

Projects highlighted in green were updated on 5/15/16 with feedback from practitioners meeting.

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1	Beach Park	Bull Creek Restoration Lake Michigan	Bull Creek	Ravine	streambank stabilization	streambed restoration	1800 lf	Using bioengineering practices, the project will stabilize the stream bed and bank erosion along a 1,800ft stretch of Bull Creek. This project will be conducted in 3 to 4 locations totaling about 565 linear ft within the project reach.	2015	2015	SMC	\$171,000			SMC
2	Beach Park	Bull Creek South Branch Restoration and Flood Minimization	Bull Creek	Ravine	streambank stabilization	flood control		Removal of invasive vegetation, removal of key obstructions, and installation of streambank stabilization measures for a 4200 foot stretch of the South Branch of Bull Creek. G14-05-009.	2014	not known	SMC WMB	\$30,000			SMC
3	Beach Park	Bull Creek Streambank Restoration Project for Beach Park	Bull Creek	Ravine	streambank stabilization	streambed restoration		Project consisted of clearing stream of debris and vegetation	2007	not known	SMC WMB	\$19,000			SMC
4	Fort Sheridan	Openlands Lakefront Preserve	Bartlett Van Horne Schenck	Ravine	re-vegetation	reduce stormwater inputs	77 acres	Establish 100 foot buffer along edge of ravine and bluff systems. Remove invasive trees and shrubbery. Reintroduce fire and native plantings with a plan for sustainable recreation access.	2008	on-going	Victoria Foundation	\$4,000,000		1	Openlands
5	Fort Sheridan	Hutchinson Ravine	Hutchinson	Ravine	streambank stabilization	reduce stormwater inputs		This project followed up to _103 and removed remaining portion of urbanized flows from the			LCFPD Land Development Funds			1	LCFPD

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6	Fort Sheridan	Janes Ravine Restoration (see also _ 102)	Janes	Ravine	slope stabilization	reduce stormwater inputs		<p>The project removed stormwater flows from the ravine by re-routing them through a series of upland vegetated swales and ponds. Re-routing runoff drainage from areas west of Janes Ravine away from the ravine and across the uplands via vegetated swales to an existing pond and then into Lake Michigan.</p> <ul style="list-style-type: none"> • Stabilize ravines by a combination of BMP techniques such as filling in erosion cuts to stabilize toes of slope; stabilize moderate and severe side slope erosion gullies using large anchored logs. These structures are made from large cut tree logs that are anchored into the side slopes and/or stream channel to stabilize eroding areas. Fill is placed behind these anchored logs then covered with special erosion control fabric matting followed by planting native species. • Protect eroding ravine side slopes using deflection structures i.e. riffles • Grade ravine bottoms in selected location to direct flow into historic channel to stabilize eroded areas 			USACE Section 104 Estuary Habitat Restoration Program					USACE
7	Fort Sheridan	Fort Sheridan Ravine and Coastal Restoration	New Ravine	Ravine	streambed stabilization	outfall		Part of a joint Ft Sheridan project to restore 200 acres of beach, dune, ravine and bluff habitat along 2 mile reach of Lake MI shoreline; provide significant littoral zone habitat for fishes within 25 mile area.			GLFER				USACE	

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8	Fort Sheridan	Fort Sheridan Ravine and Coastal Restoration	Schenck Ravine (Ft Sheridan)	Ravine	streambed stabilization			Part of a joint Ft Sheridan project to restore 200 acres of beach, dune, ravine and bluff habitat along 2 mile reach of Lake MI shoreline; provide significant littoral zone habitat for fishes within 25 mile area. The implementation methods for the stream within this ravine are a combination of riffles and limestone cascades. The ravine plant community is being restored as well. All non-native and invasive tree, shrub and herbaceous will be removed. A robust native planting and establishment plan will be implemented over the next 5 years.	2016		GLFER				USACE
9	Fort Sheridan	Fort Sheridan Ravine and Coastal Restoration	Scott Ravine	Ravine	streambed stabilization	outfall		Part of a joint Ft Sheridan project to restore 200 acres of beach, dune, ravine and bluff habitat along 2 mile reach of Lake MI shoreline; provide significant littoral zone habitat for fishes within 25 mile area.	2016		GLFER				USACE
10	Glencoe	Glencoe Ravine and Beach	Glencoe Ravine	Ravine	streambed restoration	re-vegetation		see report	2003		Great Lakes Commission			see study	Shabica

