSC 1	Land adj Cemetary / 05B-01	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located in the vicinity (~1km);	No	No planning application has yet been received.
Carrog	BSC 1	Land adj Maes Sidan / 05B-02		No	No planning application has yet been received.

			Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity, on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure		
Clawddnewydd	BSC 1	Land adj to Crud yr Awel / 12A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx 6km to the south; Potential effects: None identified	No	No planning application has yet been received.
Clawddnewydd	BSC 1	Rear of Paradws / 12A-02		No	No adverse effects were identified through Council and NRW assessment of planning application; planning application covers only small part of original site allocation
Clocaenog	BSC 1	Nant y Celyn / 11A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx 9km to the south; Potential effects: None identified	No	No planning application has yet been received.
Cynwyd	BSC 1	Maes Glyndwr / 08A-01	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located in the vicinity; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity, on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development has been completed.
Cynwyd	BSC 1	Land adj. Bryn Gwynt	'River Dee and Bala Lake SAC' is located on a lower ground about	No	No planning application has yet been received.

			400m to the north-west of potential housing site. Potential effects on the SAC's qualifying features could be caused by surface water run-off and changes in water quality. 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located about 1km to the east. Potential effects on the SPA's and SAC's qualifying features could be caused by recreation pressure		
Cyffylliog	BSC 1	Land to the rear of Llys Heulog	'Llwyn SAC' is located about 6.5km to the south-east of potential housing site. Potential effects on the SAC's qualifying features were not identified.	No	No planning application has yet been received.
Dyserth	BSC 1	Land adjoining Glan Ffyddion Estate	'Liverpool Bay SPA' is located about 4km to the south-west of potential housing site. Potential effects on the SPA's qualifying features were not identified.	No	No planning application has yet been received.
Eryrys	BSC 1	Gwalia House	The closest European site is 'Alyn Valley Woods/ Coedwigoedd Dyffryn Alun', approx. 5km away; Potential effects on SAC: None	No	No adverse effects were identified through Council and NRW assessment of planning application; planning permission has expired.
Eryrys	BSC 1	Canol y House		No	No planning application has yet been received.
Gellifor	BSC 1	Land at Penarth / 22B-01	'Llwyn SAC' is located approximately 2.5km to the west; Potential effects: None identified	No	No planning application has yet been received.
Glyndyfrdwy	BSC 1	Land rear of New Inn Terrace /	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South	No	No planning application has yet been received.

			Clwyd Mountains SAC' are located in the vicinity of the site; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity, on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure		
Graigfechan	BSC 1	Land south of Tan y Graig / 20B-02	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx 5.5km to the south; Potential effects: None identified	No	Outline planning application has been granted for 9 dwellings.
Gwyddelwern	BSC 1	Bryn Llan / 06B-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx 5.5km to the south;	No	No planning application has yet been received.
Gwyddelwern	BSC 1	Rear of Beuno Terrace / 06B-02	Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	No planning application has yet been received.
Gwyddelwern	BSC 1	South of School / 06B-03		No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development has not been completed, yet.
Henllan	BSC 1	Ty Coch / 28A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located in the vicinity (~1km); Potential effects on 'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC': recreation pressure	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development is under construction.
Henllan	BSC 1	Henllan Centre / 28A-05		No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development is under construction.

Llanarmon yn Ial	BSC 1	South of Cam yr Alyn / 15A-01	'Berwyn and South Clwyd Mountains SAC' is located about 3km to the east. Potential effects on the SAC's qualifying features could be caused by recreation pressure.	No	No adverse effects were identified through Council and NRW assessment of planning application; Development not yet commenced.
Llanarmon yn Ial	BSC 1	Land rear of Maes Garmon estate		No	No planning application has yet been received.
Llanbedr Dyffryn Clwyd	BSC 1	Land adj Troed y Fenlli/ 16A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx. 3.5km to the south; Potential effects: none identified	No	No planning application has yet been received.
Llanbedr Dyffryn Clwyd	BSC 1	Rear of Llwyn Derw / 16A-02		No	No planning application has yet been received.
Llanbedr Dyffryn Clwyd	BSC 1	Land between the Rectory and Brakendene / 16A-03		No	No planning application has yet been received.
Llanbedr Dyffryn Clwyd	BSC 1	Land to the northwest of Maes Derwen		No	No planning application has yet been received.
Llanbedr Dyffryn Clwyd	BSC 1	Land adj to the old Rectory		No	No planning application has yet been received.
Llandegla	BSC 1	16A-01	'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located about 1 and 5km to this site; Potential effects on the 'Berwyn SPA', 'Berwyn and South Clwyd Mountains SAC' and 'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC': recreation pressure	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development is completed.
Llandrillo	BSC 1	Rear of Bodwen / 17A-01	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located in	No	No adverse effects were identified through Council and NRW assessment of planning

