The following field definitions make up the shapefile attribute table called Hydrographic Lines. This shapefile consists of segments that are water based and include lake and pond shorelines as well as rivers, creeks and drains.

The attribute table can be found in the file Hydro_999v5a.DBF where 999 equals the FIPS county number contained in the file. The FIPS county numbering system uses odd numbers only. The numbers are assigned in alphabetical order. For example, county 001 is Alcona and county 165 is Wexford.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Size</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC</td>
<td>C</td>
<td>3</td>
<td>Framework Classification Code</td>
<td>Hydrography - These features may or may not have been updated in the current framework version.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See Valid FCC Hydrographic Codes at the end of this document.</td>
<td></td>
</tr>
<tr>
<td>NAME</td>
<td>C</td>
<td>30</td>
<td>Feature Name</td>
<td>The lake, river, creek, drain etc. name assigned to the arc.</td>
</tr>
<tr>
<td>NAME2</td>
<td>C</td>
<td>30</td>
<td>Secondary Feature Name</td>
<td>Alternate lake, river, creek, drain etc. name assigned to the arc.</td>
</tr>
<tr>
<td>NAME3</td>
<td>C</td>
<td>30</td>
<td>Tertiary Feature Name</td>
<td>Alternate lake, river, creek, drain etc. name assigned to the arc.</td>
</tr>
</tbody>
</table>

Type: C Character
Hydrographic Lines Layer continued

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Type</th>
<th>Size</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH</td>
<td>F</td>
<td>20,5</td>
<td>Arc Length</td>
<td>Feature length in meters obtained from the ArcInfo Arc Attribute Table (AAT).</td>
</tr>
<tr>
<td>OID</td>
<td>F</td>
<td>20</td>
<td>Object Identification Number : Michigan Geographic Framework (MGF) Version 3.0 ID</td>
<td>Unique ID</td>
</tr>
<tr>
<td>MGF_HIST</td>
<td>N</td>
<td>3</td>
<td>MGF Conflation History</td>
<td>Static field representing original source of geography.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0 – Added since conflation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 – Matched TIGER to MIRIS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 – Original unmatched MIRIS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 – Appended unmatched TIGER</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 – Ambiguous</td>
<td></td>
</tr>
</tbody>
</table>

**Type:**
- F Floating Point
- N Numeric
Valid FCC Hydrographic Codes

HYDROGRAPHY - These features may or may not have been updated in the current framework version. The MIRIS LEVEL attribute value was given precedence over the TIGER classification and was used to classify hydrographic features where possible.

H1* - Great Lakes shoreline

Valid Codes:

H11 – Great Lakes shoreline from MIRIS level 12.
H12 – Great Lakes shoreline river mouth. Any query to extract lake and river polygon shoreline features must include H12 features.
H13 – Great Lakes connector (waterway under bridges along the GL shoreline).
H14 – Harbor / Marina - Inlet
H15 – Harbor / Marina – Mouth

H2* - Lake, Pond and Island shoreline.

Valid Codes:

H21 – Lake and Pond shoreline from MIRIS level 6.
H22 – Sewage Disposal Pond as described on United State Geological Survey (USGS) Topographic Quadrangle maps.
H23 – Islands in inland lakes or ponds.
H24 – Intermittent lake or pond shoreline.
H25 – Tailings Ponds

H3* - River/stream including islands in rivers.

Valid Codes:

H31 - Rivers and streams from MIRIS level 7.
H32 – Two-banked streams
H33 – Islands in rivers and streams.
H34 – Islands that are both a river and land boundary
H35 – Wisconsin bank of two-bank streams to close river polygons (i.e. – Menominee & Montreal Rivers)

H4* - Drains and intermittent streams.

Valid Codes:

H41 – Drains and intermittent streams from MIRIS level 8, undetermined ownership.
H42 – County Owned Drains – open
H43 – County Owned Drains – closed
H44 - Intercounty Drains – open
H45 - Intercounty Drains – closed
H46 - Two-Bank Drain - open
H47 - Two-Bank Drain - closed

H5* - Other Hydrologic Features.

Valid Codes:

H51 - Dam structures spanning a stream or river. If available, dam name will be in FENAME2. FENAME must be blank. Any query to extract lake and river polygon shoreline features must include H51 features.

H52 - Lock

H53 - Levee

H6* - Swamps added as part of National Hydrographic Dataset (NHD).

Valid Codes:

H61 – Swamp polygons visible on digital ortho photos.

H9* - Artificial Water Boundaries

Valid Codes:

H90 – Artificial Hydrographic polygon closure. Feature exists to delineate water boundaries within a hydrological system. (I.e. arcs used to separate a river from a connected lake. FENAME must be blank.) Any query to extract lake and river polygon shoreline features must include H90 features.

H91 – Hydrographic connector. Used to represent stream flow where no feature is visible on DOQQ. Flow confirmed by referencing DRG.

H92 – Artificial Flow path. A feature within a hydro polygon that represents stream flow through the polygon. Follows most direct path between inlet and outlet.

H93 – Artificial Hydrographic polygon closure along state lines (IN, OH, WI).

H94 – Artificial Hydrographic polygon closure on islands