Summary

This map features represents the geographical boundaries designated as Priority Groundwater Management Areas (PGMA) the Texas Commission on Environmental Quality (TCEQ). The dataset has been maintained by the Groundwater Planning and Assessment Program from TCEQ. The main purpose of designating a PGMA is to ensure the management of groundwater in areas of the state with critical groundwater problems. The PGMA study and evaluation will consider the need for creating groundwater conservation districts and different options for management of groundwater issues.

Description

This GIS map layer represents the geographical boundaries designated as Priority Groundwater Management Areas (PGMA) the Texas Commission on Environmental Quality (TCEQ).

The polygon features shown here represent designated Priority Groundwater Management Areas (PGMA) evaluated from 1990 to 2016. The PGMA delineation boundary and purposes are described in the Texas Water Code (TWC), §35.007 as areas identified critical groundwater problems within the immediately following 50-year period critical groundwater problems including:

- Shortages of surface water or groundwater;
- Land subsidence resulting from groundwater withdrawal;
- Contamination of groundwater supplies,

The Texas Commission on Environmental Quality PGMA Program encourages the creation of groundwater conservation districts for those designated areas. For practical information about the PGMA studies and updates, please see the TCEQ website <https://www.tceq.texas.gov/groundwater/pgma.html/>

Credits

TCEQ and its predecessor’s who contributed as professional Geologists ad GIS of the
Groundwater Planning and Assessment of the Office of Water.

**Use limitations**

This data is for mapping and planning purposes only. PGMA boundary it is not a land surveying data, and not to be used to develop any engineering projects or legal decisions. Users should contact the TCEQ prior publishing or any information about this data.

**Extent**

- **West**: -106.843440
- **East**: -95.717016
- **North**: 36.534258
- **South**: 29.396075

**Scale Range**

- **Maximum (zoomed in)**: 1:5,000
- **Minimum (zoomed out)**: 1:150,000,000

**ArcGIS Metadata**

**Topics and Keywords**

**Themes or categories of the resource**: boundaries, environment, planning, Cadastre

**Content type**: Downloadable Data

**Export to FGDC CSDGM XML format as resource description**: No

**Place keywords**: Texas

**Stratum keywords**: Texas

**Theme keywords**: TAC Title 30 §294, TCEQ Rules §294.41, PGMA, Priority Groundwater Management Areas, 24 TexReg 965, TAC Title 30 Part 1, Texas Critical Area Study, Texas Water Code (TWC), §35.007

**Thesaurus**

- **Title**: Texas Administrative Code 30 §294.41
- **Revision date**: 2014-12-04 00:00:00

**Responsible party**

- **Individual's name**: Kathy McCormack
- **Organization's name**: TCEQ
- **Contact's position**: Groundwater Planning and Assessment Team
- **Contact's role**: point of contact

**Responsible party**

- **Individual's name**: Marcia Workman
- **Organization's name**: TCEQ
- **Contact's position**: Groundwater Planning and Assessment Team
- **Contact's role**: point of contact

*Hide Thesaurus ▲*
Citation ►

* TITLE     GDB_ADM.TCEQ_PGMA
CREATION DATE 2015-01-01 00:00:00

PRESENTATION FORMATS  * digital map
FGDC GEOSPATIAL PRESENTATION FORMAT   vector digital data

SERIES
NAME     Priority Groundwater Management Areas and Groundwater Conservation Districts, Report to the 84th Texas Legislature
ISSUE     January 2015

Hide Citation ▲

Resource Details ►

DATASET LANGUAGES  * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE  * vector

GRAPHIC OVERVIEW
 FILE NAME     http://www.tceq.state.tx.us/groundwater/groundwater/pgma.html/#reports
 FILE DESCRIPTION TCEQ Program to identify areas of Texas experiencing, or expected to experience, critical groundwater problems and encourage the creation of groundwater conservation districts for those areas.

SUPPLEMENTAL INFORMATION
<http://www.tceq.texas.gov/groundwater/pgma.html> ____________
<http://www.tceq.state.tx.us/groundwater/pgma.html> _______________ Title 30, Texas Administrative Code (TAC), §293.19 and §§294.41–294.44.

* PROCESSING ENVIRONMENT  Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.5.0.6491

CREDITS
TCEQ and its predecessor’s who contributed as professional Geologists ad GIS of the Groundwater Planning and Assessment of the Office of Water.

ARCGIS ITEM PROPERTIES
* NAME     GDB_ADM.TCEQ_PGMA
* LOCATION   Server=tceq4apraragp1; Service=5151; User=gdb_adm; Version=SDE.DEFAULT
* ACCESS PROTOCOL  ArcSDE Connection

Hide Resource Details ▲

Extents ►

EXTENT
GEOGRAPHIC EXTENT
EXTENT TYPE  Extent used for searching
BOUNDING RECTANGLE
WEST LONGITUDE  -106.843440
EAST LONGITUDE  -95.717016
**NORTH LATITUDE** 36.534258  
**SOUTH LATITUDE** 29.396075  
* EXTENT CONTAINS THE RESOURCE Yes

