

Watershed Action Planning Process

The TCEQ's Water Quality Planning Division is in need of a management tool to coordinate the planning, facilitation, and tracking of actions to address water quality issues. Based on the Texas Integrated Report, some planning currently occurs between the various TCEQ water programs, the River Authorities, and the Texas State Soil and Water Conservation Board (TSSWCB), but not to the degree required to truly utilize staff resources and funding to restore water quality. As such, measureable water quality benefits around the state have historically been difficult, if not impossible, to document. As the process is being developed, local watershed discussions can be enhanced now, and the information gathered can be documented and used to develop the management tool in the future.

Local Watershed Discussions - proposal

The coordinated monitoring process is well established, and has been an effective tool in the planning of monitoring resources. These meetings focus on the statewide routine monitoring network to ensure the data are available for the Integrated Report. To assist the Watershed Action Planning process, discuss the watershed issues associated with the impairments, concerns, and any special interest waters. In each basin, water bodies in Categories 4, 5, and special interest areas can be evaluated in detail from the local perspective to document "what is going on here?" and suggest management strategies. Special projects could also be proposed to gather the information needed to move 5c waters into the appropriate management strategy. It is not necessarily a commitment to do the work, just a suggestion on what work the group thinks needs to be done.

- Characterize the watershed
 - Review each impaired and special interest water in the basin
 - Evaluate land use through maps and aerial photography
 - Identify watershed factors that affect water quality
 - Known Point Sources
 - Potential Nonpoint Sources
 - Review Causes/Sources documented in the Integrated Report
 - Identify local entities that could be contacted for information or support
 - Consider existing monitoring network and available data
 - Identify data gaps
- Identify research needs to help locate potential sources
- Identify funding resources and potential stakeholders that could be contacted for additional information or support
- Recommend an action
 - Use Attainability Analysis
 - Total Maximum Daily Load project
 - Watershed Protection Plan
 - Special Study

The goal of the local watershed discussions would be to help identify the sources that may be contributing to the impairment or concern, TCEQ would receive local feedback, and TCEQ could, through adaptive management, incorporate changes to the management strategy. Any information from the meeting, such as, potential sources, identified data needs, recommended actions or any updates since the last meeting, can be captured as a meeting summary and used to populate the management tool in the future.

Resources for Teachers: Water Education, Rio Grande, and Water Quality

Water Education Curriculum

- EPA's Education Resources <http://water.epa.gov/polwaste/nps/eduinfo.cfm> ◆
- Project WET <http://www.projectwet.org>
- Major Rivers: A Water Education Program for Texas
<http://www.twdb.state.tx.us/edu/MajorRivers/index.asp>
- Polluted Runoff for Kids <http://www.epa.gov/owow/NPS/kids>
- EPA Water Activities for Middle School <http://water.epa.gov/learn/resources/midsh/index.cfm>

Volunteer Water Monitoring

- Texas Stream Team <http://txstreamteam.rivers.txstate.edu/> ◆
- World Water Monitoring Day <http://www.worldwatermonitoringday.org/>

Watershed Training

- Texas Watershed Steward Program <http://tw.s.tamu.edu/online-course> ◆
- EPA's Watershed Academy http://water.epa.gov/learn/training/wacademy/wacademy_index.cfm
- Atmospheric & Marine-Based Interdisciplinary Environmental Health Training (AMBIENT) Training
<http://yyy.rsmas.miami.edu/groups/ambient/>

Rio Grande Water Quality Data

- Texas Clean Rivers Program for the Rio Grande Basin Monitoring Station Data
<http://www.ibwc.gov/CRP/monstats.htm> ◆
- Texas Commission on Environmental Quality Texas Water Data <http://www.texaswaterdata.org>
- TCEQ Surface Water Quality Monitoring, Sampling Data Query
<http://www.tceq.state.tx.us/compliance/monitoring/crp/data/samplequery.html>
- Continuous Water Quality Monitoring Stations and Data
http://www.tceq.texas.gov/compliance/monitoring/water/quality/data/wqm/swqm_realtime.html
- USGS Water Data for the Nation <http://waterdata.usgs.gov/nwis>

Rio Grande Water Quality Impairments

- TCEQ 303d List
http://www.tceq.texas.gov/compliance/monitoring/water/quality/data/wqm/305_303.html

Watershed Resources

- EPA Office of Wetlands, Oceans, and Watersheds <http://www.epa.gov/owow/>
- Facts About Texas Water <http://texas.sierraclub.org/press/facts.asp>

River Cleanups – Get Involved

- USIBWC Adopt-a-River Program <http://www.ibwc.gov/CRP/adoptariver.htm>
- Texas Waterway Cleanup Program <http://www.ktb.org/programs/texas-waterway-cleanup-program.aspx>

Events for Teachers to take their students

- El Paso Water Utilities Annual Water Festival (every October) <http://www.tech2o.org/index.html> ◆

◆ - recommended!

