Site Name: Plasrhiwsaeson Quarry

RIGS Category: Scientific

Earth Science Category: Silurian (Llandovery) Stratigraphy Geology 1:50,000: BGS Sheet 150 Dinas Mawddwy

RIGS Statement of Interest:

This small quarry, about 30 m in length, provides a 10 m section through lower parts of the early Silurian Talerddig Grit and Shale Group. The section is below those seen in the Talerddig Cutting and Pont Bel Quarry RIGS (329 and 328, respectively) a few kilometres to the southeast. It shows unusually fresh and easily accessible coarse-grained, high-energy sandstones and fine-grained, low-energy mudstones, which have been exposed for the first time in this area. There are excellent examples of sandstone turbidites with sole marks (flute casts) that may be used by researchers to determine the flow direction of currents in this part of the Welsh Basin. Burrows made by seafloor organisms are also well-developed and give information about the oxygen content of the seawater.

The geology of this district was last investigated more than 50 years ago by Bassett (1955). As part of the Dinas Mawddwy 1:50,000 geological map, it will be remapped and investigated by the British Geological Survey in the next few years; revision and re-naming of the stratigraphic units used by Bassett can be expected. This RIGS provides an exposed section that requires conservation for future research.

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