

# Reservoir & Estuary Segments

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### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Texas Commission on Environmental Quality

*Publication\_Date:* 07/01/2011

*Title:* Reservoir & Estuary Segments

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:*

#### *Description:*

##### *Abstract:*

This layer depicts the official TCEQ reservoir and estuary segments for the State of Texas as listed in Title 30, Chapter 307 of the Texas Administrative Code (TAC), also known as the Surface Water Quality Standards, and Texas Basin Assessment Database (TXBAD). These are waterbodies that have been individually defined by the TCEQ and assigned unique identification numbers. Intended to have relatively homogeneous chemical, physical, and hydrological characteristics, a segment provides a basic unit for assigning site-specific standards and for applying water quality management programs of the agency.

Both "classified" and "unclassified" segments have been included in this layer. Classified segments, also referred to as designated segments, refer to water bodies that are protected by site-specific criteria. The classified segments are listed and described in Appendix A and C of Chapter 307.10. The site specific uses and criteria are described in Appendix A. Classified waters include most rivers and their major tributaries, major reservoirs, and estuaries. Unclassified waters are those smaller water bodies that do not have site specific water quality standards assigned to them, but instead are protected by general standards that apply to all surface waters in the state.

Assessment Units are assigned unique identification numbers and represent the smallest geographic area of use support reported in the Texas Integrated Report for Clean Water Act Sections 305(b) and 303(d).

##### *Purpose:*

General purpose use; to support agency-wide policy decisions regarding surface water quality in the State of Texas. Due to the various scales inherent from using multiple sources in the creation of this dataset, this layer should not be used for making important decisions at scales greater than 1:250,000.

#### *Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 07/01/2011

*Time\_of\_Day:* unknown

*Currentness\_Reference:* 2010 Integrated Report

*Status:*

*Progress:* In work

*Maintenance\_and\_Update\_Frequency:* As needed

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -103.998889

*East\_Bounding\_Coordinate:* -93.563537

*North\_Bounding\_Coordinate:* 36.361904

*South\_Bounding\_Coordinate:* 25.938291

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* None

*Theme\_Keyword:* Reservoirs

*Theme\_Keyword:* Bays

*Theme\_Keyword:* Estuaries

*Theme\_Keyword:* TSWQS

*Theme\_Keyword:* classified segments

*Theme\_Keyword:* Texas Surface Water Quality Standards

*Theme\_Keyword:* Lakes

*Access\_Constraints:* None

*Use\_Constraints:*

These data are not suitable for high precision measurement applications or surveying. No other claims are made to the accuracy or completeness of the data or to its suitability towards a particular use.

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* Texas Commission on Environmental Quality

*Contact\_Person:* Jill Csekitz

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* P.O. Box 13087

*City:* Austin

*State\_or\_Province:* TX

*Postal\_Code:* 78711

Country: USA

Contact\_Voice\_Telephone: 512-239-3136

*Data\_Set\_Credit:*

Acknowledgement of the Texas Commission on Environmental Quality is appreciated on any products using this dataset.

*Native\_Data\_Set\_Environment:*

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.4000

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

The attributes of this layer are based directly on the SEGID database maintained by the Surface Water Quality Monitoring Team of TCEQ. Database testing revealed a few blank fields, but no significant errors were found

*Logical\_Consistency\_Report:*

Points, nodes, lines, and areas conform to topological rules. Lines intersect only at nodes, and all nodes anchor the ends of lines. Lines do not overshoot or undershoot other lines where they are supposed to meet. There are no duplicate lines. Lines bound areas and lines identify the areas to the left and right of the lines. Gaps and overlaps among areas do not exist. All areas close.

*Completeness\_Report:*

All segments were verified with the SEGID database maintained by the Surface Water Quality Monitoring Team. No segments were omitted. The dataset was found to be complete.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:*

Statements of horizontal positional accuracy are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of their true position. Additional offsets to positions may have been introduced where there are many features to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003 inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic), and plots or digital displays of points, lines, and areas, is used to assess the positional accuracy of digital data. Linear features of the same type along the adjoining edges of data sets are aligned if they are within a .02 inch tolerance (at map scale). To align the features, the midpoint between the end of the corresponding features is computed, and the ends of features are moved to this point. Features outside the tolerance are not moved; instead, a feature of type connector was added to join the features.

*Vertical\_Positional\_Accuracy:*

*Vertical\_Positional\_Accuracy\_Report:*

Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points

tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map.

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* U.S. Geological Survey

*Publication\_Date:* 2000

*Title:* NHD

*Publication\_Information:*

*Publication\_Place:* Sioux Falls, SD

*Publisher:* USGS

*Online\_Linkage:* <<http://nhd.usgs.gov/index.html>>

*Source\_Citation\_Abbreviation:* NHD

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* Microsoft Corporation

*Publication\_Date:* 2010

*Title:* Bing Maps

*Online\_Linkage:* <<http://nhd.usgs.gov/index.html>>

*Source\_Citation\_Abbreviation:* Bing

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* National Geographic Society

*Publication\_Date:* December 2009

*Title:* USA Topographic Maps

*Online\_Linkage:*

<<http://www.arcgis.com/home/item.html?id=99cd5fbd98934028802b4f797c4b1732>>

*Source\_Citation\_Abbreviation:* NatGeo

*Process\_Step:*

*Process\_Description:*

The reservoirs, estuaries, and bays found in the Texas Surface Water Quality Standards were selected and copied using the GNIS\_ID and GNIS\_NAME fields of the

NHD\_Waterbodies dataset. Any missing area that was defined by the Texas Surface Water Quality Standards was drawn in using National Geographic Topo and Bing Maps as reference.

