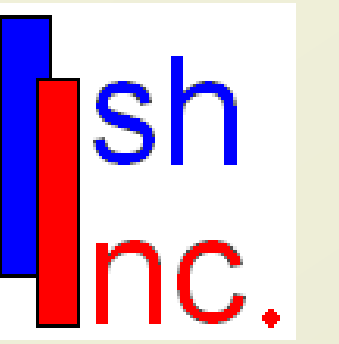


Investigation and Remediation of the Green River Former Greenfield MGP Site, MA



Introduction

The former Greenfield manufactured gas plant operated from 1860 to 1958 and generated gas from coal and then oil. MGP-derived tars were found in the subsurface and in the Green River sediments adjacent to the site. Ish Inc., with META Environmental, KHES, LLC, Lightship Engineering, and Key Environmental designed and implemented a plan to remove tar-contaminated sediments from the Green River and restore the river and riverbank.



Porta-dam

Flow of the green river was diverted around the excavation area using a porta-dam. Installation of the Porta-dam was hindered by the boney river bottom and the Porta-dam sheeting was keyed into the sediment by divers.



De-watering

The excavation area was dewatered over a period of several days.



Excavation

Sediment was excavated in the dry using backhoes.



NAPL

NAPL was recovered by pumping and additional excavation.



Management

All phases of the work were managed by senior staff



Restoration

River bottom and shoreline were restored with clean soil and the Porta-dam removed



Investigation

The Green River sediment and till contour were characterized by core sampling.

