

Site Name: Llyn Brianne Dam East **Grid Reference: SN 793484**

RIGS Category: Educational & Scientific

Earth Science Category: Silurian (Llandovery) Stratigraphy and Structural Geology

1:50,000 Geological: BGS Sheet 195, Lampeter

RIGS Statement of Interest:

This 200 m long cutting is beside the road spur that reaches the eastern flank of the Llyn Brianne dam. This is the type-section of the Cefn Isaf Formation, particularly well-exposed early Silurian sedimentary rocks that include unusually coarse grained (conglomeratic) layers and lenses, some carrying fossil shell debris, intercalated with finer sediments deposited as turbidites from density currents. Before consolidation, these sediments were distorted by slumping, faulting and expulsion of pore fluids, producing a variety of well-developed soft-sediment deformation structures. Later, the consolidated sedimentary rocks were cleaved and folded during the Caledonian (Acadian) events. These sedimentary features and the pre- and post-consolidation structures are so well preserved that they are described in the Geological Excursion guide for Powys. The RIGS is adjacent to a popular tourist site, so consideration will be given to producing an explanatory leaflet to increase public awareness of the geology here.

Surveyed by: W.R. Fitches