



# Lake Erie

*Protection & Restoration Plan*

**Second Progress Report  
September 2004**

## Our mission

The Ohio Lake Erie Commission was created for the purposes of preserving Lake Erie's natural resources, protecting the quality of waters and ecosystem, and promoting economic development. The Commission is comprised of the Directors of the Ohio Environmental Protection Agency and the Departments of Natural Resources, Agriculture, Development, Health, and Transportation. The Commission maintains a staff, located in Toledo, Ohio, at One Maritime Plaza. The staff administers the business of the Commission and executes many Lake Erie Commission programs such as the Lake Erie Protection Fund, Ohio's Coastweeks program, Lake Erie License Plate Sales program, and the Lake Erie Quality Index. The Lake Erie Commission meets quarterly and the meetings are open to the public.

## Ohio Lake Erie Commission

*Christopher Jones*, Chair and Director, Ohio Environmental Protection Agency

*Dr. Samuel W. Speck*, Secretary and Director, Ohio Department of Natural Resources

*Fred L. Dailey*, Director, Ohio Department of Agriculture

*Bruce Johnson*, Director, Ohio Department of Development

*Dr. J. Nick Baird*, Director, Ohio Department of Health

*Gordon Proctor*, Director, Ohio Department of Transportation

## Lake Erie Protection & Restoration Plan: Second Progress Report

In 1998, the Ohio Lake Erie Commission, comprised of the directors of Ohio EPA, Departments of Agriculture, Development, Health, Natural Resources, and Transportation released the *Lake Erie Quality Index*. This project was an effort to gather available data measuring the status or quality of the Lake Erie ecosystem, establish specific goals, and devise scoring systems to communicate the current condition of the lake to the citizens of Ohio. Following the release of this report, the Commission was tasked with focusing on the various quality metrics established in the *Index*, cataloging all of the current efforts of our constituent agencies, and identifying additional initiatives or resources necessary to accomplish the *Quality Index* goals and objectives.

The result of that undertaking was the *Lake Erie Protection & Restoration Plan*, Ohio's blueprint for the future of Lake Erie and how to achieve those goals. The plan proposes the implementation of 84 strategic actions for improving the environment, recreational opportunities, and economy of the Lake Erie region and assigns each strategy to the respective State of Ohio agency that could best address these concerns. Included within these areas are recommendations for water quality (WQ), pollution sources (PL), habitat (H), biology (B), coastal recreation (CR), boating (BT), fishing (F), beaches (BCH), tourism (T), and shipping (S). This concerted effort towards balanced growth and the stewardship of the state's most unique and important body of water was the first of its kind for Ohio.

The following report details the work that has been done in the past two years by the assigned agencies in regards to each of the 84 strategic actions. The lists given build upon information that was included in the first annual progress report released in September of 2001.

## Legend of Agency Acronyms

|        |  |
|--------|--|
| ATSDR  | Agency for Toxic Substances and Disease Registry |
| CAP    | Conservation Action Project                      |
| LEC    | Lake Erie Commission                             |
| LECO   | Lake Erie Coastal Ohio                           |
| NOAA   | National Oceanic and Atmospheric Administration  |
| ODA    | Ohio Department of Agriculture                   |
| ODH    | Ohio Department of Health                        |
| ODNR   | Ohio Department of Natural Resources             |
| DNAP   | Division of Natural Areas and Preserves          |
| DSWC   | Division of Soil and Water Conservation          |
| REALM  | Real Estate and Land Management                  |
| OCMP   | Ohio Coastal Management Program                  |
| ODOD   | Ohio Department of Development                   |
| ODOT   | Ohio Department of Transportation                |
| OEEF   | Ohio Environmental Education Fund                |
| OEPA   | Ohio Environmental Protection Agency             |
| DDAGW  | Division of Drinking and Ground Waters           |
| OPP    | Office of Pollution Prevention                   |
| OHS    | Ohio Historical Society                          |
| OLC    | Ohio Livestock Coalition                         |
| ORDC   | Ohio Rail Development Commission                 |
| OSU    | The Ohio State University                        |
| OSUE   | Ohio State University Extension                  |
| SWCD   | Soil and Water Conservation District             |
| TMACOG | Toledo Metropolitan Area Council of Governments  |
| USACE  | United States Army Corp of Engineers             |
| USCG   | United States Coast Guard                        |
| USDA   | United States Department of Agriculture          |
| FSA    | Farm Service Agency                              |
| NRCS   | Natural Resources Conservation Service           |
| USDOT  | United States Department of Transportation       |
| USEPA  | United States Environmental Protection Agency    |
| USFWS  | United States Fish & Wildlife Service            |
| USGS   | United States Geological Survey                  |

## 2<sup>nd</sup> Progress Report on the Lake Erie Protection and Restoration Plan

Submitted to the Ohio Lake Erie Commission  
June, 2004

| <b>Strategic Action Progress</b> |   |             |                 |
|----------------------------------|---|-------------|-----------------|
| <u>Action</u>                    | <u>Subject</u>                                      | <u>Page</u> | <u>Progress</u> |
| <b>Water Quality</b>             |   |             |                 |
| WQ-1                             | Great Lakes Standard Fish Consumption Protocol      | 6           | <b>COMPLETE</b> |
| WQ-2                             | Fish Consumption Protocol Public Communication      | 7           | <b>ONGOING</b>  |
| WQ-3                             | Contaminant Bioaccumulation Research                | 8           | <b>ONGOING</b>  |
| WQ-4                             | Contaminated Sediment Remediation                   | 9           | <b>ONGOING</b>  |
| WQ-5                             | Information Clearinghouses                          | 10          | <b>ONGOING</b>  |
| WQ-6                             | Private Home Septic System Permitting               | 11          | <b>ONGOING</b>  |
| WQ-7                             | Semi-public Sewage Inspection Program               | 13          | <b>ONGOING</b>  |
| WQ-8                             | Lake Erie "No Discharge Zone"                       | 14          | <b>ONGOING</b>  |
| WQ-9                             | Beach Advisory Postings                             | 15          | <b>ONGOING</b>  |
| WQ-10                            | Beach Advisory Forecasting System                   | 16          | <b>ONGOING</b>  |
| WQ-11                            | Bacterial Tracing Research                          | 17          | <b>ONGOING</b>  |
| WQ-12                            | Drinking Water Quality Information                  | 18          | <b>ONGOING</b>  |
| WQ-13                            | Water Quality Monitoring System                     | 19          | <b>ONGOING</b>  |
| WQ-14                            | Area of Concern Restoration                         | 19          | <b>ONGOING</b>  |
| <b>Pollution Sources</b>         |   |             |                 |
| PL-1                             | NPDES Permit Revisions                              | 23          | <b>COMPLETE</b> |
| PL-2                             | Hazardous Substance Reduction and Substitution      | 24          | <b>ONGOING</b>  |
| PL-3                             | Conservation Tillage                                | 25          | <b>ONGOING</b>  |
| PL-4                             | Conservation Buffers                                | 27          | <b>ONGOING</b>  |
| PL-5                             | Ohio Coastal Nonpoint Plan                          | 28          | <b>ONGOING</b>  |
| PL-6                             | Soil Conservation Research                          | 30          | <b>ONGOING</b>  |
| PL-7                             | Precision Fertilizer Application Research           | 31          | <b>ONGOING</b>  |
| PL-8                             | Concentrated Animal Feed Operation Legislation      | 32          | <b>ONGOING</b>  |
| PL-9                             | Voluntary Action Program                            | 33          | <b>COMPLETE</b> |
| PL-10                            | Hazardous Waste Cleanup Standards                   | 34          | <b>COMPLETE</b> |
| PL-11                            | Hazardous Waste Cleanup Program                     | 35          | <b>COMPLETE</b> |
| PL-12                            | Hazardous Waste Cleanup Resources                   | 35          | <b>ONGOING</b>  |
| PL-13                            | LEQI Urban Nonpoint Pollution Objectives            | 37          | <b>ONGOING</b>  |
| PL-14                            | Regional Hazardous Waste Recycling Facilities       | 38          | <b>ONGOING</b>  |
| PL-15                            | Watershed Stormwater Management Planning            | 39          | <b>ONGOING</b>  |
| PL-16                            | Combined Sewer Overflow Strategy                    | 41          | <b>ONGOING</b>  |
| PL-17                            | Urban Riparian Buffers                              | 42          | <b>ONGOING</b>  |
| PL-18                            | LEQI Atmospheric Pollution Objective                | 43          | <b>DROPPED</b>  |
| PL-19                            | Air Contaminant Collectors                          | 43          | <b>ONGOING</b>  |
| PL-20                            | Research into Electrical Deregulation Opportunities | 44          | <b>ONGOING</b>  |

| <b>Habitat</b>            |   |    |                         |
|---------------------------|---|----|-------------------------|
| H-1                       | Dam Removal                                 | 45 | <b>ONGOING</b>          |
| H-2                       | Flood Retention                             | 46 | <b>ONGOING</b>          |
| H-3                       | Comprehensive Watershed Planning            | 47 | <b>ONGOING</b>          |
| H-4                       | Local Watershed Hydrology                   | 48 | <b>ONGOING</b>          |
| H-5                       | Lake Erie Model Zoning Ordinance            | 49 | <b>ONGOING</b>          |
| H-6                       | Lake Erie Lighthouse Designation            | 49 | <b>NOT YET UNDERWAY</b> |
| H-7                       | Governor's Lake Erie Balanced Growth Awards | 50 | <b>NOT YET UNDERWAY</b> |
| H-8                       | Balanced Growth Blue Ribbon Task Force      | 50 | <b>ONGOING</b>          |
| H-9                       | Ohio Farmland Preservation Program          | 51 | <b>ONGOING</b>          |
| H-10                      | Reforestation                               | 52 | <b>ONGOING</b>          |
| H-11                      | Coastal Parcel Acquisition                  | 53 | <b>ONGOING</b>          |
| H-12                      | Water-dependent Shoreline Development       | 54 | <b>ONGOING</b>          |
| H-13                      | Lake Erie Marshes Focus Plan                | 54 | <b>ONGOING</b>          |
| H-14                      | Shoreline Erosion Structures                | 55 | <b>ONGOING</b>          |
| H-15                      | Exotic Plant Eradication                    | 56 | <b>ONGOING</b>          |
| H-16                      | Beach Conservation Management               | 57 | <b>ONGOING</b>          |
| H-17                      | Lake Erie Educational Program               | 57 | <b>ONGOING</b>          |
| H-18                      | Wetland Protection Inventory                | 58 | <b>ONGOING</b>          |
| <b>Biological</b>         |   |    |                         |
| B-1                       | Ohio Aquatic Nuisance Species Plan          | 60 | <b>ONGOING</b>          |
| B-2                       | Biological Diversity Strategic Plan         | 61 | <b>ONGOING</b>          |
| B-3                       | Bald Eagle Management                       | 62 | <b>ONGOING</b>          |
| B-4                       | Rare Species Restoration                    | 63 | <b>ONGOING</b>          |
| B-5                       | Index of Biotic Integrity Development       | 64 | <b>ONGOING</b>          |
| B-6                       | Lake Erie Quality Index                     | 65 | <b>ONGOING</b>          |
| <b>Coastal Recreation</b> |   |    |                         |
| CR-1                      | Coastal Parcel Acquisition                  | 66 | <b>ONGOING</b>          |
| CR-2                      | Hiking and Biking Paths                     | 67 | <b>ONGOING</b>          |
| CR-3                      | Lake Erie Underwater Sanctuaries            | 68 | <b>ONGOING</b>          |
| <b>Boating</b>            |   |    |                         |
| BT-1                      | LEQI Boat Dockage Objective                 | 69 | <b>ONGOING</b>          |
| BT-2                      | LEQI Launching Facility Objective           | 70 | <b>ONGOING</b>          |
| BT-3                      | State Launching Facility Evaluation         | 71 | <b>ONGOING</b>          |
| BT-4                      | Ohio Fuel Tax Review                        | 72 | <b>ONGOING</b>          |
| BT-5                      | Online Boater Registration                  | 72 | <b>COMPLETE</b>         |
| BT-6                      | Increase State & Local Law enforcement      | 73 | <b>ONGOING</b>          |
| <b>Fishing</b>            |   |    |                         |
| F-1                       | Special Protection Areas                    | 74 | <b>ONGOING</b>          |
| F-2                       | Sturgeon, Muskie & Northern Pike Fisheries  | 74 | <b>ONGOING</b>          |
| F-3                       | Offshore Artificial Reefs                   | 75 | <b>ONGOING</b>          |
| F-4                       | LEQI Shoreline Fishing Objective            | 75 | <b>ONGOING</b>          |
| F-5                       | State Fishing Facility Evaluation           | 76 | <b>ONGOING</b>          |
| F-6                       | Fish Consumption Advisory Information       | 76 | <b>ONGOING</b>          |
| F-7                       | Portable Fishing Education Program          | 77 | <b>ONGOING</b>          |
| F-8                       | "Smart" Ice Fishing Guidebook               | 77 | <b>NOT YET UNDERWAY</b> |

**Beaches**

|       |   |    |                |
|-------|---|----|----------------|
| BCH-1 | LEQI Beach Availability Objective       | 78 | <b>ONGOING</b> |
| BCH-2 | State Beach Evaluation                  | 79 | <b>ONGOING</b> |
| BCH-3 | Beach Sponsorship & Stewardship Program | 79 | <b>ONGOING</b> |

**Tourism**

|     |                               |    |                |
|-----|-------------------------------|----|----------------|
| T-1 | Ecotourism                    | 80 | <b>ONGOING</b> |
| T-2 | Great Lakes Cruising Industry | 81 | <b>ONGOING</b> |
| T-3 | Lake Erie Circle Tour         | 81 | <b>ONGOING</b> |

**Shipping**

|     |                                  |    |                |
|-----|----------------------------------|----|----------------|
| S-1 | Ship Ohio Program                | 82 | <b>ONGOING</b> |
| S-2 | Great Lakes Support of Shipping  | 82 | <b>ONGOING</b> |
| S-3 | Intermodal Transportation Access | 83 | <b>ONGOING</b> |

# WATER QUALITY

**WQ-1** Promote the acceptance by all Great Lakes states of the standardized Great Lakes protocol for the determination of fish consumption advisories by 2001. *ODH, ODNR, OEPA*

**ACTION COORDINATOR: Dr. Deborah Arms; Chief, Division of Prevention – ODH**

| Year | Agency                | Action  | Status   |
|------|-----------------------|---|--|
| 1994 | ODH,<br>ODNR,<br>OEPA | All agencies agreed to adopt the Great Lakes Protocol with minor modification. This was first applied to Lake Erie in 1994, and subsequently adopted for all Ohio water bodies. | Ohio was one of the first states to adopt principles of the Great Lakes Protocol.<br>Complete. |

| <b>WQ-2 Support efforts to communicate fish consumption advisories with the public. Reach out to the majority of the Ohio fishing population with this information by 2001. ODH</b> |                 |   |  |
|---|-----------------|---|--|
| <b>ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA</b>   |                 |   |  |
| <b>Year</b>   | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>  |
| 2004  | OEPA, ODNR      | Advisory cards will again be printed and distributed.   | Ongoing  |
| 2004  | OEPA, ODNR      | OEPA updates advisories and website.  | Ongoing  |
| 2003-04   | LEC             | Lake Erie Protection small grant was awarded to Ohio Environmental Council to assist in outreach to sensitive populations in the Lake Erie basin.     | Ongoing  |
| 2003  | OEPA            | Printed advisory cards with cooking advice and “Do Not Eat” locations for ODNR to distribute with fishing licenses.                                   | Complete   |
| 2003  | OEPA            | Created an interactive website to provide information on fish consumption advisories, identifying fish, how to cook fish to minimize risk, etc.       | Complete   |
| 2002  | OEPA            | OEPA assumed duty of maintaining Ohio Sport Fish Tissue Monitoring Program.   | Ongoing  |
| 2000  | ATSDR, LEC, ODH | Promotional souvenir magnets and posters distributed by Lake Erie Commission Office to north shore school systems as part of environmental education. | Improved outreach to children and their families. Complete               |
| 2000  | ODH             | Promotional posters displayed through State of Ohio Library System.   | Improved outreach to general public. Complete                            |
| 2000  | ODH             | Souvenir magnets made available at the ODH Ohio State Fair Display Booth.   | Improved outreach to the general public. Complete                        |
| 1999  | ODH             | Advisories distributed through the Ohio Environmental Council.  | Improved outreach to watershed groups and subsistence fishermen. Ongoing |
| 1999  | ODH             | Advisories distributed through Women’s Health, WIC, and Help Me Grow Programs.  | Improved outreach to sensitive populations. Ongoing                      |
| 1999  | LEC, ODH        | Lake Erie Commission Office volunteered to distribute advisories.   | Improved outreach to Lake Erie anglers. Ongoing                          |
| 1999  | ODNR, ODH       | ODNR agreed to disseminate advisories through their distribution system.  | Improved outreach to general public. Ongoing                             |
| 1999  | ODH             | Established mailing list based on advisory inquiries.   | Improved outreach to general public. Ongoing                             |

**WQ-2 Continued**

|      |                  |   |  |
|------|------------------|---|--|
| 1999 | ODH              | Established toll-free telephone number to receive advisory inquiries.   | Improved outreach to general public. Ongoing     |
| 1998 | ODH              | Advisories distributed through National Technical Association of Black Envoys and the Native American Indian Council. | Improved outreach to minorities. Ongoing         |
| 1998 | ODH              | Advisories distributed through Ohio River Lockmasters.  | Improved outreach to Ohio River anglers. Ongoing |
| 1998 | ODH, OEPA, USEPA | Advisory information posted on all three web sites.   | Improved outreach to general public. Ongoing     |

**WQ-3 Prioritize funding for research concerning the bioaccumulation of contaminants and their pathways, and health impacts to humans and wildlife. OEPA, ODH, Lake Erie Commission, Ohio Sea Grant**

**ACTION COORDINATOR: Lake Erie Office/Commission**

| Year    | Agency              | Action   | Status   |
|---------|---------------------|--|--|
| 2003    | LEC, Ohio Sea Grant | Continued to compare and coordinate priorities and funding available from Ohio Sea Grant and the Lake Erie Protection Fund to achieve needed information on bioaccumulation and contaminants in the environment.   | Ongoing  |
| 2000-04 | OEPA                | As research or additional monitoring was identified as needed to make management decisions, OEPA has contacted researchers with expertise in that particular area to collaborate on developing a project. OEPA then assisted the researchers by helping to find funding. | Results of projects allow determination of use impairments, where sediment remediation is needed and where there may still be ongoing sources of contaminants. Ongoing |
| 2000    | LEC                 | Lake Erie Protection Fund grant (\$77K) awarded to The Ohio State University for project "Food Web and Feeding Influences on PCB Bioavailability". Will investigate contaminant bioaccumulation in zebra mussel – round gobies pathway.                                  | Results expected in 2004.  |
| 2000    | LEC                 | Lake Erie Protection Fund (LEPF) grant (\$52K) awarded to Wright State University for project "Developing the Bald Eagle as a Lake Erie Biosentinel". Determined contaminant trends in bald eagle tissue samples from 1994-1997.   | Complete   |
| 2000    | LEC                 | Cooperative project between OSU and OEPA to assess contaminants in snapping turtles.   | Complete   |
| 1999-03 | OEPA                | Assessed background sediment contaminant concentrations in streams in the Lake Erie basin.   | Complete   |

