

# Forcett Quarry Site Biodiversity Action Plan



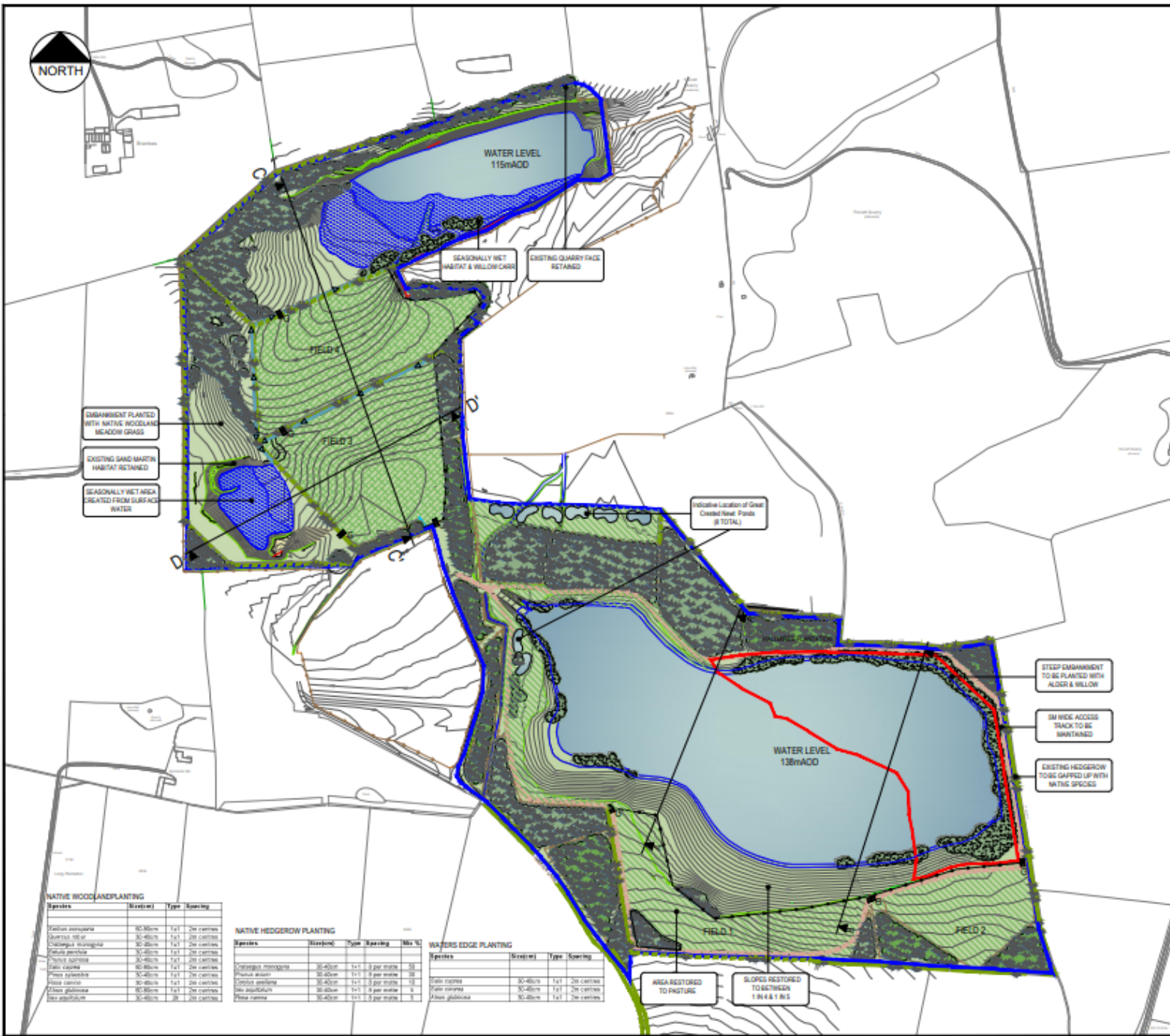
Prepared: December 2010

Updated: December 2022

## Site Information- Forcett

<b>Site Name and Location</b>	Forcett Quarry, approximately 10km north of Richmond, North Yorkshire Grid Ref – NZ155109
<b>Hanson Company</b>	Hanson Aggregates - North
<b>BAP(s) that will be targeted</b>	Richmondshire LBAP
<b>Habitat(s) to be developed</b>	Broadleaved woodland (upland and lowland ash, lowland oak and wet woodland**) Scrub** Species rich grassland Standing water ** identified in Richmondshire BAP as priority for mineral sites
<b>BAP species to be encouraged</b>	<i>Mammals:</i> Bats <i>Birds:</i> Song thrush, Bullfinch, Sand martin, Linnet Great Crested Newt
<b>Designated Natural Area</b>	Yorkshire and Humber.
<b>Background and site description</b>	Extension granted permission in Feb 2008 and was subject to Section 106 agreement which contained an initial management plan for the site for the operational life up to the end of the 5 year aftercare period followed by an additional 10 years. The section 106 requires Hanson to develop the management committee containing representatives from Hanson, NYCC and the landowners and for the group to meet annually. The management group should be consulted on the preparation, implementation and monitoring of the initial management plan and subsequent longer term management plans. The Site is located within an area of productive agriculture with sparse woodland cover. Restoration includes two large waterbodies, woodland and agricultural grassland with areas of fringing habitat for biodiversity including ponds and species rich grassland.
<b>National Designations (SSSI, SAC, SPAs, RAMSARs and NPs) within 500m</b>	None.
<b>Resource Requirements</b>	Restoration Budget.
