



**HURON-ERIE
CORRIDOR
INITIATIVE**

USEPA Near-Term Management Priorities in the St. Clair – Detroit River System

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US EPA Great Lakes National Program Office

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Near – term priorities

- Remove BUIs in the St. Clair and Detroit River AOCs
- Complete all management actions in the St. Clair AOC by 2014
- Implement provisions in new Great Lakes Water Quality Agreement

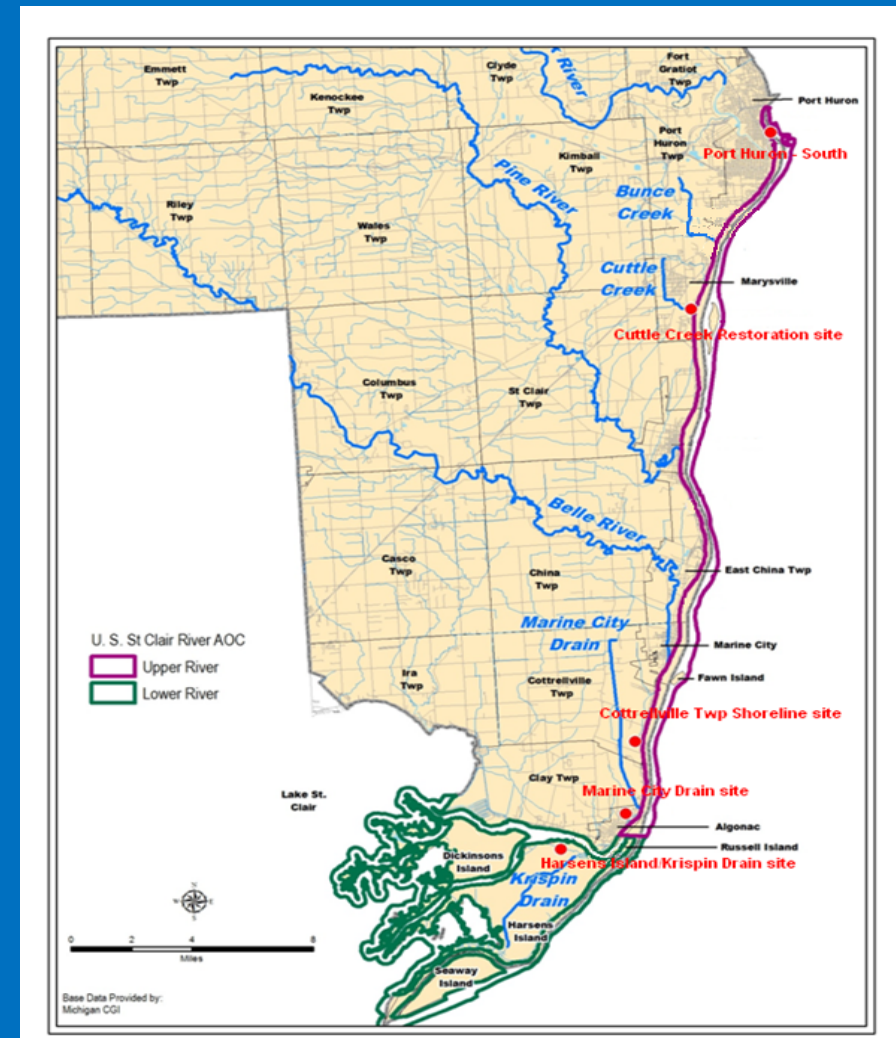
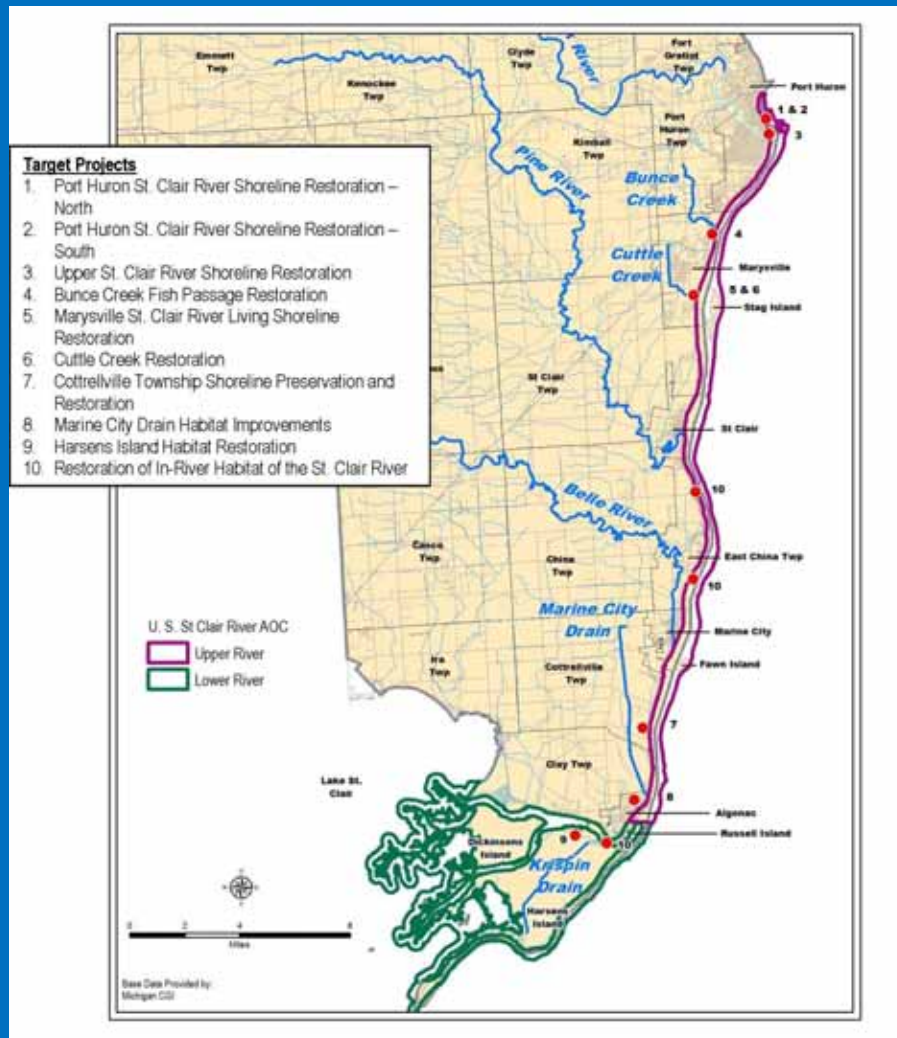
Current status of St. Clair River BUIs

