

Warwickshire Geological Conservation Group

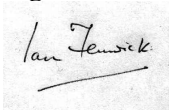
Warwickshire Local Geological Site	
Site No: 10	Jee's Quarry
Geological Formations	Hartshill Sandstone Formation (Cambrian) Purley Shale Formation (Cambrian)
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Local Geological Sites (LGS), designated by locally developed criteria, are currently the most important places for geology and geomorphology outside statutorily protected land such as Sites of Special Scientific Interest (SSSI). The designation of LGS 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 LGS in Warwickshire and the West Midlands.

Please note that designation of a site as a LGS 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: Jee's Quarry		Also known as:	
District: North Warwickshire		County: Warwickshire	
Grid reference: SP333 940		LGS Number: 10	ESCC Class: ED
Brief Description: A very large roadstone quarry situated on the west side of the B4111 some 3.5kms north west of Nuneaton. Five members of the Hartshill Sandstone Formation are represented. These are the Park Hill, Tuttle Hill, Jee's, Home Farm and Woodlands members.			
This site qualifies as a Local Geological Site for the following criteria:			
A Good Example of the complete Hartshill Sandstone Formation.			
Educational Fieldwork			
1. Educational Potential	✓	2. Physical access	✓
		3. Safety	✓
Scientific Study			
1. Diversity of interest	✓	2. Rarity of interest	✓
		3. Size of feature	✓
4. Typicalness of feature	✓	5. Geological/physiographic linkage to: <i>Oldbury Quarry (9), Judkins Quarry (12), Midland Quarry (13), Woodlands Quarry SSSI & Boon's Quarry SSSI</i>	
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  I M Fenwick, Chairman, Warwickshire Geological Conservation Group		Date first selected February 1992	
		Reviewed by LoGS panel Oct. 2009	
		Further survey required	
		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 (LGS)**

Site	10	Jee's Quarry
Parish	Hartshill	
District	North Warwickshire	
County	Warwickshire	
National Grid Reference	SP 333 940	
Ordnance Survey Sheets 1:50000	140	
1:10000	SP 39 SW	

Location
A very large roadstone quarry situated on the west side of the B4111 some 3.5km north west of Nuneaton.

Summary of Interest
<p>Five members of the Hartshill Sandstone Formation are represented in extensive exposures on all faces of the quarry. These are the Park Hill, Tuttle Hill, Jee's, Home Farm and Woodlands members. Numerous trace fossils have been found in these rocks that are beneath undisputed Tommotian shelly fossils. Collectively, these provide some of the oldest Cambrian fossils to have been found in Europe. The overlying Purley Shale Formation of the Stockingford Shale Group is also exposed which yields Middle Cambrian trilobite fossils.</p> <p>The succession, which dips at 30-35° to the south-west, has been disturbed by minor faulting and has been intruded by a series of spessartite sills which are often transgressive and occasionally incorporate rafts of sediment.</p> <p>Woodlands Member: Grey to maroon, medium-grained glauconitic and micaceous sandstones. Faint cross-bedding but commonly appear massive and thick-bedded. Rare mudstone drapes.</p> <p>Home Farm Member: Basal quartzose conglomerate and calcareous sandstone overlain by maroon sandy limestones with siltstone layers, hardground surfaces and stromatolites. Shelly faunas locally abundant.</p> <p>Jee's Member: Sandstone, red to maroon fine-grained, feldspathic and glauconitic, in gently-tapering beds with bimodal tabular-planar and trough cross-bedding. Interbedded with red and green colour-variegated siltstone and mudstone.</p> <p>Tuttle Hill Member: Pink to maroon, medium- to fine-grained glauconitic sandstone. Subordinate mudstone beds and near-ubiquitous mudstone drapes. Tabular-planar and compound cross-bedding common.</p> <p>Park Hill Member: Grey medium-grained sandstone with thin breccia layers in basal 17m: main part in beds 0.2-0.8m thick showing herringbone cross-bedding. Very rare mudstone beds or drapes.</p>

Features:

SE face from SP 33559390 to SP33659377 and to SP33409360

Five members of the Hartshill Sandstone Formation (Park Hill, Tuttle Hill, Jee's and Woodland) are represented here as well as the base of the Purley Shale Formation and several spessartite lamprophyre sills of the Midlands Minor Intrusive Suite.

SW face from SP33129396 to SP33209390

The face is mainly the Tuttle Hill Member with largely inaccessible sections within the younger strata above. These might include exposures within the Home Farm member which includes unusual limestones that have yielded primitive shelly fauna.

Face at SP3301594081

Strike section within well-bedded maroon sandstones of the Tuttle Hill Member. Numerous fallen blocks displaying a variety of sedimentary structures including clay partings and intensely burrowed surfaces.

