



London 2012 Olympics



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Case Study

London 2012 Olympics - Greenwich Park



SEL were proud to build a temporary arena and cross country course for the London 2012 Olympics in Greenwich Park. The design remit for this prestige project was complex and very

demanding due to the temporary nature of the development, the unique constraints associated with the Royal Park's heritage and environmental setting, combined with exacting performance

requirements of the surfacing and construction tolerances to meet international equestrian eventing standards.



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Key Challenges

- No excavations were allowed whatsoever due to archaeological sensitivity.
- Existing ground levels varied significantly with gradients up to 6% in areas of the proposed arenas and training areas, whereas international standards required maximum gradients of 1% for equestrian performance areas.
- Numerous protected trees exist in and around proposed performance areas that required suitable root protection provision.



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Key Challenges

- The water management system had to comply with current best practice source control SUDS guidance.
- The performance surfaces had to manage a 100 year storm event with zero discharge to existing sewers.
- Water supply for irrigation of the performance surfaces was limited.
- Truck cycles kept to a minimum to avoid congestion and minimize environmental impact.



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Key Challenges

- Construction period - 11 weeks
- Platform Areas (Steel/timber) - 12,200 m²
- Uphilled Platforms - 18,000 m²
- Lightweight upfill - 6500 m³
- Modular attenuation (additional to fill) - 3600 m³
- Rainwater Harvesting - 100 m³
- Equestrian Surfacing - 12,000 tonnes
- Reduction in number of 20t truck loads - 700, Based on equivalent volumes of gravel vs Permavoid lightweight fill 250,00 units
- Deconstruction period - 7 weeks





Canal House, Bonsall Street, Blackburn, BB2 4DD
T: 01254 589987 E: info@selenvironmental.com W: www.selel.co.uk