BUI	Current activities	Future steps
Tainting of Fish and Wildlife Flavor	Re-designated, 2011.	n/a
Restrictions on Dredging Activities	Re-designated, 2011.	n/a
Degradation of Aesthetics	Re-designated, 2012.	n/a
Added Costs to Agriculture or Industry	Re-designated, 2012.	n/a
Bird or Animal Deformities or Other Reproductive Problems	MDEQ completed assessment, 2012. BUI determined to be unimpaired.	Convene technical review committee to examine re-designation of BUI.
Degradation of Benthos	DEQ to complete review of available benthos data.	Convene technical review committee to examine re-designation of BUI.
Beach Closings	Port Huron CSO elimination by 2016, Chrysler Beach TMDL 2018.	Convene technical review committee to examine re-designation of BUI.
Restrictions on Fish and Wildlife Consumption	Currently under assessment by MDCH.	<ul style="list-style-type: none"> • If assessment shows no impairment, convene technical review committee to re-designate BUI . • If impaired, determine whether impairment caused from inside or outside AOC
Restrictions on Drinking Water Consumption or Taste and Odor Problems	Determine appropriate endpoint for removal criteria.	<ul style="list-style-type: none"> • Document status of industry/regulatory efforts to prevent spills; • Identify facilities, sources and pathways, significant enough to cause facility shutdown; • Ensure facilities are in compliance with spill planning and prevention regulations; • Ensure engagement and communication re: spill planning, notification and response are acceptable to local municipalities and PAC.
Loss of Fish and Wildlife Habitat	<ul style="list-style-type: none"> • Revised plan for removal of Fish & Wildlife BUI completed, 2012; • Restoration Design for all target habitat sites on-going. 	<ul style="list-style-type: none"> • 2013/14, complete habitat restoration actions for all target habitat sites identified in revised Fish & Wildlife plan.