**WEST LONGITUDE** -106.509240  
**EAST LONGITUDE** -95.843436  
**SOUTH LATITUDE** 29.551466  
**NORTH LATITUDE** 36.500512  
* EXTENT CONTAINS THE RESOURCE Yes

**Resource Points of Contact**

**POINT OF CONTACT**
- **INDIVIDUAL’S NAME** Kathy McCormack  
- **ORGANIZATION’S NAME** TCEQ  
- **CONTACT’S POSITION** Groundwater Planning and Assessment Team  
- **CONTACT’S ROLE** point of contact

**POINT OF CONTACT**
- **INDIVIDUAL’S NAME** Marcia Workman  
- **ORGANIZATION’S NAME** TCEQ  
- **CONTACT’S POSITION** Groundwater Planning and Assessment Team  
- **CONTACT’S ROLE** point of contact

**Resource Maintenance**

**RESOURCE MAINTENANCE**
- **UPDATE FREQUENCY** as needed

**Resource Constraints**

**LEGAL CONSTRAINTS**
- **OTHER CONSTRAINTS**
  - This data has been prepared for internal use within the TCEQ. Accuracy is limited to the validity of available data

**CONSTRAINTS**
- **LIMITATIONS OF USE**
  - This data is for mapping and planning purposes only. PGMA boundary it is not a land surveying data, and not to be used to develop any engineering projects or legal decisions. Users should contact the TCEQ prior publishing or any information about this data.

**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  999999999.99999988

Z ORIGIN  0
Z SCALE  1
M ORIGIN  0
M SCALE  1
XY TOLERANCE  8.98315284119521e-009
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

* 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  GDB_ADM.TCEQ_PGMA
* OBJECT TYPE  composite
* OBJECT COUNT  7

Hide Vector ▲

ARCGIS Feature Class Properties ►

FEATURE CLASS NAME  GDB_ADM.TCEQ_PGMA
* FEATURE TYPE  Simple
* GEOMETRY TYPE  Polygon
* HAS TOPOLOGY  FALSE
* FEATURE COUNT  7
* 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▲

DATA QUALITY REPORT - TOPOLOGICAL CONSISTENCY

► EVALUATION METHOD
The dataset was originally created as ArcInfo workstation using various basemap sources from TCEQ dataset (e.g county boundary, Highways, aquifer, topo and geologic maps). Most of the linework was digitized with ArcInfo editing sessions, by following the PGMA described area and head-digitizing its as overlap feature and coverage files, imported to Arcgis Geodatabase featured. Actual data geometry is maintained in ArcGIS File Geodatabase. Partial of the data are converted and exported GIS open-source shapefile.

CONFORMANCE TEST RESULTS
TEST PASSED Yes
RESULT EXPLANATION
The dataset was originally created as ArcInfo workstation using various basemap sources from TCEQ dataset (e.g county boundary, Highways, aquifer, topo and geologic maps). Most of the linework was digitized with ArcInfo editing sessions, by following the PGMA described area and head-digitizing its as overlap feature and coverage files, imported to Arcgis Geodatabase featured. Actual data geometry is maintained in ArcGIS File Geodatabase. Partial of the data are converted and exported GIS open-source shapefile.

PRODUCT SPECIFICATION
► TITLE Texas PGMAs
PUBLICATION DATE 2017-07-28 00:00:00

Hide Product specification▲

Hide Data quality report - Topological consistency▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY

► MEASURE DESCRIPTION
The dataset was originally created as ArcInfo workstation using various basemap sources from TCEQ dataset (e.g county boundary, Highways, aquifer, topo and geologic maps). Most of the linework was digitized with ArcInfo editing sessions, by following the PGMA described area and head-digitizing its as overlap feature and coverage files, imported to Arcgis Geodatabase featured. Actual data geometry is maintained in ArcGIS File Geodatabase. Partial of the data are converted and exported GIS open-source shapefile.

CONFORMANCE TEST RESULTS
TEST PASSED Yes
RESULT EXPLANATION
The dataset was originally created as ArcInfo workstation using various basemap sources from TCEQ dataset (e.g county boundary, Highways, aquifer, topo and geologic maps). Most of the linework was digitized with ArcInfo editing sessions, by following the PGMA described area and head-digitizing its as overlap feature and coverage files, imported to Arcgis Geodatabase featured. Actual data geometry is maintained in ArcGIS File Geodatabase. Partial of the data are converted and exported GIS open-source shapefile.
DATA QUALITY REPORT - COMPLETENESS OMISSION  

MEASURE DESCRIPTION
This dataset is valid for TCEQ purposes, and it is subject to change anytime needed.

CONFORMANCE TEST RESULTS
TEST PASSED  Yes
RESULT EXPLANATION
This dataset is valid for TCEQ purposes, and it is subject to change anytime needed.

Lineage  

LINEAGE STATEMENT
A general description of boundaries provided in the final PGMA Report publication. See Texas Administrative Code, Title 30 RULE §294.

PROCESS STEP
WHEN THE PROCESS OCCURRED  2017-07-28 00:00:00
DESCRIPTION
Geodatabase map features from TCEQ.