<b>Contribution to biodiversity &amp; benefits</b>	Compliance with legislation and planning. Identification of areas of nature conservation value that are being retained for positive management for wildlife. The quarry set within an area largely intensive agriculture with sparse tree cover and quarry will provide refuge for range of species and link to previously worked areas to the east and large estate lands to the north
<b>Partners and Local initiatives</b>	Forcett Quarry Management committee
<b>Other documents supporting the site BAP</b>	Restoration Plan Management Plan

## Site Layout



- ### LEGEND
- Limit of planning permission for site & land interest
  - Proposed extension
  - Proposed native species rich hedgerow
  - Existing hedgerow to be gapped up
  - Proposed fencing
  - Proposed field gate
  - Proposed access track
  - Proposed pasture
  - Existing pasture rough grassland
  - Proposed species rich grassland
  - Existing Sand Martin habitat retained
  - Existing woodland
  - Proposed woodland
  - Proposed alder/willow woodland
  - Open water
  - Seasonally wet habitat
  - Indicative GCN Pond Location
  - Proposed contours @ 1m intervals
  - Cross section location

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Site **FORCETT QUARRY**

Title **Revised Restoration Plan with Great Crested Newt ponds**

Scale <b>1:5000@A3</b>	Date <b>June 21</b>	Drawing No.
Drawn by <b>JW</b>	Checked by <b>GW</b>	<b>F55/75</b>

**NATIVE WOODLAND PLANTING**

Species	Quantity	Type	Spacing
<i>Salix alba</i>	30-40cm	1 x 1	2m centres
<i>Salix caprea</i>	30-40cm	1 x 1	2m centres
<i>Salix purpurea</i>	30-40cm	1 x 1	2m centres
<i>Salix viminalis</i>	30-40cm	1 x 1	2m centres
<i>Salix elaeagnos</i>	30-40cm	1 x 1	2m centres
<i>Salix glauca</i>	30-40cm	1 x 1	2m centres
<i>Salix repens</i>	30-40cm	1 x 1	2m centres
<i>Salix virens</i>	30-40cm	1 x 1	2m centres
<i>Salix purpurea</i>	30-40cm	1 x 1	2m centres
<i>Salix viminalis</i>	30-40cm	1 x 1	2m centres
<i>Salix elaeagnos</i>	30-40cm	1 x 1	2m centres
<i>Salix glauca</i>	30-40cm	1 x 1	2m centres
<i>Salix repens</i>	30-40cm	1 x 1	2m centres
<i>Salix virens</i>	30-40cm	1 x 1	2m centres

