

## REPORTS

- Project Quinte Annual Report.
- Sampling program and preliminary data analysis to address the Fish Consumption Beneficial Use Impairment (BUI#1) in the Bay of Quinte.
- Bay of Quinte Area of Concern Status Report Card.
- Report on The Bay of Quinte Science and Monitoring Forum.
- Master Drainage Plans and Regional Pollution Control Planning for the Bay of Quinte.
- Preliminary investigation into the occurrence of human fecal contamination in the Bay of Quinte using microbial source tracking markers 2009.
- Preliminary investigation into the occurrence of algal toxins and status on taste and odour issues in the Bay of Quinte 2009.

## CONTRIBUTIONS

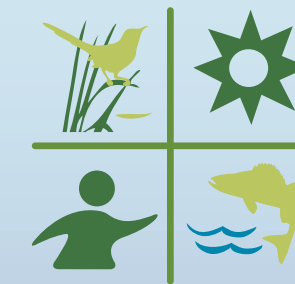
- Presentation at Areas of Concern workshop in Niagara-on-the-Lake on the status of the Bay of Quinte Remedial Action Plan (BQRAP).
- Presentation and Bay of Quinte tour with Lakewide Management Plan Committee on the BQRAP status.
- Letter: Bay of Quinte Restoration Council response to "Healthy Great Lakes, Strong Ontario: Talking with Ontarians about Protecting, Restoring, Using and Enjoying the Great Lakes Discussion Paper.
- Presentation to Quinte Field Naturalists on Natural Heritage and the BQRAP.
- Presentation and meeting to Quinte Watershed Cleanup on BQRAP status and partnership opportunities.
- Facilitated tour of historic toxic sites and issues for the BQRAP for Queen's University, Professor Peter Hodson, 4th Year Ecotoxicology Course. Also included in-class presentations by MOE and the provision of technical reports for students and use on course website.
- Presentations at St. Lawrence River Institute for Environmental Science Annual Conference on the BQRAP and plans for the development of the Phosphorus Management Strategy.
- Presentation for Waterlutions workshop at Tyendinaga Mohawk Territory on BQRAP.
- Presentation to City of Belleville staff and councillors on BQRAP and the seven remaining recommended actions from Stage 2.
- Presentation to coordinating committee for IAGLR Bay of Quinte Special Session on "The Bay of Quinte Area of Concern: Past, Present, and Steps toward Delisting and Integrated Ecosystem Management and Protection".
- Presentation at Queen's University, Professor Bruce Anderson, 4th Year Civil Engineering Course re: BQRAP.

## ENGAGEMENTS

- International Joint Commission Biennial Meeting in Windsor.
- Channel Darter Recovery Strategy Team.
- Stewardship Ontario 6E-15 Initiative.
- St. Lawrence (Cornwall) Area of Concern Shoreline Naturalization workshop.
- Trent River Mouth Administrative Controls working group.
- Regional Master Drainage and Regional Pollution Prevention and Control Planning working group.
- Great Lakes Phosphorus Forum in Windsor.
- Canadian Association on Water Quality Annual Conference (Harmful Algae Blooms).
- Integrated Watershed Management Symposium in Mississauga.
- New Directions in Stormwater Management Conference.
- Annual A.D. Latomell Conference.
- Project development working group for Mohawks of the Bay of Quinte including Dr. Dan Longboat (Trent), Dr. Miriam Diamond (U of T), Dr. Gita Laidler (Carleton), Suzanne Brant (First Nations Technical Institute), Kristin Maracle (MBQ).
- Consultations on: fish barrier removal at Dead Creek Marsh, invasive species, species at risk, First Nations engagement, AOC delisting process, Stage 3 preparation, shoreline rehabilitation, GIS modelling.
- Quinte Children's Water Festival.



A Remedial Action Plan or a "RAP" is an important scientific endeavour that is part of many communities around the Great Lakes. A RAP is the response of government, industry, and the local community to environmental concerns that are believed to impair the use of various resources such as drinking water, fish, and recreation. A RAP is a process to remove the Area of Concern designation (delisting) by the International Joint Commission (a Canadian-American environmental "watchdog"). In this process, the environmental concerns and various resources are placed into Beneficial Use Impairments that can be monitored and assessed so that ultimately the AOC can be delisted.



