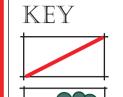
GODDARDS LIMESTONE QUARRY, STONEY MIDDLETON: RESTORATION LEGACY



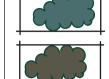




Mineral Products Association



FORMER QUARRY BOUNDARY



ESTABLISHED RESTORATION TREE AND SHRUB PLANTING

MATURE WOODLAND



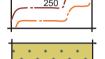
RESTORATION TREE AND SHRUB PLANTING



EXISTING GRASSLAND

REINSTATED GRASSLAND

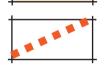
(Areas to naturally recolonise)



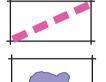
CONTOURS (AT 1.0m. INTERVALS)



(Areas seeded using locally sourced hay or seed) REGRADED SLOPES AND QUARRY FLOOR



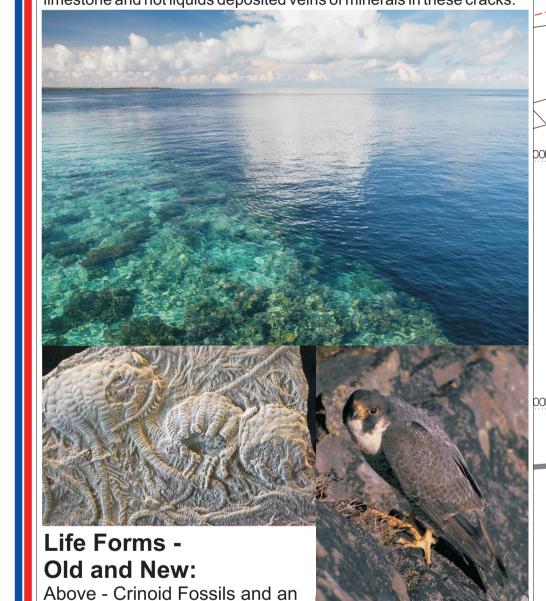
EXISTING PUBLIC RIGHT OF WAY



PROPOSED PERMISSIVE FOOTPATH

DRAINAGE PROVIDED BY LAGOONS, LOW SPOTS AND SOAKWAYS

About 360 million years ago, most of what is now the Peak District was under a shallow tropical sea. The fossilised remains of the marine creatures, such as shellfish, sea-lilies ('crinoids') and corals, formed box the limestone that lies under the White Peak area of the Peak District National Park. Around 326 million years ago, sands, gravels and mud were deposited on top of the limestone to form the gritstone and shale of the Dark Peak. Movements in the Earth's crust caused cracks in the limestone and hot liquids deposited veins of minerals in these cracks.



ocean view typical of the

Carboniferous Period (65

Falcons and Great Crested

Newts, amongst others

Right - Site supports Peregrine

million years)



Left - Summer 2007 Quarry operational, vith uppermost slopes restored

Right - Summer 2017 -Quarry restored. faces retained and linked by of species-rich calcareous grassland to replicate traditional Peak District hay meadows



Left - Winter 2010 -Quarrying complete and final restoration works undertaken

Right - Summer 2017 Steps and path within maturing woodland landscape



Although quarrying is often associated with harmful impacts, it can also have positive benefits. For example, previously worked and restored sites may provide increased biodiversity, geological and recreational

The Peak District National Park Authority is the planning authority for the area and is responsible for conserving and enhancing the natural beauty, wildlife and cultural heritage of the Park. It is also required to promote opportunities to understand and enjoy the Park's special qualities, and to consider the economic and social wellbeing of local communities. The National Park Authority works in partnership with many other organisations to achieve these

In Roman times, Peak District limestone was quarried for building stone and to make lime for mortar. The limestone in the area is often very pure (high in calcium carbonate) and has many chemical, industrial and construction uses. As early as 1521 quicklime was being used to improve agricultural land and lime kilns (for heating limestone to produce quicklime) were a familiar sight in the Peak District. Lime was also used in lead smelting. The cutting of canals and, later, the opening of the Cromford and High Peak Railway increased lime exports, to be used in building and

other industries.