**WQ-4 More strongly support efforts to assess and address contaminated sediments. Consider sediment remediation as part of overall environmental improvement and as a cross program issue – not as a separate topic. OEPA, ODH**

- **Establish standardized criteria by which to evaluate sites in the Lake Erie watershed.**
- **Continue to support weight of evidence approach to prioritize sites in the Lake Erie watershed.**
- **Continue to expand assessments to include ecological risks as well as human health factors.**

**ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA**

| <b>Year</b> | <b>Agency</b>                  | <b>Action</b>  | <b>Status</b>  |
|-------------|--------------------------------|--|--|
| Ongoing     | OEPA                           | Continue efforts to develop a long term management plan for maintenance dredging of the Toledo Harbor ship channel.  | Many partners cooperating and many options being evaluated.  |
| 2003        | OEPA                           | Developed guidance for determining the reuse of dredged sediment for beach nourishment (building).   | Draft guidance developed.  |
| 2002        | USEPA                          | Congress passed the Great Lakes Legacy Act to assist in the remediation of contaminated sediments in Great Lakes Areas of Concern.   | \$10 million appropriated for 2004. City of Toledo applied for \$1 million to dredge Ottawa River. |
| 2002-03     | OEPA                           | Conducted sediment and fish tissue assessment of the Old Channel of the Cuyahoga River.  | Complete   |
| 2002-03     | OEPA                           | Evaluated existing biocriteria reference site surficial sediment data to determine regional reference values for metals concentrations in sediment.  | Complete   |
| 2002        | LEC                            | Lake Erie Protection Fund grant (\$10K) awarded to the Ohio State University Research Foundation to establish beach profiles and the seaward limit of disturbance along the Lake Erie shoreline. This information will help to constrain the amount of contaminated sediments that may be suspended in the water column. | Complete   |
| 2002        | OEPA, USGS, USEPA, Env. Canada | As part of the Lake Erie Lakewide Management Plan (LaMP), mapped and evaluated surficial sediment and fish tissue data in Lake Erie proper and tributary/harbor areas.   | Sediment data has been mapped. Fish tissue mapping is still ongoing.                               |
| 2001-03     | OEPA                           | OEPA has developed ecological risk assessment guidance that includes sediment screening criteria to determine when remedial action may be needed.  | Completed for the VAP program.   |

**WQ-4 Continued**

|      |      |  |          |
|------|------|--|----------|
| 2001 | OEPA | Adopted updated sediment sampling methods manual into Agency procedures and put up on web site. Use of common methods by all collecting sediment samples, either within or outside the agency will result in comparable results. | Complete |
|------|------|--|----------|

**WQ-5 Create information clearinghouse for all Ohio Lake Erie contaminant sediment and fish tissue data by 2003. OEPA**

**ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>   | <b>Status</b>  |
|-------------|---------------|---|--|
| 2003        | OEPA          | Continued to enter sediment and fish tissue data into a common agency database.   | Updated sediment and fish tissue databases.<br>Ongoing |
| 2002        | OEPA          | As part of the USGS National Water Quality Assessment Program (NAWQA), and the Lake Erie LaMP, USGS has collected much existing sediment and fish tissue data for the Lake Erie Basin into a common database for use in GIS mapping. OEPA is working with them to coordinate and expedite entering additional data. | Ongoing  |

**WQ-6 Implement laws and rules for new permitting requirements and operation of private home septic systems. ODH, Ohio General Assembly**

- Require permits to install and operate home septic systems.
- Require operational assessments of new and existing home septic systems.
- Establish funding mechanisms at both state and local levels to cover costs of sewage disposal program activities.
- Support additional use of existing OEPA Division of Environmental & Financial Assistance funding programs for replacement or upgrades of malfunctioning home sewage systems.

**ACTION COORDINATOR: Deborah Arms; Chief, Division of Prevention – ODH**

| <b>Year</b> | <b>Agency</b>          | <b>Action</b>  | <b>Status</b>   |
|-------------|------------------------|--|---|
| 2003        | ODH                    | ODH staff met with a number of local health departments to discuss procedures for review of experimental sewage treatment systems.   | Increased numbers of local health departments have submitted and have been approved for use of new sewage treatment technologies (e.g. mounds, drip irrigation, ET systems).  |
| 2003        | ODH, ODNR, SWCDs, NRCS | ODH, in conjunction with ODNR, SWCDs, and NRCS, has offered annual field soil identification training sessions for local health department sanitarians.  | Over 100 local health department sanitarians have received this hands-on specialized soil training which will assist local health departments perform better site/soil evaluations regarding proposed sewage treatment systems. |
| 2003        | OEPA                   | WPCLF linked deposit financing of up to \$2 million to Seneca County to create low interest loans to homeowners for upgrades and replacements.   | Ongoing   |
| 2003        | OEPA                   | OEEF award provided \$2476 to train 160 home septic system installers in Defiance, Fulton, Henry and Williams Counties on efforts by 18 health districts to align their regulatory requirements and specifications.                | Ongoing   |
| 2003        | OEPA                   | OEEF award provided \$2555 for workshop for installers and inspectors of small package plant wastewater treatment systems in Geauga and surrounding counties on operation and maintenance at facilities such as mobile home parks. | Ongoing   |

**WQ-6 Continued**

| <b>Year</b>      | <b>Agency</b>                       | <b>Action</b>  | <b>Status</b>   |
|------------------|-------------------------------------|--|---|
| 2003             | ODH,<br>Ohio<br>General<br>Assembly | Introduction of House Bill 231 regarding comprehensive changes to state and local sewage treatment programs, including state oversight of local programs, funding mechanisms for both state and local programs, and use of new technology in conducting programs.  | Bill passed by Ohio House of Representatives in May 2004.   |
| 2002-<br>Ongoing | ODH,<br>OEPA                        | ODH in conjunction with OEPA and local health districts continued to provide information on funding sources for upgrading or replacement of malfunctioning sewage systems.   | Ongoing   |
| 2002-03          | ODNR                                | Contracted through sub-grant with Cuyahoga County Board of Health to conduct inspections of home sewage treatment systems, conduct water quality monitoring in local streams, and provide education within priority watersheds.  | Inspections of home sewage treatment systems, water quality monitoring in local streams conducted, and education within priority watersheds provided. Complete  |
| 2002             | LEC                                 | Lake Erie Protection Fund grant (\$50K) awarded to Toledo Metropolitan Council of Governments (TMACOG) to complete a GIS-based inventory of home septic systems in Lucas and Wood counties.  | Results expected in 2005.   |
| 2002             | ODH                                 | Survey conducted of local health district programs for operation and maintenance of private sewage systems.  | Results of survey provided to all health districts for consideration of possible implementation by those districts not conducting such a program. Results of survey have also been published in a nationally recognized sewage program journal. |
| 2000-03          | OEPA                                | Financing to Seneca County of \$575,000 in grants and \$106,000 in WPCLF loans allowed 91 system upgrades and replacements through the local revolving loan program.   | Complete  |
| 2000-01          | ODH                                 | ODH cooperated with the OEPA in the development of a draft National Pollutant Discharge Elimination System (NPDES) General Permit for discharges from household sewage disposal systems. Adoption of this permit will allow better control of discharges to the waters of the State from these types of systems. | Permit on hold pending passage of HB 231.   |

**WQ-6 Continued**

| <b>Year</b> | <b>Agency</b>              | <b>Action</b>   | <b>Status</b>  |
|-------------|----------------------------|---|--|
| 2000-01     | ODH                        | Coordinated with OEPA and local health districts in providing information on potential funding sources for upgrading or replacement of malfunctioning sewage systems. An information handout on funding sources was developed by ODH for distribution to interested persons.      | Information on funding sources has been made available to homeowners that need to repair or replace individual sewage systems.     |
| 2000-01     | ODH                        | Reviewed and drafted revisions to the state minimum sewage code. Input was gathered from all interested parties through a series of public meetings held around the state.  | Based on an Agency decision, the current sewage rules, with no changes, were presented and re-authorized by Public Health Council. |
| 2000        | ODH, Ohio General Assembly | Introduction of Senate Bill 105 regarding comprehensive changes to state and local sewage treatment programs, including operational assessments of systems, funding mechanisms for programs, state oversight of local programs, and use of new technology in conducting programs. | SB 105 passed the Ohio Senate by a 31 to 1 vote but failed to be passed by the Ohio House of Representatives.                      |

**WQ-7 Assist each Lake Erie watershed county in establishing a self-supporting House Bill 110 inspection program by 2003. OEPA, Lake Erie Commission**

- **Require biennial inspections for semi-public sewage treatment facilities.**

**ACTION COORDINATOR: Lake Erie Office/Commission**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>   | <b>Status</b>   |
|-------------|---------------|---|---|
| Ongoing     | LEC           | The LEC will encourage counties in the Lake Erie watershed that have not yet implemented House Bill 110 programs to compete for Lake Erie Protection Fund support or other grant fund support to do so. | Ongoing   |
| 1999-00     | LEC           | Lake Erie Protection Fund grants awarded to Ashtabula and Summit counties to implement House Bill 110 programs to establish self-supporting semi-public sewage treatment facility inspection programs.  | Grants instituted inspection programs in Ashtabula and Summit counties. |

**WQ-8 Declare Ohio's portion of Lake Erie a "No Discharge Zone" by 2003. ODNR, ODH****ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft – ODNR**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>  | <b>Status</b> |
|-------------|---------------|--|---------------|
| 2001-02     | ODNR          | ODNR coordinated with Ohio Sea Grant to collect data on effects of overboard sewage discharged from boats and update the current inventory of locations, condition and cost to use the facilities. The survey also included a summary of the number of boats w/pump-outs, M.S.D.s (Marine Sanitary Devices) and port-a-potties. These actions provided direction for application for a "No Discharge Declaration" from the U.S. Environmental Protection Agency. | Complete      |
| 2001-02     | ODNR          | Successfully completed 1999, 2000 & 2001 Clean Vessel Act grant cycles. Received federal funds each year for both public and private facility additions and improvements. Ohio is continuing to work towards a goal of 75% of marinas and launch ramps having disposal facilities.   | Ongoing       |
| 2001        | ODNR          | Updated Lake Erie Coastal Clean Vessel Act plan. Document titled: "Ohio's Plan for Proper Disposal of Marine Sewage." Plan improved the definition of needs, target areas or determined the "voids" in coverage, geographic areas of concern.  | Complete      |
| 2000-04     | ODNR          | All actions taken towards meeting U.S. EPA's guidelines to obtain a "No Discharge Zone" declaration.   | Ongoing       |
| 2000        | ODNR          | Completed a survey of existing private and public facilities including pump-outs & dump stations on Lake Erie. ODNR has an inventory and database of existing facilities, with the condition of some geographically referenced. The public facilities are in a document titled: "Ohio's Public Boating Facilities."  | Complete      |

**WQ-9 Fully implement new state law mandating posting of swimming advisories at Ohio beaches. ODH, ODNR**

**ACTION COORDINATOR: Deborah Arms; Chief, Division of Prevention – ODH**

| Year    | Agency | Action  | Status   |
|---------|--------|---|----------|
| 2003-04 | ODH    | The Department of Health conducted the beach monitoring along Lake Erie in 2003 using funding from the US EPA grant. Additionally, US EPA grant funding has been awarded to the department for monitoring, notification and reporting activities in 2004. Results and other pertinent information was made available to the public through the ODH website, contact with the monitoring program, and through the media. Funding was made available to local health departments along the Lake to assist in conducting their own beach monitoring efforts. The funding was also instrumental in assisting one local health district in the development of a model code for the regulation of public beaches.         | Ongoing  |
| 2002    | ODH    | New state law continued to be fully implemented. With the assistance of a grant from USEPA, two college interns hired to sample water from public beaches on Lake Erie. All state-owned and several other heavily used beaches, for a total of 20, are sampled 4 times per week for <i>E. coli</i> . Real-time information available to the public either through the ODH website or through contact with the beach monitoring program. A larger number of primary public beaches on Lake Erie sampled more frequently for bacterial contamination. Increased staffing also allowed for better identification of potential pollution sources, which is of assistance to local planners and public health officials. | Complete |
| 2001    | ODH    | New state law fully implemented by ODH. Interns hired from regional offices in Akron and Toledo to sample 17 Lake Erie beaches twice per week. The samples were immediately cultured for <i>fecal coliform</i> bacteria. Upon receiving unacceptable bacterial counts, beach managers were immediately notified and beach advisory signs immediately posted. Signs remain posted until a satisfactory reading is obtained. Phone lines and web sites designed to give up-to-date bacterial levels to the general public.  | Complete |

**WQ-10 Establish Internet based forecasting system for presenting bacterial levels and beach advisories at state beaches to provide timely and accurate warning to citizens by 2003. ODH, Lake Erie Commission**

**ACTION COORDINATOR: Lake Erie Office/Commission**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>  | <b>Status</b>             |
|-------------|---------------|--|---------------------------|
| 2003        | LEC           | Lake Erie Protection Fund grant (\$94K) awarded to USGS to test and refine statistical models for Huntington Beach and compare them to current methods for determining water quality. The study will also develop predictive models for Lakeview and Century Beaches for use in the internet based forecasting system.   | Results expected in 2005. |
| 2003        | US EPA        | As part of a national beach research effort by EPA, Huntington Beach will be studied to develop a new generation of DNA-based water quality tests that provide same-day results and can be used to reduce the risk of waterborne illness among beachgoers.   | Results expected in 2005. |
| 2000        | LEC           | Lake Erie Protection Fund grant (\$148K) awarded to US Geological Survey (Donna Francy) and OSU (Keith Bedford) to begin process of completing extensive modeling of 3 beaches (Huntington, Edgewater, and Euclid) to construct predictive models of bacterial contamination as a function of past and prevailing meteorological conditions. Access to this model will be incorporated into the Great Lakes Forecasting System. This project will hopefully serve as the prototype for a future system that will provide predictions for all major Ohio Lake Erie beaches. | Complete                  |

**WQ-11 Development of technologies and field studies to identify and trace sources of local bacterial contamination. ODH, OEPA, Lake Erie Commission, Ohio Sea Grant**

**ACTION COORDINATOR: Deborah Arms; Chief, Division of Prevention – ODH**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>   | <b>Status</b>             |
|-------------|---------------|---|---------------------------|
| 2003        | LEC           | Lake Erie Protection Fund grant (\$49K) awarded to the Cuyahoga County Board of Health to conduct household sewage treatment system (HSTS) inspections and water quality monitoring throughout the county to determine nonpoint sources of pollution and bacterial contamination. | Results expected in 2005. |
| 2002        | LEC           | Lake Erie Protection Fund grant (\$50K) awarded to TMACOG to complete a GIS inventory of septic systems. The project will also identify the highest priorities for field investigation and further documentation so that failed systems may be eliminated.                        | Results expected in 2005. |
| 1999        | LEC           | Lake Erie Protection Fund grant (\$7K) awarded to Medical College of Ohio to identify sites throughout northwest Ohio contaminated with pathogenic microorganisms found in fecal droppings of giant Canada geese.   | Complete                  |

**WQ-12 Publicize availability of drinking water quality information through OEPA drinking water web sites. OEPA**

- [www.epa.gov/safewater](http://www.epa.gov/safewater)
- [www.epa.gov/enviro/html/ef\\_overview.html](http://www.epa.gov/enviro/html/ef_overview.html)
- [www.epa.state.oh.us/ddagw/](http://www.epa.state.oh.us/ddagw/)

**ACTION COORDINATOR: Mike Baker; Chief, Division of Drinking and Ground Water – OEPA**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>   | <b>Status</b>   |
|-------------|---------------|---|---|
| 2003        | OEPA-DDAGW    | The Ohio EPA has completed 16 of 25 source water assessment and protection (SWAP) reports for public water systems that use Lake Erie as a source of their drinking water. These SWAPs provide public water system officials and the general public additional information to protect their source of drinking water.   | The status of completing the reports can be found at the URL as follows: <a href="http://www.epa.state.oh.us/ddagw/pdu/swap_update.html">www.epa.state.oh.us/ddagw/pdu/swap_update.html</a> . |
| 2002        | OEPA-DDAGW    | The Ohio EPA updated its web page to include more detailed information concerning public water system consumer confidence reports and their report distribution requirements. <a href="http://www.epa.state.oh.us/ddagw/ccr.html">www.epa.state.oh.us/ddagw/ccr.html</a>  | Complete  |
| 2001-02     | OEPA-DDAGW    | Completed Ohio's Public Water System Annual Compliance Report for 2000 and 2001. Both reports are available on the division's web site. <a href="http://www.epa.state.oh.us/ddagw/annualreports.html">www.epa.state.oh.us/ddagw/annualreports.html</a>  | Complete  |
| 2000        | OEPA-DDAGW    | September 27 <sup>th</sup> , 2000 Agency News Release of availability of Public Water System Annual Compliance Report for 1999. Reference Ohio EPA web site in News Release and report has reference to USEPA EnviroFacts web site.   | Complete  |
| 1999-01     | OEPA-DDAGW    | During October 1999 and May of 2001, the Agency issued News Releases of availability of Community Public Water System Consumer Confidence Reports. Consumer Confidence Reports are annual drinking water quality reports prepared by public water systems and distributed to all their consumers. USEPA maintains a web site that has links to annual reports for all water systems serving greater than 100,000 consumers. It is voluntary for smaller systems to link their reports to this site. Both News Releases referenced OEPA and USEPA consumer confidence report web site addresses: <a href="http://www.epa.state.oh.us/ddagw/ccr.html">www.epa.state.oh.us/ddagw/ccr.html</a> <a href="http://www.epa.gov/safewater/ccrl.html">www.epa.gov/safewater/ccrl.html</a> | Complete  |

**WQ-13 Collaborate with federal, local, and private organizations in establishing monitoring stations and regular sampling schedules that include offshore and nearshore stations for water clarity, water chemistry and biological sampling by 2001. OEPA, ODNR, Ohio Sea Grant**

**ACTION COORDINATOR: Lake Erie Office/Commission**

| Year | Agency | Action   | Status                    |
|------|--------|--|---------------------------|
| 2003 | LEC    | Lake Erie Protection Fund grant (\$50K) awarded to University of Toledo to monitor water quality in the western basin, particularly Maumee Bay.  | Ongoing                   |
| 2002 | LEC    | Lake Erie Protection Fund grant (\$10K) awarded to Heidelberg College to study hypoxia effects on burrowing mayflies by continuing to sample stations throughout the western and central basins. | Results expected in 2004. |

**WQ-14 Support efforts that assist in restoring and protecting all the beneficial uses to Ohio's four Areas of Concern (AOC). OEPA\***

**ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA**

**\*Although Ohio EPA is listed as the responsible agency, most actions are the combined efforts of the Remedial Action Plan (RAP) partners/stakeholders. This list does not represent a complete list of the many actions implemented or plan to restore Ohio's four Areas of Concern.**

| Year    | Agency | Action   | Status   |
|---------|--------|--|----------|
| 2003    | OEPA   | Prepared Ashtabula Project Cooperation Agreement to designate lands, easements, rights-of-way, etc. resulting in final bid and specifications package for Ashtabula River dredging.              | Ongoing  |
| 2003    | USEPA  | Remediation of Fields Brook Superfund site, a prerequisite to dredging the Ashtabula River.  | Complete |
| 2002-04 | OEPA   | Natural Resource Damage Assessment for Ashtabula River.  | Ongoing  |
| 2002    | OEPA   | With the US Army Corps of Engineers and the Ashtabula River Partnership, released the final Comprehensive Management Plan/EIS for dredging contaminated sediment from the Ashtabula River.       | Complete |
| 2001-04 | OEPA   | Final design of dredging project, dewatering site, disposal site, dewatering tests, bulkhead study, additional sediment analysis, monitoring requirements, etc. for Ashtabula River remediation. | Ongoing  |
| 2000-04 | OEPA   | Grant from OEEF (\$103,794) to fund Ashtabula "Waterways Adventure" program to raise water quality and watershed awareness.  | Ongoing  |

**WQ-14 Continued**

| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>   |
|-------------|-----------------|--|---|
| 2004        | Black River RAP | Submitted an application to U.S. EPA to have the fish tumor and deformities status in the river changed from "impaired" to "in recovery."  | U.S. EPA approved request in April 2004.  |
| 2003        | OEPA            | Corps of Engineers sediment transport study of the Black River.  | Ongoing   |
| 2003        | OEPA, ODH       | Improvements to sediment quality and fish tumor incidence led ODH to conduct risk assessment of contact advisory currently in effect in the lower Black River.   | Advisory was lifted April 22, 2004.   |
| 2002-04     | OEPA            | Coordinated with the Corps of Engineers to conduct an inventory study of French Creek (Black River watershed) and produce an owners' manual entitled "Living Along French Creek". The manual is being used to initiate a sub-watershed restoration/implementation plan within the Black River AOC. | Study and Manual are complete. Outreach efforts to begin sub-watershed initiative have begun. |
| 2002-04     | OEPA            | Coordinated with the Corps of Engineers and Lorain Co. Health District to implement pilot project along a targeted section of the Black River to implement a surveillance, operation and maintenance program for home sewage treatment systems (HSTS).   | Ongoing   |
| 2001-03     | OEPA            | Water Resource Restoration Sponsor Program (WRRSP) award of \$1,730,000 on the East Fork of the East Branch of the Black River for restoration of stream banks, in stream and riparian habitat restoration and land acquisition.   | Complete, but expected restoration of beneficial use will take more time.                     |
| 2001-03     | OEPA            | Construction of a fish habitat shelf at the Black River Landing brownfield redevelopment site. The structure has shown dramatic improvement to the number of fish and the fish community diversity.  | Complete  |
| 2001-03     | OEPA            | 319 funded project in the Black River AOC to demonstrate the use of precision farming in lessening agricultural NPS impacts, identify areas of failing onsite septic systems, assist local health departments in implementing an HSDS maintenance and inspection program and ten outreach events.  | Complete  |
| 2001-02     | OEPA            | Coordinated 2-year comprehensive DO modeling effort of the lower Black River with several government agencies and the four major dischargers to that segment of the river.   | Final report expected in 2004.  |
| 2000-03     | OEPA            | OEEF grant provided \$67,028 to incorporate the Black River RAP issues and efforts into a water resources curriculum for Lorain County students.   | Ongoing   |

**WQ-14 Continued**

| <b>Year</b> | <b>Agency</b>                       | <b>Action</b>  | <b>Status</b>  |
|-------------|-------------------------------------|--|--|
| Ongoing     | Cuyahoga County Planning Commission | Completed County Greenspace Plan and is developing Cuyahoga Valley Initiative to identify zoning and ordinance modifications for future development and protection.  | Ongoing  |
| 2004        | OEPA                                | RAP is participating in the Tinkers Creek Stressor ID study identified in TMDL.  | Ongoing  |
| 2003        | OEPA                                | Stream restoration project along Mill Creek in Highland Hills in Cuyahoga AOC  | Complete   |
| 2003        | OEPA                                | Created "RAP Guide to Understanding TMDL" for local citizens and elected officials (Cuyahoga).   | Complete   |
| 2003        | USACE                               | Navigation Channel Habitat Feasibility study to identify habitat restoration techniques and opportunities in the navigation channel.   | Completed. Efforts underway to implement some of the proposed techniques.  |
| 2003        | USACE                               | Sediment transport model data collected for Cuyahoga.  | Model development underway.  |
| 2003        | OEPA                                | Scientific Outreach and Application using Remote Sensing (SOARS) project studied urban sprawl over 25-year period and impacts on the entire Cuyahoga watershed. Excellent maps produced.                           | RAP is planning workshops using SOARS maps to assist local communities in using appropriate BMPs to reduce runoff and NPS pollution. |
| 2003        | OEPA                                | Pond Brook Streamside Vegetation Project   | Complete   |
| 2002-25     | OEPA                                | Support funding/plans to reduce/eliminate CSOs and SSOs in the Cuyahoga River AOC. LCTP have been approved for Akron and Cleveland.  | Ongoing  |
| 2002-05     | OEPA                                | Developed and support tributary watershed groups in Yellow Creek, West Creek, Mud Brook and Chippewa Creek with goal of establishing watershed councils to develop and implement watershed restoration strategies. | Ongoing  |
| 2002-03     | OEPA                                | Implemented GLNPO grant to assess extent of sediment contamination and fish tumors in the Old Channel of the Cuyahoga River.   | Complete   |
| 2002-03     | OEPA                                | Stearns Farm stream and wetland restoration project along West Creek   | Complete   |
| 2002        | OEPA                                | Wetland restoration along West Creek   | Complete   |
| 2001-05     | OEPA                                | TMDLs underway for the Middle, Lower and Upper Cuyahoga River.   | TMDLs for Middle and Lower Cuyahoga have been approved by USEPA.   |
| 2001-03     | OEPA                                | LEPF grant identified wetlands in the Cuyahoga watershed to serve as basis to keep future mitigation for wetland destruction within the watershed.   | Maps complete.   |

**WQ-14 Continued**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>  | <b>Status</b>                          |
|-------------|---------------|--|--|
| 2001-03     | OEPA          | Held 3 workshops to educate local managers and elected officials on streamside/wetland restoration and enhancement techniques.   | Complete                               |
| Ongoing     | OEPA          | Continuation of very active public outreach and education program in the Maumee AOC.   | Improves public buy-in and support.    |
| 2003-05     | OEPA          | Work to coordinate development of the RAP and a TMDL for the Toussaint River (Maumee AOC).   | Ongoing                                |
| 2003-04     | OEPA          | "Give Water a Hand" multi-media public education campaign to alert folks to the importance of conservation, septic system maintenance and storm water management. (OEEF)               | Ongoing                                |
| 2003        | OEPA          | Produced "Considering Conservation Easements" brochure to promote conservation easements in the southern Lake Erie watershed.  | Complete                               |
| 2003        | OEPA          | Developed draft minimum State delisting targets and milestones for monitoring progress in restoring beneficial uses to Ohio AOCs.  | Final report expected in 2004.         |
| 2002-04     | OEPA          | Preparation of Stage 2/WAP report highlighting needed restoration and protection activities and plans for implementing them for the Lower Maumee.                                      | Ongoing                                |
| 2002-04     | OEPA          | GLNPO funded Ottawa River Sediment Remediation Priorities preparing for actual cleanup and qualifying for Great Lakes Legacy funds.  | Ongoing                                |
| 2002-03     | OEPA          | Preparation of Fate of a River video. (OEEF - \$48,785) Documentary of past, present state of the river and future needs. Aired on PBS stations and at many local venues. (Maumee RAP) | Video complete, presentations ongoing. |
| 2002        | OEPA          | Preparation of 10-year Progress report for Maumee RAP.   | Complete                               |
| 2002        | OEPA          | Prepared Stormwater Management Standards Manual to provide assistance to local communities in controlling/managing stormwater runoff.  | Complete                               |
| 2001-03     | OEPA          | Identification of wetlands in the Maumee AOC to be protected, enhanced, or expanded. Provide ready list for mitigation.  | Complete                               |
| 2001-03     | OEPA          | Continue implementation of Toussaint River improvement Incentive Program to promote set-asides, filter and buffer strips and conservation tillage practices.                           | Ongoing                                |

# POLLUTION SOURCES

| <b>PL-1</b>   | Rewrite all Ohio Lake Erie NPDES permits to comply with new Great Lakes Quality Initiative standards and Ohio anti-degradation standards by 2003. <i>OEPA</i> <ul style="list-style-type: none"> <li>• Enforce tighter compliance of approved permits.</li> </ul> |   |                              |
|---|---|---|------------------------------|
| <b>ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA</b> |   |   |                              |
| <b>Year</b>   | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>                |
| 2003  | OEPA  | Adoption of revised anti-degradation rules. Rules were adopted February 2003 and effective July 2003.   | Complete                     |
| 2003  | OEPA  | Continued to reissue NPDES permits consistent with the GLI and antidegradation.   | All permits updated by 2003. |
| 2003  | OEPA  | 16 DFFOs and 11 Consent Orders issued in Lake Erie Watershed. Statewide, \$829,048 in penalties was assessed with an additional \$488,150 in supplemental environmental projects. | Complete                     |
| 2002  | OEPA  | Statewide 29 Orders were issued. \$2,968,524 in penalties was assessed.   | Complete                     |
| 2001  | OEPA  | Instituted a tracking system to measure environmental improvement related to enforcement actions.   | Ongoing                      |

| PL-2    | <p>Expand efforts to reduce and substitute for the use of hazardous materials in industry and small business and provide technical assistance by 2002. <i>Ohio Environmental Education Fund, OEPA, Lake Erie Commission</i></p> <ul style="list-style-type: none"> <li>• Prioritize pollution prevention implementation and research for Lake Erie Protection Fund projects.</li> <li>• Set goal of 90% of watershed dischargers to have implemented P2 plans by 2015.</li> </ul> <p><b>ACTION COORDINATOR: Mike Kelley; Chief, Office of Pollution Prevention – OEPA</b></p> |  |  |
|---------|---|--|--|
| Year    | Agency  | Action   | Status                                   |
| 2003    | OEPA-OPP  | OPP review of <i>Ohio Prevention First</i> voluntary pollution prevention planning initiative to determine number of wastewater dischargers in the Lake Erie Basin portion of Ohio that have completed pollution prevention plans. | Review will be completed by end of 2004. |
| 2002    | OEPA  | OEEF award of \$16,357 to Bowling Green State University for mercury education and thermometer exchange program in 22 counties.  | Complete                                 |
| 2002    | OEPA  | OEEF award of \$11,707 to Small Business Assistance Office for BMP video for the vehicle salvage industry.   | Complete                                 |
| 2001-15 | OEPA-OPP  | OPP continues to provide pollution prevention technical assistance to wastewater dischargers and other facilities in the Lake Erie Basin portion of Ohio on an as requested basis.   | Ongoing                                  |

| <b>PL-3</b> Increase from 52% to 80% the percentage of agricultural acreage in the Lake Erie watershed under conservation tillage practices by 2010. <i>ODNR, OEPA, ODA</i><br><br><b>ACTION COORDINATOR: David Hanselmann; Chief, Division of Soil &amp; Water Conservation – ODNR</b> |                   |  |  |
|---|-------------------|--|--|
| <b>Year</b>   | <b>Agency</b>     | <b>Action</b>  | <b>Status</b>  |
| Ongoing   | CAP, SWCDs        | Organized 5 clusters (20 growers) of growers/dealers who are innovators and respected in their community to demonstrate new ideas, equipment, etc. to other growers in their vicinity. Yearly field days in each SWCD are held to provide forums to present state of the art conservation.   | Ongoing  |
| Ongoing   | SWCDs, NRCS, OSUE | Provide technical assistance to local growers on equipment, agronomic practices, and fertility management to increase acreage expansion of conservation tillage using new technologies (e.g., ridge till, strip till, compaction reduction methods).   | In 2002, approximately 2 million acres of corn and soybeans were under conservation tillage. |
| Ongoing   | SWCDs, NRCS, OSUE | Continue promoting local demonstrations in new technologies (e.g., ridge till, strip till, compaction reduction methods) that manage crop residue in a conservation tillage system.  | Ongoing  |
| 2003-04   | CAP, SWCDs        | Implementing a \$30K grant from the Great Lakes Basin Program for sediment and erosion control, "Reducing Soil and Nutrient Loss by Cutting Nitrogen Rates." The project will select 25 farmers to demonstrate cultural practices that reduce compaction and soil erosion, assess each farm to determine the demo practices and the potential for quality data, conduct workshops and showcase new technologies of field trials.   | Results expected in 2004.  |
| 2003  | LEC               | Lake Erie Protection Fund grant (\$98K) awarded to Conservation Action Project (CAP) for "Implementing Innovative Farming Practices that Reduce Soil Erosion." The project will select 25 farmers to demonstrate cultural practices that reduce compaction and soil erosion, assess each farm to determine the demo practices and the potential for quality data, conduct workshops and showcase new technologies of field trials. | Results expected in 2005.  |
| 2001-05   | SWCDs, OSUE       | Continue and expand opportunities in working through local chemical and grain dealers as links from industry/government to growers as CAP has done. Providing technical assistance to dealers to expand use of grid sampling and mapping.  | Ongoing  |

**PL-3 Continued**

|         |      |   |                           |
|---------|------|---|---------------------------|
| 2001-02 | LEC  | Lake Erie Protection Fund grant (\$85K) awarded to CAP to remedy problems of soil compaction experienced by conservation tillage practices. Project leases machinery, provides technical assistance to farm community, and collects detailed data on the effectiveness of specialized equipment and techniques. | Results expected in 2004. |
| 2000-03 | OEPA | WPCLF linked deposits of \$16,728,000 for agricultural BMPs in the Lake Erie watershed. Provided low interest financing for 540 loans.  | Ongoing                   |

| <b>PL-4</b> Establish buffers on 80% of Lake Erie watershed ditches, streams and tributaries.<br><i>ODNR, OEPA, ODA, Lake Erie Commission</i> <ul style="list-style-type: none"> <li>• Support Ohio Lake Erie Buffer Team Initiative.</li> <li>• Support initiatives that promote or fund the placement of buffers, including the Lake Erie Buffer Program and the Conservation Reserve Enhancement Program (CREP).</li> </ul> <b>ACTION COORDINATOR: David Hanselmann; Chief, Division of Soil &amp; Water Conservation – ODNR</b> |                   |  |   |
|---|-------------------|--|---|
| <b>Year</b>   | <b>Agency</b>     | <b>Action</b>  | <b>Status</b>   |
| 2003  | OEPA              | OEEF award of \$42,612 for Ohio Greenways initiative to assist local officials with responsibility for open space decision making to select, define and fund projects that will maximize ecological and community benefits.  | Ongoing   |
| 2001  | ODNR-DSWC         | The Ohio Farm Bureau Federation has coordinated the development of a Core 4 Conservation Alliance. The Ohio Agricultural Environmental Assurance Alliance was established in October 2001 for the purpose of developing an environmental self-audit program for Ohio's agricultural and horticultural commodities. The self-audit program will promote the benefits of Core 4 Conservation (better soil, cleaner water, greater profits, and brighter future) from the perspective of assessing the risk to several natural resource issues. | Ongoing   |
| 2001-ongoing  | ODNR-DSWC         | Additional funds will be contracted to SWCDs to continue signup and enrollment of the Ohio Lake Erie CREP. \$3,132,250 appropriated, with an additional \$21,040,920 of federal match dollars provided. Will be used to enter into an additional 2,000 land owner contracts and enroll an additional 13,400 acres of practices.  | 44,701 acres of new conservation buffers have been installed in the watershed since 1997. |
| 2000-05   | Multiple Agencies | Ohio Lake Erie Buffer Team established to market various government assistance programs – goal being to maximize installation of buffer acreage in Lake Erie watershed. Team consists of over 25 federal, state, local and private agencies and provides technical assistance to farmers in design & installation of buffers, extensive distribution of brochures, signage, and media spots on effectiveness of buffers.   | Ongoing   |

| <b>PL-5 Complete and begin implementing Ohio's Coastal Nonpoint Plan by 2000. OEPA, ODNR</b> <ul style="list-style-type: none"> <li>• Provide funding and technical resources to help meet the highest priority objectives and geographic target areas of the finished plan.</li> </ul> <b>ACTION COORDINATOR: David Hanselmann; Chief, Division of Soil &amp; Water Conservation – ODNR</b> |               |   |  |
|--|---------------|---|--|
| <b>Year</b>  | <b>Agency</b> | <b>Action</b>   | <b>Status</b>  |
| Ongoing  | ODNR          | Soliciting feedback on the Plan's 178 recommendations from various stakeholder groups.  | Ongoing  |
| 2002-03  | ODNR          | Coordinated with Division of Water and Heidelberg College Water Quality Lab to inventory agricultural water withdrawals and study water quality impacts of agricultural irrigation. GIS database developed for agricultural withdrawal/ irrigation. Research conducted to determine water quality significance of agricultural withdrawal/ irrigation within Lake Erie Watershed. | Complete   |
| 2002-03  | ODNR          | Coordinated with Wood County Engineers Office, Division of Wildlife, and OSU to demonstrate 2-stage drainage ditch construction that may provide water quality and habitat improvements while minimizing long-term ditch maintenance costs.   | Complete   |
| 2002-03  | ODNR          | Subcontract with OSU and private consultant to unify various land use/ hydrologic models and calibrate for local conditions.  | Complete   |
| 2002-03  | ODNR          | Contracted through sub-grant with Cuyahoga County Board of Health to conduct inspections of home sewage treatment systems, conduct water quality monitoring in local streams, and provide education within priority watersheds.   | Complete   |
| 2002   | ODNR          | Revised Division of Soil & Water Conservation Strategic Plan and incorporated CNPCP Plan elements.  | Complete   |
| 2002   | ODNR          | Submitted draft legal opinion to NOAA & USEPA as required by CNPCP conditional approval.  | Complete   |
| 2002   | ODNR          | Established CNPCP Management Measures as required implementation elements to watershed management with Lake Erie Watershed.   | Complete   |
| 2002   | ODNR          | Coordinated with TMACOG to incorporate CNPCP elements into 208 Plan.  | Complete   |
| 2002   | ODNR          | National Oceanic and Atmospheric Administration (NOAA) & USEPA granted "Conditional Approval" to Ohio's CNPCP. The conditions divided into 1-year and 2-year conditions.  | Ongoing. 1-year conditions met. Actively working with NOAA and USPEA to address 2-year conditions. |

