

---

## White Oak Centre Swanley, Kent

---



**Overall Client :**  
Sevenoaks District Council

**Main Contractor ( Design & Build ) :**  
Whitewater Leisure Ltd

**MSJ commission :**  
3D Slide Path Geometry  
Slide Support Structure  
Foundations

### Water Slide Details

**Slide A : 57 m long 0.8m dia speed slide**

**Slide B : 95 m long 1.4m dia tube**

**Slide C : 120 m long 2.2m wide  
continuous tube ride with  
acrylic canopies**



**The compact nature of the site presented a challenge in both physically fitting in the grp slides and detailing the supports around them.**

**The overall project included a new access tower and splash pool building as an extension to the existing leisure centre.**

Melia Smith & Jones have provided Structural Engineering Services to many of the world's major Water Slide Manufacturers on a large number of projects throughout the UK, Europe and the rest of the world.

Extensive use is made of computer aided design and drawing to generate and manipulate complex 3D slide paths and structures. MSJ have developed computer programs in-house, interfaced with their CADD system, to ensure speed and accuracy in carrying out these tasks.

A 3D computer model is created both for visualisation and clash detection.

Rendered perspective views can be created at proposal stage to enable the Client to fully visualise the impact of the development on the site.

Final design with detailed drawings ensures that site construction consists of assembling a kit of pre-fabricated and pre-drilled components.

---

Vinery Court  
58 Cardigan Lane  
Leeds  
LS4 2LD

**Melia Smith & Jones**  
Consulting Civil & Structural Engineers

Tel : 0113 230 6080  
Fax : 0113 220 8900  
E-mail : [admin@msj.co.uk](mailto:admin@msj.co.uk)  
Web site : [www.msj.co.uk](http://www.msj.co.uk)