Clinton River AOC Boundary, U.S. EPA Great Lakes National Program Office

Shapefile

Thumbnail Not Available

Tags

Michigan, Environment, Remediation, Great Lakes, Area of Concern, 020:057

Summary

The main use of the delineated AOC boundaries is for EPA and State governments to locate those sites listed on the U.S. Area of Concerns list in the Great Lakes Water Quality Agreement, or other sites that are in close proximity or may have contributed to the pollution within each AOC. These analyses are completed on a relatively small scale of the areas in and around each AOC. Attributes only include the AOC name and the predominant state in which the AOC is located. The locations of features and boundaries shown on this map are approximate and are intended for planning and visualization purposes only. This is not intended for survey, statistical, engineering, or legal purposes.

Description

This shapefile provides a polygon boundary for the Clinton River AOC in southeast Michigan. In general, the following steps were taken in developing the shapefile:

- 1. The current shapefile was downloaded from the AOC website on EPA.gov.
- 2. Shoreline data from NOAA, Continually Updated Shoreline Product (CUSP) (https://www.ngs.noaa.gov/CUSP/), were downloaded for the full extent of the AOC.
- 3. A narrative of the AOC (included below) was taken from the AOC webpage.
- 4. The AOC shoreline (river and lake as applicable) of the current shapefile was updated using the data from Step #2.
- 5. The extent of the AOC was determined from the description in Step #3 and/or the extent in the current boundary.
- 6. Utilizing aerial imagery (current and historic) and best professional judgement, manual edits to the shoreline were made if significant deviations were apparent due to man-made changes or possible errors.

Narrative: AOC Webpage, 6/17/2021. "The Clinton River AOC encompasses the entire watershed and includes:

- The mainstem and its tributaries.
- The Spillway, a two-mile long canal that connects the Clinton River to Lake St. Clair.
- The nearshore area of Lake St. Clair between the Clinton River mouth and the Spillway outlet."

Representatives of both EPA and EGLE reviewed and approved the boundary. In instances where the AOC includes a watershed, those boundaries were delineated from data obtained through EPA's National Hydrography Dataset Plus (NHDPlus) Version 2.1.

Note: Private canals and marinas are excluded from the official Clinton River AOC. Edits to the CUSP were made to remove these areas. Any private canals or marinas still remaining within the Clinton River AOC boundary are unintended.

Credits

Sources of digital information used in the development of the AOC include: NOAA (https://www.ngs.noaa.gov/CUSP/), ESRI World Imagery (http://goto.arcgisonline.com/maps/World_Imagery), Google Earth historic imagery

(https://www.google.com/earth/), and EPA's NHDPlus Version 2.1 (https://www.epa.gov/waterdata/get-nhdplus-national-hydrography-dataset-plus-data).

Use limitations

Any hardcopies utilizing EPA data sets shall clearly indicate their source. The licensee specifically agrees not to misrepresent EPA data sets, nor to imply that changes they made were approved by EPA.

Extent

West -83.521705 East -82.767156 North 42.946255 South 42.369896

Scale Range

Maximum (zoomed in) 1:5,000 Minimum (zoomed out) 1:50,000

ArcGIS Metadata ►

Topics and Keywords ►

```
**CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION NO

PLACE KEYWORDS Michigan

THESAURUS'S LANGUAGE English (UNITED STATES)
THESAURUS 
TITLE EPA Place Names
PUBLICATION DATE 2015-01-31 00:00:00

RESOURCE LOCATION ONLINE
LOCATION
https://ofmpub.epa.gov/sor_internet/registry/termreg/searchandretrieve/taxonomies/search.do?
search=&searchString=&taxonomyName=WBT%20-%20Geographic%20Locations
NAME Web Taxonomy - Geographic Locations
FUNCTION PERFORMED information
```

THEME KEYWORDS Environment, Remediation

```
THESAURUS

TITLE EPA GIS Keyword Thesaurus

PUBLICATION DATE 2007-11-02 00:00:00

RESOURCE LOCATION ONLINE
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LOCATION https://www.epa.gov/geospatial/epa-metadata-technical-specification
NAME EPA Metadata Technical Specification
FUNCTION PERFORMED information

Hide Thesaurus A

Hide Thesaurus A

THEME KEYWORDS Great Lakes, Area of Concern