			the vicinity of the site; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity, on water quality from surface water run-off; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure		application; development not yet commenced.
Llandyrnog	BSC 1	Land adj Maes Llan / 18A-05	'Llwyn SAC' is located approximately 3km to the west; Potential effects: None identified	No	No adverse effects were identified through Council and NRW assessment of planning application; development not yet commenced.
Llanfair Dyffryn Clwyd	BSC 1	Land to the rear of the crossroads and Bron y Clwyd / 20A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx. 7 km to the south; Potential effects: None identified	No	Planning permission has been granted for 63 dwellings.
Llanfair Dyffryn Clwyd	BSC 1	Vicarage Field / 20A-04		No	No planning application has yet been received.
Llanferres	BSC 1	Rear of Bod Eryl / 21A-03	'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC' is located approx 2.5km to the south east; Potential effects: None identified	No	No planning application has yet been received.
Pentre Llanrhaeadr	BSC 1	Land to the rear of Maeshwylfa/ 23B-01	'Llwyn SAC' is located about 1.5km to the north. Potential effects on the SAC's qualifying features were not identified.	No	No adverse effects were identified through Council and NRW assessment of planning application; latest application seeks extension to time for submitting details.
Pentre Llanrhaeadr	BSC 1	Land rear of Dolwar / 23B-02		No	Outline planning permission has been renewed for 15 dwellings.

Pentre Llanrhaeadr	BSC 1	Land adjacent to Dolwar		No	
Pwllglas	BSC 1	Land south of the A494 / 13A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains' are located approx. 7km to the south;	No	No planning application has yet been received.
Pwllglas	BSC 1	Land at Minffordd / 13A-02	Potential effects: None identified	No	No planning application has yet been received.
Rhewl (nr Ruthin)	BSC 1	Land rear of Rhyd y Byll / 24B-01	'Llwyn SAC' is located approximately 4km to the west;	No	No adverse effects were identified through Council and NRW assessment of planning application; development not yet commenced.
Rhewl (nr Ruthin)	BSC 1	Hafod Ynys / 24B-02		No	No adverse effects were identified through Council and NRW assessment of planning application; development not yet commenced; Development is under construction.
Rhuallt	BSC 1	Land rear of Dyffryn Teg / 47A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 5km to the west;	No	No planning application has yet been received.
Rhuallt	BSC 1	Land west of Dyffryn Teg / 47A-02	Potential effects: None identified	No	No planning application has yet been received.
Rhuallt	BSC 1	Land south of Dyffryn Teg		No	No planning application has yet been received.
Trefnant	BSC 1	Land rear of Maes yr Erwain / 30A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 2km to the west;	No	No planning application has yet been received.
Trefnant	BSC 1	Land adj Maes Gruffyd / 30A-02	Potential effects: None identified	No	Site allocation carried forward and granted permission under former local plan (UDP) policies. Development has not commenced, yet.

Tremeirchion	BSC 1	Land rear of Llys y Twysog / 47B-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approx. 5km to the west; Potential effects: None identified	No	No planning application has yet been received.
Abbey Terrace	BSC 6	27A	Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	3 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Aberwheeler	BSC 6	09A	Potential effects: None identified	No	No dwelling has been approved.
Bontuchel	BSC 6	14B	Potential effects: None identified	No	No dwelling has been approved.
Cefn Mairwen	BSC 6	31A	Potential effects: None identified	No	No dwelling has been approved.
Cwm	BSC 6	47C	Potential effects: None identified	No	No dwelling has been approved.
Derwen	BSC 6	12B	Potential effects: None identified	No	5 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Graianrhyd	BSC 6	15C	Potential effects: None identified	No	2 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Groesffordd Marli	BSC 6	31B	Potential effects: None identified	No	No dwelling has been approved.
Hendrerwydd	BSC 6	22A	Potential effects: None identified	No	No dwelling has been approved.
Hirwaen	BSC 6	16B	Potential effects: None identified	No	2 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Llanelidan	BSC 6	19A	Potential effects: None identified	No	No dwelling has been approved.

