
A8 D11 Hazel Lane Quarry

Site information

Site name: Hazel Lane Quarry

Site key: D11

Grid reference: [SE 500 110] (centred on)

Site type: active quarries and pits

Local authority: Doncaster Metropolitan Borough Council, South Yorkshire

Site dimensions: 500 m x 400 m x 15 m **Site owner:** Catplant Ltd

Conservation status: Regionally Important Geological Site **Date:** 1/9/97

Field surveyor: Scott Engering **Date:** 16/2/07

Stratigraphy and rock types

Time unit: Carboniferous, Westphalian **Rock type:** Shale and siltstone

Rock unit: Pennine Upper Coal Measures Formation, Pennine Coal Measures Group **Details:** Reddened laminated beds

Time unit: Permian **Rock unit:** Wetherby Member, Cadeby Formation, Zechstein Group

Rock type: Dolostone **Details:** Haematite stained cross bedded ooid-limestone with marls and micrites

Site map

(Figure 40) — D11 Hazel Lane Quarry

This map is based upon Ordnance Survey topographic material with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, © Crown copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence Number: 100017897 [2007]

Site description

A medium sized working quarry extracting limestone and now being used as a landfill site.

At the time of the RIGS survey in 1997, the site was notable for the excavation through the base of the Permian strata into the underlying Upper Coal Measures to produce an interesting exposure of reddened sandstone, siltstone and shale. Such exposures of Carboniferous strata are not often seen in the region. There are good examples of reddened shelly ooid-limestones (approximately 4 m) in the lower sections of many of the quarry faces, with well developed thin marls in places.

Good examples of strata in the Wetherby Member that are described in the Barnsley Memoir from small quarries and temporary exposures.

The quarry has extended considerably in the last 10 years. Landfill preparation is well under way and the exposure of Coal Measures strata will soon be covered.

RIGS assessment of site value

Ratings: 1–2 very poor; 3–4 poor; 5–6 acceptable/useful; 7–8 quite good; 9–10 very good/excellent; N/A not applicable; D/K don't know

Access and safety

Aspect/Description/Rating

Road access & parking In quarry car park. Rating: 5

Safety of access Working quarry. All current health and safety regulations apply N/A

Safety of exposure Working quarry. All current health and safety regulations apply N/A

Permission to visit privately owned working quarry N/A

Current condition Plenty of exposed faces but quarry is being progressively landfilled N/A

Current conflicting activities Working quarry and landfill

Restricting conditions Working quarry and landfill

Nature of exposure Quarry

Multiple exposures/Prospect for trail Not applicable

Notes Private owned quarry and landfill site

Culture, heritage & economic

Aspect/Description/Rating

Historic, archaeological & literary associations Not applicable. Rating: 0

Aesthetic landscape Not applicable. Rating: 0

History of earth sciences Not applicable. Rating: 0

Economic geology Working quarry producing aggregates and some building stone. Rating: 6

Notes

Education and science

Surface processes Not applicable. Rating: 0

Geomorphology Not applicable. Rating: 0

Sedimentary Good range of lithologies present. Exposure of reddened Pennine Upper Coal Measures Formation. Rating: 8

Fossils Not applicable. Rating: 0

(Figure 40) D11 Hazel Lane Quarry. This map is based upon Ordnance Survey topographic material with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, © Crown copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence Number: 100017897 [2007].



(Figure 41) General view to the south-west of landfill preparatory works. [SE 50063 11272].



(Figure 42) Tyres from Hampole Lime Works Quarry used as drainage layer. [SE 49950 11050].



(Figure 43) Exposure of sandstones and shales of Upper Coal Measures in quarry floor. [SE 50174 11154].



(Figure 44) Exposure of reddened limestones and red marl bands to north-east corner. [SE 49701 11567].