Warwickshire Geological Conservation Group

Warwickshire Local Geological Site		
Site No: 12	Judkins Quarry	
Geological Formations	Volcaniclastic and intrusive rocks (pre-Cambrian) Hartshill Sandstone Formation (Cambrian) Minor Midlands Intrusive Suite Formation (Ordovician) Tarporley Siltsone Formation (Triassic)	
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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: Judkins Quarry	**Also known as:** Tuttle Hill		
District: Nuneaton	**County:** Warwickshire		
Grid reference: SP343 932	**LoGS Number:** 12	**ESCC Class:**	ED

Brief Description: A very large former roadstone quarry on the north east side of the B4111 road from Nuneaton to Atherstone. This site exposes in the northern part a variety of Precambrian volcaniclastic rocks of the Caldecote Volcanic Formation, overlain uncomformably by the Lower Cambrian Hartshill Sandstone Formation including basal conglomerates. These rocks are intruded by sills of a lamprophyric diorite (camptonite) of Ordovician age.

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

A Good Example of Precambrian Caldecote Volcanic 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: *Boon's Quarry SSSI, Jee's Quarry (10) & Midland Quarry (13)*			✓

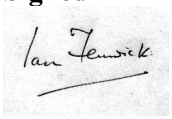
Historical Value

1. Celebrity link		2. Pioneering research: *Green et al (2001)*	✓	3. Historical link: *Jee family, Etone Priory. Hartshill Castle, Caldecote Church*	✓

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

J Radley, Keeper of Geology

Natural England

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	12	Judkins Quarry
Parish		
District		Nuneaton & Bedworth
County		Warwickshire
National Grid Reference		SP 343 932
Ordnance Survey Sheets 1:50000 **1:10000**		140 SP 39SW

Location

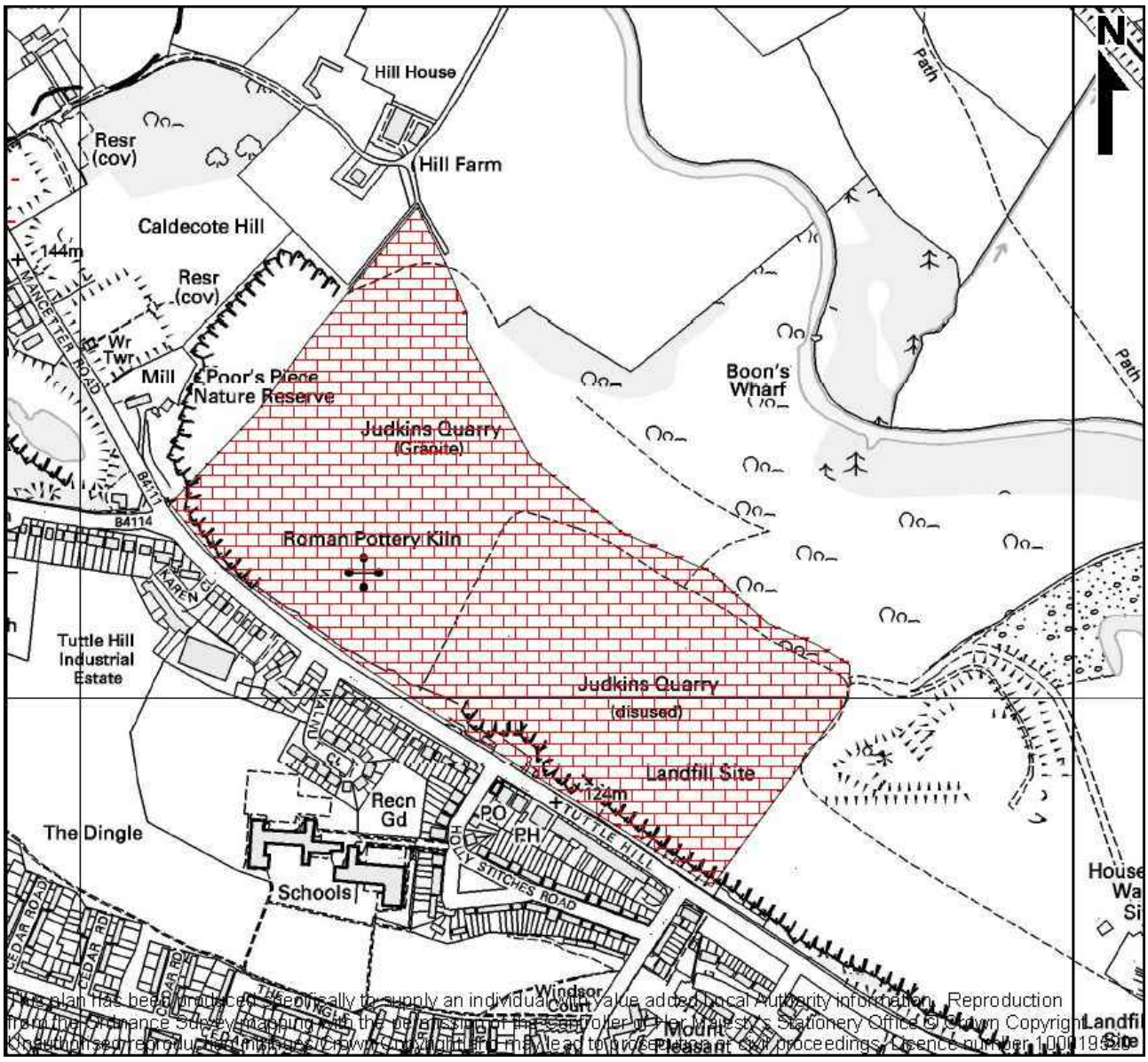
A very large former roadstone quarry on the north-east side of the B4111 road from Nuneaton to Atherstone

Summary of Interest

In the northern part of the site a variety of Precambrian volcaniclastic and intrusive rocks are exposed, overlain unconformably by the Lower Cambrian Hartshill Sandstone Formation including basal conglomerates. These rocks are intruded by sills of a lamprophyric diorite (camptonite) of Ordovician age.

On the eastern side of the quarry, Triassic sandstones of the basal Mercia Mudstone Group (Tarporley Siltsone Formation) with basal breccia lie unconformably on the Precambrian tuffs.

It is also famous for its epidote-calcite mineralisation with the vanadium and copper minerals mottramite and vanadinite, also barite, galena, sphalerite, and the copper minerals, malachite, azurite and bornite.



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