SOURCE DATA
RELATIONSHIP TO THE PROCESS STEP  used

SOURCE CITATION
TITLE  GW Management
ALTERNATE TITLES  Q:\GWManagement\PGMA\Designatedpgmas\gw_pgmas08.mdb
REVISION DATE  2017-07-28 00:00:00
TCEQ Groundwater Planning and Assessment

RESOLUTION OF THE SOURCE DATA
SCALE DENOMINATOR 1

INDIVIDUAL’S NAME Kathy McCormack
ORGANIZATION’S NAME TCEQ
CONTACT’S POSITION Groundwater Planning and Assessment Team
CONTACT’S ROLE point of contact

INDIVIDUAL’S NAME Marcia Workman
ORGANIZATION’S NAME TCEQ
CONTACT’S POSITION Groundwater Planning and Assessment Team
CONTACT’S ROLE point of contact

NAME SDE Feature Class
VERSION 1.1

* TYPE Feature Class
* ROW COUNT 7

DETAILS FOR OBJECT GDB_ADM.TCEQ_PGMA
* TYPE Feature Class
* ROW COUNT 7

DEFINITION
Feature Class

**DEFINITION SOURCE**
Feature Class

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBJECTID</td>
<td>Internal feature number.</td>
</tr>
<tr>
<td>Description Source: Esri</td>
<td></td>
</tr>
<tr>
<td>Description of Values: Sequential unique whole numbers that are automatically generated.</td>
<td></td>
</tr>
</tbody>
</table>

**Hide Field OBJECTID ▲**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGMA_NAME</td>
<td>Original name of the designated area.</td>
</tr>
<tr>
<td>Description Source: TCEQ Groundwater Team</td>
<td></td>
</tr>
<tr>
<td>Description of Values: Unique name</td>
<td></td>
</tr>
</tbody>
</table>

**Hide Field PGMA_NAME ▲**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORIGIN_YEA</td>
<td>Year established</td>
</tr>
<tr>
<td>Description Source: TAC Title 30 §294</td>
<td></td>
</tr>
</tbody>
</table>
DESCRIPTION OF VALUES
  Year

Hide Field ORIGIN_YEA ▲

FIELD TNRCC_ACT ➤
  * ALIAS TNRCC_ACT
  * DATA TYPE String
  * WIDTH 30
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    TCEQ Period when designated

DESCRIPTION SOURCE
  TAC Title 30 §294

DESCRIPTION OF VALUES
  Year

Hide Field TNRCC_ACT ▲

FIELD BOUNDARY ➤
  * ALIAS BOUNDARY
  * DATA TYPE String
  * WIDTH 20
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    Original or revised boundary

DESCRIPTION SOURCE
  TAC Title 30 §294

DESCRIPTION OF VALUES
  Original or Revised

Hide Field BOUNDARY ▲

FIELD IDENT_ORDE ➤
  * ALIAS IDENT_ORDE
  * DATA TYPE SmallInteger
  * WIDTH 2
  * PRECISION 5
  * SCALE 0
  FIELD DESCRIPTION
    Order

DESCRIPTION SOURCE
TAC Title 30 §294

DESCRIPTION OF VALUES
Integer

Hide Field IDENT_ORDE ▲

FIELD PGMA_REPOR ►
* ALIAS  PGMA_REPOR
* DATA TYPE  String
* WIDTH  25
* PRECISION  0
* SCALE  0
FIELD DESCRIPTION
Final Report

DESCRIPTION SOURCE
TAC Title 30 §294

DESCRIPTION OF VALUES
Link to report

Hide Field PGMA_REPOR ▲

FIELD AREA_SQMI ►
* ALIAS  Area_SqMi
* DATA TYPE  Double
* WIDTH  8
* PRECISION  38
* SCALE  8
FIELD DESCRIPTION
Area of PGMA

DESCRIPTION SOURCE
TAC Title 30 §294

DESCRIPTION OF VALUES
integer

Hide Field AREA_SQMI ▲

FIELD SHAPE ►
* ALIAS  SHAPE
* DATA TYPE  Geometry
* WIDTH  4
* PRECISION  0
* SCALE  0
* FIELD DESCRIPTION
Feature geometry.
* DESCRIPTION SOURCE
  Esri

* DESCRIPTION OF VALUES
  Coordinates defining the features.

Hide Field SHAPE ▲

FIELD SHAPE.AREA ►

* ALIAS   SHAPE.AREA
* DATA TYPE Double
* WIDTH   0
* PRECISION 0
* SCALE   0
FIELD DESCRIPTION
  Internal shape area

DESCRIPTION SOURCE
  ArcGIS

DESCRIPTION OF VALUES
  integer

Hide Field SHAPE.AREA ▲

FIELD SHAPE.LEN ►

* ALIAS   SHAPE.LEN
* DATA TYPE Double
* WIDTH   0
* PRECISION 0
* SCALE   0
FIELD DESCRIPTION
  Internal feature

DESCRIPTION SOURCE
  ArcGIS

DESCRIPTION OF VALUES
  integer

Hide Field SHAPE.LEN ▲

Hide Details for object GDB_ADM.TCEQ_PGMA ▲

Hide Fields ▲

Metadata Details ▶