St. Clair River target habitat sites

All target sites

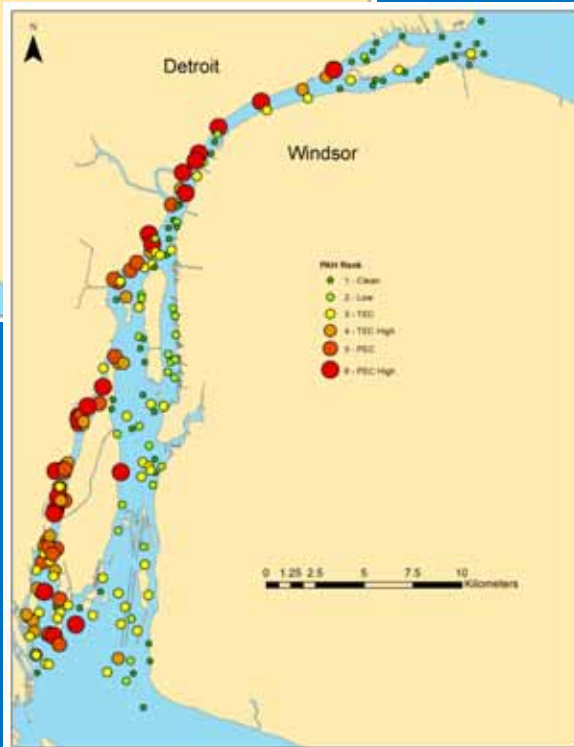
EPA/DEQ – lead target sites



Current status of Detroit River BUIs

BUI	Current activities	Future steps
Restrictions on Drinking Water Consumption or Taste and Odor Problems	Re-designated, 2011.	n/a
Tainting of Fish and Wildlife Flavor	Proposed for re-designation.	MDEQ, EPA and Bi-national review for re-designation. Re-designate in 2013.
Fish Tumours and other Deformities	MDEQ assessment, 2011-2012, indicates BUI likely unimpaired. Awaiting final results.	If found unimpaired, convene technical review committee to examine re-designation of BUI.
Degradation of Aesthetics	MDEQ completed assessment, 2012. BUI remains impaired.	Address source of impairment identified in assessment.
Restrictions on Fish and Wildlife Consumption	MDCH assessment determined fish consumption advisories more restrictive than non-AOCs.	Study contaminants in fish tissue from AOC compared to control site.
Bird or Animal Deformities or Other Reproductive Problems	MDEQ completed assessment, 2012. BUI remains impaired.	Conduct study to identify source of impairment.
Degradation of Benthos	Effort underway to identify target sediment sites.	GLLA site characterization of identified target sediment sites.
Loss of Fish and Wildlife Habitat & Degraded Fish and Wildlife Populations	<ul style="list-style-type: none"> • Completion of restoration actions at Blue Heron Lagoon & South Fishing Pier; • Design of Fort Wayne reef site 	<ul style="list-style-type: none"> • Update/revise Fish & Wildlife BUI removal plan to include reef sites • Begin construction of Fort Wayne reef • Planning and permitting for remaining reef sites
Restrictions on Dredging Activities	MDEQ completed assessment, 2011. BUI remains impaired.	TBD
Beach Closings	Impaired	TBD

Sediment sites targeting effort



Revise Fish & Wildlife habitat restoration plan

DELISTING TARGETS FOR FISH/WILDLIFE HABITAT & POPULATION
BENEFICIAL USE IMPAIRMENTS FOR THE DETROIT RIVER AREA OF CONCERN

Submitted to the Michigan Department of Environmental Quality
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Projects currently listed in 2009 Fish and Wildlife plan

Project	Status
# 1 Lake Muscoday Restoration	Site subject to limited past restoration actions
#2 Blue Heron Lagoon Restoration	currently funded under GLRI, construction to be completed in 2013
#3 Lake Okonoko Restoration	
#4 Shoreline Restoration near South Fishing Pier	currently funded under GLRI, construction to be completed in 2013
#5 Mariners Park Restoration	subject for review in plan revision
#6 Riverfront-Lakewood East Restoration	subject for review in plan revision
#7 Alfred Brush Ford Park Restoration	subject for review in plan revision
#8 Maheras Park Restoration	subject for review in plan revision
#9 Gabriel Richard Park Restoration	subject for review in plan revision
#10 Historic Fort Wayne Restoration	subject for review in plan revision
#11 Frank & Poet/Brownstown Creek Floodplain Preservation and Restoration	subject for review in plan revision
#12 US Steel Shoreline Restoration and Shoal Reconstruction	currently funded under GLRI
#13 Grassy Island Shoal Restoration	subject for review in plan revision
#14 North Hennepin Marsh Restoration and Shoal Reconstruction	subject for review in plan revision
#15 South Hennepin Marsh Conservation and Restoration	subject for review in plan revision
#16 Stony Island Shoal Reconstruction	proposal for design to be submitted in 2013
#17 Round Island Conservation	subject for review in plan revision
#18 Sugar Island Conservation and Restoration	recently acquired by USFWS
#19 Celeron Island Restoration and Shoal Construction	proposal for design to be submitted in 2013
Proposed sites to be added in plan revision	
Fort Wayne reef	
Northeast Belle Isle reef	
NE Grassy Island reef	

ANNEX 2

LAKEWIDE MANAGEMENT

B. Programs and Other Measures

7. Nearshore framework

- (a) provide an overall assessment of the state of the nearshore Waters of the Great Lakes;
- (b) identify nearshore areas that are or may become subject to high stress due to individual or cumulative impact on the chemical, physical or biological integrity of those areas;
- (c) identify areas within the nearshore which, due to their nature, are of high ecological value;
- (d) determine factors and cumulative effects that are causing stress or that are threatening areas of high ecological value;
- (e) establish priorities for nearshore prevention, restoration and protection measures based on consideration of nearshore and whole-lake factors;
- (f) identify and engage appropriate agencies and entities that are developing and implementing prevention, restoration and protection strategies;
- (g) include consideration of non-point source runoff, shoreline hardening, climate change impacts, habitat loss, invasive species, dredging and contaminated sediment issues, bacterial contamination, contaminated groundwater, and other factors where they are identified as a source of stress to the nearshore environment;
- (h) take into account the impact on human health and the environment;
- (i) include monitoring of the nearshore to support this framework, which shall be conducted on a frequency to be determined by the Parties, to assess changes in the nearshore over time; and
- (j) be regularly assessed and revised as appropriate.