



Revitalising Sports Grounds through Enhanced Drainage Solutions

Middlesbrough Sports Village



 **Client:** Everyone Active & Middlesbrough

 **Location:** Alan Peacock Way, Middlesbrough, TS4 3AE

 **Sector:** Sport, Leisure & Equestrian

 **Contractor:** Cleveland Land Services

Project Overview

At Middlesbrough Sports Village, a crucial remediation project addressed significant drainage challenges impacting the availability and usability of its sports pitches.

The project required an innovative approach to replace the failing drainage infrastructure, ensuring the pitches remained playable for local sports and community events.

Challenge

Persistent drainage issues emerged due to the original use of impermeable Type 1 stone and a seemingly ineffective drainage design, which included only a single perimeter drain and no identifiable lateral drains.

These factors led to frequent waterlogging and pitch unavailability, necessitating a comprehensive drainage upgrade.

Innovative Solutions:

In partnership with Cleveland Land Services, we delivered a superior drainage solution using EnkaDrain® to revamp the sports pitch's foundational drainage.

- ◆ **Full-Pitch Drainage System:** EnkaDrain® 5004F/5-2S/M110PP was installed across the complete pitch formation, providing efficient water drainage and eliminating surface flooding risks.
- ◆ **Quick Installation:** This solution reduced installation time by approximately one week compared to traditional methods focused on multiple lateral pipes.
- ◆ **Core Infrastructure Improvements:** The installation included a new perimeter drain and a second centreline collection pipe, facilitating improved water management and preventing recurring drainage issues.



Key Benefits Delivered:

Enhanced Pitch Usability:

The new drainage system ensures all-weather playability, crucial for continuous sports & community engagement.

Optimised Resource Use:

The geosynthetic solution streamlined materials and reduced the need for complex drainage systems, cutting installation time and costs and reducing environmental impact.

Long-Term Performance:

EnkaDrain®'s design prevents clogging and ensures sustainable drainage, significantly improving the pitch's durability and resilience to adverse weather conditions.

Impact

The successfully completed project highlights the transformative impact of innovative drainage solutions on sports facilities.

By adopting Geosynthetics EnkaDrain® design solution, Middlesbrough Sports Village improved pitch availability, supporting community use and securing the site's reputation as a leading venue for sporting events.

For more information on how Geosynthetics Ltd can support your drainage needs in sports or other applications, please contact our technical team for a consultation on your project requirements.