Additional Teacher Resources

EPA Resources

- Water Activities for Middle School <http://water.epa.gov/learn/resources/midsh/index.cfm>
- Teacher Resources for Water Education <http://www.epa.gov/teachers/water.htm>
- ECHO Database to search for permitted facilities and violations http://www.epa-echo.gov/echo/compliance_report_water_icp.html
- EnviroMapper for Water <http://www.epa.gov/waters/enviromapper>

Project WET Resources

- Arizona WET Teacher Support <http://cals.arizona.edu/arizonawet/teachersupport/>
- Project WET <http://projectwet.org/>

Other Water Education Resources

- CA.GOV Water Education Materials <http://www.water.ca.gov/education/>
- USGS Water Science for Schools <http://ga.water.usgs.gov/edu/>

Texas Watershed Steward Program

<http://tws.tamu.edu/online-course>

Free training, optional certificate, no time limit for completion, course time estimated at 6 hours. Topics include watershed systems, watershed impairments, managing to improve watershed function, community-driven watershed protection and management.

Border Patrol Numbers

MARFA SECTOR			
Station	Watch Officer #	Physical Address	Mailing Address
Alpine Station (APT)	(432) 837-6100	3003 West Highway 90 Post Office Box 958 Alpine, Texas 79831	
Amarillo Sub-Station (AMT)	(806) 373-8926	8601 East Amarillo Boulevard Post Office Box 2887 Amarillo, Texas 79105	
Big Bend Sub-Station (BBP)	(432) 477-2287 After hours # (432) 477-2663		P. O. Box 67 Big Bend National Park, Texas 79834
Fort Stockton Station (FTS)	(432) 336-2468	1801 Front Street Post Office Box 607 Fort Stockton, Texas 79735	
Lubbock Station (LBK)	(806) 472-7355 ext. 0 Emergency LE ONLY # (866) 581-7549	1205 Texas Avenue Room 114 Lubbock, Texas 79401	
Marfa Station (MRS)	(432) 729-5600	717 South Highland Post Office Box "I" Marfa, Texas 79843	
Midland Station (MID)	(432) 561-8911	2800A LaForce Boulevard Post Office Box 60405 Midland, Texas 79711	
Pecos Station (PEC)	(432) 447-4813 (423) 729-5200	300 East Palmer Street Post Office Box 512 Pecos, Texas 79772	
Presidio Station (PRS)	(432) 229-3330	Highways 170 and 67 Post Office Box 929 Presidio, Texas 79845	
Sanderson Station (SNN)	(432) 345-2972	Highway 90 West Post Office Box 628 Sanderson, Texas 79848	
Sierra Blanca Station (SBT)	(915) 369-4000	900 Aztec Drive Post Office Box 8 Sierra Blanca, Texas 79851	
Van Horn Station (VHT)	(432) 283-3100	500 Laural Street Post Office Box 368 Van Horn, Texas 79855	

EL PASO SECTOR			
Station	Watch Officer #	Physical Address	Mailing Address
Alamogordo Station	(575) 437-6960 Duty Hours (575) 430-1413 On Call Sup (575) 430-1451 Alt On Call Sup (575) 479-9932 Hwy 70 CP (575) 439-0488 Hwy 54 CP	Alamogordo Station 1997 Highway 54 South Alamogordo, NM 88310-7377	
Albuquerque Station	(505) 346-6962 (505) 346-6963 (505) 346-6969	Albuquerque Station 2301 Yale Blvd. S.E. Ste A-9 Albuquerque NM 87119	
Deming Station	(575) 544-6100 ext. 9 emergencies only ext. 3 duty operations sup	Deming Station 3300 J Street Deming, NM 88030-7146	
El Paso Station	(915) 585-1924 Duty Hours (915) 585-4145 Command Ctr	El Paso Station 9201 Gateway South Boulevard El Paso, TX 79924	
Fabens Station	(915) 765-2500	Fabens Station 16001 Socorro Road Fabens, TX 79838	
Fort Hancock Station	(915) 769-1700	Fort Hancock Station 235 N. Knox Street Fort Hancock, TX 79839	
Las Cruces Station	(575) 528-6600 Ext. 0	Las Cruces Station 3120 North Main Las Cruces, NM 88001-1162	
Lordsburg Station	(505) 542-3221	Lordsburg Station 441 Duncan Highway Lordsburg, NM 88045-1231	
Santa Teresa Station	(575) 874-6800 ext. 9 emergencies , ext. 3 for FO Sup or (575) 874-6877	Santa Teresa Station 1005 NM Highway 9 Santa Teresa, NM 88008	Santa Teresa Station P.O. Box 16, Santa Teresa NM 88008
Truth or Consequences Station	(575) 744-5235	Truth or Consequences Station Mile Post 82, I-25 North / Box 3310 Truth or Consequences, New Mexico 87901	
Ysleta Station	(915) 435-1100	Ysleta Station 12245 Pine Springs Drive El Paso, TX 79936-7828	