# Bay of Quinte Remedial Action Plan

Healthy Bay • Healthy Community

[www.bqrap.ca](http://www.bqrap.ca)

## FOR MORE INFORMATION

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## THE RAP ADMINISTRATION OFFICE

Lower Trent Conservation, 714 Murray Street, R. R. # 1  
Trenton, Ontario, K8V 5P4

## RESTORATION COUNCIL

- Lower Trent Conservation • Quinte Conservation
- Ontario Ministry of the Environment • Environment Canada
- Ontario Ministry of Natural Resources • Fisheries and Oceans Canada
- Ontario Ministry of Agriculture, Food, and Rural Affairs
- Mohawks of The Bay of Quinte • Quinte Watershed Cleanup
- CFB Trenton

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# ANNUAL PROGRESS REPORT 2009

The Bay of Quinte has 10 environmental challenges. These are known as beneficial use impairments in the Remedial Action Plan process. The Bay of Quinte Remedial Action Plan and its partners are, successfully, under-taking actions to rehabilitate the Bay.

Beneficial Use Impairments of the Bay of Quinte (Bay of Quinte RAP Stage 2 Report, 1993)		Science and Monitoring Forum 2009	
#	Beneficial Use Impairment	Recommendation	Recommendation
1	Restrictions on fish and wildlife consumption	Impaired	Review status of BUI, but recognize hot-spots
3	Degradation of fish and wildlife populations	Impaired	Review status of BUI
4	Fish tumours and other deformities	Needs Assessment	Needs Assessment
6	Degradation of benthos	Impaired	Review status of BUI
8	Eutrophication or undesirable algae	Impaired	Review status of BUI
9	Restrictions on drinking water or taste and odour problems	Impaired	Needs Assessment. Research is needed on the source and effects of algal toxins
10	Beach closures	Impaired	Review status of BUI
11	Degradation of aesthetics	Impaired	Review status of BUI
13	Degradation of phytoplankton and zooplankton populations	Impaired	Review status of BUI
14	Loss of fish and wildlife habitat	Impaired	Review status of BUI

## THE RAP OFFICE WAS A BUSY PLACE

- Maintained a two person administrative office (Implementation Manager, Communications Specialist).

Supported other staff:

- One Program Assistant.
- One Community Wildlife Program Coordinator.
- One Engineer, as needed.
- One Monitoring Technician.

- 6 Restoration Council Meetings including presentations by
- Ken Durst (MNR-Peterborough).
  - Dr. Peter Hodson (Queen's University).
  - Dr. Jeff Ridal (St. Lawrence River Institute of Environmental Sciences-Cornwall).

Committees and working group meetings:

- 9 Administrative.
- 1 Project Planning.
- 2 Fish and Wildlife Technical.
- 2 Water Quality Technical.
- 1 Communications and Outreach.
- 1 Fish Contaminants Monitoring Program.
- 1 Habitat Enhancement Program.
- 2 Phosphorus Management Strategy.
- 4 Biocontaminants Monitoring Program.
- 1 Project Quinte-DFO staff.

Proposals and Funding and related Beneficial Use Impairments

- Received funding from Ministry of the Environment(MOE) and Environment Canada(EC) for RAP office in support of staff, communications, monitoring and programs.
- Canadian Wildlife Services funding for the Bay of Quinte Coastal Wetland Monitoring Program and Community Wildlife Monitoring Program - BUI #3, 14.
- Ministry of Natural Resources (MNR) for Bay of Quinte Coastal Wetland Monitoring Program, Sawguin Creek Marsh Enhancement Project, Habitat Enhancement Program (shoreline naturalization) - BUI #3, 14.
- Funds from Great Lakes Sustainability Fund (GLSF) for Bay of Quinte Coastal Wetland Monitoring Program, Habitat Enhancement Program (shoreline naturalization), Bay-wide Geographic Information System, Community Wildlife Monitoring Program - BUI #3, 14.
- MOE for Biocontaminants Monitoring Program (beach closures and recreational waters) - BUI #10.
- MOE for Biocontaminants Monitoring Program (drinking water restrictions and taste/odour problems) - BUI #9.
- Funds from GLSF for Master Drainage Planning - BUI #8, 9,10,11.
- Funds from MOE for Regional Pollution Prevention Control Plan - BUI #8, 9,10,11.
- MOE for Fish Contaminant Monitoring Program (restrictions on fish consumption) - BUI #1.
- Funds from EC for Trent River Mouth - BUI #1, 4, 6.
- Funds provided to the City of Belleville half from GLSF and half from MOE for Wet Weather Flow Study - BUI #8, 9, 10, 11.