View eastwards, **Quarry operational in June 2007:** Grassed slopes created with reject stone, soils and finer materials; Faces retained for geological interest and for roosting sites.

their height and ensure their safety. They were, nonetheless, left exposed as a key element of the new scene, containing fascinating fossil beds. There are also ponds for newts, complete with hibernacula to provide added protection for the tiny creatures during harsher weather. Reptiles and rock bees utilise the sunny quarry faces; there are

Restoration and Biodiversity Awards 2015:

MPA Restoration Award Winner COMMENDED

Blending a limestone quarry that has been worked for some 70 years

Hope Valley didn't start in earnest until 2010, the transformation from

The fact that steep slopes had previously been hydroseeded with grass

and some trees planted meant that the general process of softening the

scene had already started. The rock faces were then blasted to reduce

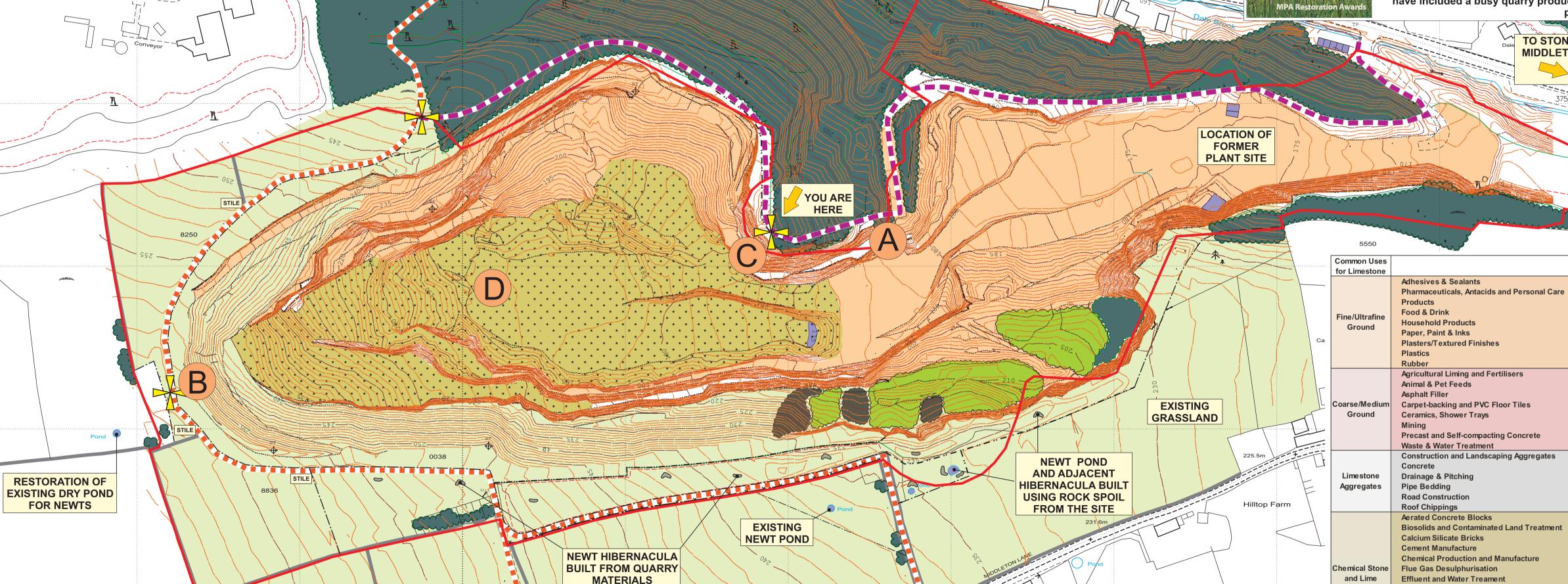
industrial scene to picturesque grassland is remarkable.

back into a landscape as beautiful as the Peak District National Park is no

easy prospect. Given that CEMEX's restoration of Goddards Quarry in the

several species of butterflies and a badger sett. A permissive path makes it possible for locals and visitors alike to enjoy a route around the quarry. They can also pause at this viewing point to take in a now

peaceful view which not long ago would have included a busy quarry production **TO STONEY MIDDLETON**





EXISTING

GRASSLAND

Robert Goddard and his quarry workers in the early part of the 20th Century Since the 17th century, the Peak District has been Britain's largest lime and



oney Middleton, Goddards Quarry [2]

© Tony Mason 2005 Stoney Middleton, Goddard's Quarry

limestone producer. The rich deposits of carboniferous limestone have provided – and are still providing – vast quantities of raw materials for use in

The use of gunpowder in blasting at the beginning of the 19th century established limestone quarrying and significantly increased production. The stone was used for burning to produce quicklime, a soil improver used by farmers and for the newer industries that developed with industrial revolution

Limestone was crushed and used for road surfaces and in the production of asphalt macadam. By the early 20th century large volumes of limestone were used as a flux in blast furnaces for smelting iron and in the large-scale manufacture of glass.

Limestone quarrying grew enormously in scale throughout the 20th century reaching a peak of 8.5 million tonnes in 1990. In 2008/9 4.1 million tonnes of limestone was guarried for aggregate uses and 3.8 million tonnes for nonaggregate uses from within the Park.



(Burnt Lime)

Glass Manufacture

Motor Oil Additives

Plastics Sugar-Refining

Iron & Steel Production