```
THESAURUS
      TITLE User
      PUBLICATION DATE 2020-06-29 00:00:00
      Hide Thesaurus ▲
  THEME KEYWORDS 020:057
    THESAURUS
      TITLE Federal Program Inventory
      PUBLICATION DATE 2013-09-16 00:00:00
      RESOURCE LOCATION ONLINE
        LOCATION https://www.performance.gov/federalprograminventory
        NAME Federal Program Inventory
        FUNCTION PERFORMED information
      Hide Thesaurus A
  Hide Topics and Keywords ▲
Citation ▶
  TITLE Clinton River AOC Boundary, U.S. EPA Great Lakes National Program Office
  PUBLICATION DATE 2021-07-06
  PRESENTATION FORMATS digital map
  Hide Citation ▲
Resource Details ▶
  DATASET LANGUAGES English (UNITED STATES)
  DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
  SPATIAL REPRESENTATION TYPE vector
  * PROCESSING ENVIRONMENT Version 6.2 (Build 9200); Esri ArcGIS 10.7.0.10450
  CREDITS
    Sources of digital information used in the development of the AOC include: NOAA
    (https://www.ngs.noaa.gov/CUSP/), ESRI World Imagery
    (http://goto.arcgisonline.com/maps/World_Imagery), Google Earth historic imagery
    (https://www.google.com/earth/), and EPA's NHDPlus Version 2.1
    (https://www.epa.gov/waterdata/get-nhdplus-national-hydrography-dataset-plus-data).
  ARCGIS ITEM PROPERTIES
    * NAME AOC_MI_Clinton_2021
    * SIZE 0.167
    * LOCATION file://\\F5160-78SW8C3-L\C$\Users\justin.telech\OneDrive -
    GDIT\Documents\Legacy\aoc boundary work\Clinton\Edits\Finalized\AOC_MI_Clinton_2021.shp
      * ACCESS PROTOCOL Local Area Network
  Hide Resource Details ▲
```

Extents ▶

7/20/2021

EXTENT DESCRIPTION The Clinton River AOC was designated an AOC in 1987. TEMPORAL EXTENT BEGINNING DATE 1987-01-01 00:00:00 **ENDING DATE** INDETERMINATE DATE UNKNOWN EXTENT **GEOGRAPHIC EXTENT BOUNDING RECTANGLE** EXTENT TYPE Extent used for searching * WEST LONGITUDE -83.521705 * EAST LONGITUDE -82.767156 * NORTH LATITUDE 42.946255 * SOUTH LATITUDE 42.369896 * EXTENT CONTAINS THE RESOURCE Yes EXTENT IN THE ITEM'S COORDINATE SYSTEM * WEST LONGITUDE -83.521705 * EAST LONGITUDE -82.767156 * SOUTH LATITUDE 42.369896 * NORTH LATITUDE 42.946255 * EXTENT CONTAINS THE RESOURCE Yes Hide Extents ▲

Resource Points of Contact ▶

```
POINT OF CONTACT
INDIVIDUAL'S NAME Mark Loomis
ORGANIZATION'S NAME U.S. Environmental Protection Agency Great Lakes National Program Office
CONTACT'S POSITION Federal AOC Taskforce Lead
CONTACT INFORMATION
ADDRESS
DELIVERY POINT 77 W. Jackson Blvd G-17J
CITY Chicago
ADMINISTRATIVE AREA IL
POSTAL CODE 60604
COUNTRY US
E-MAIL ADDRESS Loomis.Mark@Epa.gov

Hide Contact information
```

Hide Resource Points of Contact ▲

Resource Maintenance ▶

RESOURCE MAINTENANCE
UPDATE FREQUENCY as needed

Hide Resource Maintenance ▲

Resource Constraints >

CONSTRAINTS

LIMITATIONS OF USE

Any hardcopies utilizing EPA data sets shall clearly indicate their source. The licensee specifically agrees not to misrepresent EPA data sets, nor to imply that changes they made were approved by EPA.

Hide Resource Constraints

Spatial Reference ▶

