Aquatic Invasive Species Annex 6 Implementation Update

Great Lakes Panel
April 30, 2014 – Notre Dame University

Todd Turner – U.S. Fish and Wildlife Service
Gavin Christie – Fisheries and Oceans Canada

GLWQA Annex 6 Aquatic Invasive Species Purpose

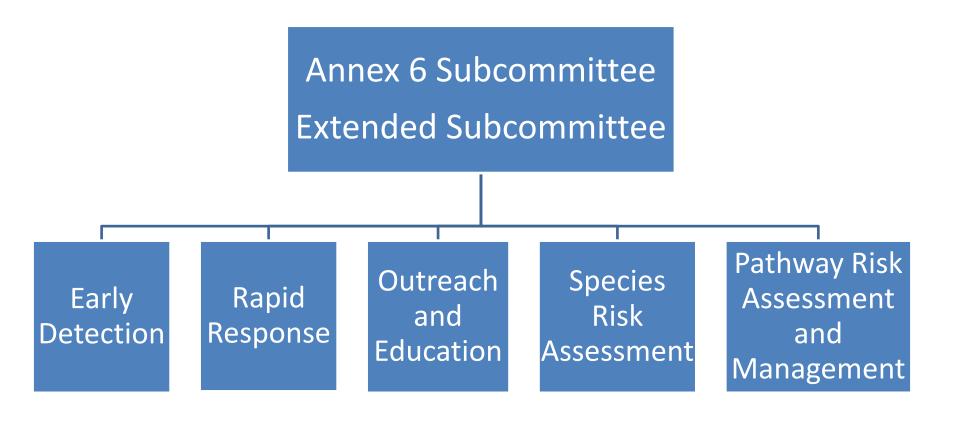
 Through this Annex the Parties shall establish a binational strategy to prevent the introduction of Aquatic Invasive Species (AIS), to control or reduce the spread of existing AIS, and to eradicate, where feasible, existing AIS within the Great Lakes Basin Ecosystem.

Subcommittee Membership

Subcommittee members *	Extended Subcommittee members
U.S. Fish and Wildlife Service	National Oceanographic and Atmospheric
Fisheries and Oceans Canada	Administration
U.S. Environmental Protection Agency	Great Lakes Commission
Ontario Ministry of Natural Resources	Great Lakes Fisheries Commission
Michigan Dept. Environmental Quality	Invasive Species Centre
Minnesota Dept. of Natural Resources	Canadian Aquatic Invasive Species Network
Ohio Dept. of Natural Resources	Ontario Federation of Anglers and Hunters
New York Dept. of Environmental	The Nature Conservancy
Conservation	
Great Lakes St. Lawrence Cities Initiative	
Great Lakes Indian Fish and Wildlife	
Commission	
Chippewa-Ottawa Resource Authority	
1854 Treaty Authority	
First Nation / Metis – Chiefs of Ontario	

^{*} Includes members from the Great Lakes Panel on ANS and the Council of Lake Committees

Subcommittee Structure



Annex 6: Aquatic Invasive Species

Priorities for Action:

 By 2015, develop and implement an early detection and rapid response initiative that coordinates effective domestic and, when necessary, binational response to prevent AIS from becoming established in the Great Lakes.

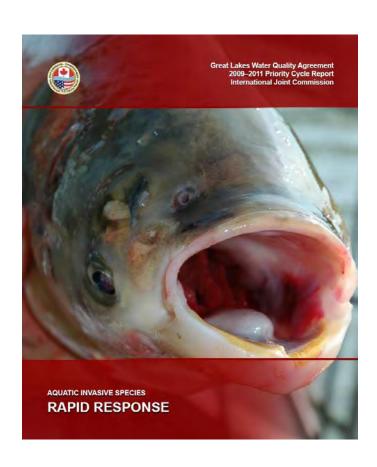


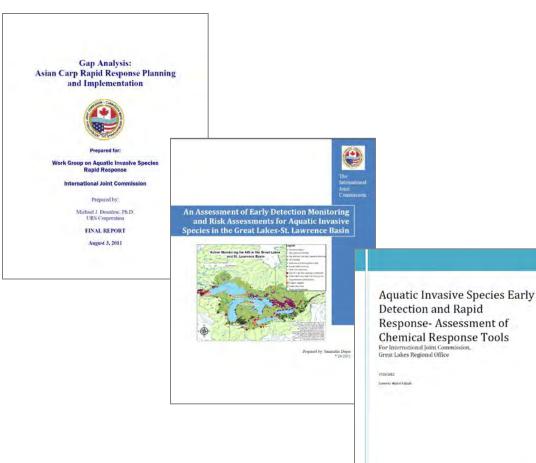
Update on Annex 6 Tasks

Priority / GLWQA commitment: A comprehensive response initiative for the Great Lakes by 2015

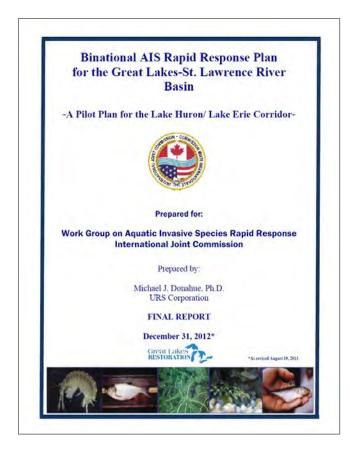
Activity	Status and Next Steps
Response plan development – Pilot Plan	Developed through GLRIS/IJCTest / Develop basin-wide framework
Exercise options -	 Huron-Erie – Asian carps St. Lawrence – Invertebrate / vessel Lake Michigan / CAWS - Ruffe
Binational response plan exercise – Huron-Erie Corridor	Asian carpsMay 21-22, 2014
Inventory of response plans by jurisdiction	
Governors and Premiers Mutual Aid agreement	 Foundation for shared response
Reporting of results of response planning exercises or actual response actions	

