

FRB Phase VII-B Composite Liner System Construction Management Services Orange, California

Owner:
County of Orange

Clients:
OC Waste & Recycling
and AES

Client Contacts:
Norm Watsek
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Key Personnel:
Paul Buckley, P.E.

Management Cost:
\$150,000

Construction Cost:
\$12.8M

Completion Date:
September 2005

Simplus provided construction management services as a subconsultant to Advanced Earth Sciences for the \$12.8M Composite Liner Expansion Project at Frank R. Bowerman Landfill for OCWR in Orange County.

Construction management services included managing and coordinating the efforts of a general contractor, numerous subcontractors, OCWR staff, regulatory agencies, design consultants, CQA consultants, the adjacent landowner and adjacent construction contractors.

The project involved the mass excavation of over 2.8 million cubic yards of material, placement of LCRS gravel and low permeable clay material, construction of an engineered buttress fill, installation of over 495,000 s.f. of geotextile and geomembrane liner materials, installation of subdrains, leachate and condensate collection system, drainage facilities and erosion control devices.



- On-Site Earthwork Excavation – 2,800,000 c.y.
- LCRS Gravel – 52,000 c.y.
- Low Perm Clay Processing – 60,000 c.y.
- Stabilization Fill – 195,000 c.y.
- 80 Mil HDPE Geomembrane – 495,000 s.f.
- Geosynthetic Clay Liner – 495,000 s.f.
- 12 & 8 oz. Geotextile – 1,400,000 s.f.
- LCRS Headers & Laterals – 4,470 l.f.
- CMB Over 8 oz. Geotextile Graded Bench Roads – 64,000 l.f.

Simplus