Biosolid storage scheme

We're delivering a long-term biosolid storage project across three wastewater sites.

stonbury

In **summary**

→ Our client needs safe storage for biosolids recovered from their sewage treatment works

→ We're constructing multiple covered cake bays across three sites

→ The new bays keep biosolids dry, preventing leaching and run-off

The **need**

Our client's previous bio-solid storage method was uncovered, allowing rainwater to contaminate the material, leaching nutrients and carrying pollutants into nearby watercourses.

The biosolid became unsuitable for reuse and needed safe disposal, negatively impacting local ecology. The client needed an improved solution to safely dry store up to 24,000 tonnes of biosolid waste across their three sites.

The **solution**

Our project involves the construction of 24-metre-by-12-metre process waste (cake) bays as per a client-supplied design. Once complete, there will be 20 on the first site, 12 on the second, and 10 on the third.

Topographical and drainage surveys were completed to confirm that guttering and drainage was working and positioned to ensure there was no chance of flooding and all cake bays remained dry.

In areas where existing concrete bases posed a risk of egress, the joint sealant was removed and replaced to maintain containment of waste materials and safeguard the local environment.

We constructed the cake bays using pre-case Legato blocks and prefabricated steel and membrane sheet roofs.

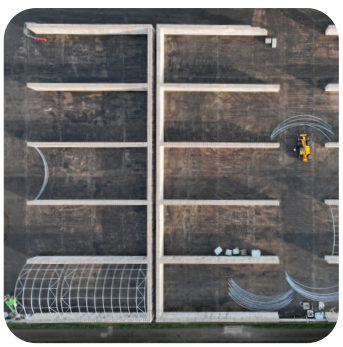
The **benefits**

- Keep biosolids dry and protected from rainwater contamination and leaching
- Ensure biosolids remain nutrient-rich and suitable for use as agricultural fertiliser
- Prevent biosolids requiring disposal to landfill
- Reduce disposal haulage and associated emissions
- Eliminate contaminant runoff into the local environment and nearby watercourses
- Protect the surrounding habitats and support the health of the local ecology
- Pre-manufactured components enable rapid project delivery with a low project carbon footprint

42
The number of biosolid storage bays built during the programme

24,000
The amount of biosolids, in tonnes, that the bays will hold









Create