**PL-5 Continued**

| <b>Year</b>      | <b>Agency</b> | <b>Action</b>   | <b>Status</b>   |
|------------------|---------------|---|---|
| 2002-<br>Ongoing | ODNR          | Coordinate with various agencies and marina industry to develop an Ohio Clean Marinas Program, a voluntary/incentive based program.   | Ongoing   |
| 2001-<br>Ongoing | ODNR          | Coordinate with DSWC field staff to provide technical assistance to local governments, watershed groups, and SWCDs.   | Ongoing   |
| 2001-<br>Ongoing | ODNR          | Coordinate with various agencies to implement policy-related elements of CNPCP.   | Ongoing   |
| 2001-02          | ODNR          | Facilitated distribution of Great Lakes Coastal Restoration Grant funds to state and local agencies for implementation of CNPCP.  | Implementation of CNPCP elements by local and state agencies. |
| 2000-<br>Ongoing | ODNR          | Actively publicizing the existence of the CNPCP Plan through organized meetings. Promoting usefulness of plan as a regional coordination mechanism.   | Ongoing   |
| 2000             | ODNR          | Coastal Nonpoint Pollution Control Program (CNPCP) available in electronic format from Division of Soil & Water Conservation web site. Executive Summary printed (also available on DSWC web site). | Complete  |

| PL-6  |        | Prioritize funding for implementation of soil conservation projects and research into new conservation practices. <i>Lake Erie Commission</i>  |                           |
|---|--------|--|---------------------------|
| ACTION COORDINATOR: Lake Erie Office/Commission |        |  |                           |
| Year  | Agency | Action   | Status                    |
| 2003  | LEC    | Lake Erie Protection Fund grant (\$10K) awarded to the Henry Soil & Water Conservation District to assist with the Henry County Wildlife Habitat Improvement Project. The goal of this program is to improve water quality and establish wildlife habitat by seeding buffer strips along streams and ditches in the county.  | Results expected in 2004. |
| 2003  | OEPA   | OEEF grant (\$16,198) to demonstrate solar powered watering system to prevent livestock from degrading streams and stream banks when they go to drink.   | Ongoing                   |
| 2002  | OEPA   | OEEF grant (\$46,320) to Ohio Farm Bureau Federation to implement Agricultural Environmental Assurance Program to help Ohio farmers conduct self-audits and incorporate results into conservation plans to reduce siltation and nutrient pollution of waterways.   | Ongoing                   |
| 2001  | LEC    | Lake Erie Protection Fund grant (\$85K) awarded to the Conservation Action Project, entitled <i>Securing Quality Data Using Farmer Clusters and Summer Interns</i> . Goal of project is to demonstrate and monitor new technologies available to address problems associated with conservation tillage for corn that have prevented more farmers from adopting conservation tillage practices. | Results expected in 2004. |

| <b>PL-7 Continue funding research and implementation into precision fertilizer application and other best management technologies. <i>Lake Erie Commission, ODA</i></b><br><b>ACTION COORDINATOR: Lake Erie Office/Commission</b> |               |  |                           |
|---|---------------|--|---------------------------|
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b>             |
| 2003-04   | CAP, SWCDs    | Implement a \$30K grant from the Great Lakes Basin Program for sediment and erosion control, "Reducing Soil and Nutrient Loss by Cutting Nitrogen Rates." The project will select 25 farmers to demonstrate cultural practices that reduce compaction and soil erosion, assess each farm to determine the demo practices and the potential for quality data, and conduct workshops and showcase new technologies of field trials.      | Results expected in 2004. |
| 2003  | LEC           | Lake Erie Protection Fund grant (\$98K) awarded to Conservation Action Project (CAP) for "Implementing Innovative Farming Practices that Reduce Soil Erosion." The project will select 25 farmers to demonstrate cultural practices that reduce compaction and soil erosion, assess each farm to determine the demo practices and the potential for quality data, and conduct workshops and showcase new technologies of field trials. | Results expected in 2005. |
| 2002  | LEC           | Lake Erie Protection Fund Grant (\$10K) awarded to Henry SWCD for project titled "One pass fall tillage with 30% residue & adequate seed bed preparation."   | Complete                  |

| <b>PL-8</b> Enact legislation to improve regulation for concentrated animal feed operations by 2001. <i>ODNR, ODA, OEPA</i> <ul style="list-style-type: none"> <li>• Encourage County Soil &amp; Water Conservation districts to educate livestock producers regarding requirements for concentrated animal feeding operations and all producers for meeting Best Management Practices (BMPs) requirements to minimize water quality impacts to meet the goals established under the federal Clean Water Act.</li> <li>• Formulate strategy to encourage implementation of best management practices on farms with less than 1,000 animal units.</li> </ul> <p><b>ACTION COORDINATOR:</b> Kevin Elder; Executive Director, Livestock Environmental Permitting Program- ODA</p> |                            |   |   |
|--|----------------------------|---|---|
| <b>Year</b>  | <b>Agency</b>              | <b>Action</b>   | <b>Status</b>   |
| Ongoing  | OLC, ODNR, ODA, OSUE       | Continued implementation of LEAP Level I and II Program for protection of water quality and management of odors, flies, rodents and other pests.  | Ongoing   |
| 2003   | ODA                        | Began seeking federal delegation authority for CAFO/NPDES permitting. Delegation authority request process begun August 2003.   | Ongoing   |
| 2003   | ODA                        | Changed state law and rules to meet federal requirements for uniformity in CAFO/CAFF regulations (new federal rules effective April 2003) and allow for delegation of CAFO/NPDES permitting authority.  | HB 152 signed August 2003 and became effective November 2003.     |
| 2002   | ODA                        | Began state-permitting all CAFFs and inspecting twice a year.   | Permitting program began August 2002.                             |
| 2001   | ODA                        | Developed rules for implementation of SB 141 for permitting CAFFs.  | Rules in effect August 2002.                                      |
| 2001   | ODA, ODNR, OEPA, OSUE, OLC | Formulated strategy to encourage and provide incentives for implementation of BMPs on farms with less than 1,000 A.U by assisting with the preparation of Comprehensive Nutrient Management Plans (CNMP).   | Livestock Environmental Assurance Program Level II begun in 2003. |
| 2000   | ODA, ODNR, OEPA, OLC, OSUE | Encouraged education of Livestock Producers regarding CAFO requirements and BMPs for minimizing impacts to Water Quality through Livestock Environmental Assurance Program Level I.   | LEAP I has provided education to more than 4,000 producers.       |
| 2000   | ODA, ODNR, OEPA            | Enacted legislation to improve regulations on concentrated animal feed facilities (CAFF) for protection of water quality and management of odors, flies, rodents and other pests. Legislation required the development of rules for issuing permits to install, permits to operate, inspection and enforcement procedures and transferred authority to permit CAFFs from Ohio EPA to OSA. | SB 141 became effective March 2001.                               |

| <b>PL-9 Clarify requirements and expand the number of sites eligible for Voluntary Action Program (Brownfields). OEPA</b><br><b>ACTION COORDINATOR: Cindy Hafner; Chief, Division of Emergency &amp; Remedial Response – OEPA</b> |               |  |               |
|---|---------------|--|---------------|
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b> |
| 2002  | OEPA          | Legislation adopted.   | Complete      |
| 2001  | OEPA          | Agencies worked with the General Assembly and the Taft Administration to pass the legislation and expand VAP eligibility.  | Complete      |
| 2001  | OEPA          | Agencies sought stakeholder input on draft legislation and incorporated changes satisfying stakeholders. Consensus legislation was redrafted.  | Complete      |
| 2000-01   | OEPA          | OEPA, the Ohio Attorney General's Office and the Ohio Department of Commerce prepared draft legislation to expand Voluntary Action Program (VAP) eligibility to include underground storage tank cleanups. | Complete      |

| <b>PL-10 Improve the hazardous waste cleanup program by developing uniform cleanup standards, using new and improved methods for remediation and improving site assessment methodologies. OEPA</b><br><b>ACTION COORDINATOR: Cindy Hafner; Chief, Division of Emergency &amp; Remedial Response – OEPA</b> |               |  |  |
|--|---------------|--|--|
| <b>Year</b>  | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
| 2002   | OEPA          | Waste Steering Committee (WSC) recommended that project be concluded. Chair of WSC agreed and project was concluded. Many of the project's "products" now being used by hazardous waste division. Other divisions evaluated this work to determine what other outcomes could be used in their day-to-day activities. Approximately 70 employees participated in the five-year-long effort. | Complete   |
| 2001   | OEPA          | Participated more fully in the Interstate Technology Resource Council by reviewing and commenting on new cleanup technologies, training and participating in conference calls when appropriate.  | The Agency better informed about emerging technologies that could be used in Ohio to clean up sites. |
| 2001   | OEPA          | Additional papers written and prepared for peer review. Expert peer review conducted for aspects of process and "overview" paper also being written to help give "big picture" about this project. Public review of all the papers.  | Complete   |
| 1999-00  | OEPA          | Concept papers for various aspects of the process, including human and ecological risk assessment, groundwater response requirements, and chemical leaching from soils to groundwater, completed.  | Complete   |
| 1998   | OEPA          | WSC chartered subcommittees to work on various aspects of the unified standards process.   | The groups worked on five papers that discussed in detail how the unified standards program work.    |
| 1997   | OEPA          | Director chartered the WSC to oversee the unification of the agency's cleanup standards.   | The committee was formed and met regularly for five years.   |

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|---|---------------|---|----------------------------|
| <b>PL-11</b>  |               |   |                            |
| <b>Implement recommendations of the Divisions of Emergency and Remedial Response &amp; Hazardous Waste Management Advisory Committee for improvements in the hazardous waste cleanup programs. OEPA</b> |               |   |                            |
| <b>ACTION COORDINATOR: Cindy Hafner; Chief, Division of Emergency &amp; Remedial Response – OEPA</b>  |               |   |                            |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>   | <b>Status</b>              |
| 1999-02   | OEPA          | The consensus recommendations of the Divisions of Emergency and Remedial Response & Hazardous Waste Management Advisory Committee were implemented before the beginning of state fiscal year 2000. This extensive list of actions implemented may be obtained by contacting the action coordinator. | Project completed in 2002. |

|   |               |  |               |
|---|---------------|--|---------------|
| <b>PL-12</b>  |               |  |               |
| <b>Provide resources for cleanup. OEPA, Ohio General Assembly</b>   |               |  |               |
| <ul style="list-style-type: none"> <li>• Establish a state cleanup fund for sites which impact public health.</li> <li>• Establish grant/loan fund for local communities to access sites, perform cleanups and/or attract federal matching funds.</li> <li>• Take further advantage for site cleanups through the Water Pollution Control Loan Fund.</li> </ul> |               |  |               |
| <b>ACTION COORDINATOR: Pat Madigan; Deputy Director for Communications-OEPA</b>   |               |  |               |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b> |
| 2003  | ODOD, OEPA    | In December 2003, the Clean Ohio Council awarded 18 projects, a total of \$39,602,244, in Clean Ohio Fund grants for brownfield cleanup.   | Ongoing       |
| 2003  | ODOD          | BCRLF loan to Broadview Heights to remove asbestos.  | Ongoing       |
| 2003  | OEPA          | OEEF awarded \$42,612 for Ohio Greenways initiative to assist local officials to select, define and fund projects that will maximize ecological and community benefits.  | Ongoing       |
| 2003  | ODOD          | ODOD awarded \$3,984,178 in grants through the Clean Ohio Assistance Fund. Seventeen grants were awarded: 3 for Phase I assessments; 12 for Phase II assessments; and 2 for cleanups of brownfield properties.                       | Ongoing       |
| 2002  | ODOD, OEPA    | Clean Ohio Council awarded 8 projects in the Lake Erie watershed, a total of \$23,800,000 in grants, through the Clean Ohio Fund for brownfield cleanup. Brownfield cleanup allows reuse of idle commercial and industrial property. | Ongoing       |

**PL-12 Continued**

|         |                             |  |   |
|---------|-----------------------------|--|---|
| 2002    | ODOD                        | ODOD awarded \$681,000 in grants through the Clean Ohio Assistance Fund. Two grants were awarded for Phase II assessments of brownfield properties.                                  | Ongoing   |
| 2001-07 | ODOD                        | Ohio Department of Development has \$2,357,286 of Brownfield Cleanup Revolving Loan Fund (BCRLF) money to use during the project and budget period 10/2001 to 9/2007.                | Ongoing   |
| 2001    | General Assembly /Gov. Taft | Passed enabling legislation into law. Created the Clean Ohio Fund. Process being developed to administer funds and award grants for brownfield cleanups and greenspace conservation. | First Clean Ohio Fund grants awarded in July of 2002. |
| 2001    | Ohio House of Rep.          | Enabling legislation introduced by Representative Blasdel.   | House Bill 3.   |
| 2001    | OEPA, ODOD, ODA, ODNR       | Agencies drafted vision for enabling legislation for Clean Ohio Fund proceeds distribution.  | Vision statement complete.                            |

| <b>PL-13</b> Establish an objective for Urban Nonpoint pollution reduction for inclusion in the 2004 Lake Erie Quality Index (LEQI). <i>Lake Erie Commission</i><br><b>ACTION COORDINATOR: David Hanselmann; Chief, Division of Soil and Water Conservation – ODNR</b> |   |  |   |
|--|---|--|---|
| <b>Year</b>  | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>   |
| Ongoing  | LEQI Task Force   | Discussed means of establishing an objective for inclusion in the 2004 LEQI.   | The group was not able to arrive at a suitable measure for use in the 2004 LEQI. Ongoing  |
| Ongoing  | Lake SWCD, OEPA, ODNR   | Promotion of Headwater Habitat Evaluation Index.   | Lake County is in the process of fully assessing all headwater streams. This has piloted and refined protocols to be established by OEPA. |
| Ongoing  | ODNR, County and Areawide Planning Agencies                                 | Encourage local land use planning that includes green space protection and stormwater control through workshops in the Lake Erie region.   | Ongoing   |
| 2003   | OEPA  | Tracking and monitoring NPDES Storm water Phase II compliance will serve as a measure of activities underway by local government to control urban NPS pollution.   | Ongoing   |
| 2001-11  | ODNR, Regulatory Air Pollution Control agencies, Local stormwater utilities | Increase size and scope of urban forests, including riparian forested buffers, to address pollution prevention and abatement as part of a comprehensive planning process. Goal is a 10% canopy increase within 10 years. | Ongoing   |
| 2001-04  | OEPA  | Alter priorities of State Revolving Loan Fund to provide greater incentives for nonpoint source control plans and implementation. Increased percentage of WPCLF dollars for nonpoint BMPs.                               | Ongoing   |
| 2001-02  | ODOT, ODNR  | Integrated stream protection standards and specifications into ODOT's Location and Design Manuals and standard drawings to improve consistency in engineering design and construction statewide.                         | Development of revised standards and specifications. Complete   |

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|--|---------------|--|---|
| <b>PL-14</b> Assist Lake Erie communities in developing regional recycling facilities for disposal of hazardous wastes from small businesses, households and agriculture – set goal of making such services available in all Lake Erie watersheds by 2010. <i>OEPA, ODOD, ODA, Lake Erie Commission</i><br><br><b>ACTION COORDINATOR: Michael Savage; Chief, Division of Hazardous Waste Management – OEPA</b> |               |  |   |
| <b>Year</b>  | <b>Agency</b> | <b>Action</b>  | <b>Status</b>   |
| 2002   | OEPA          | OORR submitted an application for permitting exemption from hazardous waste permitting requirements in order to construct and operate.   | Application review ongoing.   |
| 2001-03  | OEPA          | Continued to provide the Summit/Akron Solid Waste Authority with technical assistance and regulatory guidance on their established permanent drop-off facility for household hazardous waste. Also continue to explore with them options available to expand their program to accept hazardous waste from small businesses. A major hurdle will be to address hazardous waste permitting requirements during a two-year pilot and then long-term if pilot proves successful. | The IRS granted tax-exempt status in 2/01 to the Ohio Organization for Recycling and Reuse (OORR) to which this project is a part of. Summit and Cuyahoga counties have awarded grant funding to this project. Summit County site will be in Akron. Cuyahoga County site has not been selected. Ongoing |
| 2001   | LEC           | Lake Erie Protection Fund grant (\$185K) awarded to the Ohio Organization for Recycling and Reuse for the project <i>Business Hazardous Waste Recycling Center and Brownfield Abatement Fund Project for Cuyahoga and Summit Counties</i> . This grant allowed OORR to establish and operate the center for a three-year period.   | Facility to be operational in 2004/2005. Results of the pilot project expected two years after facility is operational.   |

| <b>PL-15</b>   |                   |   |   |
|--|-------------------|---|---|
| Encourage and fund the completion of comprehensive watershed stormwater management plans in all Lake Erie sub-watersheds by 2005 and assist in their implementation. <i>OEPA, ODNR, Lake Erie Commission</i> |                   |   |   |
| ACTION COORDINATORS: David Hanselmann; Chief, Division of Soil & Water Conservation – ODNR and Lisa Morris; Chief, Division of Surface Water – OEPA  |                   |   |   |
| <b>Year</b>  | <b>Agency</b>     | <b>Action</b>   | <b>Status</b>   |
| 2003-08  | ODNR, SWCDs, NGOs | Three additional watershed coordinators hired within the Lake Erie Watershed with support from ODNR grant program (West Creek, Euclid Creek, and Lower Grand River watersheds). Will develop comprehensive watershed plans to address, among other NPS issues, stormwater management as it relates to water quality and stream channel protection and restoration.  | Ongoing   |
| 2003-08  | ODNR              | Five Stormwater Specialists hired by SWCDs within Lake Erie Watershed with support from ODNR grant program. Will facilitate completing of Phase II requirements incorporating stormwater management as it relates to water quality and stream channel protection and restoration.   | Ongoing   |
| 2003   | OEPA              | OEEF awarded 3 grants (total \$104,488) to TMACOG and Lake County for storm water public awareness campaigns. See: <a href="http://www.maumeerap.org/GWAH.html">www.maumeerap.org/GWAH.html</a> and <a href="http://www.lakecountyohio.org/smd/">www.lakecountyohio.org/smd/</a>  | Ongoing   |
| 2002-07  | OEPA              | Under the Phase I Storm Water Program, industries and municipalities serving a population >100,000 require NPDES permits for storm water discharge. As part of the Phase II Storm Water Program, OEPA developed general permits for municipalities <100,000 to include BMPs to reduce pollutants to the maximum extent practicable. Many of these areas are located in the densely populated Lake Erie Basin. Designated municipalities and unincorporated areas must submit storm water management plans by 2003, and fully implement them by 2007. Depending on the level of local cooperation, the plans may be developed on either a regional or watershed basis. | Communities in the Maumee RAP area of concern have come together to study and develop a plan to form a regional storm water management district which would assist in Phase II implementation, development of regional standards and storm water master planning. Additional groups in Cleveland, Summit County and the Chagrin River watershed areas are evaluating how they will assist in the implementation of Phase II storm water regulations in their areas. |

