

Concrete Repair at Community Center

The George Sim Community Center, owned by the City of Sacramento, is a place for neighborhood residents to gather. The 36,000-sq ft center is a popular venue and its extensive use had led to wear. As a result, the city chose to renovate a couple of rooms including the gym and the multi-purpose room.

The city hired job foreman, Brown Construction, floor covering installers, to remove the existing flooring system and install a new one. TRU Self-Leveling (CTS Cement Manufacturing Corporation, www.ctscement.com) was selected for its speed and proven performance. For this project TRU was mixed with water and carboxylated Koester Styrene Butadiene (SB). The addition of Koester SB was needed because the product helps to bond silicate contaminated slabs.

After the mixture of TRU and Koester SB was applied to the floor, the team waited 24 hours before covering the concrete with Koester VAP 2000, a moisture vapor emissions control coating. After this was complete, the team applied the new tile floor. The process sped up the project, ensuring that it was on time and on budget. TRU Self-Leveling was hours faster than alternate methods.

Although the project began on July 7 and took seven to ten working days, the work with TRU only took a couple of hours. The result for the owner is a quality floor that will be used by the community as a multi-purpose room. The solution is a permanent repair for the city.

Solid Waste

Aerobic Landfill Remediation

The Shijingshan District, located on the west side of Beijing City, has retained Tsinghua Unisplendour Taihetong EnviroTech Ltd. (THUNIST), an adjunct of Tsinghua University, as the general engineering contractor to design and construct the first aerobic bioreactor landfill remedia-

tion system in China. This project is located at the closed 40-acre Heishitou Landfill. Under a three-year contract with THUNIST, SCS Engineers (SCS, www.scsengineers.com) has been retained to provide engineering support and technical assistance for various phases of this project, including support in the procurement and installation of U.S.-sourced equipment, installation of an aerobic bioreactor remediation system, system construction/operation oversight, and interpretation of monitoring data. SCS also supported the team during the commissioning and startup of the system, which took place in mid-October to early November 2009. SCS is currently collaborating with THUNIST during the initial operation and monitoring phases.

The key to the remediation system's effectiveness is the control of basic environmental parameters in the landfill's waste mass to maintain favorable condi-

tions for aerobic decomposition. Aerobic conditions are balanced by adjusting the flow of introduced and/or recycled liquids and air that are injected into the waste mass to keep the waste moisturized and aerated, and to keep landfill gases (CO₂, CH₄, and O₂) and waste mass temperatures within desired ranges. The goal of this project is to operate the remediation system to reduce the production of methane, degrade much of the waste's organic matter faster than can be achieved via anaerobic decomposition (common to most landfills), and stabilize the landfill to the point whereby redevelopment can occur on a more stable foundation. Earlier aerobic remediation systems in the U.S., Asia, and Europe have effectively reduced risks posed by traditional landfills, decreased greenhouse gas emissions, and added a sustainable waste management element to a municipality's environmental protection program. **GE**

Insist on the best.



Hire an SR/WA Designated Professional.

Knowledgeable in all aspects of project implementation.

Delivered with uncompromising professionalism.

IRWA

INTERNATIONAL RIGHT OF WAY ASSOCIATION

Learn. Lead. Advance.

Learn more. www.irwa-govengr.com

info at www.govengr.com/irwa or circle 3004