



Case Study 19

Whiting Alkaline Fen Case Study	
Name and Location	<p>Site Name: Whiting alkaline fen</p> <p>Site Location: Whiting, IN</p>
Ecological Enhancement	A brown space was converted to an alkaline fen wetland area.
Site Description	The Whiting Refinery in Whiting, IN is an operating refinery owned by BP. It has been in operation since 1890. The alkaline fen wetland was planted near the J&L outfall. Alkaline fens are rare, making this site quite interesting. 22 facultative and obligate wetland species were planted in 2000 to deal with impacted groundwater and surface water. Contaminants of concern include phenols and alkalinity. The depth of impact is 1-10 feet.
Site Reuse Description	This area is of interest to the local government bodies as a potential recreational reuse.
Stakeholder Involvement	<p>Stakeholders include BP, IN Department of Natural Resources, community of Hammond and local government.</p> <p>This project was funded by BP.</p>
Site Assessment Approach and Cleanup	<p>The soils in this area are impacted by TPH down to a depth of 1-10 feet.</p> <p>22 facultative and obligate wetland species were planted in 2000 to provide surface and groundwater remediation.</p> <p>Annual plant maintenance and monitoring continues.</p> <p>This project works under the authority of US ACE and EPA.</p>
Reuse	Ultimately, this land may be given back to the community for recreational reuse.
Obstacles	Infiltration by invasive weed species.
Costs and Funding	Project funded by BP. \$15,000 for installation, \$5,000 per year plant maintenance, \$5,000 per year monitoring.
Economic and Other Incentives	
Time	
Other	Difficulties with phragmites invasion.



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**Contact
Information**

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