**PL-15 Continued**

| <b>Year</b> | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
|-------------|---------------|--|--|
| 2001-13+    | OEPA          | TMDLs to determine maximum daily loads of contaminants and associated stream impacts are scheduled throughout the state through 2013. Development of restoration plans under TMDLs will include storm water management activities in the impacted stream segments.                     | Two TMDLs have been completed and approved by USEPA in the Lake Erie watershed. Nine are underway. |
| 2001        | LEC           | Lake Erie Protection Fund grants awarded to NEFCO- <i>Yellow Creek Storm Water Management Consortium</i> (\$80K) and NOACA- <i>Developing Regional Watershed Based Model Storm Water Permit Implementation Plans</i> (\$123K) for comprehensive watershed stormwater planning efforts. | Complete   |
| 2000-01     | ODNR-DSWC     | Defined methods and procedures for designing stormwater management facilities that will protect natural channel integrity.   | Contracted with Dr. Andrew Ward, OSU, to develop and define methods and procedures.                |
| 2000-01     | ODNR-DSWC     | Developed stormwater discharge criteria to minimize impact on natural stream morphology.   | Contracted with Dr. Andrew Ward, OSU, to research and develop stormwater discharge criteria.       |
| 2000        | ODNR-DSWC     | Lake SWCD prepared a comprehensive watershed plan for Arcola Creek. The plan detailed measures to protect or enhance water resources based on completed landowner surveys, monitoring of stream sites, and meetings with public officials and stakeholders.                            | Complete   |

| PL-16  |        | Support USEPA's Combined Sewer Overflow (CSO) Strategy. OEPA   |  |
|--|--------|--|--|
| ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water – OEPA |        |  |  |
| Year   | Agency | Action   | Status   |
| Ongoing  | OEPA   | Continue to follow the existing OEPA program in support of the USEPA CSO strategy. The main focus now is on the review of long term control plans (LTCP) for improvements needed in communities with CSOs. | NPDES permits issued since 1994 are consistent with the USEPA strategy. OEPA will continue to issue NPDES permits and review control documents consistent with the USEPA CSO strategy. |
| 2003   | OEPA   | 33 LTCPs have been approved. 11 of the 33 communities have completed separating their sewers.  | Ongoing  |
| 2003   | OEPA   | 2 of the 33 communities (Bowling Green and Findlay) required to complete LTCPs have completed all the projects in the LTCPs.   | Complete   |

| <b>PL-17</b>  |                      |  |  |
|---|----------------------|--|--|
| <b>Establish urban riparian buffers. Set goal of reestablishing forested buffers on 50% of residential tributaries and 25% of urban tributaries. ODNR</b> |                      |  |  |
| <b>ACTION COORDINATOR: Mark Ervin; Administrator of Special Programs, Division of Forestry – ODNR</b>   |                      |  |  |
| <b>Year</b>   | <b>Agency</b>        | <b>Action</b>  | <b>Status</b>  |
| 2004  | OEPA                 | WRRSP funding of \$326,000 to implement BMPs, purchase land and conservation easements for West Creek preservation (Cuyahoga watershed).   | Ongoing  |
| 2003  | OPWC                 | Ohio Public Works Commission awarded 137 grants totaling \$38 million for greenspace preservation through the Clean Ohio Fund. About \$15 million was for projects in the Lake Erie watershed.               | Ongoing  |
| 2003  | OEPA                 | OEEF grant (\$42,612) for Ohio Greenways initiative to assist local officials responsible for open space decisions to select, define and fund projects that will maximize ecological and community benefits. | Ongoing  |
| 2002-06   | ODNR-Forestry, REALM | Update maps (annually, if possible) to show progress toward goal. Share with public via internet.  | Ongoing  |
| 2002-05   | ODNR-Forestry        | Develop grant program for cooperating communities to assist with buffer establishment.   | Ongoing  |
| 2002-05   | ODNR-Forestry        | Offer technical assistance to local communities that support the initiative to ensure properly implemented/established forest buffers (i.e. species selections, planting method, maintenance).               | Ten communities were offered assistance that supports the initiative during FY 2003.   |
| 2002-03   | ODNR-Forestry        | Implement an awareness campaign (videos, power point, articles, etc.) for communities, tree commissions – to gain local support.   | An urban team was created locally and started the development of a web page to be part of the buffer team web site. The LE buffer team web site not yet available. |
| 2002  | ODNR-Forestry, REALM | Identify (map) urban tributaries in need of reforestation (less than 25% forested or otherwise determined by the Division of Forestry).  | Not completed yet: no resources identified to accomplish this task.  |
| 2002  | OPWC                 | OWPC awarded about \$15 million in grants for projects in the Lake Erie watershed for greenspace preservation.   | Ongoing  |

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| <b>PL-18</b>  |               |  |  |
| Establish an objective for Atmospheric Pollution for inclusion in the 2004 Lake Erie Quality Index. <i>OEPA, Lake Erie Commission</i> |               |  |  |
| ACTION COORDINATOR: Robert Hodanbosi; Chief, Division of Air Pollution Control – OEPA   |               |  |  |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
| 2002-04   | OEPA          | Develop an RFP for the development of an objective measure of atmospheric deposition on Lake Erie water quality. | This activity will not be completed due to lack of staffing and available resources. |

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|---|---------------|--|--|
| <b>PL-19</b>  |               |  |  |
| Establish two state-funded air contaminant collectors as part of the Great Lakes Integrated Atmospheric Deposition Network. <i>OEPA, Lake Erie Commission</i> |               |  |  |
| ACTION COORDINATOR: Robert Hodanbosi; Chief, Division of Air Pollution Control – OEPA   |               |  |  |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
| 2003  | OEPA          | Continued operation of existing deposition site.   | Ongoing  |
| 2003  | OEPA          | Based upon obtaining funding of the acquisition and operation of the two air monitors, purchase the instruments.                                 | This activity has been delayed due to a reduction in staffing and available resources to complete this action. |
| 2002  | OEPA          | Initiated operation of Integrated Atmospheric Deposition site in Cleveland. Operated by the Cleveland Division of Environment.                   | Initiated in December 2002.  |
| 2002  | OEPA          | Examine alternative funding mechanisms for the operation (analysis and labor) for two air deposition sites-estimated cost \$60,000 per year.     | This activity has been delayed due to a reduction in staffing and available resources to complete this action. |
| 2002  | OEPA          | Examine alternate funding mechanisms for the purchase of two air deposition samplers – estimated cost \$140,000.                                 | This activity has been delayed due to a reduction in staffing and available resources to complete this action. |
| 2002  | OEPA          | Develop a detailed plan to establish two state funded air deposition sites as part of the Great Lakes Integrated Atmospheric Deposition Network. | This activity has been delayed due to a reduction in staffing and available resources to complete this action. |

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| <b>PL-20</b> Prioritize funding for projects that encourage energy conservation through reducing electrical consumption, retire emission credits or result in other environmental improvements in the advent of electrical deregulation. <i>ODOD, Lake Erie Commission</i><br><b>ACTION COORDINATOR: Ohio Lake Erie Office/Commission</b> |               |  |  |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
| Ongoing   | LEC           | Funding for projects that encourage energy conservation through reducing electrical consumption, retire emission credits or result in other environmental improvements in the advent of electrical deregulation is included in the priorities of the Lake Erie Protection Fund. No proposals were received or funded in the 2001, 2002, and 2003 grant cycles.   | Ongoing  |
| 2003  | ODOD          | Office of Energy Efficiency awarded funds for Distributed Energy Resources (DER) projects that address fuel cells, solar voltaics, wind turbines, microturbines, and other innovative technologies.  | In September 2003, a total of \$570,569 was awarded for 12 projects. |
| 2003  | OEPA          | Ohio EPA has adopted regulations for the control of nitrogen oxide emissions from power plants and large industrial boilers. These regulations provide certain allocations on the amount of emissions that are allowed from regulated sources. Ohio EPA provided a set-aside for energy efficiency and innovative controls. These set-asides will provide an incentive for energy efficiency projects. | Program will come into effect in 2006.                               |

# HABITAT

| <b>H-1</b> | <p><b>Assess the environmental and economic benefit of each Lake Erie tributary dam and encourage the removal of non-beneficial dams, or modify existing dams with fish passage structures where appropriate by 2025. ODNR</b></p> <p><b>ACTION COORDINATOR: Richard Bartz; Chief, Division of Water- ODNR</b></p> |   |   |
|------------|--|---|---|
| Year       | Agency   | Action  | Status  |
| 2002-03    | ODNR   | Dam Removal Inventory and Assessment Workgroup consisting of ODNR Divisions (Wildlife, Water, Soil and Water Conservation, Watercraft), OEPA (Division of Surface Water), ODOT, and OSU (College of Civil and Environmental Engineering) was formed.  | Workgroup produced a framework of issues to be considered by agencies, organizations and individuals when considering a dam removal project. An inventory of low head dams is being constructed and case studies of recent dam removal projects are being collected. Regular meetings took place throughout both years. |
| 2002-03    | OEPA   | Two WRRSP awards totaling \$2,440,000 for the planning, design and implementation of the Munroe Falls Dam modification. Expected result is attainment of aquatic life beneficial use on the Middle Cuyahoga River.  | Ongoing   |
| 2001-03    | OEPA   | Three WRRSP awards totaling \$3,940,000 for the planning, design and implementation of the Kent Dam modification. The expected result is attainment of aquatic life use of the Middle Cuyahoga River and fish passage up and downstream.  | Ongoing   |
| 2001-02    | ODNR   | Contacted other state, federal and state agencies to identify interest in dam removal and to identify contacts for future workgroup discussions.  | Complete  |
| 2001       | ODNR   | Created a workgroup within ODNR to draft a project charter to identify tributary dams using existing dam safety information as well as watercraft and wildlife data. Dams identified, but not currently in the dam safety database because they are not jurisdictional, would be added into the database. | Complete  |

| H-2     | <b>Limit additional development and restore flood retention capabilities of Lake Erie tributary floodplains. <i>ODNR, OEPA, Lake Erie Commission</i></b> <ul style="list-style-type: none"> <li>• <b>Use federal and state conservation reserve programs to purchase conservation easements on flood plain and upland wetlands</b></li> <li>•</li> </ul> <b>ACTION COORDINATOR: Richard Bartz; Chief, Division of Water- ODNR</b> |  |         |
|---------|---|--|---------|
| Year    | Agency  | Action   | Status  |
| 2003    | OPWC  | Ohio Public Works Commission awarded 137 grants totaling \$38 million through the Clean Ohio Fund for greenspace preservation. Over 60 of the funded projects were to protect wetlands or flood plains.  | Ongoing |
| 2001-03 | ODNR  | Provided additional support to Lake Erie tributary communities in developing criteria that would support a “no adverse impact” floodplain management approach. Specifically, worked with the Chagrin River Watershed Partners in the development of their model code that can be used to educate other Lake Erie tributary communities on a possible approach to limit loss of flood retention capabilities. | Ongoing |

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| <b>H-3</b>  | <b>Support local jurisdictions and conservation groups by providing funding and technical assistance for comprehensive watershed planning. <i>ODNR, OEPA, Lake Erie Commission</i></b> |   |   |
|             | <b>ACTION COORDINATOR: David Hanselmann; Chief, Division of Soil &amp; Water Conservation- ODNR</b>  |   |   |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>   | <b>Status</b>   |
| 2003        | LEC  | Lake Erie Protection Fund grant (\$10K) awarded to Ohio Environmental Council to provide board development training for watershed organizations in the Lake Erie basin.   | Training completed in November 2003.  |
| 2002        | LEC  | Lake Erie Protection Fund grant (\$100K) awarded to Cuyahoga River Community Planning Organization to develop a GIS-based decision support system to integrate watershed and transportation planning in Northeast Ohio.   | Results expected in 2005.   |
| 2002        | ODNR-<br>DSWC  | Third round of watershed coordinator grants offered competitively statewide. Ohio Coastal Management Program joined as sponsor of the watershed coordinator grants, which offers a guarantee of two additional watershed coordinators in the Lake Erie Watershed.   | Three coordinator positions funded in the Lake Erie Watershed: The West Creek Preservation Committee; Euclid Creek by the Cuyahoga SWCD; and the Grand River Partners, Inc. |
| 2001        | ODNR-<br>DSWC  | Second round of funding for watershed coordinators offered competitively statewide.   | One coordinator position funded in the Maumee watershed with TMACOG.  |
| 2000        | LEC  | Lake Erie Protection Fund grant (\$65K) awarded to Chagrin River Watershed Partners for watershed planning.   | Results expected in 2004.   |
| 2000        | ODNR-<br>DSWC  | Watershed Coordinator grants awarded. One goal was to create permanent positions in local units of government, non-profit organizations or other non-governmental organizations to plan and implement watershed programs to restore or protect a water resource. Another focus of the coordinator program was the partnership aspect between ODNR, OEPA, OSUE, local watershed groups and other local partners. These groups came together to support community-based watershed protection (with real dollars and on-going training and support). | Two coordinator positions were awarded in the Lake Erie watershed in 2000: Sandusky River under WSOS Community Action and Duck and Otter Creek Partnership.                 |

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| <b>H-4</b>  | <b>Give greater scrutiny concerning maintaining local watershed hydrology during the permitting of future development projects. <i>ODNR, OEPA</i></b> |  |   |
|             | <ul style="list-style-type: none"> <li>• <b>Establish headwaters water quality standards. <i>OEPA</i></b></li> </ul>                                  |  |   |
|             | <b>ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water- OEPA</b>  |  |   |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>   |
| 2003        | OEPA  | Develop stream mitigation rule. This rule will assist in providing guidance and consistency in decision-making related to proposed projects affecting streams. Consideration of adding primary headwater stream classification to water quality standards postponed while stream mitigation rule development proceeds. | Ongoing   |
| 2003        | OEPA  | Held workshops on headwater stream importance and assessment.  | Complete  |
| 2002        | OEPA  | Distributed a white paper on the ecology, policy and regulatory aspects of primary headwater streams (<1 square mile) for external stakeholder comments to assess technical, policy and regulatory factors associated with the adoption of headwater stream water quality standards.                                   | Complete  |
| 2002        | OEPA  | Fact sheets were prepared addressing the importance and benefits of headwater streams, key findings of the headwater stream project, NPS impacts, and economic reasons for sound management of headwater streams.  | Posted on OEPA- Division of Surface Water website: <a href="http://www.epa.state.oh.us/dsw">www.epa.state.oh.us/dsw</a>           |
| 2002        | OEPA  | Prepared technical documents concerning fish, amphibians and macrobenthic communities found at headwater stream habitats. A field evaluation manual was also prepared.   | Documents posted on OEPA- Division of Surface Water website: <a href="http://www.epa.state.oh.us/dsw">www.epa.state.oh.us/dsw</a> |

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| <b>H-5</b>  | <b>Publish and distribute a Lake Erie Model Zoning Ordinance and Building Code by 2003 and encourage its voluntary acceptance by local communities. <i>ODOD, Lake Erie Commission</i></b> <ul style="list-style-type: none"> <li>• Ensure that all interested concerns (local communities, property owners, developers, conservationists, agriculture, etc.) have the opportunity to fully participate.</li> </ul> <b>ACTION COORDINATOR: Lake Erie Office/Commission</b> |   |  |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>  |
| 2001-03     | LEC   | Commissioned a “Blue Ribbon Panel on Balanced Growth” composed of various stakeholders in Ohio. One of the panel’s three work groups is developing model codes or recommendations for stormwater, wetlands, riparian setbacks, sediment control, conservation development, and coastal protection that can be adopted by local communities. | The panel’s recommendations were accepted by the Lake Erie Commission in April 2004. |

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| <b>H-6</b>  | <b>Institute a Lake Erie Lighthouse designation for entities practicing sound Balanced Growth principles by 2003. <i>Lake Erie Commission</i></b> <ul style="list-style-type: none"> <li>• Establish a suite of practices and/or characteristics that would qualify for Lighthouse designation.</li> <li>• Create suitable awards to recognize and celebrate those entities receiving the designation.</li> <li>• Consider making the Lighthouse designation a factor in the selection process for specific Ohio grants and loan programs.</li> <li>• Types of entities may include communities, farms, businesses, schools, etc.</li> </ul> <b>ACTION COORDINATOR: Lake Erie Office/Commission</b> |                  |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>    | <b>Status</b> |
|             |   | Not Yet Underway |               |

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| <b>H-7</b>  | <p><b>Establish by 2003 the Governor's Lake Erie Balanced Growth Awards – monetary award program from the Lake Erie Protection Fund for innovative examples of balanced growth practices. <i>Lake Erie Commission</i></b></p> <ul style="list-style-type: none"> <li>• Award money would be earmarked for continued implementation of these practices.</li> </ul> <p><b>ACTION COORDINATOR: Lake Erie Office/Commission</b></p> |                  |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>    | <b>Status</b> |
|             |   | Not Yet Underway |               |

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| <b>H-8</b>  | <p><b>Commission a Balanced Growth Blue Ribbon Task Force, comprised of property owners, government officials, business leaders, conservationists, academia, agriculture, and other stakeholder groups to be charged with advising the Lake Erie Commission on ways to: <i>Lake Erie Commission</i></b></p> <ul style="list-style-type: none"> <li>• Develop strategies that will balance the protection of the Lake Erie watershed with continued economic growth.</li> </ul> <p><b>ACTION COORDINATOR: Lake Erie Office/Commission</b></p> |  |  |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>  |
| 2001        | LEC  | Commissioned a "Blue Ribbon Panel on Balanced Growth" comprised of various stakeholders in Ohio. The panel is comprised of three work groups: Planning & Incentives, State Policy & Funding, and Model Zoning. The goal of these work groups is to develop a Balanced Growth Program for Ohio. | The panel's recommendations were accepted by the Lake Erie Commission in April 2004. |

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| <b>H-9</b>  | <b>Fully implement Ohio Farmland Preservation Program. ODA, OEPA, ODNR</b> <ul style="list-style-type: none"> <li>• <b>Provide incentives and easements to keep productive farmland in use to preserve natural wildlife habitats and achieve other social and economic goals.</b></li> </ul><br><b>ACTION COORDINATOR: Kevin Elder; Executive Director, Livestock Environmental Permitting Program- ODA</b> |   |   |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>   |
| 2002        | ODA   | ODA Office of Farmland Preservation implemented new ag easement donation and purchase programs.                             | Over 11,000 acres of productive farmland (30-plus farms) enrolled in agricultural easement donation and purchase programs by August 2003.                   |
| 2000-01     | ODA   | Sought voter approval for Clean Ohio Fund Agricultural Easement Purchase Program.   | HB 3, signed in July 2001, provided \$25 million for ag easement purchases; it is projected that amount would procure 30-40 farms and 2,200 acres annually. |
| 1998-99     | ODA   | Sought authorization for landowners to sell or donate agricultural easements to ODA in perpetuity.                          | SB 223, signed in January 1999, allows for agricultural easements to preserve farmland.   |
| 1996-97     | ODA   | Educated farmers, local officials and citizens on the economic, environmental and social benefits of farmland preservation. | Participated in approximately 75 meetings and conferences throughout Ohio.  |