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11	Highland Park	Ravine 10	Ravine 10L	Ravine	streambank stabilization	streambed restoration	900 lf	In 1992-93, as a demonstration project for the Great Lakes Commission, four types of erosion control structures were placed in the upstream section of a Ravine 10 channel by the city of Highland Park. Each type of structure was emplaced for a short distance along the channel. Intervening sections of the ravine received no protective structures. A list and description of the structures installed is given by Shabica 1996, http://www.glc.org/basin/pubs/projects/ILravine.pdf as follows: gabion baskets; reno mattresses; A Jacks; geoweb	1992	1993	Great Lakes Commission			see study	Shabica
12	Highland Park	Ravine 10 Stormwater	Ravine 10L	Ravine	streambank stabilization	flood control		Project consisted of drainage improvements at Sheridan Road at Moraine Park, Highland Park, IL.	1995	not known	SMC WMB	\$30,000			SMC
13	Highland Park	Ravine 10 Stream Restoration	Ravine 10L	Ravine	streambank stabilization	streambed restoration	900 lf	Installed quarried limestone stream armor with a gabion grade control check-dam over the entire study area (see 94_Ravine 10). Trapped sediments to bury exposed utility lines.	2008	2009	City of Highland Park	\$140,000			City of Highland Park

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14	Highland Park	Ravine 3 Rosewood Park Ecosystem Restoration	Ravine 3L	Ravine	shoreline restoration	fisheries		The project restored natural coastal features for fish habitat, and expanded the foredunes for migratory bird habitat. About 9 acres of beach, dune, ravine and bluff habitats along Lake Michigan were restored. 1. The ravine stream was daylighted through removal of a culvert in the parking lot and connectedness to Lake Michigan was restored to allow fish to move freely to habitat upstream of the parking lot which was already in exemplary condition. 2. A robust native planting and establishment plan will be implemented over the next 2 years. This type of restored ravine would provide a source for rare and sensitive ravine plant species and provide exemplary habitat for macroinvertebrates, amphibians, reptiles and migratory birds.	2013		GLFER			1	USACE
15	Highland Park	Ravine 7 Fish Habitat Restoration at Millard Park	Ravine 7L	Ravine	streambed restoration	fisheries	1000 lf	This project will restore natural stream conditions to improve fish habitat in Ravine Number 7L at Millard Park (a tributary of Lake Michigan, located in Highland Park, Illinois) to make it more suitable for the return of desirable cold-water fish such as brook trout, brown trout, lake chub and white sucker. A restored stream, with successfully reproducing stocks of native fish, will enhance the overall desirability of the Park, improve Great Lakes fish habitat and water quality, and provide a model of fish habitat restoration for future projects in the Lake Michigan ravine ecosystems.	2010	2013	GLRI	\$200,000		1	EPA

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16	Highland Park	Ravine 8 Restoration	Ravine 8L	Ravine	streambed stabilization	slope stabilization	3.5 acres	The proposed Ravine 8 restoration work includes construction of approximately 23 cobble riffles within the ravine channel to reduce water velocity and minimize scour and erosion. Also included is invasive species removal and native material planting on approximately 3.5 acres of ravine slope on each side of the channel. There are total of eight (8) private and public properties involved including the City of Highland Park's Senior Center. A robust native planting and establishment plan will be implemented over the next 5 years. This type of restored ravine would provide a source for rare and sensitive ravine plant species and provide exemplary habitat for macroinvertebrates, amphibians, reptiles and migratory birds.	2016	on-going	GLFER	\$1,000,000		1	USACE
17	Highland Park	Fort Sheridan Slope Repair and Stability Analysis	Scott Ravine	Ravine	slope stabilization			Repaired slope failure on the south side of Scott Loop ravine and constructed subsurface investigation in seven locations.	2008	not known	SMC WMB	\$25,600			SMC
18	Lake Bluff	Ravine Park Ravine	Ravine Park Ravine	Ravine	streambank stabilization	outall		see report	1992		Private			see study	Shabica

