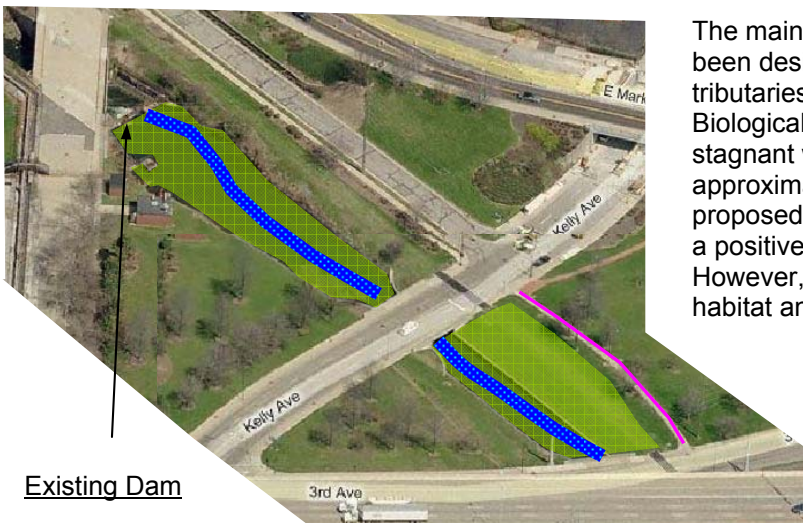


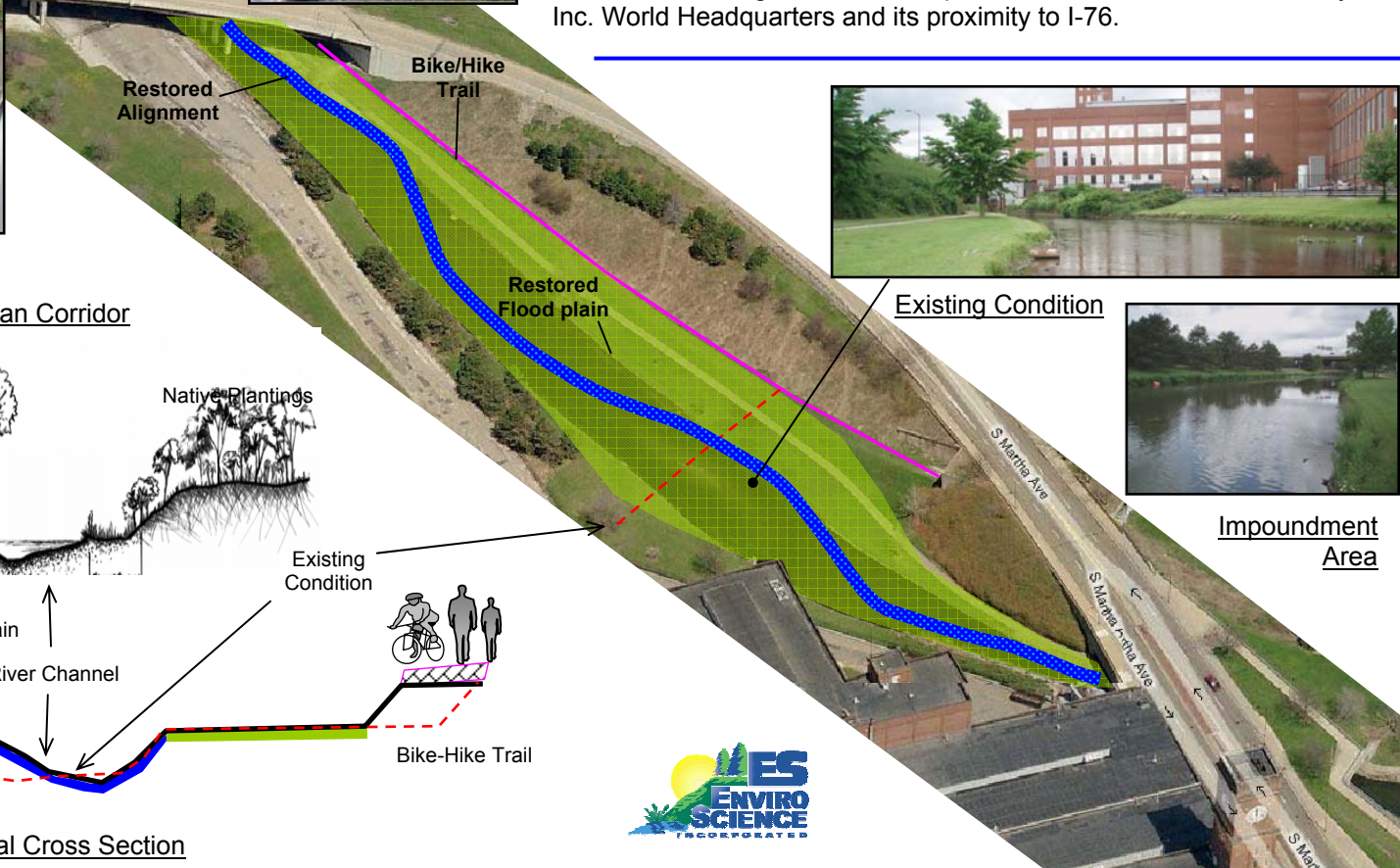
Little Cuyahoga River Restoration Project- Kelly Ave Dam / Impoundment Area



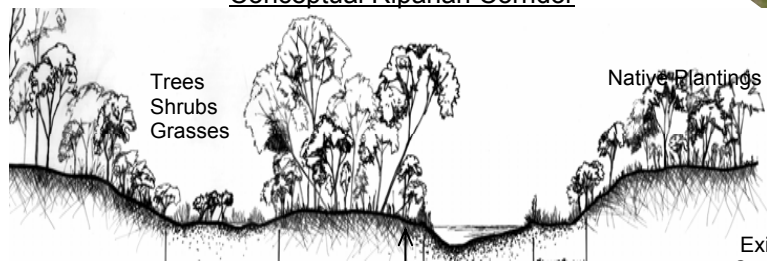
The main stem of the Cuyahoga River has a rich iconic history in Northeast Ohio and recently, the river has been designated as “clean” and recovered. However, dams are still located along the River as well as on its tributaries. Dams, once a necessity along many rivers, are no longer used for their original purpose. Biological evaluations of the Ohio EPA have often shown substantial impairments due to their creation of stagnant water and sedimentation. The Kelly Ave dam creates a significant impoundment area for approximately 2,100 ft and affects normal and 100 yr water elevation upstream of Martha Ave. The proposed project will lower the dam approximately five feet across its entire width. The lowering will restore a positive gradient through the reach to minimize stagnant water and increase sediment transport potential. However, since the dam has been in place for many decades sediment has accumulated creating sparse habitat and embedding larger substrates. The fish and macroinvertebrate biology reflect the impairment.



In 2008, the reach was sampled according to Ohio EPA protocols and yielded an IBI score of 20 and ICI of 20. Furthermore, the QHEI of 52 and morphology of the reach indicate major impairments to functional habitat and stream channel morphology. Therefore, coupled with the lowering of the dam, a stream restoration approach is aimed at reducing channel size, creating a sinuous pattern for stream bed and habitat diversity and restoring a woody riparian corridor. The project will provide a highly visible demonstration of good stewardship from its location within the Goodyear Inc. World Headquarters and its proximity to I-76.



Conceptual Riparian Corridor



Flood plain
River Channel

Existing Condition



Bike-Hike Trail

Conceptual Cross Section