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| <b>H-10</b> | <b>Reforest marginal agricultural acreage, floodplains and wetlands of the Ohio Lake Erie watershed, utilizing the Lake Erie Buffer Initiative, Conservation Reserve Enhancement Program (CREP), the Governor’s Bicentennial Tree Planting Program and other programs. <i>ODNR</i></b> |  |   |
|             | <b>ACTION COORDINATOR: Mark Ervin; Administrator of Special Programs, Division of Forestry- ODNR</b>   |  |   |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>   |
| 2003-04     | ODNR-Forestry  | Work to develop and encourage tree planting vendors; investigate opportunity for “turnkey” tree planting program similar to NW Ohio Windbreak.                             | Watershed forester for western Lake Erie Basin and the Erie Basin RC&D has developed a “turnkey” tree planting program for riparian areas and windbreaks in a 10 county area. |
| 2003        | ODNR-Forestry, DSWC  | Identified methodology to use direct and indirect marketing of tree planting to owners of “MAA” (marginal agricultural acreage) – identified funding and implement.        | Through CREP funding, annual windbreak planting through the NW Ohio Windbreak program has more than doubled in total row feet from previous years.                            |
| 2003        | ODNR-Forestry, DSWC  | With funding from Lake Erie Buffer Team published the “Ohio Windbreak Guide,” which will assist SWCDs and landowners in planning and promoting windbreak planting in Ohio. | Complete  |
| 2002-03     | ODNR-Forestry, REALM   | REALM identified and mapped acres, meeting definitions available to reforestation, by sub-watershed.   | Ongoing   |
| 2002        | ODNR-Forestry, DSWC  | With funding from Lake Erie Buffer Team updated and reproduced the brochure for the Northwest Ohio Windbreak program.  | Complete  |
| 2002        | ODNR-Forestry, DSWC  | Jointly developed parameters that would identify “marginal agricultural acreage” (MAA).  | Ongoing   |
| 1999-2003   | ODNR   | Governor Taft initiated the Bicentennial Legacy Tree Planting Program to plant one tree for every Ohio school child.   | Two million trees were planted throughout the state. Complete   |

| H-11    | <p><b>Make coastal parcels a high priority for state or local acquisition through direct purchases or purchase of conservation easements from willing sellers. <i>ODNR, Ohio General Assembly</i></b></p> <ul style="list-style-type: none"> <li>• <b>Create list of high priority parcels for purchase when available or other protection strategies by 2002.</b></li> <li>• <b>Create special fund for property purchases or purchase of easements on valuable coastal properties for recreation and habitat conservation.</b></li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |   |         |
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| Year    | Agency   | Action  | Status  |
| 2003    | ODNR   | The Office of Coastal Management received funds from NOAA through the annual OCMP grant award to develop a Coastal and Estuarine Land Conservation Plan needed in order to participate in the Coastal and Estuarine Land Conservation Program. The Office of Coastal Management has initiated actions for the development of this plan which must include an assessment of priority land conservation needs.  | Ongoing |
| 2001-03 | ODNR   | The Office of Coastal Management administered a 2001 federal one-time appropriation for Great Lakes Coastal Restoration Grants. Ohio's portion of the \$30 million appropriation was split between state and local projects. The most significant state project was the acquisition of 10 acres of shoreline property adjacent to the Marblehead Lighthouse State Park. Nine local projects were awarded, with 7 for acquisition projects involving wetlands and floodplain/corridor. Seven new projects were awarded through a supplemental project, with 5 for the fee or easement acquisition of critical riparian areas or for riparian restoration. More information can be found at the Office of Coastal Management website under Great Lakes Coastal Restoration Projects: A Progress Report to Congress. | Ongoing |

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| <b>H-12</b> | <b>Encourage local communities through financial inducements to limit shoreline development to water-dependent uses. <i>ODNR, Lake Erie Commission</i></b> |  |               |
|             | <ul style="list-style-type: none"> <li>• <b>Prioritize funding for coastal planning grants.</b></li> </ul>   |  |               |
|             | <b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b>  |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2001-03     | ODNR   | Established comprehensive planning as the priority for the annual Coastal Management Assistance Grants. The Coastal Management Program funded three planning grants in each of the last three grant cycles (5, 6, 7).  | Complete      |
| 2000        | ODNR, LEC  | Sustainable Development Cross-training workshop was conducted to familiarize agency staff with principles and management. Liaisons were also established among OCMP networked agencies.  | Complete      |
| 2000        | ODNR   | Established priorities in Coastal Management Assistance Grants for comprehensive planning, growth management, and sustainable communities planning, and planning for reduction of risks from coastal hazards. Four planning projects funded for coastal communities. | Complete      |

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| <b>H-13</b> | <b>Implement Lake Erie Marshes Focus Plan as part of North American Waterfowl Plan by 2020. <i>ODNR</i></b> |  |   |
|             | <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b>                                   |  |   |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>   |
| 2001-10     | ODNR-Wildlife   | Identify a Lake Erie Marshes Focus Area to concentrate wetland management activities.  | Three wetland focus areas have been identified.   |
| 2001-10     | ODNR-Wildlife   | Protect, enhance and restore adequate wetland habitat to maintain viable populations of all wetland wildlife native to Ohio. | A cooperative project with OSU and USGS is underway to determine extent of wetlands within each focus area. |

| <p><b>H-14</b></p> | <p><b>Use incentives to encourage proper use and placement of shoreline erosion structures. <i>ODNR</i></b></p> <ul style="list-style-type: none"> <li>• <b>Prohibit use of inappropriate fill materials on shorelines.</b></li> <li>• <b>Promote the natural movement of sand along Lake Erie’s shoreline and nearshore area.</b></li> <li>• <b>Promote use of non-structural shoreline protection strategies.</b></li> <li>• <b>Develop and implement cost effective technologies to move available offshore sand deposits into the littoral zone for beach nourishment, barrier building, etc.</b></li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |   |                      |
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| <p><b>Year</b></p> | <p><b>Agency</b></p>  | <p><b>Action</b></p>  | <p><b>Status</b></p> |
| <p>2002-03</p>     | <p>ODNR</p>   | <p>ODNR has been involved through the Lake Erie Geology Group in an ongoing effort with the USACE to find cost effective ways to take clean sand dredged from federal navigation projects and place it in the nearshore littoral zone. Per agreements between ODNR and USACE, dredged sand resources from the Grand River have been placed in the nearshore areas downdrift of Fairport Harbor. These sand resources are being tracked by the Lake Erie Geology group to determine the effectiveness of the nearshore disposal efforts. The information gathered from this project will be used as a guide for future efforts to bring sand resources to the littoral zone.</p> | <p>Ongoing</p>       |
| <p>2002-03</p>     | <p>ODNR</p>   | <p>ODNR utilized the regulatory authority provided under ORC 1521.22 to prohibit the use of inappropriate fill materials along the Lake Erie shoreline. ODNR also works under the technical assistance provisions of ORC 1521.29 to help shoreline property owners recognize the impacts to the shoreline from using inappropriate fill material.</p>   | <p>Ongoing</p>       |
| <p>2002-03</p>     | <p>ODNR</p>   | <p>Promoted use of non-structural shoreline protection strategies. ODNR is currently working with the US Army Corps of Engineers on a project at the Sheldon’s Marsh Nature Preserve to explore alternative shoreline protection strategies that reduce and minimize the need for structural solutions to erosion and flooding issues. It is envisioned that the results from this project will be useful in devising non-structural strategies that can be translated to other locations along the shoreline.</p>  | <p>Ongoing</p>       |

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| <b>H-15</b>   | <b>Establish intensive programs by 2003 to eradicate purple loosestrife, <i>Phragmites</i>, and other noxious exotic plants in prime Lake Erie coastal wetlands by 2015. ODNR</b> |  |                           |
| <b>ACTION COORDINATOR: Steven Gray, Chief, Division of Wildlife- ODNR</b> |   |  |                           |
| <b>Year</b>   | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>             |
| 2002  | LEC   | Lake Erie Protection Fund grant (\$10K) awarded to The Ohio State University Research Foundation to study the “Benthic Biotic Integrity of <i>Phragmites</i> Stands in the Old Woman Creek Coastal Wetland. One of the goals of the study is to determine the effects of chemically controlling <i>Phragmites</i> on macroinvertebrates. | Results expected in 2004. |
| 1999  | LEC   | Lake Erie Protection Fund grant (\$94K) awarded to The Ohio State University Research Foundation for “Wetland Renovation in East Harbor State Park, Lakeside/Marblehead, Ohio.” Part of the project is to use management of water levels in the wetland to control <i>Phragmites</i> populations.  | Results expected in 2004. |

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| <b>H-16</b>  | <b>Educate coastal beach managers on integrating conservation of rare beach habitats into beach maintenance programs by 2001. ODNR</b> |  |   |
| <b>ACTION COORDINATOR: Dan West; Chief, Division of Parks &amp; Recreation- ODNR</b> |  |  |   |
| <b>Year</b>  | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>   |
| 2002-03  | ODNR – DNAP, Wildlife  | Inventoried rare/sensitive beach and shoreline habitat locations for entire Lake Erie shoreline and islands. | Extensive inventories have been completed along Lake Erie and incorporated into the Ohio Natural Heritage Database. Ongoing |

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| <b>H-17</b> | <b>Implement voluntary program for all Lake Erie watershed schools to receive an extensive Great Lakes curriculum and field experience by the 8<sup>th</sup> grade by 2005. <i>ODNR, Lake Erie Commission, Ohio Sea Grant</i></b> |  |               |
|             | <b>ACTION COORDINATOR: Carolyn Watkins, Office of Environmental Education-OEPA</b>  |  |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b> |
| 2002-03     | ODNR  | Healthy Water, Healthy People curriculum from International Project WET and Hach Scientific was designed to help students in grades 6-12 and adult watershed volunteers understand links between water quality and human health and learn proper monitoring techniques. 50 educators were trained as facilitators in train-the-trainer workshops and 285 additional educators attended workshops introducing classroom activities. Further outreach continues. | Ongoing       |
| 2001-03     | OEPA  | OEEF awarded \$5000 to train teachers and nonformal educators in the Healthy Water, Healthy People curriculum.   | Ongoing       |
| 2001-03     | OEPA  | OEEF awarded \$225,422 in grants for local watershed curriculum development for schools in Ashtabula and Lorain counties; \$8862 for watershed festivals in Hancock and Sandusky Counties; \$5000 to Cleveland Metroparks for watershed programming; \$4960 for field trips to Stone Lab for a Summit Co. school; and \$3850 for implementation of the National Ocean Science Bowl competition for high school students.                                       | Ongoing       |
| 2001-03     | OEPA  | OEEF granted \$5000 to Ohio Academy of Science to align Ohio's Natural Heritage curriculum with the Ohio Department of Education's new Academic Content Standards for science education.   | Ongoing       |

| <b>H-18</b> | <p><b>Define and inventory where acquisition/protection of wetlands and buffer areas and other enhanced management is needed to protect these resources. <i>ODNR, OEPA</i></b></p> <ul style="list-style-type: none"> <li>• <b>Create prioritized list for enhanced management.</b></li> <li>• <b>Use conservation reserve program for restoration of upland wetlands (See H-2).</b></li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |  |                |
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| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>  |
| 2003        | ODNR   | The Office of Coastal Management received funds from NOAA through the annual OCMP grant award to develop a Coastal and Estuarine Land Conservation Plan needed in order to participate in the Coastal and Estuarine Land Conservation Program. The Office of Coastal Management has initiated actions for the development of this plan which must include an assessment of priority land conservation needs, including wetland and buffer areas.   | Ongoing        |
| 2003        | OWPC   | Over 60 of 137 projects funded under Clean Ohio greenspace preservation program were to protect wetlands or flood plains.  | Ongoing        |
| 2003        | OEPA   | WRRSP award of \$6,530,800 for Bass Lake Category 3 wetland and buffer acquisition.  | Complete       |
| 2002-03     | ODNR-DNAP  | Identified priority parcels to protect and restore riparian forest buffer adjacent to the Grand State Wild and Scenic River. Protection is to be accomplished through the purchase of conservation easements and/or fee simple purchase from willing sellers. Riparian areas incorporating adjacent wetlands were given higher priority for acquisition.   | Complete       |
| 2002-03     | LEC  | LEPF grant awarded Cuyahoga RAP to identify wetlands in the Cuyahoga watershed as potential areas of in watershed mitigation.  | Maps complete. |
| 2001-03     | ODNR   | The Office of Coastal Management administered a 2001 federal one-time appropriation for Great Lakes Coastal Restoration Grants. Ohio's portion of the \$30 million appropriation was split between state and local projects. Seven of the local projects were for acquisition projects involving wetlands and floodplain/corridor. Five new projects, awarded through a supplemental project, were for the fee or easement acquisition of critical riparian areas or for riparian restoration. | Ongoing        |

**H-18 Continued**

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| 2001-02 | ODNR,<br>OEPA | OCMP Cumulative and Secondary Impacts working group (OEPA-Division of Surface Water, ODNR- Divisions of REALM, SWC, NAP, and Geological Survey, with the possible inclusion of additional members) addressed the issue of enhanced protection measures in proximity to Special Management Areas (generic APCs [wetlands] and specific APRs [State Nature Preserves] identified in the OCMP document. A Wetland Protection Plan was then developed. | Complete |
| 2001    | ODNR-<br>DNAP | Inventory of Unprotected Wetlands along the Lake Erie Coast (Coastal Plan) completed. A definitive survey at more detailed scale provided specific mapped outlines of the priority wetlands that should be acquired. This was distributed to ODNR divisions and OEPA Divisions of Surface Water and Environmental and Financial Assistance for use in meeting protection and restoration goals.  | Complete |
| 2001    | OEPA          | WRRSP award of \$6 million for Edison Woods Preserve for Category 3 wetland acquisition and restoration of farmed buffer to wetland/native vegetation. Preservation and restoration of 1300 acres of wooded wetlands and headwater creeks.   | Complete |
| 2001    | OEPA          | WRRSP award of \$725,000 for Steiner Woods category 3 wetland and buffer acquisition.  | Complete |

# BIOLOGICAL

| B-1     | <p><b>Fully implement Ohio's Aquatic Nuisance Species (ANS) Plan by 2003. ODNR</b></p> <ul style="list-style-type: none"> <li>• <b>Support efforts by the Great Lakes Commission and Great Lakes Protection Fund to develop technology and regulations to eliminate ballast water introduction by marine commerce.</b></li> <li>• <b>Develop and maintain monitoring programs in Lake Erie for early detection of new infestations.</b></li> <li>• <b>Conduct effective information/education campaign on the prevention of ANS introductions.</b></li> <li>• <b>Develop and implement abatement strategies to eradicate or reduce populations of targeted nuisance ANS in Lake Erie.</b></li> </ul> <p><b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b></p> |   |                           |
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| Year    | Agency  | Action  | Status                    |
| 2002    | LEC   | Lake Erie Protection Fund grant (\$10K) awarded to Bowling Green State University to study mechanisms of round goby dispersal.  | Results expected in 2004. |
| 2002    | LEC   | Lake Erie Protection Fund grant (\$100K) awarded to Cleveland State University to study use of genetic markers as monitoring tools for exotic goby and mussel populations.  | Results expected in 2005. |
| 2001-10 | ODNR  | ODNR will continue to administer and oversee implementation of the Ohio Aquatic Nuisance State Management Plan. Utilized the ANS grant to fund information and education projects (e.g. brochures, posters, signs, displays) and reduce infestations of aquatic/wetland invasive plants such as purple loosestrife, giant reed grass, reed canary grass, glossy buckthorn, and flowering rush in the Lake Erie watershed (e.g. wildlife areas, nature preserves, park districts). | Ongoing                   |

| <b>B-2</b>  | <b>Complete the inventory initiative of the Biological Diversity Strategic and Implementation Plan by 2003 emphasizing: <i>ODNR</i></b>   |  |                           |
|---|---|--|---------------------------|
|   | <ul style="list-style-type: none"> <li>• <b>Comprehensive inventories of coastal biological resources within Lake Erie and its watershed.</b></li> <li>• <b>Identification of rare and endangered species and their habitat areas.</b></li> <li>• <b>Objective criteria for management, protection and acquisition of threatened habitat and biological resources.</b></li> <li>• <b>Prioritization of sites to be used as a basis for acquisition and enhanced management.</b></li> <li>•</li> </ul> |  |                           |
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |   |  |                           |
| <b>Year</b>   | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>             |
| 2003  | LEC   | Lake Erie Protection Fund grant (\$66K) awarded to The Ohio State University Research Foundation to evaluate local habitat and landscape level characteristics related to use and quality of forest sites near Lake Erie by migrating land birds.  | Results expected in 2005. |
| 2003  | OPWC  | Ohio Public Works Commission awarded 137 grants totaling \$38 million through Clean Ohio Fund for greenspace preservation.   | Ongoing                   |
| 2001-10   | ODNR-Wildlife   | Update wetland inventory to identify priority areas to focus wetland acquisition, restoration, and enhancement efforts.  | Ongoing                   |
| 2001-10   | ODNR-Wildlife   | A statewide habitat evaluation project (GAP) which includes wetlands is underway in the Division of Wildlife in cooperation with USGS and The Ohio State University. Will complete comprehensive biological inventories for unique habitat communities for state wildlife areas, nature preserves, forests, and parks. | Ongoing                   |
| 2001-10   | ODNR-Wildlife, DNAP   | Maintain database of state-listed species' records.  | Ongoing                   |
| 2001  | OEPA  | WRRSP award of \$650,000 for Blanchard River riparian land acquisition.  | Complete                  |
| 2001  | OEPA  | WRRSP award of \$1.5 million for riparian and bog buffer acquisition and wetland restoration and protection in the Upper Cuyahoga River.   | Complete                  |
| 2001  | OEPA  | WRRSP award of \$1,150,000 for Sulphur Spring riparian land acquisition.   | Complete                  |
| 2000  | OEPA  | WRRSP award of \$672,000 for Vermilion River riparian land acquisition.  | Complete                  |

| <b>B-3 Continue intensive bald eagle management program with goal of establishing 50 nesting pairs within the Lake Erie watershed by 2025. ODNR</b> |               |  |  |
|---|---------------|--|--|
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b>   |               |  |  |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b>  |
| 2001-10   | ODNR-Wildlife | Monitor and protect eagle populations.   | More than \$400,000 has been generated since 2001 from the sale of bald eagle license plates for eagle habitat acquisition. A 40-acre parcel of eagle habitat was recently purchased at Pickerel Creek Wildlife Area. There were 107 eagle nests in Ohio as of spring 2004.  |
| 2001-10   | ODNR-Wildlife | Protect, enhance and restore adequate wetland habitat to maintain viable populations of all wetland wildlife native to Ohio. | Several acquisitions occurred in the Grand River Watershed, including wetlands and riparian corridors, as well as at Lake La Su An and Pickerel Creek Wildlife Areas. A National Coastal Wetlands Conservation grant was obtained from the USFWS in 2002 to acquire and restore 280 acres of wetland at Pickerel Creek Wildlife Area for wetland wildlife and plant species. |

| <b>B-4</b>  | <b>Maintain or restore viable populations of Lake Erie water snake, trumpeter swans, osprey and otter by 2025. ODNR</b> <ul style="list-style-type: none"> <li>• Institute specific management programs for the above species.</li> <li>• Identify and protect essential habitat refuge.</li> </ul> <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |  |  |
|-------------|---|--|--|
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>  |
| 2002        | LEC   | Lake Erie Protection Fund grant (\$10K) awarded to ODNR Wildlife Management and Research Group to study water snake habitat characteristics, movement patterns, and population estimates.  | Results expected in 2004.  |
| 2001-10     | ODNR-Wildlife   | A statewide habitat evaluation project (GAP) which includes wetlands is underway in the Division of Wildlife in cooperation with USGS and The Ohio State University. Will complete comprehensive biological inventories for unique habitat communities for state wildlife areas, nature preserves, forests, and parks. | Ongoing  |
| 2001-10     | ODNR-Wildlife   | Restore or enhance degraded, unique habitats where feasible.   | A National Coastal Wetlands Conservation grant was obtained from the USFWS in 2002 to acquire and restore 280 acres of wetland at Pickerel Creek Wildlife Area. The Milan (Coho) dam on the Huron River was removed. |
| 2001-10     | ODNR-Wildlife   | Protect and conserve unique habitat communities through land acquisition, conservation easements, landowner incentive programs, and partnerships.  | Several acquisitions occurred in the Grand River Watershed, including wetlands and riparian corridors, as well as Lake Su An and Pickerel Creek Wildlife Areas.  |

