

## **SUPPORTING INFORMATION**

### **NRW WATER DISCHARGES PERMIT APPLICATION**

#### **LAND AT MAESTEG ROAD, TONDU**

#### **SURFACE AND SILT WATER MANAGEMENT MEASURES**

- The site was historically an open cast coal mine which was backfilled to its current level following cessation of mining activities. More recently the land has remained undeveloped and left as open grassland with small drainage ditches. The land is gently sloping from North to south with an existing ditch connecting to an open watercourse in the south west corner of the site.
- Llanmoor Development Co. Ltd has obtained Planning Permission to redevelop the site for residential housing. Area A, which is the subject of the permit application, will accommodate 300 dwellings and associated roads, drainage and POS areas.
- In order to prepare the site for the construction of dwellings, the site has undergone a phase of reclamation, involving cut and fill earthworks and re-engineering of the upper soil layers to provide a plateau suitable for reinforced concrete foundations. Walters UK Ltd were appointed by Llanmoor to undertake the reclamation works, which commenced in July 2021 and suspended in October 2021. The balance of the works in the southern part of the site will be undertaken in summer 2022 when weather conditions are favourable.
- Subsequently, and after Llanmoor had taken back control of the site from Walters for the winter period a more comprehensive surface and silt management plan was devised to address the issues raised by NRW.
- Llanmoor engaged with Frog Environmental Ltd, as specialists in the field of silt management to introduce flocculation products into the water management measures, to encourage the reduction of Total Suspended Solids at the outfall.
- The measures employed on site include Floc Blocks installed in short lengths of pipework separating storage lagoons and Floc Mats. These are in addition to extensive storage lagoons, lined channels, silt barriers and silt mats.
- The use of the Floc products was approved by a Desk Instruction issued by Hannah Goddard on 29<sup>th</sup> October 2021. The products were procured from Frog Environmental and installed on site during w/c 01<sup>st</sup> November 2021.
- Data sheets for the Floc products have been submitted with this permit application along with a plan showing the location of the products on site.