



Case Study 7

Joliet Case Study	
Name and Location	<p>Site Name: Joliet, IL</p> <p>Site Location: Joliet, IL</p>
Ecological Enhancement	Vegetative cover of deep-rooted prairie grasses and flowers.
Site Description	The Joliet Chemicals facility is an operating plant owned by BP. The landfill leachate needs to be managed. Precipitation falling onto the landfill would run-off or infiltrate into the landfill creating leachate that potentially migrated downgradient towards the Kankakee River
Site Reuse Description	This site is part of an operating facility. The landfill itself is closed. A vegetative cover of deep-rooted prairie grasses and flowers was planted in 2001 to manage landfill leachate. It will continue to exist as a landfill.
Stakeholder Involvement	Stakeholders include BP and Illinois EPA. This project was funded by BP.
Site Assessment Approach and Cleanup	This site is under the authority of RCRA. The site is undergoing recontouring to further promote run-off versus infiltration. Revegetation was also planned. Reselected vegetation to maximize rain interception (and subsequent evaporation) to reduce run-off and infiltration. Deep-rooted prairie species were selected due to their substantial rain interception capacities and high ET rates. Standard operation, maintenance, and monitoring of the landfill. Annual mowing plus irrigation/fertilization as needed.
Reuse	Site will continue as a closed landfill; no further developments planned. Native prairie restoration and ecological services created through plant re-selection.
Obstacles	
Costs and Funding	
Economic and Other Incentives	Reduced infiltration = reduce leachate production = reduced leachate management (currently extracted through a downgradient interceptor trench and pumped to the WWTP)
Time	Planting was completed after reconstruction of the landfill cover (within 1 year).
Other	List any other information that may be of value for this case study. This can be used to insert a “lessons learned” section, or highlight other information of interest. Also, you may add additional sections as needed, if additional information does not fit in the categories above.



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**Contact
Information**

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