## COMMUNICATIONS AND PUBLIC OUTREACH

- New logo and tagline for the BQRAP.
- New brochures for BQRAP and Community Wildlife Monitoring Program.
- Eight new roll up displays.
- Developed a series of fact sheets.
- New web site design with in-house content management system.
- BQRAP expanded to social media - Facebook.
- 8 Big Cleanup Bulletins, 1 Summer/Fall Newsletter, and an Annual Report..
- Exhibitor and presenter of one workshop session at 4th annual Sustainable Living Symposium.
- Developed TOR for communications and outreach working group.
- Children's Water Festival committee member.
- Back to the Bay event - an evening celebrating the Bay of Quinte featuring speakers; Terry Murphy, Bob Willard, Heather Candler, Jim Kelleher.
- AOC Funding Announcement Press Conference MP Daryl Kramp at Quinte Conservation.
- Community Wildlife Monitoring Program Annual Marsh Monitoring Workshop at Quinte Conservation with Terry Sprague - Over 100 volunteers in attendance.
- Bay of Quinte Recognition Event at Quinte Conservation, 30+ people in attendance.
- 21th Annual Hastings County Farm Show & Plowing Match Exhibitor Conservation Tent with 19,000 people in attendance.
- Literature at the Trenton Farm Show.
- Print ad - EMC - Farm Safety Supplement, Intelligencer - CWMP & Sustainable Living Symposium.
- Radio Campaign - Community Wildlife Monitoring Program and Back to the Bay event.
- Web promotion with links on 26 sites.
- Requests for BQRAP information from landscape designers, university students, college students, general public.
- Interviews in local newspapers and on radio.
- RAP literature in strategic locations.
- BQRAP standing display at Lower Trent Conservation and Quinte Conservation.
- Transferred BQRAP videos to digital format.



## MONITORING OUT IN THE FIELD

- Monitored nearshore fish communities using electroshocking.
- Monitored bay water temperatures for Fish Habitat model.
- Assisted in the retrieval of temperature loggers used in DFO's Fish Habitat model.
- Annual offshore fish population monitoring.
- Monitored fish communities in five coastal wetlands in the Bay of Quinte.
- Monitored wetland dependant birds and amphibians in eleven coastal wetlands in the Bay.
- Monitored fish, wildlife and habitat within an area of past habitat creation project in Sawguin Creek Marsh.
- Monitored aquatic invertebrates, water quality, and submerged aquatic vegetation in fifteen coastal wetlands in the Bay of Quinte.
- Surveyed shoreline landowners and properties for future habitat enhancement projects along the north shore of the bay between Carrying Place and Point Anne.
- Surveyed local area, residents and agency/government staff on openwater recreation locations on the bay.
- Collected water samples for E. coli and human sewage DNA marker analysis at four RAP beaches and openwater locations in the bay.
- Collected water samples for algal communities and toxin analysis at four RAP beaches and openwater locations in the bay.



- Assisted in coordination of sampling water samples for algal communities and toxin analysis.
- Collected water samples for algal communities and toxin analysis at two blue-green algae bloom locations.
- Analyzed fish samples collected in 2008 for contaminants of concern in the bay.
- Collected fish samples at impacted and unimpacted locations within and outside the bay for contaminant analysis.
- Project Quinte ecosystem monitoring at long-term, offshore stations.
- Analyzed data from 2008 shoreline landowner survey for overall trends and patterns with respect to attitudes, preferences, and interest in shoreline naturalization.
- Hosted workshop on shoreline and backyard naturalization at Quinte Sustainability Symposium.

