Warwickshire Geological Conservation Group

Warwickshire Local Geological Site		
Site No: 59	A422 Quarry, Horton	
Geological Formations	Marlstone Rock Formation (Jurassic) Dyrham Formation (Jurassic)	
Criteria Form		p 2
Description		p 3
Photographs		p4
Location Map		p 5

Local Geological Sites (LoGS), designated by locally developed criteria, are currently the most important places for geology and geomorphology outside statutorily protected land such as Sites of Special Scientific Interest (SSSI). The designation of LoGS is one way of recognising and protecting important Earth science and landscape features for future generations to enjoy.

WGCG is responsible for the identification of LoGS in Warwickshire and the West Midlands.

Please note that designation of a site as a LoGS does not confer a legal right of access. Unless the site is on a designated public right-of-way, the landowner's permission is required before visiting.

Warwickshire Local Geological Site - Criteria Form

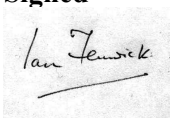
Site name: A422 Quarry, Hornton	**Also known as:**		
District: Stratford on Avon	**County:** Warwickshire		
Grid reference: SP 3785 4535	**LoGS Number:** 59	**ESCC Class:**	EA

Brief Description: An extensive quarry within the Lower Jurassic Marlstone Rock Formation with occasional exposures of the basal pebble bed and underlain by shelly clays and limestones of the Dyrham Formation.

This site qualifies as a Local Geological Site for the following criteria:

A Good Example of the Marlstone Rock Formation in its unweathered 'Blue Hornton' development

Educational Fieldwork					
1. Educational Potential	✓	2. Physical access	✓	3. Safety	✓
Scientific Study					
1. Diversity of interest		2. Rarity of interest *Berthierine*	✓	3. Size of feature	✓
4. Typicalness of feature	✓	5. Geological/physiographic linkage to: *Burton Dassett Hills (33),Edge Hill Quarries (35), Meon Hill Barn (36), Avonhill Quarry (50), Humpty Dumpty Field, Ilmington (77) & Edge Hill Farm Quarry(88)*			✓
Historical Value					
1. Celebrity link		2. Pioneering research		3. Historical link	
Aesthetic Value In The Landscape					
1. Local importance in the landscape		2. Promotion of Earth science			

Signed	**Date first selected** 27th February 2002
	**Reviewed by LoGS panel** Oct. 2009
	Further survey required
I M Fenwick, Chairman, **Warwickshire Geological Conservation Group**	**LoGS Confirmed** ✓

Endorsed by

Warwickshire Museum	**Natural England**
J Radley, Keeper of Geology	J A Irving, Conservation Adviser

In the event of any development or planning consultation relating to this site or its surrounds please inform:
The LoGS Officer WGCG, c/o Keeper of Geology, Warwickshire Museum, Market Place, Warwick CV34 4SA (tel: 01926-418182)

WARWICKSHIRE GEOLOGICAL CONSERVATION GROUP
LOCAL GEOLOGICAL SITE (LoGS)

