

Citation

County: Leicestershire

Site name: Cliffe Hill Quarry

District: Hinckley and Bosworth

Status: Site of Special Scientific Interest (SSSI) notified under Section 28 of the Wildlife and Countryside Act 1981

Local Planning Authority: Hinckley and Bosworth Borough Council

National grid reference: SK 475 105 **Area:** 37.9 (ha) 93.7 (ac)

Ordnance Survey sheet: 1:50,000:129 1:10,000: SK 41 SE

Date notified (Under 1949 Act): 1981

Date notified (under 1981 Act): 1990

Other information

This is a 'Geological Conservation Review' site.

Reasons for notification

This site provides excellent exposures of the contact between the southern-type diorite (markfieldite) and the volcanic and sedimentary rocks of the Precambrian Charnian Maplewell Series. The markfieldite shows signs of having been intruded by magne-stoping and is considered to be the plutonic expression of the igneous episode which produced the Charnian volcanic rocks. Recent geochemical studies have shown that both groups of rocks carry a similar geochemical signature being relatively depleted in elements such as niobium, titanium and zirconium. This is consistent with their generation in a volcanic island arc setting.

National Grid Reference: SK 475 105
Date Notified: 30 April 1990