Llangynhafal	BSC 6	22C	Potential effects: None identified	No	1 unit permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Llanrhaeadr yng Nghinmeirch	BSC 6	23A	Potential effects: None identified	No	No dwelling has been approved.
Llanrhydd	BSC 6	16C	Potential effects: None identified	No	No dwelling has been approved.
Llanynys	BSC 6	24A	Potential effects: None identified	No	No dwelling has been approved.
Loggerheads	BSC 6	21C	Potential effects on 'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC': recreation pressure	No	No dwelling has been approved.
Maeshafn	BSC 6	21D	Potential effects on 'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC': recreation pressure	No	3 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Marian Cwm	BSC 6	47D	Potential effects: None identified	No	No dwelling has been approved.
Melin-y-Wig	BSC 6	04B	Potential effects: None identified	No	No dwelling has been approved.
Pant Pastynog	BSC 6	23C	Potential effects: None identified	No	No dwelling has been approved.
Peniel	BSC 6	23D	Potential effects: None identified	No	No dwelling has been approved.
Pentre Saron	BSC 6	23E	Potential effects: None identified	No	No dwelling has been approved.
Pentrecelyn	BSC 6	20C	Potential effects: None identified	No	3 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Pentredwr	BSC 6	27B	Potential effect on 'Berwyn and South Clwyd Mountains SAC': recreation pressure	No	4 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Prion	BSC 6	23F	Potential effects: None identified	No	No dwelling has been approved.

Tafarn Y Gelyn	BSC 6	21E	Potential effects on 'Coedwigoedd Dyffryn Alun/ Alyn Valley Woods SAC': recreation pressure	No	2 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Y Green	BSC 6	01B	Potential effects: None identified	No	3 units permitted in area of search; no adverse effects were identified through Council and NRW assessment of planning application
Prestatyn	BSC 2	former Gas Works site / 45A-03	'Liverpool Bay SPA' and 'The Dee Estuary' are off the Prestatyn coast; Potential effects: water quantity and water quality in above European sites	No	The Council approved a retail development scheme that does not adversely affect water quantity or water quality of these two European sites.
Rhuddlan	BSC 2	'Rhuddlan Triangle' / 43A-02	River Clwyd runs adjacent to this site, and joins the 'Liverpool Bay SPA' at Foryd harbour in Rhyl; Potential 'in combination' effects: water quantity and water quality in above European site	No	The Council approved a supermarket scheme that does not indirectly affect water quantity or water quality of this European site.
Rhyl	BSC 2	Marina Quay (former Ocean Plaza) / 45A-51	'Liverpool Bay SPA' and 'The Dee Estuary' are off the Rhyl coast; Potential effects: water quantity and water quality in above European sites	No	The Council granted planning permission for a mixed use development, incl. retail and food outlets, that does not adversely affect water quantity or water quality of these two European sites.
Llangollen	ASA 1	land safeguarded for recreational purposes	Land safeguarded for possible recreation purposes on disused railway along the river Dee from Trevor towards Llangollen. Impacts on 'River Dee and Bala Lake SAC' cannot be excluded from the outset. The use	No	Former railway embankment was safeguarded for the installation of a walking path between Llangollen and Trevor (Wrexham CBC). Project has not been implemented, yet.

			of disused railway lines for walking and cycling purposes does not need planning permission in itself.		
Carrog - Corwen	ASA 1	Railway extension	'The Llangollen and Corwen Railway Order 2010' was passed by WAG in 2010. Countryside Council for Wales did not object to the proposal but raised concern in respect to the 'River Dee and Bala Lake SAC' (CCW Ref: DH/SJ44.1.11.1.3/1295948).	No	Railway extension between Corwen and Carrog has successfully been implemented.
Corwen	VOE 7	Part of Ty'n Llidiart Industrial Estate / 05A-06	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx. 1.5km to the south, partly on a lower level; site allocation on existing employment land, small scale to serve the local area; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity/ water quality; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': air quality impacts	No	No planning application has yet been received for waste management on this site.
Denbigh	VOE 7	Denbigh Quarry / 01A-05	'Llwyn SAC' is located approximately 3km to the south east; former Quarry, small scale to serve the local area; Potential effects: None identified	No	No planning application has yet been received for waste management on this site.
Graig Lelo	VOE 7	Graig Lelo Quarry / 06A-01	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx. 5.5km to the south; Potential effects: None identified	No	No planning application has yet been received for waste management on this site.

