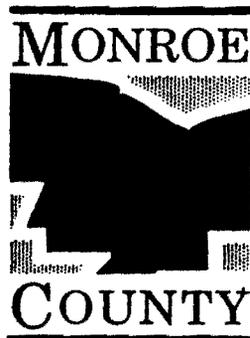
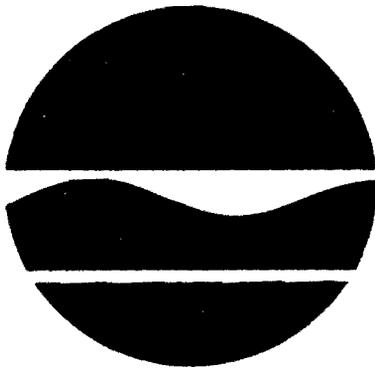


# Rochester Embayment Remedial Action Plan Stage I



August 1993

New York State Department of Environmental Conservation  
MARIO M. CUOMO, *Governor* and THOMAS C. JORLING, *Commissioner*

Monroe County Department of Planning and Development

ROBERT L. KING, *County Executive*  
ROCCO DiGIOVANNI, *Director of Planning*



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**ROCHESTER EMBAYMENT  
REMEDIAL ACTION PLAN  
STAGE 1**

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**AUGUST 1993**

**Copies available from: Monroe County Department of Planning and Development  
47 South Fitzhugh Street  
Rochester, N.Y. 14614**

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## ACRONYMS and ABBREVIATIONS

AOC	Area of Concern
AROI	Atmospheric Region of Influence
ASCS	Agricultural Stabilization & Conservation Service
BTX	Benzene Toluene & Xylene
CCIW	Canada Center for Inland Waters
CFS	Cubic Feet per Second
CFR	Code of Federal Regulations
CGR	Center for Governmental Research
COD	Chemical Oxygen Demand
COE	Corps of Engineers (US Army)
CSO	Combined Sewer Overflow
CSOAP	Combined Sewer Overflow Abatement Program
CWA	Clean Water Act
DDE	Dichlorodiphenyl dichloroethylene (banned pesticide)
DDT	Dichlorodiphenyl trichlorethane (banned pesticide)
DEC	Department of Environmental Conservation (New York State)
DEIS	Draft Environmental Impact Statement
DOH	Department of Health (New York State)
DOT	Department of Transportation (New York State)
ECL	Environmental Conservation Law
EDR	Environmental Design and Research
EMC	Environmental Management Council (Monroe County unless specified)
EPA	Environmental Protection Agency (U.S.)
ESLO	Empire State Lake Ontario (Trout and Salmon Derby)
FDA	Food and Drug Administration
GBS	Genesee Basin Subcommittee
GCO	Gates-Chili-Ogden Wastewater Treatment Plant
GPG	Government Policy Group
GLWQA	Great Lakes Water Quality Agreement
IFYGL	International Field Year on the Great Lakes
IJC	International Joint Commission
LOCBIBS	Lake Ontario Central Basin/Irondequoit Basin Subcommittee
LOWBS	Lake Ontario West Basin Subcommittee
LWRP	Local Waterfront Revitalization Plan
MCDOH	Monroe County Department of Health
MCL	Maximum Contaminant Level
MCWA	Monroe County Water Authority
MDL	Minimum Detection Limit
MGD	Million Gallons per Day
NOAA	National Oceanic and Atmospheric Administration
NTU	Nephelometric Turbidity Unit
NURP	Nationwide Urban Runoff Program
NYCRR	New York Code of Rules and Regulations

NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PETE	Preserving the Earth Through Education
RAP	Remedial Action Plan
RFP	Request for Proposal
RG&E	Rochester Gas & Electric
RIBS	Rotating Intensive Basin Studies
SAB	Science Advisory Board (International Joint Commission)
SAIC	Science Applications International Corp.
SARA	Superfund Amendments Reauthorization Act
SCS	Soil Conservation Service
SPDES	State Pollutant Discharge Elimination System
SUNY	State University of New York
TRI	Toxic Release Inventory
TSS	Total Suspended Solids
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency (EPA)
USGS	United States Geological Survey
WQB	Water Quality Board (International Joint Commission)
WQMAC	Water Quality Management Advisory Committee
WROS	Waterfront Recreation Opportunities Study
WWTP	Wastewater Treatment Plant

## GLOSSARY

Aesthetic	Relating to or dealing with beauty.
Assimilation	The capacity of natural water courses to receive pollutants without adverse affects.
Atmospheric Deposition	Deposition of pollutants from the air onto the ground
Bioaccumulation Bioconcentration Biomagnification	Related processes where chemical substances increase in concentratin as they are accumulated by aquatic organisms from water directly or through consumption of food containing the chemicals.
Biological Oxygen Demand	Dissolved oxygen required by organisms for the decomposition of organic matter present in water.
Biota	The plants and animals of a region.
Carcinogenic	Producing or inciting cancer.
Cladophora	A genus of green algae commonly known as "maidens hair" which provides shelter and breeding habitat to many aquatic invertebrates and in excessive quantities cause unsanitary beach conditions.
Concentration	The proportion of a material dissolved in water, e.g., 20 mg/L= 20 parts material per million parts of water.
Concentration units:	mg/L=ppm=parts per million µg/L=ppb=parts per billion ng/L=pptr=parts per trillion
Degrees Celsius	0 degrees C = 32 degrees F and 100 degrees C=212 degrees F. Therefore, degrees F =9/5 (degrees C) + 32.
Emergent Vegetation	In the case of aquatic habitats, this refers to vegetation that is rooted under water but emerges above the water line such as cattails.
Erie Canal	The part of the New York State Canal System that traverses Monroe County and portions of the watershed of the Rochester Embayment.

Eutrophication	Acceleration of the amount of nutrients (particularly the nutrient phosphorus) to a water body by natural or human induced causes. The increased rate of delivery of nutrients results in increased production of algae. Natural sources include leaves. Human induced sources include domestic sewage, stormwater runoff, and fertilizers.
Fauna	Animals or animal life.
Flora	Plants or plant life.
Genus (sing.), Genera(pl.)	A closely related kind, or group of plants or animals that have one or more common characteristics. For example, smallmouth and largemouth bass are different species of the same genus.
Hydrology	The study of the movements and other properties of water in the environment.
Littoral	Of, relating to, or situated or growing on or near a shore.
Loading	The amount of a material that enters a water body per unit of time, e.g., 1000 lbs./year, 2lbs./day, etc.
Oligochaetes	Aquatic worms that often indicate poor water quality.
Phenols	Caustic poisonous crystalline acidic compound present in coal tar and wood tar.
Phytoplankton	Microscopic aquatic plants often floating in the water.
Riparian	Relating to or living or located on the bank of a natural watercourse (as a stream or river)
Neoplasia	The formation of tumors.
Thermocline	A rapid change in temperature vertically or horizontally in a lake.
Trophic	Of or relating to nutrition. In the case of lake

systems, this refers to the nutrients (phosphorus and nitrogen) that feed the plant life.

Oligotrophic:

Refers to a lake with few nutrients.

Mesotrophic:

Refers to a lake with a moderate amount of nutrients.

Eutrophic:

Refers to a lake with a large amount of nutrients.

Zooplankton

Microscopic aquatic animals often floating in the water.