**NATIVE HEDGEROW PLANTING**

Species	Quantity	Type	Spacing	Mix %
<i>Crataegus monogyna</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa canina</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa rugosa</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa lucida</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa carolina</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa rugosa</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa lucida</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa carolina</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa rugosa</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa lucida</i>	30-40cm	1 x 1	2m centres	5%
<i>Rosa carolina</i>	30-40cm	1 x 1	2m centres	5%

**WATERS EDGE PLANTING**

Species	Quantity	Type	Spacing
<i>Salix caprea</i>	30-40cm	1 x 1	2m centres
<i>Salix purpurea</i>	30-40cm	1 x 1	2m centres
<i>Salix viminalis</i>	30-40cm	1 x 1	2m centres
<i>Salix elaeagnos</i>	30-40cm	1 x 1	2m centres
<i>Salix glauca</i>	30-40cm	1 x 1	2m centres
<i>Salix repens</i>	30-40cm	1 x 1	2m centres
<i>Salix virens</i>	30-40cm	1 x 1	2m centres

## Action Plan

Item No.	Objective	Biodiversity Feature	Targets	Tasks	Assessing Indicator	Responsible Person	Timescale (Completion)
1	To restore, create and manage woodland and hedgerow habitat	Broad leaved woodland Hedgerows	Plant 5.5ha broadleaved woodland  Plant 1630m hedgerows to create connectivity	1.Establish and manage woodland  2. Establish and manage hedgerow by planting, cutting and laying	Ha established and managed  Lin. m. established and managed and detailed in annual report	Landscape Architect	Ongoing until 2031
2	To create scrubby margins to woodland	Scrub	To provide a diffuse margin between woodland and grassland habitats for invertebrates	1.Scrub planting programme (see management plan)  2.Management to maintain a mosaic with grassland	Increase in restored areas. (Ha)	Landscape Architect	Ongoing until 2031
3	To create and manage wetland habitat	Shallow margins for emergent and marginal vegetation to develop  Wet woodland along margins of northern lake  Pond creation for GCN	Initially natural regeneration but with provision for planting (see management plan)  Planting of common alder and willows  Create 6 ponds	1.Monitoring of natural development Annual survey to determine establishment success  2.Planting and natural regeneration  3. Four ponds created. Another two to be created on final restoration	Annual report and increase in woodland and wetland vegetation and number of ponds	Landscape Architect	Ongoing until 2031  Pond creation part completed.
4	To create species rich grassland	Species rich grassland	To be established along southern fringe of southern lake	1.Establishment of native limestone grassland using BSH Regional 4 mix or similar (see management plan)	Development of diverse grassland in mosaic with scrub. Annual walkover and recording of species using DAFOR scale during aftercare period. Details in annual report.  Successful development of sward for grazing	Landscape Architect Ecological Consultants	Ongoing until 2031
5	Species conservation and management	Bats Sand martin Song thrush Bullfinch Linnet Great crested newt Common amphibians	Create broad-leaved woodland, hedgerow and scrub habitat to provide nesting for birds, foraging and commuting routes for bats and connectivity between woodland blocks and site margins.	1. Protect existing known nests/habitats and limit disturbance on site by making site staff aware of habitat areas.  2.Create areas of new habitat to increase site biodiversity as a whole	Site Manager and Landscape architect to inform site staff and contractors working close to sensitive habitat areas.  Increased reports of presence of target species	Site Manager Landscape Architect	Ongoing until 2031

			<p>Create grassland/scrub mosaic to benefit a range of invertebrate species including butterflies</p> <p>Create wetland margins to provide cover for wetland bird species and habitat for common amphibians and range of wetland invertebrates</p>	<p>3. Encourage reporting of sightings of any target species by staff</p> <p>4. Recognise opportunities to benefit biodiversity during working and restoration and be flexible to accommodate in restoration</p>	<p>Details in annual report.</p>		
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