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19	Lake Bluff	Ravine Park Ravine Restoration	Ravine Park Ravine	Ravine	streambank stabilization	streambed restoration	1600 lf	This project will restore a severely degraded ravine by stabilizing the bank and bed; repairing storm sewer outfalls to reduce scour; removing invasive vegetation; and establishing a ravine buffer and native vegetation. The project is anticipated to reduce sediment loads to Lake Michigan by 302 tons per year.	2010	2013	GLRI	\$788,900			EPA
20	Lake Bluff	Ravine Park Ravine Stabilization	Ravine Park Ravine	Ravine	streambank stabilization	flood control		Detailed design and construction to remove an existing deteriorated sidewalk and the construction of an energy dissipator. Work would include removal of log debris and working on stream channel.	1996	not known	UNK	\$72,000			SMC
21	Lake Bluff	Ravine Park Restoration	Ravine Park Ravine	Ravine	re-vegetation	invasives removal	1 acre		1995	on-going	LBOLA	\$5,000			LBOLA
22	Lake Bluff	South Ravine Restoration	South Ravine	Ravine	slope restoration	re-vegetation	1 acre	Slope stabilization with geotextiles followed by seeding with native vegetation; Removal of nonnative trees; armored stream w riprap	2011	2013	Private	\$100,000			Native Restoration Services
23	Lake Forest	Cemetery Ravine Restoration Project	Cemetery Ravine	Ravine	streambed restoration	slope Stabilization	550 lf	Repair the ravine channel to original elevation to provide stability for side slopes; repair and stabilize the ravine slopes; revegetate through means including canopy clearing; monitor	2015	on-going	ICMP/ NOAA City of Lake Forest	\$165,124			ICMP
24	Lake Forest	Fort Sheridan Ravine and Coastal Restoration	Janes Ravine	Ravine				Part of a joint Ft Sheridan project to restore 200 acres of beach, dune, ravine and bluff habitat along 2 mile reach of Lake MI shoreline; provide significant littoral zone habitat for fishes within 25 mile area.	2016		GLFER				USACE

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25	Lake Forest	Fort Sheridan Ravine and Coastal Restoration	McCormick Ravine	Ravine	streambed stabilization	fisheries		Part of a joint Ft Sheridan project to restore 200 acres of beach, dune, ravine and bluff habitat along 2 mile reach of Lake MI shoreline; provide significant littoral zone habitat for fishes within 25 mile area. 1: The stream was reconnected with Lake Michigan. All defunct infrastructure (concrete structures, pipes and foreign debris) removed from the stream channel and floodplain to allow fluvial processes to restore and maintain channel habitat. Several riffle and step pools are being implemented to dynamically stabilize the stream mouth and to provide additional pool habitats. 2: The ravine plant community is being restored as well. All non-native and invasive tree, shrub and herbaceous have been removed. A robust native planting and establishment plan will be implemented over the next 3 years. This type of restored ravine would provide a source for rare and sensitive ravine plant species and provide exemplary habitat for fishes, macroinvertebrates, amphibians, reptiles, migratory birds and small mammals.	2016		GLFER				1	USACE
26	Lake Forest	Witchhazel Ravine Stabilization Project	Witchhazel Seminary Ravine	Ravine	re-vegetation	streambed restoration		Restored natural ravine processes by clearing and re-establishing native vegetation at site. Included the construction of a system to protect the ravine bottom from storm runoff.	2004	not known	SMC WMB	\$427,660		1	SMC	

