

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>DETROIT RIVER - PROJECT 1 (Black Lagoon)</u>	ProjectID: 05-18
Last Updated:	08/06/02	
City:	Detroit	
County:	Wayne	
State:	MI	
Country:	USA	
Bodies of Water:	Detroit River; Trenton Channel; Black Lagoon	
US EPA Region:	V	
Status (Active, Complete, or Monitoring Only):	Active	
Date On NPL:	N/A	
ROD/ESD Date:	N/A	
Operable Unit:	N/A	
Areas of Concern (length or acres):	7,500 sq yds (1.55 acres) of the Black Lagoon, within the Trenton Channel section of the Detroit River.	
Other Characteristics of Water Body:	From Reference A-346: "Black Lagoon is an exposed cove along the Michigan mainland shore. The flow from Trenton Channel circles in Black Lagoon, settling particulates as it eddies. Black Lagoon has acted as a settling basin for the past 50 years when the shoreline was carved out with the placement of the McLouth Plant. Black Lagoon has filled in completely and is in a steady-state with regards to deposition. Seiche effects caused by wind and wave driven events resuspend contaminants and transport and disperse them downstream to Lake Erie. Fines from upstream settle and mingle with existing sludge prior to resuspending again. Current settling rates in the Trenton Channel have been estimated at 2-3 cm/yr."	
Contaminants of Concern:	PCBs, PAHs, heavy metals (including mercury), oil and grease	
Source of Contamination:	The McLouth Steel-Trenton steel mill immediately upstream of the site is believed to be the primary source of contamination in Black Lagoon.	
Contaminated Area Physical Characteristics:	Depth of contaminants is estimated to be 2.75 yards on average with a clean clay substrate found below this depth.	
Type of Regulatory Action:	State Fund-Lead. Remedial Action Plan.	
Overall Status Summary:	<p>Black Lagoon is one of six major areas harboring sediments contaminated with PCBs, PAHs, heavy metals, and oil and grease within the Trenton Channel section of the Detroit River (western one-third portion of the lower Detroit River). The other identified areas within the Trenton Channel are the Allied Fuel Oil Slip, Nicholson South Slip, Firestone Steel Area, Elizabeth Park North Canal, and Elizabeth Park, South Canal-Inlet.</p> <p>MDEQ, in conjunction with USEPA, is negotiating with the Army Corps of Engineers (ACOE) to remediate 20,625 cy of highly contaminated sediments from Black Lagoon. The ACOE has completed a preliminary restoration plan for Black Lagoon. Following completion by ACOE of plans and specifications, EPA will most likely submit a plan proposal to dredge Black Lagoon. It is proposed that management of the project be performed by the ACOE. Disposal would be by either conventional disposal (offsite landfill or confined disposal) or use of innovative technologies to detoxify the sediments for reuse. The most recent proposed disposal option is to deposit the material in a specially constructed cell at an active Michigan-owned ACOE disposal facility. The State of Michigan is currently suing the ACOE over use of the landfill. The initial ruling was in favor of Michigan, however that ruling is now under appeal. The total cost of the dredging project is estimated between \$0.6 and \$6.5 million, depending on the</p>	

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disposal option(s) selected. No further progress is anticipated until the selection of a disposal option is complete.

MDEQ, along with the US EPA Great Lakes National Program Office, has recently selected ENDESCO Services, Inc. Cement-Lock™ ex-situ treatment technology for a demonstration project using Black Lagoon sediment. The demonstration project was originally scheduled to take place in Fall 2000, but was postponed. A contract has been signed between ENDESCO and Michigan DEQ for the demonstration project to be performed on 2,000 cy of Black Lagoon sediment at a cost of \$2.8 million. The demonstration project is currently planned for Summer 2003.