St Asaph Business Park	VOE 7	32A-02	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approx. 3km to the south; part of St Asaph Business Park former hazardous instalment on site; Potential effects: None identified	No	No planning application has yet been received for waste management on this site.
Rhuallt	VOE 7	47A-07	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located approximately 5km to the south west; Potential effects: None identified	No	The Council granted planning permission for the erection of an anaerobic digestion facility, now completed. No adverse effects on the qualifying features of any European site were identified during the application determination-process.
Ruthin	VOE 7	former Bus depot /	'Llwyn SAC' is located approximately 7km downstream the river Clwyd; Potential effects: indirect impact on water quality and water quantity downstream in the 'Liverpool Bay SPA'	No	No planning application has yet been received for waste management on this site.
Ruthin	VOE 7	Fedw Fawr /		No	No planning application has yet been received for waste management on this site.
Bodelwyddan	PSE 2	40A-02 / 40A-03 / 40A-04 /	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 3.5km to the south; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Corwen	PSE 2	Land adj A5 (Corwen) / 40A-04	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located in the vicinity (>1km) of this site; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity/ water quality;	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.

			Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': air quality impacts		Update on air quality monitoring can be found in main document, section 4.
Corwen	PSE 2	Ty'n Llidiart Industrial Estate / 40A-05	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx 1.5km to the south; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity/ water quality; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': air quality impacts	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications. Update on air quality monitoring can be found in main document, section 4.
Denbigh	PSE 2	Colomendy Industrial Estate / 01A-03	'Llwyn SAC' is located approximately 3km to the south east; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
St Asaph	PSE 2	Land at former HM Stanley hospital / 46A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 3km to the southwest; Potential effects: None identified	No	Site has planning permission for residential development, currently under construction, see also comments re BSC 1 46A-01
St Asaph	PSE 2	46A-04 / 46A-05 /	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 3km to the southwest; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Llangollen	PSE 2	03A-04	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located in the vicinity (>1km) of this site;	No	Site has planning permission for retail development; development is completed. There were no adverse effects identified on any

			Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity/ water quality; Potential effects on the 'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC': air quality impacts		European site during the determination-process. Update on air quality monitoring can be found in main document, section 4.
St Asaph Business Park	PSE 2	32A-01	'Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods SAC' is located on a higher ground approximately 3km to the south; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Prestatyn	PSE 2	former Warren Drive depot / 43A-06	'Liverpool Bay SPA' and 'The Dee Estuary' are off the Prestatyn coast; Potential effects: water quantity and water quality in above European sites	No	Site got planning permission for residential development. There were no adverse effects identified on any European site during the determination-process for individual planning proposals.
Ruthin	PSE 2	02A-02 / 02A-03	'Llwyn SAC' is located approximately 7km downstream the river Clwyd; Potential effects: indirect impact on water quality and water quantity downstream in the 'Liverpool Bay SPA'	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Rhyl	PSE 2	45A-02 / 45A-03 / 45A-04 / 45A-05 / 45A-06 / 45A-07 / 45A-08 / 45A-09	Liverpool Bay SPA' and 'The Dee Estuary' are off the Rhyl coast; Potential 'in combination' effects: water quantity and water quality in above European sites	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Cynwyd	PSE 2	Ifor Williams factory / 08A-03	'River Dee and Bala Lake SAC', 'Berwyn SPA' and 'Berwyn and South	No	Established employment sites with various uses; no adverse effects identified through the

			Clwyd Mountains SAC' are located in the vicinity of the site; Potential effects on 'River Dee and Bala Lake SAC': effects on water quantity/ water quality		assessment of planning applications. Update on air quality monitoring can be found in main document, section 4.
Dyserth	PSE 2	'Anglia Yard' / 42A-01	'Liverpool Bay SPA' and 'The Dee Estuary' are approximately 4km to the north of the site; Potential effects: None identified	No	Site has planning permission for residential development. There were no adverse effects identified on any European site during the determination-process.
Meliden	PSE 2	43B-02	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx. 5.5km to the south; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.
Graig Lelo	PSE 2	Graig Lelo Quarry/ 06A-02	'Berwyn SPA' and 'Berwyn and South Clwyd Mountains SAC' are located approx 5.5km to the south; Potential effects: None identified	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications. See also comments re VOE 7 06A-01
Rhuddlan	PSE 2	HTM Industrial Estate / 44A-01	River Clwyd runs in close proximity to this site, and joins the 'Liverpool Bay SPA' at Foryd harbour in Rhyl; Potential 'in combination' effects: water quantity and water quality in above European sites	No	Established employment sites with various uses; no adverse effects identified through the assessment of planning applications.