

## Basin Closure

### GEORGIA POWER PLANT KRAFT

Port Wentworth, Georgia

Georgia Power Company determined that the Boiler Cleaning Waste Basin (BCWB) located at Plant Kraft was no longer needed for boiler maintenance activities. SBX had successfully completed basin closures or liner replacements at three other power plant facilities and was selected to perform the work at Plant Kraft. The project involved three major phases: (1) dewatering, (2) excavation and removal of sediment, and (3) backfilling. SBX constructed a temporary water treatment system on site to handle the initial dewatering of the pond and the subsequent rain events that occurred throughout the three month project. A 500,000 gallon temporary tank was constructed for storage and settling prior to discharge. Water was adjusted for pH prior to being filtered through sand and sock filtration units prior to discharge. A total of nearly 800,000 gallons of water was treated and discharged in accordance with the facility's NPDES permit.



An 80,000 pound excavator was used to windrow sediments to one side of the basin for gravity dewatering. An off-road dump truck transported the sediment to the central load out area on the west end of the basin. For those materials not meeting the moisture content requirement for the waste disposal facility, SBX used a Super Absorbent Polymer (SAP) to condition sediments, making them suitable for transport. Approximately 39 tons of SAP were utilized during the project. The basin contained over 8,300 tons of sediment that were excavated, moisture conditioned, loaded, transported and disposed at the licensed disposal facility. The floor of the basin was sampled to verify that all sediment materials had been removed.

The final phase of the project involved the backfilling of the basin. Over 2000 truckloads of fill dirt and topsoil were imported to fill the former basin. Soil containment berms were constructed for the secondary containment area for an adjacent above storage tank facility. Other tasks for this project included the demolition of the lime storage silo and mixing pond formerly used for water pH adjustment and the re-circulating pump used for basin mixing. The project was completed on schedule and within budget without any safety issues (zero accidents and zero near-misses).