Remedial Action Planned: ☒

Risk Assessment: ☐

Remedial Action Implemented: ☐

Status of Dredging ☐

PRPs: ☒

Contacts: ☒

References: ☒

Modeling: ☐

Fishing Advisory: ☒

Key Conditions: dedicated landfill or CDF, dredging, Great Lakes AOC, solidification/stabilization

REMEDIAL ACTION PLANNED

Project Name	<u>DETROIT RIVER - PROJECT 1 (Black Lagoon)</u>	ProjectID: 05-18
Last Updated:	06/04/01	
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Target Sediment Cleanup Standards (TSCS):	Removal of contaminated sediments down to clean clay layer (approx. 8 ft.).	
How TSCS Established:		
Target Bank and Floodplain Cleanup Levels (if applicable):		
Other Target:	Since sediment cores have indicated clean clay below contaminated sediments in Black Lagoon, MDEQ SWQD has proposed to use the clean clay layer as the physical cleanup standard.	
Environmental Sample Data References:	<ul style="list-style-type: none">• Sediment:• Water:• Fish:	
Estimated Target Volume:	20,625 cy	
Planned Disposal Method:	Yet to be selected - depends upon final sediment treatment technology; most likely either landfill disposal (options are the Point Mouillee Confined Disposal Facility, a Michigan Type 2 landfill or a hazardous landfill) or reuse (as possible cement additive). The most recent proposed disposal option is to deposit the dredged material in a specially constructed cell at an active ACOE disposal facility currently used only for disposal of sediments dredged for navigational purposes.	
Estimated Calendar Time to Implement Remedy:	Dredging targeted to begin Fall 1999 (earliest)	
Estimated Time to Implement Remedy:		
Estimated Cost to Implement Remedy:	Total costs have been estimated to be approximately \$0.6 to \$6.5 million and will vary depending on the treatment/disposal option(s) selected.	
Stated Remedial Action Objectives (and Source):	(Source: Reference A-346) "The primary goal of the Black Lagoon Sediment Remedial Action is to remove the contaminated sediments down to clean clay river bottom and implement suitable bank habitat restoration (cattails/rock riprap). As a secondary goal, disposal using treatment technologies in detoxifying the sediments and reuses of material will be evaluated."	
Measures of Success to be Used:		
Planned Monitoring and Restoration:	Follow-up sampling to be used to confirm complete removal of contaminated sediments.	
Agency Position on Sediment Removal (and Source):	(Source: Reference A-346) "The Black Lagoon is an orphan site with extremely contaminated sediments. With a mix of constituents such as oil and grease, heavy metals, mercury, PAHs, and PCBs, this area contributes to the degradation of water quality standards. With public access along shore there is a direct contact hazard present"	

REMEDIAL ACTION PLANNED

Project Name

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Last Updated:

06/04/01

"The remediation and restoration of Black Lagoon would prevent the diffusion and resuspension of contaminants to the Lower Detroit River and Western Basin of Lake Erie. It would also remove a large mass of toxic contaminants from the Detroit River aquatic ecosystem, including bioaccumulative and persistent compounds. Habitat restoration would provide for increased biodiversity and urban waterfront restoration for public use. Black Lagoon's remediation would support MIDEQ's commitment to the Detroit River Remedial Action Plan implementation and restoration of urban waterfront areas."

POTENTIALLY RESPONSIBLE PARTIES

Project Name DETROIT RIVER - PROJECT 1 (Black Lagoon)

ProjectID: 05-18

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **DETROIT RIVER - PROJECT 1 (Black Lagoon)**

ProjectID: 05-18

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name **DETROIT RIVER - PROJECT 1 (Black Lagoon)**

ProjectID: 05-18

Reference Type: A

ReferenceID: 346

Title: ***Detroit River Site of Environmental Contamination: Proposed Remedial Action Plan - Black Lagoon Sediments***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: Michigan Department of Environmental Quality

Preparer/Author Address: Internet: <http://www.deq.state.mi.us>

Prepared For: General Public

Date Published: October 1997

Key Words and Phrases:

Reference Type: A

ReferenceID: 347

Title: ***Treatability Study Report: Trenton Channel Sediments - Wayne County, Michigan***

Location: AEM

Category: Contaminated Sediments: Disposal Methods

Prepared by/Author: Michigan Department of Environmental Quality

Preparer/Author Address: Internet: <http://www.deq.state.mi.us>

Prepared For: General Public

Date Published: February 1998

Key Words and Phrases:

Reference Type: B

ReferenceID: 554

Title: ***Proposed Dredging in the Detroit River (Black Lagoon) at Trenton, Michigan***

Location: AEM

Category: Site Update

Prepared by/Author: U.S. Army Corps of Engineers

Preparer/Author Address: Detroit District

Prepared For: Michigan DEQ

Date Published: September 3, 1999

Key Words and Phrases:

REFERENCES

Project Name DETROIT RIVER - PROJECT 1 (Black Lagoon)

ProjectID: 05-18

Reference Type: B

ReferenceID: 683

Title: *State of the Great Lakes - Annual Report 2001 (Partial)*

Location: AEM

Category: Site Update

Prepared by/Author: Russell Harding

**Preparer/Author
Address:** Michigan DEQ

Prepared For: Distribution

Date Published: 2002

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 791

Title: *Realizing Remediation I - Great Lakes Contaminated Sediments
Trenton Channel
(see Reference A-905)*

Location: AEM

Category: Dredging; Remedial (Contaminated Sediments)

Prepared by/Author: US EPA Great Lakes National Program Office (GLNPO)

**Preparer/Author
Address:** 77 West Jackson Boulevard (G-17J)
Chicago, IL 60604

Prepared For: General Public

Date Published: August 1, 2002

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 927

Title: *Key Players Resolve Barriers to Clean Up Black Lagoon*

Location: AEM

Category: Site Update

Prepared by/Author: City of Trenton (MI)

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: March 21, 2003

**Key Words and
Phrases:**

REFERENCES

Project Name **DETROIT RIVER - PROJECT 1 (Black Lagoon)**

ProjectID: 05-18

Reference Type: C

ReferenceID: 5

Title: ***Detroit River sediments could require over \$6M***

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: December 19, 1997

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 555

Title: ***Company Building Demonstration Facilities To Use Sediments As
Raw Material In Cement***

Location: AEM

Category: Contaminated Sediments: Treatment Technologies

Prepared by/Author:

Preparer/Author

Address:

Prepared For: HazTECH News

Date Published: January 20, 2000

**Key Words and
Phrases:** New York / New Jersey Harbor

REFERENCES

Project Name DETROIT RIVER - PROJECT 1 (Black Lagoon)

ProjectID: 05-18

Reference Type: C

ReferenceID: 587

Title: *Sediment Remediation Can Improve Great Lakes Water Quality*

Location: AEM

Category: Miscellaneous

Prepared by/Author: (1) John H. Hartig, (2) Lisa Maynard, (3) Michael A. Zarull, (4) Gail Krantzberg

Preparer/Author (1) Greater Detroit American Heritage River Institute

Address: Detroit, MI
(2) International Joint Commission
Windsor, Ontario, Canada
(3) National Water Research Institute
Burlington, Ontario, Canada
(4) Ontario Ministry of Environment

Prepared For: Water Environment & Technology (WE&T)

Date Published: October 1999

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 175

Title: *"Black Lagoon" toxic site to be dug up*

Location: AEM

Category: Site Update

Prepared by/Author: The Associated Press

Preparer/Author

Address:

Prepared For: The Kalamazoo (MI) Gazette

Date Published: January 27, 2001

**Key Words and
Phrases:**

REFERENCES

Project Name DETROIT RIVER - PROJECT 1 (Black Lagoon)

ProjectID: 05-18

Reference Type:

E

ReferenceID: 24

Title:

Assessment of Sediment Quality in Dredged and Undredged Areas of the Trenton Channel of the Detroit River, Michigan USA, using the Sediment Quality Triad

Location:

AEM

Category:

Cleanup Levels and Risks

Prepared by/Author:

(1) John M. Besser, (2) John P. Giesy, (3) Jody A. Kubitz, (4) David A. Verbugge, (5) Thomas G. Coon and (6) W. Emmett Braselton

**Preparer/Author
Address:**

(1) Midwest Science Center, National Biological Service,
4200 New Haven Road, Columbia, Missouri, 65201
(2, 3, and 4) Department of Fisheries and Wildlife; Pesticide Research Center
(5) Department of Fisheries and Wildlife
(6) Toxicology Section, Animal Health Diagnostic Laboratory
Michigan State University
East Lansing, MI 48824

Prepared For:

Journal of Great Lakes Research. 22 (3): 653-668

Date Published:

1996

**Key Words and
Phrases:**

Reference Type:

M

ReferenceID: 263

Title:

Polychlorinated Naphthalenes and Polychlorinated Biphenyls in Fishes from Michigan Waters Including the Great Lakes

Location:

AEM

Category:

Fish/Biota

Prepared by/Author:

(1) Kurunthachalam Kannan, (2) Nobuyoshi Yamashita, (3) Takashi Imagawa,
(4) Wim Decoen, (5) Jong Seong Khim, (6) Robert M. Day, (7) Cheryl L.
Summer, (8) John P. Giesy

**Preparer/Author
Address:**

(1), (4), (5), (8) 213 National Food Safety and Toxicology Center
Michigan State University
East Lansing, MI 48824
(2), (3) National Institute for Resources and Environment
16-3 Onogawa Tsukuba
Ibaraki 305, Japan
(6), (7) Michigan Department of Environmental Quality
Surface Water Quality Division
Lansing, MI 48909-7773

Prepared For:

Environmental Science & Technology

Date Published:

2000

**Key Words and
Phrases:**

Au Sable River (North Branch); Detroit River; Grand River; Lake Huron; Lake Michigan; Lake Superior; Maceday River; Muskegon River; Siskiwit Lake; Topico Wetland

FISH ADVISORIES

Project Name ***DETROIT RIVER - PROJECT 1 (Black Lagoon)***

ProjectID: 05-18

Advisory: Detroit River ***AdvisoryID:*** 1034
Extent: Great Lake connecting waterbody
Pollutant: dioxin
Species: carp-common
Population: NCSP
Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

Advisory: Detroit River ***AdvisoryID:*** 1035
Extent: Great Lake connecting waterbody
Pollutant: dioxin
Species: carp-common
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

Advisory: Detroit River ***AdvisoryID:*** 1036
Extent: Great Lake connecting waterbody
Pollutant: PCBs (total)
Species: carp-common
Population: NCSP
Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

FISH ADVISORIES

Project Name DETROIT RIVER - PROJECT 1 (Black Lagoon)

ProjectID: 05-18

<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i>	1037
<i>Extent:</i>	Great Lake connecting waterbody		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	drum-freshwater		
<i>Population:</i>	RGP		
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.		
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i>	276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i>	517-335-8834
<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i>	1038
<i>Extent:</i>	Great Lake connecting waterbody		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	drum-freshwater		
<i>Population:</i>	RSP		
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.		
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i>	276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i>	517-335-8834
<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i>	1039
<i>Extent:</i>	Great Lake connecting waterbody		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	perch-yellow		
<i>Population:</i>	RSP		
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.		
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i>	276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i>	517-335-8834

FISH ADVISORIES

Project Name ***DETROIT RIVER - PROJECT 1 (Black Lagoon)***

ProjectID: 05-18

Advisory: Detroit River ***AdvisoryID:*** 1040
Extent: Great Lake connecting waterbody
Pollutant: PCBs (total)
Species: pike-northern
Population: RSP
Population Definition: Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

Advisory: Detroit River ***AdvisoryID:*** 1041
Extent: Great Lake connecting waterbody
Pollutant: PCBs (total)
Species: redhorse
Population: RSP
Population Definition: Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

Advisory: Detroit River ***AdvisoryID:*** 1042
Extent: Great Lake connecting waterbody
Pollutant: PCBs (total)
Species: walleye
Population: RGP
Population Definition: Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.
Advisory Type: Great Lake ***Advisory Number:*** 276
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: David R. Wade ***Contact Number:*** 517-335-8834

FISH ADVISORIES

Project Name **DETROIT RIVER - PROJECT 1 (Black Lagoon)**

ProjectID: 05-18

<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 1043
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	walleye	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834
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<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 1044
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	walleye	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834
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<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 1045
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	walleye	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834

FISH ADVISORIES

Project Name ***DETROIT RIVER - PROJECT 1 (Black Lagoon)***

ProjectID: 05-18

<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 522
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	drum-freshwater	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834
<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 523
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	drum-freshwater	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834
<i>Advisory:</i>	Detroit River	<i>AdvisoryID:</i> 524
<i>Extent:</i>	Great Lake connecting waterbody	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	carp-common	
<i>Population:</i>	NCGP	
<i>Population Definition:</i>	No Consumption-General Population: Advise against consumption by the general population.	
<i>Advisory Type:</i>	Great Lake	<i>Advisory Number:</i> 276
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	David R. Wade	<i>Contact Number:</i> 517-335-8834