



## Case Study 9

<b>Cleveland Case Study</b>	
<b>Name and Location</b>	<p><b>Site Name:</b> Cleveland</p> <p><b>Site Location:</b> Cleveland, OH</p>
<b>Ecological Enhancement</b>	Dense prairie plantings.
<b>Site Description</b>	Prairie plantings were used at a former retail (UST) site in Cleveland, OH.
<b>Site Reuse Description</b>	Redeveloped into a commercial strip mall
<b>Stakeholder Involvement</b>	BP, current site occupants, commercial real estate owner (site owner)
<b>Site Assessment Approach and Cleanup</b>	<p>This cleanup is being performed under the authority of Ohio EPA BUSTR.</p> <p>Former retail site redeveloped (USTs removed, tank pit excavated and backfilled. Residual hydrocarbon impacted soils and dissolved GW plume remained after initial site decommissioning. Phyto was selected due to suitable site conditions for the technology, limited area, and aesthetics compared to physical/mechanical treatment systems.</p>
<b>Reuse</b>	Redeveloped as a strip mall.
<b>Obstacles</b>	The dense prairie plantings were not maintained properly to ensure the necessary aesthetic development (too infrequent of site visits, maintenance, no scheduled irrigation, pruning, etc). Resulted in adverse public perception (not related to effectiveness).
<b>Costs and Funding</b>	Less costly than the previous alternative of groundwater interceptor trench combined with sparging.
<b>Economic and Other Incentives</b>	Phyto was a more cost-effective solution with less disruption of operations of the strip mall. This was an innovative approach; it was green and sustainable.
<b>Time</b>	Not completed.
<b>Other</b>	This is a failure case study. The prairie plantings were not properly maintained to ensure aesthetic development. Due to the public nature of the area, the unkempt appearance of the prairie plantings garnered complaints. Theft of certain species was also an issue (lack of security). A different remediation remedy was required.
<b>Contact</b>	Dr. David T. Tsao, (630) 420-4321.



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