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27	Lake Forest	Witchhazel Seminary Ravine Maintenance	Witchhazel Seminary Ravine	Ravine	Invasive species	re-vegetation		Removal of invasive species and planting of natives.	2012	on-going	Lake Forest College				Lake Forest College
28	Unincorporated Benton Township	Bull Creek Restoration and Stabilization	Bull Creek	Ravine	streambank stabilization		225 lf	Construction of vegetated geogrids to stabilize erosion along 225 feet of very steep streambank. Project would complete Phase 2 installation of a five year stabilization project.	2005	not known	SMC WMB	\$50,000			SMC
29	Unincorporated Benton Township	Bull Creek Stabilization Phase 3- Riffle Construction	Bull Creek	Ravine	water quality	streambed stabilization	riffles	Removed invasive vegetation within the boundaries of the conservation easement in the stream corridor and undercut unstable trees along the stream. Installed 4 to 5 artificial riffles.	2002	not known	SMC WMB	\$51,000			SMC
30	Waukegan	Glen Flora Ravine (Bowen Park)	Glen Flora Ravine	Ravine	invasive species	re-vegetation	30 acres	Stream banks are being stabilized and nonpoint source pollution best management practices are being implemented along the highly vulnerable ravine system and riparian floodplain corridors of Bowen Park. Invasive plant species are being eradicated and replaced with native plantings creating a healthy habitat for threatened and endangered plants and animals.			USFWS	\$43,000			USFWS

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31	Waukegan	Glen Flora Ravine (Bowen Park) see also 14_GLRI_Waukegan Harbor	Glen Flora Ravine	Ravine	invasive species	re-vegetation	30 acres	Stream banks are being stabilized and nonpoint source pollution best management practices are being implemented along the highly vulnerable ravine system and riparian floodplain corridors of Bowen Park. Invasive plant species are being eradicated and replaced with native plantings creating a healthy habitat for threatened and endangered plants and animals.	2010	2016	GLRI	\$1,433,000		1	EPA
32	Waukegan	Waukegan Harbor Area of Concern Restoration See also 99_Bowen Park	Waukegan Harbor	Lake	water quality	shoreline restoration	160 acres	This project will: 1) restore and expand a green buffer to preserve vital habitat and water quality for near shore species; 2) gather baseline biological data for the Waukegan Extended Area of Concern; 3) prevent erosion and sedimentation in the riparian near shore, wetland and upland reaches of the Dead River watershed; and 4) provide greater infiltration and stabilization of at least 160 acres riparian inflows to Lake Michigan.	2010	2013	GLRI				EPA
33	Waukegan	Waukegan River Restoration at Yeoman Park	Waukegan River	Ravine	not known			not known		not known	319	\$271,040			SMC

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34	Winthrop Harbor	Dead Dog Creek Ravine/Stream Restoration Phase 2	Dead Dog Creek	Ravine	slope stabilization	streambed restoration	3950 lf	The Lake County Stormwater Management Commission has implemented the second and final phase of restoration for Dead Dog Creek, a ravine system tributary to coastal wetlands and Lake Michigan. The restoration implemented in-stream, streambank, and riparian buffer water quality and sediment control on 3,950 feet of Dead Dog Creek. This restoration will prevent 67 tons of sediment and 73 pounds of phosphorus from reaching Lake Michigan.	2011	2015	GLRI	\$675,401		1	EPA	
35	Winthrop Harbor	Dead Dog Creek Restoration Phase I	Dead Dog Creek	Ravine	water quality	stream restoration		Comprehensive ravine/stream restoration of Dead Dog Cr. from Sheridan Rd. to Geddes Ave. ROW	2012	2012	GLRI					SMC
36	Winthrop Harbor	Dead Dog Creek Restoration Phase II	Dead Dog Creek	Ravine	water quality	stream restoration		Comprehensive ravine/stream restoration of Dead Dog Cr. from Ravine Dr. to Sheridan Rd.	2013	2014	GLRI					SMC
37	Zion	Kellogg Creek Streambank Stabilization Project	Kellogg Creek	Stream	streambank stabilization		150 lf	Stabilized and restored approximately 150 feet of the streambank to significantly reduce an erosion problem threatening the foundation of two building structures.	2010	not known	SMC WMB CDBG LCCCIP	\$20,000				SMC