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| <b>B-5</b>   | <b>Continue development, refinement, and measurement of OEPA's Index of Biotic Integrity by 2005 – adopt as metrics for the Lake Erie Quality Index. OEPA, ODNR</b>  |   |  |
|  | <ul style="list-style-type: none"> <li>• <b>Develop separate integrated index that incorporates plankton, benthic invertebrates and higher vertebrates as indicator species for:</b> <ul style="list-style-type: none"> <li>• <b>Lake Erie tributary communities.</b></li> <li>• <b>Lake Erie nearshore communities.</b></li> <li>• <b>Lake Erie coastal wetland communities.</b></li> <li>• <b>Lake Erie offshore communities.</b></li> </ul> </li> </ul> |   |  |
| <b>ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water- OEPA</b> |  |   |  |
| <b>Year</b>  | <b>Agency</b>  | <b>Action</b>   | <b>Status</b>  |
| 2003   | OEPA   | Developed Qualitative Habitat Evaluation Index (QHEI) for Lake Erie shoreline and lacustuaries to provide standardized method to assess fish and habitat quality in the Lake Erie coastal areas. Draft manual completed and field tested in 2003.   | Final manual and field scoring sheet expected in 2004. |
| 2002   | LEC  | Lake Erie Protection Fund grant (\$10K) awarded to the Ohio State University Research Foundation to generate and compare benthic IBIs between stands of Phragmites and cattails in the Old Woman Creek coastal wetland.   | Results expected in 2004.                              |
| 2001   | LEC  | Grants awarded through the Commission's Lake Erie Quality Index development work to design indices of biotic integrity for: <ul style="list-style-type: none"> <li>- offshore Lake Erie plankton (Dr. David Culver)</li> <li>- offshore Lake Erie fish (Dr. Mark Kershner)</li> <li>- Lake Erie coastal wetlands (Dr. David Johnson)</li> </ul> | Draft results received in 2003.                        |
| 2000-04  | OEPA   | Indices for fish have been developed for the Lake Erie shoreline and lacustuaries. Fish biocriteria are used in evaluating shoreline and lacustuary (river mouth) areas but a rulemaking to incorporate these biocriteria into the Ohio Water Quality Standards is not yet scheduled.   | Ongoing  |
| 2000-04  | OEPA   | Indices for macrobenthic invertebrates have been developed for lacustuaries, but additional field work is needed to verify them and develop criteria for the nearshore.   | Ongoing  |

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| <b>B-6</b>   | <b>Establish monitoring network and evaluate above indices every five years and publish in Lake Erie Quality Index. <i>Lake Erie Commission</i></b> |  |  |
| <b>ACTION COORDINATOR: Lake Erie Office/Commission</b> |   |  |  |
| <b>Year</b>  | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>  |
| 2004   | LEC   | Scheduled released of next <i>Ohio State of the Lake Report: Lake Erie Quality Index</i> .   | Expect final copy in September 2004.                 |
| 1998   | LEC   | Released <i>Ohio State of the Lake Report: Lake Erie Quality Index</i> . Report included 34 different measurements of Lake Erie environmental, recreational and economic quality. The LEQI was the first published set of indicators for an ecosystem as large and complex as Lake Erie and its watershed. It is intended that an LEQI would be compiled and released every 5 years. | Over 5,000 copies distributed worldwide.<br>Complete |

# COASTAL RECREATION

|             |  |  |               |
|-------------|--|--|---------------|
| <b>CR-1</b> | <p><b>Make coastal parcels a high priority for state acquisition through direct purchases or purchases of conservation easements. <i>ODNR, Ohio General Assembly.</i></b></p> <ul style="list-style-type: none"> <li>• <b>Create list of high priority parcels for purchase when available or other protection strategies by 2001.</b></li> <li>• <b>Create special fund by 2002 for property purchases or purchase of easements on valuable coastal properties for recreation and habitat conservation.</b></li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2003        | ODNR   | The Office of Coastal Management received funds from NOAA through the annual OCMP grant award to develop a Coastal and Estuarine Land Conservation Plan needed in order to participate in the Coastal and Estuarine Land Conservation Program. They have initiated actions for the development of this plan which must include an assessment of priority land conservation needs.  | Ongoing       |
| 2001-03     | ODNR   | The Office of Coastal Management administered a 2001 federal one-time appropriation for Great Lakes Coastal Restoration Grants. Ohio's portion of the \$30 million appropriation was split between state and local projects. The most significant state project was the acquisition of 10 acres of shoreline property adjacent to the Marblehead Lighthouse State Park. Nine local projects were awarded, with seven for acquisition projects involving wetlands and floodplain/corridor. Seven new projects were awarded through a supplemental project, with five for the fee or easement acquisition of critical riparian areas or for riparian restoration. More information can be found at the Office of Coastal Management website under Great Lakes Coastal Restoration Projects: A Progress Report to Congress. | Ongoing       |

| <b>CR-2</b> | <p><b>Continue to work with local governments to assist with development and funding of bike and pedestrian facilities. <i>ODNR, ODOT, Lake Erie Commission</i></b></p> <ul style="list-style-type: none"> <li>• <b>Create spurs and side trips to Ohio Lake Erie attractions.</b></li> <li>• <b>Create adjoining bikeways/hikeways along Ohio's Lake Erie Circle Tour route.</b></li> <li>• <b>Set goal of providing a biking/hiking route from Michigan to Pennsylvania linking cultural, natural, historical and recreational resources.</b></li> </ul> <p><b>ACTION COORDINATOR: Sharon Todd, Office of Local Assistance - ODOT</b></p> |   |                                    |
|-------------|---|---|------------------------------------|
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>                      |
| 2003        | ODOT  | Erie County, City of Sandusky. Provided federal funds to create the 1.14 mile-long Bayfront Bikeway.  | Complete                           |
| 2002        | ODOT  | Cuyahoga County, City of Cleveland, western half of Lakefront Bikeway. Project provided federal funds to construct a tunnel under the Conrail main line tracks, and signs a route for bicyclists to travel between Edgewater Park to E. 9 <sup>th</sup> St. in downtown Cleveland. Distance is 6.42 miles, incorporating 1.9 miles of the Edgewater Park Bike Path and 4.5 miles of city streets and bridges. | Complete                           |
| 2001        | ODOT  | Lorain County, Black River Intermodal Center. Provided federal funds to construct a building that will allow people to transfer from one mode to another (bikes, cars, buses, water taxis, etc). Trains are also planned.   | Construction started in 2002.      |
| 2001        | ODOT  | Ashtabula County, Geneva-on-the-Lake. Provided federal funds to add shoulders to 0.87 mile section of SR 531 between the county park at Road and Geneva-on-the-Lake's east corporate line.  | Withdrawn due to local opposition. |

| <b>CR-3</b> | <p><b>Use federal and state authorities to designate underwater sanctuary reserves to protect valuable Lake Erie underwater habitat and archaeological sites by 2001.</b><br/> <b>ODNR</b></p> <ul style="list-style-type: none"> <li><b>Create beach embarkation points for shore accessible dive destinations.</b></li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |   |               |
|-------------|--|---|---------------|
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>   | <b>Status</b> |
| 2003        | ODNR,<br>OHS   | The Lake Erie Shipwreck Research Center at the Great Lakes Historical Society accomplished several actions funded by a grant through the Office of Coastal Management. These actions include operating the center as a facility open to the general public: data accumulation and digitization of information on Lake Erie shipwrecks, outreach to the general public about the existence and current state of Lake Erie shipwrecks, and outreach to the diving community by planning and implementing a series of workshops for divers culminating in an underwater survey of a Lake Erie shipwreck. | Ongoing       |
| 2002-03     | ODNR   | The Office of Coastal Management held three public meetings on proposed underwater preserves in the Lake Erie Islands area. The Office has received comments on the proposed plan and continues to work with local communities and diving interests. Approximately 500 information packets with surveys were distributed on the proposed preserves. Based on these responses, a need for more research was identified and therefore a side scan sonar survey was done to investigate the presence of shipwrecks in the area of the islands.   | Complete      |

# BOATING

|             |   |  |               |
|-------------|---|--|---------------|
| <b>BT-1</b> | <p><b>Establish an objective for Boat Dockage for inclusion in the 2004 Lake Erie Quality Index. Then, implement a program to achieve the LEQI objective by 2010. <i>ODNR, ODH</i></b></p> <ul style="list-style-type: none"> <li>• <b>Provide public operated or partner with private marinas to provide full-service transient dockage at least every 15-25 miles along Ohio's lake Erie shoreline at market rates.</b></li> <li>• <b>Give high priority for expanding transient dockage at the Lake Erie islands and Cleveland's Inner Harbor.</b></li> </ul> <p><b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b></p> |  |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b> |
| 2003        | ODOD,<br>OEPA   | Bayfront Paper in Sandusky is utilizing Clean Ohio Funds to establish public access to Lake Erie through transient boat dockage.   | Ongoing       |
| 2002-03     | ODNR  | "Boating On Ohio Waterways-A-Plan for Access and Use Management," completed in 2002, studied public boat dockage needs on Lake Erie. ODNR will have a completed regional analysis that will provide a basis for public boat dockage objectives.  | Complete      |
| 2001-02     | ODNR  | Created and filled boating facility grant coordinator position in northern Ohio to specifically address boat transient docking facility needs in Lake Erie region and then assist facility management organization to address needs and successfully compete for financial assistance from the Waterways Safety Fund when desired. Position will also be able to provide support in applying for federal financial assistance for projects in that region. | Ongoing       |
| 2001        | ODNR  | ODNR made 3 applications to the USFWS for funding assistance through the Big Program (FY 2000, 2001, and 2002) to increase the amount of transient dockage suitable for boats over 26 ft.  | Complete      |
| 2001        | ODNR  | Analyzed condition and distribution of facilities from survey data to determine the need for new or improved publicly owned docks. The results from the survey will allow ONDR to identify areas of most need and target agencies to apply for grants. The database will be updated and maintained periodically.   | Complete      |

**BT-1 Continued**

|         |      |  |          |
|---------|------|--|----------|
| 2000-03 | ODNR | ODNR purchased approximately 124 acres on Middle Bass Island formerly known as the Lonz Winery property. With this purchase, Ohio has established the 74th state park in Ohio which includes the old Lonz marina with 48 transient slips. Future development of the park will include the expansion of the marina, development of new day-use facilities, overnight facilities and other amenities to attract boaters. | Ongoing  |
| 2000    | ODNR | Completed a survey of existing private and public facilities, including transient dock facilities on Lake Erie. Data on numbers, location and condition of existing dock facilities and are given in the publication, "Ohio's Public Boating Facilities."  | Complete |

|             |  |  |               |
|-------------|--|--|---------------|
| <b>BT-2</b> | <p><b>Establish an objective for Launching Facilities for inclusion in the 2004 Lake Erie Quality Index. Then implement a program to achieve the LEQI objective by 2010.</b><br/> <b>ODNR</b></p> <ul style="list-style-type: none"> <li>• <b>Consider boat launch access initiatives to Lake Erie tributaries and rivers as well as direct Lake access.</b></li> </ul> <p><b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b></p> |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2002-03     | ODNR   | "Boating on Ohio Waterways-A-Plan for Access and Use Management," completed in 2002, studied boat launching needs on Lake Erie and its tributaries and rivers.   | Complete      |
| 2001-02     | ODNR   | Created and filled boating facility grant coordinator position in northern Ohio to specifically address launch facility needs in the Lake Erie region and then assist land management agency to address needs and successfully compete for financial assistance from the Waterways Safety Fund when desired. Position will also be able to provide support in applying for federal financial assistance for projects in that region. | Ongoing       |
| 2001        | ODNR   | Cleveland Lakefront State Park, Edgewater ramp reconstruction completed by 2001 boating season.  | Complete      |
| 2001        | ODNR   | Analyzed condition and distribution of facilities from survey data to determine the need for new or improved publicly owned launch access facilities.  | Complete      |
| 2000        | ODNR   | Completed a survey of existing private and public facilities, including launching facilities on Lake Erie. The public facilities are in the publication, "Ohio's Public Boating Facilities."   | Complete      |

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|-------------|--|--|---------------|
| <b>BT-3</b> | <b>Evaluate all state-operated launch facilities and make improvements when appropriate by 2010. ODNR</b> <ul style="list-style-type: none"> <li>• <b>Expand the number of lanes.</b></li> <li>• <b>Increase available parking.</b></li> <li>• <b>Improve lighting and security.</b></li> <li>• <b>Improve access roads and signage.</b></li> <li>• <b>Make grants/loans available for local ramp developers.</b></li> </ul> <b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b> |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2002-03     | ODNR   | “Boating on Ohio Waterways-A-Plan for Access and Use Management,” completed in 2002, studied boat launching needs on Lake Erie and its tributaries and rivers.   | Complete      |
| 2001-02     | ODNR   | Created and filled boating facility grant coordinator position in northern Ohio to specifically address launch facility needs in the Lake Erie region and then assist land management agency to address needs and successfully compete for financial assistance from the Waterways Safety Fund when desired. Position will also be able to provide support in applying for federal financial assistance for projects in that region. | Ongoing       |
| 2001        | ODNR   | Cleveland Lakefront State Park, Edgewater ramp reconstruction completed for 2001 boating season.   | Complete      |
| 2001        | ODNR   | Analyzed condition and distribution of facilities from survey data to determine the need for new or improved publicly owned launch access facilities.  | Complete      |
| 2000        | ODNR   | Completed survey of existing private and public facilities, including launching facilities on Lake Erie.   | Complete      |

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|-------------|--|--|---------------|
| <b>BT-4</b> | <b>Periodically evaluate the percentage of fuel purchased in Ohio that is used by recreational boats. Use this information to make adjustments to the funds appropriated to the Waterways Safety Fund. ODNR, Ohio General Assembly</b> |  |               |
|             | <b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b>  |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2002-03     | ODNR   | Updated survey motorboat fuel consumption completed. Results were provided to appropriate decision-makers.   | Complete      |
| 2001        | ODNR   | Budget requests were made to have an additional 1/8 of 1% go to the Waterways Safety Fund (WWSF) and 1/8 of 1% go to a new Boater Angler Fund that would be administered by the ODNR- Division of Wildlife.  | Complete      |
| 1998-99     | ODNR, LSC  | The Legislative Service Commission (LSC) provided an analysis of motorboat fuel consumption to the General Assembly. It stated that "An increase in the allocation to a full 1% or even 1.25% appears sustainable from the data gathered." The portion of fuel tax distributed to the Waterways Safety Fund rose from .5% to .75%. | Complete      |

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| <b>BT-5</b> | <b>Make boater registration available online on the Internet by 2003. ODNR</b> |  |               |
|             | <b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b>  |  |               |
| <b>Year</b> | <b>Agency</b>  | <b>Action</b>  | <b>Status</b> |
| 2001-03     | ODNR   | E-agent system made available online. Both agents and boaters have enhanced registration services. This system allows agents to directly access the Watercraft Information System database and issue the registration instead of the current paper system. The boater has enhanced look-up capability to public record information from their home PC. | Complete      |
| 2001        | ODNR   | Boat E-renewal registrations began January 2001. As of May 20, 2001; 2,512 E-renewals had been received and processed.   | Complete      |

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| <b>BT-6</b> | <p><b>Increase the presence and activity of state and local law enforcement on Lake Erie and stiffen boating operation laws. <i>ODNR, Ohio General Assembly</i></b></p> <ul style="list-style-type: none"> <li>• <b>Increase the number of Ohio watercraft officers and explore opening one additional Lake Erie field office.</b></li> <li>• <b>Double the number of annual check points/boardings.</b></li> <li>• <b>Provide support facilities (secure impoundment areas) for more stringent enforcement of all boating safety laws.</b></li> </ul> <p><b>ACTION COORDINATOR: Kenneth Alvey; Chief, Division of Watercraft- ODNR</b></p> |   |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b> |
| Ongoing     | ODNR  | Coordinate with the U.S. Coast Guard and their six stations on Lake Erie, in Ohio, to provide additional patrols and supports on the waters.  | Ongoing       |
| Ongoing     | ODNR  | Contracted with local marinas in Lake Erie region to secure boat lift and vessel storage of impounded or seized vessels.  | Ongoing       |
| 2002        | ODNR  | Increased presence and activity of state and local law enforcement on Lake Erie. In 2002, logged more patrol hours than in any other year.  | Complete      |
| 2002        | ODNR  | Increased the size and number of boat impoundment areas (both indoor and outdoor secure storage) as Watercraft offices are built or remodeled. This provided safe, secure storage of trailerable vessels seized or impounded during enforcement actions.                                      | Complete      |
| 2002        | ODNR  | Increased Marine Patrol equipment loan program to \$250,000 annually. Provided newer and safer patrol vessels to Lake Erie Marine Patrols to enhance law enforcement presence.  | Complete      |
| 2002        | ODNR  | Encouraged establishment of local Marine Patrols in areas of need, i.e. Port Clinton, Erie County and Ashtabula County. This created a marine law enforcement presence in areas presently served by Division of Watercraft only and Increased the number of check points and safety presence. | Complete      |
| 2002        | ODNR  | Increased funding to Marine Patrol grant program from \$500,000 in 2001 to \$550,000 in 2002 and \$600,000 in subsequent years. Also, increased the cap on the amount of assistance that a Marine Patrol can receive from \$30,000/year to \$35,000/year to adjust for future inflation.      | Complete      |
| 2000-03     | ODNR  | In 2000, established Watercraft Officer presence in former USCG Ashtabula Station for law enforcement.  | Complete      |
| 2000-01     | ODNR  | Hired additional state watercraft officers and cadets statewide. In Lake Erie region, officers also redistributed to locations that reduce travel time on the road to get to patrol sites.  | Complete      |