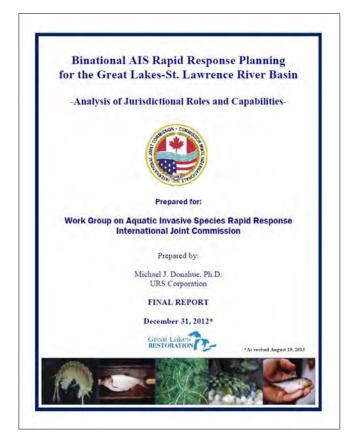
IJC Aquatic Invasive Species Rapid Response - 2009-2011 Priority Cycle





Binational Response Plan a pilot approach





Binational Response Plan a pilot approach

Possible new AIS is

discovered and reported

RRT reviews Incident

Brief/ available data and

decides on course of

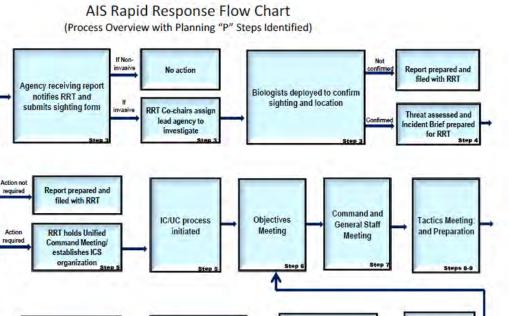
action

Planning Meeting:

preparation and conduct

Steps 10-11

Planning Process Preparing for Tactics. the Planning Manning Meeting Meeting Meeting Preparing for IAP Prep the Tactica Meeting Approval Command & General Staff Meeting Operations /Briefing Briefing 101 UC New Ope Cavalon/Update Period Execute Plan & Begins Assess Meeting. Progress Meeting Incident Brief ICS-201 initial Response & Assessment Notification Incident/Event



Plan Execution and

Assessment

Step 14

Figure 1

Operations Briefing: "Al

Hands" Meeting

Step 13

Incident Action Plan

prepared and approved

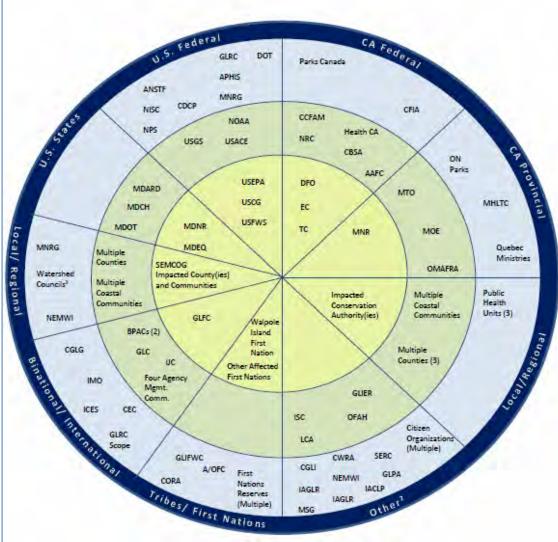
Objectives met; maintain

monitoring

Reassess objectives and prepare revised approach and execution

Binational Response Plan Huron –Erie Corridor Entities





Binational Response Plan a pilot approach

- Huron-Erie Corridor
 - High risk
 - Multi-jurisdictions
- May 21-22 Exercise
 - ACRCC / GLRI / Annex 6
 - Pilot Response Plan
 - Incident Command and Planning P process
 - Context Ontario andMichigan Response Plans



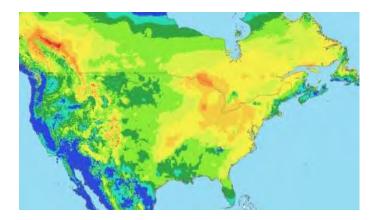
Annex 6: Aquatic Invasive Species

Priorities for Science:

- Undertake ecological assessments of Aquatic Invasive Species (AIS) prevention programs.
- Develop and evaluate early AIS detection technologies and methods.
- Research and develop technologies and methods for control and eradication of AIS.
- Determine the effects of habitat and climate change on risks of AIS establishment.
- Implement and evaluate risk assessments of species, pathways, and vectors of AIS.



eDNA for early detection



Climate change and invasion risk through 2080

Update on Annex 6 Tasks

Priority / GLWQA commitment: Prevent introduction through outreach and communication programs

Activity	Status and Next Steps
Share education and outreach programs and materials	 Success of GL Panel Information and Education Committee Ontario / Invasive Species Centre Compendium Stop Aquatic Hitchhikers! Habitattitude
Conduct an evaluation of education and outreach efforts in the Great Lakes Basin	 I&E major program evaluation tool Member input – review at next Panel meeting Published and unpublished surveys and analyses – e.g. MN and MI
Identify shared efforts or new initiatives to enhance education and outreach	

Cross-annex Coordination - AIS Annex 6

