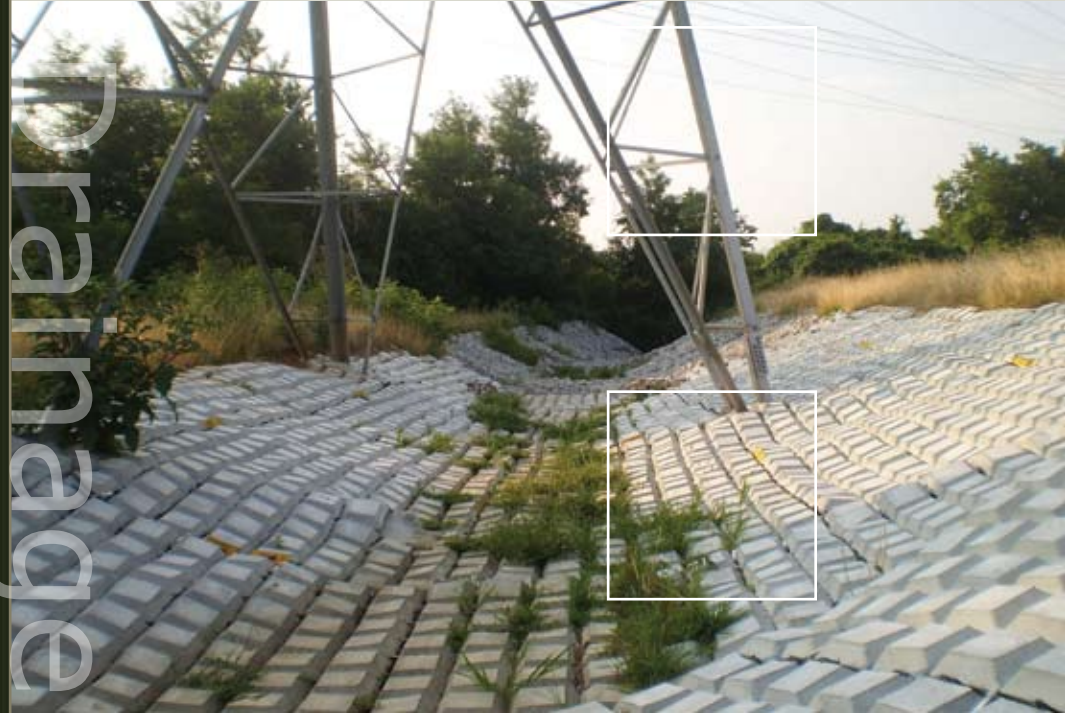




Drainage Stabilization

Louisville Gas & Electric • Lexington, Kentucky

Drainage



Stabilization



Synergy With Nature™



Drainage Stabilization

Application: Stabilization of power plant drainage and tower footings

Owner: Louisville Gas and Electric

General Contractor: Submar

Partners:

Location: Lexington, Kentucky

Materials: 28 mats plus riprap and rock check dams to stabilize 150' of drainage ditch

When Submar surveyed the Louisville Gas and Electric (LG&E) site, problems were found that would only get worse if mitigation procedures weren't performed. These problems included an exposed LG&E gas pipeline and eventual exposure and possible failure of electrical tower footings both conditions due to extensive erosion of a drainage ditch. A second head cut was already at a 5 foot depth and the stream banks were overgrown with Asian Honeysuckle, a plant with heavy crown and small root system that had destabilized the banks causing erosion along the entire length of the ditch. To accomplish both tasks at hand, stabilizing the ditch and providing protection for the pipeline, Submar needed to coordinate with both LG&E Gas and Electrical departments as well as the Lexington city storm water department. To prevent rushing water from undermining the mats it was necessary for Submar to attach them to the existing large storm sewer outfall and also around the electrical tower support legs. All tasks were performed as planned and the area

is presently reverting back to a natural look.



805 Dunn Street
Houma, Louisiana 70360
985.868.0001
FAX 985.851.0108
EMAIL: submar@submar.com
www.submar.com