NW face from SP32939420 to SP32969427

Display of bedding planes, dip sections, jointing and the effects of quarrying on strike faces in the Tuttle Hill Member

Face at SP32989429

Bedding planes within the sub-quartzitic Park Hill Member; the oldest unit represented at Jee's Quarry. A variety of sedimentary structures can be seen including ripples and simple burrows.

This site is of great educational value for all levels from GCSE to degree. It is also important for higher level research.



LGS10 Jee's Quarry from SP3315393918 facing N



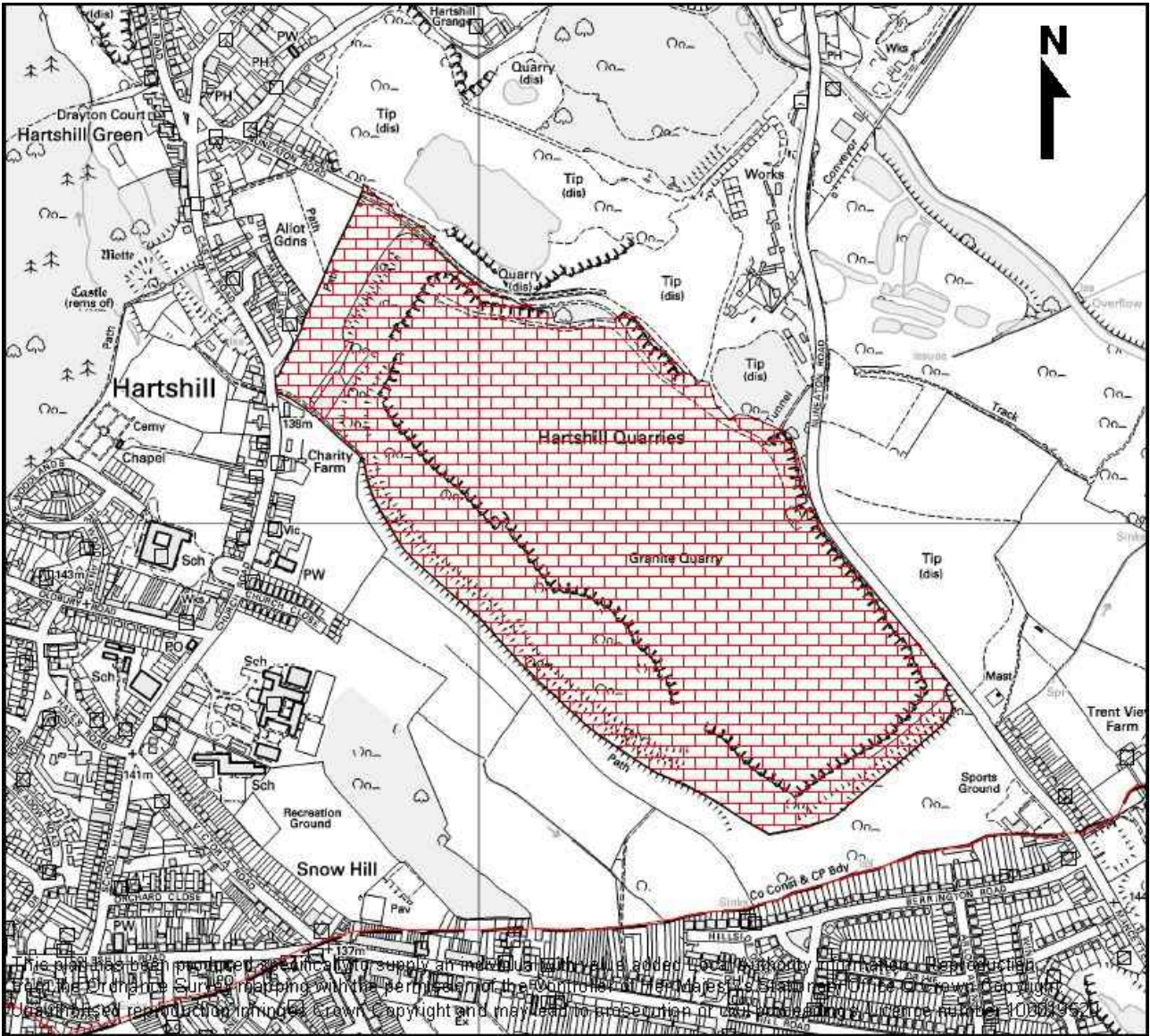
LGS10 Jee's Quarry from SP3295194240 facing W



LGS10 Jee's Quarry from SP3319593866 facing S 30 degrees E



LGS10 Jee's Quarry from SP3311194285 facing S



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