# FISHING

| <b>F-1</b>  | <b>Identify, designate and enforce special protection areas for offshore reefs, nearshore areas, and tributaries that are essential for the propagation of Lake Erie sportfish by 2010. ODNR, Ohio General Assembly</b> <ul style="list-style-type: none"> <li>• <b>Special Protection Areas will be protected from inappropriate development, waste disposal, overfishing and mineral extraction damages.</b></li> <li>• <b>To extent feasible, hydrological connections should be maintained or reestablished.</b></li> </ul> |   |  |
|---|---|---|--|
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |   |   |  |
| Year  | Agency  | Action  | Status   |
| 2001-10   | ODNR  | Identify, appraise, and inventory critical habitats for Lake Erie fishes and develop a prioritization scheme for habitat protection and restoration.  | Ongoing  |
| 2001-03   | ODNR  | Continued enforcement of commercial and sportfishing regulations in areas identified in Ohio Revised Code and the Ohio Administrative Code, including special projects such as undercover work on illegal perch sales by anglers. | Ongoing  |
| 2000-01   | ODNR  | Funded research into Lake Erie smallmouth bass habitats.  | Research resulted in the development of regulations to protect spawning smallmouth bass from goby predation to their eggs. |

| <b>F-2</b>  | <b>Reestablish viable fisheries for Lake Sturgeon, Muskellunge and Northern Pike by 2025. ODNR</b> <ul style="list-style-type: none"> <li>• <b>Evaluate and establish catch rate goals for 2005 management plan.</b></li> </ul> |  |                           |
|---|---|--|---------------------------|
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |   |  |                           |
| Year  | Agency  | Action   | Status                    |
| 2001-03   | ODNR  | Continued support for funding research projects through the Great Lakes Fish Commission, the Great Lakes Protection Fund, and CARA.  | Ongoing                   |
| 2001  | LEC   | Lake Erie Protection Fund grant (\$10K) awarded to The Ohio State University Research Foundation to study the reproductive physiology, nutrition, and gamete viability of lake sturgeon. | Results expected in 2004. |

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| <b>F-3</b>  | <b>Evaluate the impacts and effectiveness of offshore artificial reefs as a method for expanding fisheries in Lake Erie. <i>ODNR, Lake Erie Commission, Ohio Sea Grant</i></b> |   |  |
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |  |   |  |
| <b>Year</b>   | <b>Agency</b>  | <b>Action</b>   | <b>Status</b>  |
| 2001-03   | ODNR   | Continued creel surveys to measure effort and catch at reef areas.                | Angler surveys show improvements in the harvest of yellow perch and declines in walleye and smallmouth bass. Angling effort continues to be less than it was 5-10 years ago. |
| 2001-03   | ODNR   | Continued to identify reef locations by identification buoys and GPS coordinates. | Ongoing  |

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| <b>F-4</b>  | <b>Establish an objective for Shoreline Fishing for inclusion in the 2003 Lake Erie Quality Index. Then, implement a program to achieve the LEQI objective by 2010. <i>ODNR</i></b> |   |  |
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |   |   |  |
| <b>Year</b>   | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>  |
| 2002  | LEC   | Lake Erie Protection Fund grant (\$10K) awarded to Ohio Sea Grant to conduct a preliminary study of Ohio's Lake Erie tributary steelhead anglers. This study will document the impacts, needs, issues, and value of the stream steelhead fishery. | Results expected in 2005.  |
| 2001  | ODNR  | Implemented Lake Erie tributary creel survey on the Maumee and Sandusky Rivers to resume effort and catch.  | Angler surveys on rivers were used to evaluate the effectiveness of potential changes to the walleye bag limit. Complete |

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| <b>F-5</b>  | <b>Evaluate all state fishing facilities and make necessary improvements by 2005. This effort will emphasize: <i>ODNR</i></b> <ul style="list-style-type: none"> <li>• Installation of weather protection structures (roofs and wind blocks).</li> <li>• Safety and handicap accessibility of approaches and fishing areas.</li> <li>• Restroom facilities.</li> <li>• Cleaning tables and refuse disposal.</li> <li>• Aesthetics and natural landscaping of facilities and surroundings.</li> </ul> |  |   |
| <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b> |  |  |   |
| <b>Year</b>   | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>   |
| 2001-10   | ODNR   | Evaluate existing facilities and incorporate angler recruitment and retention goals in decision process. | Ongoing   |
| 2001-03   | ODNR   | Continued operation and maintenance at ODNR facilities.  | An engineering study is being conducted at Castalia Fish Hatchery for capital improvements to the facility. |

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| <b>F-6</b>   | <b>Provide timely and consistent publication and dissemination of fish consumption advisory information by 2001 (See WQ-2). <i>ODNR, ODH, OEPA</i></b> |  |   |
| <b>ACTION COORDINATOR: Lisa Morris; Chief, Division of Surface Water- OEPA</b> |  |  |   |
| <b>Year</b>  | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>   |
| 2003-04  | LEC  | Lake Erie Protection Fund grant (\$10K) awarded to Ohio Environmental Council to assist in outreach to sensitive populations in the Lake Erie basin. | Ongoing   |
| 2001-03  | ODNR   | Continued to provide OEPA fish tissue samples for contaminant analyses.  | Developed and implemented information and education items (e.g. guides, radio spots, pamphlets) to promote fishing. Ongoing |

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| <b>F-7</b>  | <b>Develop portable program and equipment for a beginner fishing class that can be implemented through existing clubs and organizations by 2003. ODNR</b> |   |   |
|             | <ul style="list-style-type: none"> <li>• Maintain and expand Hooked on Fishing Not on Drugs program and other programs to promote fishing.</li> </ul>     |   |   |
|             | <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b>   |   |   |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>   |
| 2001-10     | ODNR  | Increase ODNR's efforts towards recruitment and retention of anglers.                                 | Currently assisting in the development of a data warehouse of user information. |
| 2001-10     | ODNR  | Develop curriculum and hold workshops for conservation organizations to work with their constituents. | Ongoing   |

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| <b>F-8</b>  | <b>Produce and widely disseminate a guidebook on "smart" ice fishing that includes public access points, parking availability and associated services by 2001. ODNR</b> |  |  |
|             | <b>ACTION COORDINATOR: Steven Gray; Chief, Division of Wildlife- ODNR</b>   |  |  |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>  | <b>Status</b>  |
| 2001-03     | ODNR  | Formulate strategies to increase public awareness on the dangers involved with ice fishing on Lake Erie. | No results relating to increased public awareness on the dangers involved with ice fishing on Lake Erie. |

# BEACHES

|              |  |   |               |
|--------------|--|---|---------------|
| <b>BCH-1</b> | <p>Establish an objective for Beach Availability for inclusion in the 2004 Lake Erie Quality Index. Then, implement a program to achieve the LEQI objective by 2015.</p> <p><b>ODNR</b></p> <ul style="list-style-type: none"> <li>• Inventory beaches to produce an accurate assessment of available public swimming beaches and public demand.</li> <li>• Prioritize the acquisition of available tracts of Lake Erie beach properties and acquire them.</li> <li>• Seek partnerships with local governments and organizations to provide public access to beaches.</li> <li>• Reestablish or maintain new public beaches using beach nourishment technologies where feasible.</li> </ul> <p><b>ACTION COORDINATOR: David Mackey; Chief, Office of Coastal Management-ODNR</b></p> |   |               |
| <b>Year</b>  | <b>Agency</b>  | <b>Action</b>   | <b>Status</b> |
| 2002-03      | ODNR   | Coastal Management Assistance Grant projects were awarded to improve public access at Overlook Beach Park Stairway at Mentor-on-the-Lake and Miller Park Beach Access at Avon Lake. | Ongoing       |
| 2001-03      | ODNR   | Use new and existing survey information (Statewide Comprehensive Outdoor Recreation Plan) to evaluate public demand for beach facilities and public satisfaction.                   | Ongoing       |

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| <b>BCH-2</b> | <b>Evaluate and make necessary improvements at all state-managed beaches by 2010 to include: <i>ODNR</i></b>   |   |               |
|              | <ul style="list-style-type: none"> <li>• <b>Improved access.</b></li> <li>• <b>Parking.</b></li> <li>• <b>Concessions.</b></li> <li>• <b>Services.</b></li> <li>• <b>Safety and security.</b></li> </ul> |   |               |
|              | <b>ACTION COORDINATOR: Dan West; Chief, Division of Parks &amp; Recreation- ODNR</b>   |   |               |
| <b>Year</b>  | <b>Agency</b>  | <b>Action</b>   | <b>Status</b> |
| 2002-05      | ODNR – Parks   | Planning and development initiatives are underway for state park facilities on Middle Bass Island, a preliminary management plan has been drafted for park operations on North Bass Island, a public lodge partnership initiative at Geneva state Park is scheduled to open in Spring 2004, a hillside bluff stabilization construction project is underway at Cleveland Lakefront State Park, and beach area wastewater collection system improvements are slated for construction at East Harbor. | Ongoing       |
| 2001-03      | ODNR   | Surveyed all 50 states regarding wide variety of beach operation issues, both on coastal and inland beaches and identified other successful models of beach operations and concessions for adoption by Ohio State Parks.  | Complete      |
| 2001-03      | ODNR   | Identified under-used existing facilities. Encourage use of these areas through advertising and promotional activities.   | Ongoing       |
| 2001-03      | ODNR   | Surveyed beach users for additional activities and amenities desired at beach areas.  | Ongoing       |

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| <b>BCH-3</b> | <b>Organize local sponsorship and stewardship programs to maintain state managed beaches by 2005. <i>ODNR</i></b> |   |  |
|              | <b>ACTION COORDINATOR: Dan West; Chief, Division of Parks &amp; Recreation- ODNR</b>                              |   |  |
| <b>Year</b>  | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>  |
| Ongoing      | LEC   | Coordinate Ohio's annual Coastweeks Program consisting of beach cleanups along the shoreline.   | In 2003, cleanups were held at 18 different locations.                         |
| 2001-03      | ODNR  | Beach cleanups conducted at Kelleys and South Bass Islands and Geneva, Headlands, Cleveland Lakefront and Crane Creek beaches.  | Ongoing  |
| 2001-03      | ODNR  | Ohio State Parks redirected the efforts of its volunteer program towards beach cleanup programs, completed two combined sanitary/storm water improvement projects, and funded a second beach cleaning unit that cleans all state park Lake Erie beaches at least two times each season. | Customer satisfaction has improved to over 85% via measured feedback. Complete |

# TOURISM

| <b>T-1</b> | <p><b>Implement comprehensive program to promote cultural and eco-tourism as tools to expand Lake Erie tourism revenues and conserve natural and cultural resources by 2002. <i>ODOD, ODNR, Lake Erie Commission</i></b></p> <ul style="list-style-type: none"> <li>• <b>Provide training to business owners, local officials and natural resource managers to better capture eco-tourism dollars.</b></li> <li>• <b>Provide grants for signage, trails, landscaping, security, access and parking at suitable natural areas and cultural landmarks.</b></li> <li>• <b>Increase state staffing of naturalists to provide better customer service to eco-tourists at state facilities.</b></li> <li>• <b>Partner with county tourism bureaus in developing and implementing a comprehensive strategic plan to promote cultural and eco-tourism.</b></li> <li>• <b>Review ways to improve signage to tourism attractions along the lake and tributaries. <i>ODOT</i></b></li> </ul> <p><b>ACTION COORDINATOR: Lake Erie Office/Commission</b></p> |   |          |
|------------|---|---|----------|
| Year       | Agency  | Action  | Status   |
| 2001-03    | LEC   | Lake Erie Protection Fund grant (\$275K) awarded to Ottawa County Visitors Bureau for project "Lake Erie Heritage Area: Implementation Plan for Economic Development and preservation of the Lake's Historical and Natural Resources." Management Study and Resource Inventory completed in spring of 2002. Database of 275 historical natural sites constructed. Lake Erie Coastal Ohio incorporated in March of 2002. Web site created that links sites available at <a href="http://www.coastalohio.com">www.coastalohio.com</a> . | Ongoing  |
| 2001-03    | OEPA  | OEEF award (\$50,000) to Audubon Ohio to demonstrate economic benefits of habitat preservation and birding-related ecotourism, including workshops in Erie, Lorain and Ottawa Counties for the Lake Erie Wing Watch.  | Complete |
| 2001       | ODOD  | Awarded grant to Lake Erie Circle Tour to undertake an inventory of all heritage tourism assets in the Lake Erie Heritage Area. Information generated from the inventory will be developed into a marketing strategic plan to market the North Coast as an international destination for heritage tourism. Inventory available at <a href="http://www.fermatainc.com/lake_erie/page_2.html">www.fermatainc.com/lake_erie/page_2.html</a> .  | Complete |
| 2001       | Lake Erie Circle Tour   | Lake Erie Circle Tour team applied for and received designation for "Lake Erie Heritage Area". Effort is centered on developing and marketing the coastal natural, recreational, historic, and cultural tourism assets.   | Ongoing  |

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| <b>T-2</b>   | <b>Support the reestablishment of the Great Lakes cruising industry.</b> <ul style="list-style-type: none"> <li>• <b>Work to attract cruise liners into the Great Lakes and include Ohio ports-of-call in their cruise itineraries</b></li> </ul> |   |                           |
| <b>ACTION COORDINATOR: Lake Erie Office/Commission</b> |   |   |                           |
| <b>Year</b>  | <b>Agency</b>   | <b>Action</b>   | <b>Status</b>             |
| 2001   | LEC   | Lake Erie Protection Fund grant (\$7.5K) awarded to Toledo-Lucas County Port Authority to support Ohio membership in Great Lakes Cruising Marketing effort. This organization markets internationally to cruise lines to entice cruise liners to include Great Lakes itineraries. | Results expected in 2004. |

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| <b>T-3</b>  | <b>Enhance the Lake Erie Circle Tour by 2003. ODOT, Lake Erie Commission, ODOD</b> <ul style="list-style-type: none"> <li>• <b>Ensure route appears on state road maps.</b></li> <li>• <b>Maintain and improve signage to ensure that the Lake Erie Circle Tour is recognized at major intersections.</b></li> <li>• <b>Enhance appearance of Tour destinations through Kiosks, shelters, signage, etc.</b></li> <li>• <b>Incorporate adjoining bikeways/hikeways, natural preserves and cultural landmarks with Lake Erie Circle Tour.</b></li> </ul> |  |   |
| <b>ACTION COORDINATOR: Sharon Todd; Office of Local Assistance - ODOT</b> |  |  |   |
| <b>Year</b>   | <b>Agency</b>  | <b>Action</b>  | <b>Status</b>                                 |
| 2003  | LECO   | Developed recommendations for a Lake Erie Coastal Trail to offer better views of the lake and its communities. Submitted an application for Trail to become an Ohio Scenic Byway.              | Results of application to be decided in 2005. |
| 2003  | ODOT   | Ottawa County, South Bass Island. Provided federal funds to add shoulders to each side of Langram Road between the ferry dock and downtown Put-In-Bay, and mark them as bike lanes.            | Construction ongoing.                         |
| 2002  | ODNR   | Cuyahoga County. ODNR awarded Clean Ohio Funds for construction of 1.1 mile of towpath, between E. 49 <sup>th</sup> Street and Washington Park Blvd., Cleveland.                               | In design phase.                              |
| 2002  | ODOT   | Lucas County, City of Oregon. Provided federal funds to build 0.6 mile bike path from the Eagle Landing Golf Course and Residential Community north, connecting to the Bay Shore Road Bikeway. | Complete                                      |
| 2002  | ODOT   | Ashtabula County. Provide federal funds to build 8 miles of rail-trail on the former Conrail right-of-way.   | Complete                                      |
| 2000  | ODOT   | Provided funds to Lake County Metroparks to build a 5.8 mile rail-trail on former B&O Railroad right-of-way beginning in Painesville at Jackson Street and continuing south to Colburn Road.   | Complete                                      |

# SHIPPING

|             |   |   |               |
|-------------|---|---|---------------|
| <b>S-1</b>  | <b>Implement Ship Ohio Program by 2002. ODOD, Ohio General Assembly</b> <ul style="list-style-type: none"> <li>• Supports the development and use of Ohio's ports.</li> <li>• Establish position of Ship Ohio coordinator within Ohio Department of Development.</li> </ul> <b>ACTION COORDINATOR: James Seney; Ohio Port Authority Council</b> |   |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b> |
| 2003        | Cleveland Port Authority, NOACA   | Feasibility study initiated in conjunction with Canadian government to evaluate supporting a Trans-Erie truck carrying ferry service.   | Ongoing       |
| 2003        | ODOD, ODOT, ORDC, USACE   | Completed water transportation commodities freight study: <i>Nexis Ohio: Multimodal Opportunities for Economic Development</i> . Identified Ohio's water transportation system and opportunities. | Complete      |
| 2001-03     | ORDC  | Administered capital grants and loans program for rail-related projects at Ohio ports.  | Ongoing       |

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| <b>S-2</b>  | <b>Direct Great Lakes regional management forums to support interests of Great Lakes shipping community by 2002. ODOD</b> <ul style="list-style-type: none"> <li>• Develop Ship Great Lakes initiative.</li> <li>• Encourage the completion of a 50-year St. Lawrence Seaway strategic plan.</li> </ul> <b>ACTION COORDINATOR: James Seney; Ohio Port Authority Council</b> |   |               |
| <b>Year</b> | <b>Agency</b>   | <b>Action</b>   | <b>Status</b> |
| 2003        | USDOT, USACE, Transport Canada  | Initiated study of Great Lakes-St. Lawrence Seaway navigation system to evaluate actions and funding required to maintain the existing navigation system through the year 2060. | Ongoing       |
| 2001-03     | ODOD, ODOT  | Worked with the Great Lakes Commission to actively support their efforts on the 50-year St. Lawrence Strategic Plan.  | Ongoing       |

| <b>S-3 Include intermodal transportation access to seaports in strategic highway planning. ODOT</b> |               |  |               |
|---|---------------|--|---------------|
| <b>ACTION COORDINATOR: Suzann Rhodes; Administrator, Office of Urban Corridor Planning - ODOT</b>   |               |  |               |
| <b>Year</b>   | <b>Agency</b> | <b>Action</b>  | <b>Status</b> |
| 2002-03   | ODOT          | ODOT continues to work with Ohio Port Authorities to identify and fund projects which can improve intermodal access to Ohio ports. While ODOT is limited to using its funding for roadway projects, <i>ACCESS OHIO</i> includes a chapter on water transportation. The draft plan, to be distributed in the spring of 2004, identifies future projects and strategies to support port development in Ohio. | Ongoing       |
| 2002-03   | ODOT          | ODOT funded and provided staff to support two transportation studies which evaluated freight transportation conditions and needs. These studies provided the basis for recommendations in <i>ACCESS OHIO</i> , the statewide long-range transportation plan.   | Complete      |
| 2001  | ODOT          | ODOT provided \$3.3 million to upgrade the SR2 interchange and ramps to improve truck access to the Port of Cleveland.   | Complete      |
| 2001  | ODOT          | ODOT provided \$320 million to construct the new Maumee River Crossing at 1-280 in that serves the Port of Toledo. The bridge and improved traffic access accommodate Michigan truck weights and eliminate the need for draw bridge traffic. The project should be completed in 2005.  | Ongoing       |