```
ARCGIS COORDINATE SYSTEM
    * TYPE Geographic
    * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
    * COORDINATE REFERENCE DETAILS
      GEOGRAPHIC COORDINATE SYSTEM
        WELL-KNOWN IDENTIFIER 4269
        X ORIGIN -400
        Y ORIGIN -400
        XY SCALE 11258999068426.238
        Z ORIGIN -100000
        Z SCALE 10000
        M ORIGIN -100000
        M SCALE 10000
        XY TOLERANCE 8.9831528411952133e-09
        Z TOLERANCE 0.001
        M TOLERANCE 0.001
        HIGH PRECISION true
        LEFT LONGITUDE -180
        LATEST WELL-KNOWN IDENTIFIER 4269
        WELL-KNOWN TEXT GEOGCS["GCS North American 1983", DATUM
        ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM
        ["Greenwich", 0.0], UNIT["Degree", 0.0174532925199433], AUTHORITY["EPSG", 4269]]
  REFERENCE SYSTEM IDENTIFIER
    DIMENSION horizontal
    VALUE 4269
    * CODESPACE EPSG
    * VERSION 6.12(3.0.1)
  Hide Spatial Reference
Spatial Data Properties ▶
  VECTOR >
    * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only
    GEOMETRIC OBJECTS
      FEATURE CLASS NAME AOC_MI_Clinton_2021
      * OBJECT TYPE composite
      * OBJECT COUNT 1
```

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME AOC MI Clinton 2021

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 1

Hide Vector ▲

* SPATIAL INDEX TRUE

```
* LINEAR REFERENCING FALSE
    Hide ArcGIS Feature Class Properties ▲
  Hide Spatial Data Properties ▲
Data Quality ▶
  SCOPE OF QUALITY INFORMATION
    RESOURCE LEVEL dataset
    Hide Scope of quality information ▲
  Hide Data Quality ▲
Lineage ▶
  LINEAGE STATEMENT
    This shapefile supersedes the previous version, AOC_MI_CLINTON.shp
  Hide Lineage ▲
Distribution >
  DISTRIBUTION FORMAT
    * NAME Shapefile
    VERSION 2021
  TRANSFER OPTIONS
    TRANSFER SIZE 0.012
  Hide Distribution ▲
Fields ▶
  DETAILS FOR OBJECT AOC_MI_Clinton_2021 ▶
    * TYPE Feature Class
    * Row count 1
      The AOC extent and other possible applicable areas
    DEFINITION SOURCE
       U.S. EPA Great Lakes National Program Office
    FIELD FID >
      * ALIAS FID
       * DATA TYPE OID
       * WIDTH 4
       * PRECISION 0
       * SCALE 0
       * FIELD DESCRIPTION
         Internal feature number.
       * DESCRIPTION SOURCE
         Esri
```

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

Hide Field FID ▲

FIELD Shape ▶

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

Hide Field Shape ▲

FIELD Name

- * ALIAS Name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Feature name

DESCRIPTION SOURCE

U.S. EPA Great Lakes National Program Office

LIST OF VALUES

VALUE AOC Name

DESCRIPTION The AOC name is the official name given by the U.S. EPA Great Lakes National ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. EPA Great Lakes National Program Office

Hide Field Name A

FIELD State ▶

- * ALIAS State
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Location of feature as 2-character state code

DESCRIPTION SOURCE

U.S. EPA Great Lakes National Program Office

LIST OF VALUES

VALUE 2-character state code

DESCRIPTION State postal code
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. EPA Great Lakes National Program Office

Hide Field State A

Hide Details for object AOC MI Clinton 2021 ▲

Hide Fields A

Metadata Details ▶

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER E684F785-3782-4FA4-A450-74A262230F6D

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset Scope NAME * dataset

LAST UPDATE 2021-07-20

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE EPA Metadata Specification NAP ISO19115 2003

STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2021-07-19 18:40:13 LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-07-20 10:14:27

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2021-07-20 10:12:29

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT

INDIVIDUAL'S NAME Justin Telech ORGANIZATION'S NAME GDIT

CONTACT'S POSITION Environmental Scientist

CONTACT'S ROLE author

CONTACT INFORMATION >

ADDRESS

DELIVERY POINT 79 TW Alexander Drive

CITY Research Triangle Park Administrative area NC

POSTAL CODE 27709

COUNTRY US

E-MAIL ADDRESS justin.telech@gdit.com

Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY as needed

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FGDC Metadata (read-only) ▼