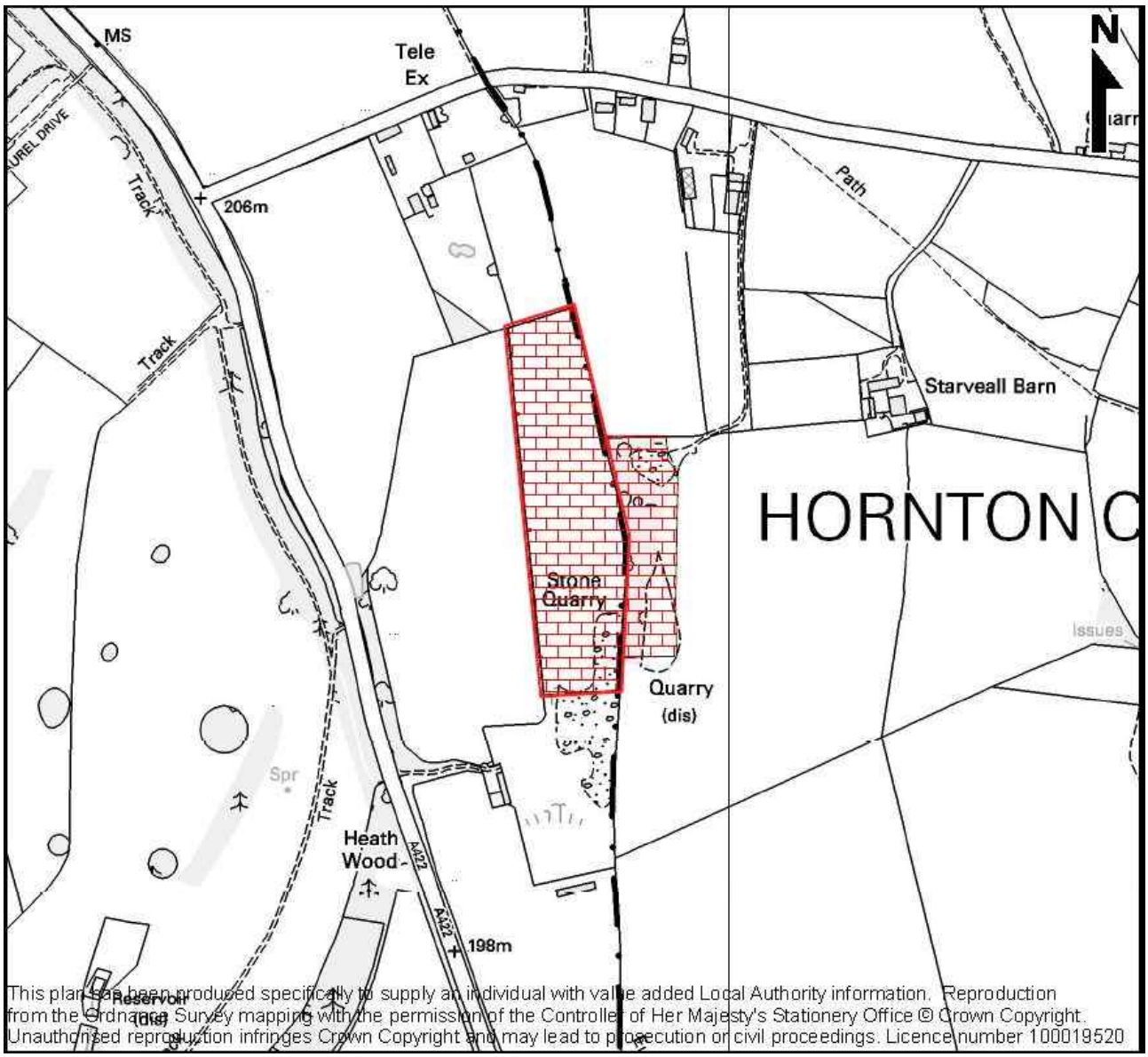
Site	59	A422 Quarry, Hornton
Parish		Ratley & Upton
District		Stratford-on-Avon
County		Warwickshire
National Grid Reference		SP 3785 4535
Ordnance Survey Sheets 1:50000 **1:10000**		151 SP 34 NE

Location

The quarry is reached via a narrow track off the E. side of the A422, 650m S. of the Hornton road or via the public footpath which leaves the Upton House to Horley road at SP 3773 4580.

Summary of Interest

An active quarry within the Lower Jurassic Marlstone Rock Formation. The stone at this site is an oolitic ironstone, locally displaying its fresh blue-green colour caused by the iron mineral berthierine. This site should be compared with the Edge Hill Quarries where the rocks have been more extensively oxidised to a rich rusty -brown colour. The stone is commonly known as Hornton Stone after the nearby Oxfordshire village. Numerous fossils are found, notably brachiopods, bivalves and belemnites. Additional interest has been provided by occasional exposures of pebble bed at the base of the Marlstone, underlain by shelly clays and limestones at the top of the Dyrham Formation.



Link to Resurveyed LoGS document
http://lgs.wgcg.co.uk/LoGS59-Resurvey.pdf