*Source\_Used\_Citation\_Abbreviation:* NHD

*Source\_Used\_Citation\_Abbreviation:* NatGeo

*Source\_Used\_Citation\_Abbreviation:* Bing

*Process\_Step:*

*Process\_Description:*

The waterbodies were further delineated into assessment units using the cut polygon tool. The criteria for each assessment unit was defined by TXBAD.

*Source\_Used\_Citation\_Abbreviation:* TXBAD

*Process\_Step:*

*Process\_Description:*

The Res\_Est\_Reaches\_2010 layer was dissolved by AU to create this layer. Calculate geometry tool was used to calculate size in acres.

*Process\_Step:*

*Process\_Description:*

Throughout the creation process, several revisions were made to the segments layer. Some were corrections found in a secondary review process and others were modified according to the final list of approvals from the EPA. The segments that were deleted can be found in the attribute table, but have no spatial information. A listing of these revisions is also provided below: 0839A\_01Clear Creek (unclassified water body): This is a duplicate of segment 0823C. Possible retirement under review. 0809\_13 Eagle Mountain Reservoir: Retired-Non Existent Remainder 1209\_06 Navasota River Below Lake Limestone: Retired-Non Existent Remainder 0820\_03 Lake Ray Hubbard:Retired-Non Existent Remainder 0401\_08 Caddo Lake: Retired-Non Existent Remainder 1806A\_03Camp Meeting Creek (unclassified water body):Retired-Non Existent Remainder 0830\_04 Benbrook Lake: Retired-Non Existent Remainder 1007R\_04 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007\_03, revision under review. 1007R\_03 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007\_03, revision under review. 1007R\_02 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007\_03, revision under review. 1007R\_01 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007\_03, revision under review.

*Process\_Step:*

*Process\_Description:* Metadata imported.

*Source\_Used\_Citation\_Abbreviation:* C:\WINDOWS\TEMP\xmID7.tmp

*Process\_Date:* 20110808

*Process\_Time:* 13012900

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* G-polygon

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Latitude\_Resolution:* 0.000001  
*Longitude\_Resolution:* 0.000001  
*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1983  
*Ellipsoid\_Name:* Geodetic Reference System 80  
*Semi-major\_Axis:* 6378137.000000  
*Denominator\_of\_Flattening\_Ratio:* 298.257222

*Vertical\_Coordinate\_System\_Definition:*

*Altitude\_System\_Definition:*

*Altitude\_Resolution:* 1.000000  
*Altitude\_Encoding\_Method:*  
Explicit elevation coordinate included with horizontal coordinates

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* SW\_ADM.TCEQ\_SEG\_RES\_EST

*Attribute:*

*Attribute\_Label:* OBJECTID  
*Attribute\_Definition:* Internal feature number.  
*Attribute\_Definition\_Source:* ESRI  
*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*  
Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape  
*Attribute\_Definition:* Feature geometry.  
*Attribute\_Definition\_Source:* ESRI  
*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* SEG\_ID

*Attribute:*

*Attribute\_Label:* SZ\_UNIT

*Attribute:*

*Attribute\_Label:* SIZE\_

*Attribute:*

*Attribute\_Label:* SEG\_NAME

*Attribute:*

*Attribute\_Label:* SEG\_DESCRIPTION

*Attribute:*

*Attribute\_Label:* NOTES

*Attribute:*

*Attribute\_Label:* SHAPE.AREA

*Attribute:*

*Attribute\_Label:* SHAPE.LEN

*Overview\_Description:*

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*Distribution\_Information:*

*Resource\_Description:* Downloadable Data  
*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 38.414

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20110808  
*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:* Texas Commission on Environmental Quality  
*Contact\_Person:* Jill Csekitz

*Contact\_Address:*

*Address\_Type*: mailing address  
*Address*: P.O. Box 13087  
*City*: Austin  
*State\_or\_Province*: Texas  
*Postal\_Code*: 78711  
*Country*: USA

*Contact\_Voice\_Telephone*:

REQUIRED: The telephone number by which individuals can speak to the organization or individual.

*Contact\_Voice\_Telephone*: 512-239-3136

*Metadata\_Standard\_Name*: FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version*: FGDC-STD-001-1998

*Metadata\_Time\_Convention*: local time

*Metadata\_Extensions*:

*Online\_Linkage*: <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name*: ESRI Metadata Profile

*Metadata\_Extensions*:

*Online\_Linkage*: <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name*: ESRI Metadata Profile

*Metadata\_Extensions*:

*Online\_Linkage*: <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name*: ESRI Metadata Profile