

# Guadalupe River Basin Clean Rivers Program

2009

Steering  
Committee Meeting



# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

### Project Administration:

Progress Reports and Invoicing

Management of Sub-Agreement with

UGRA

Attendance on CRP meetings

# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

### Quality Assurance:

Develop and maintain Quality Assurance Project Plan

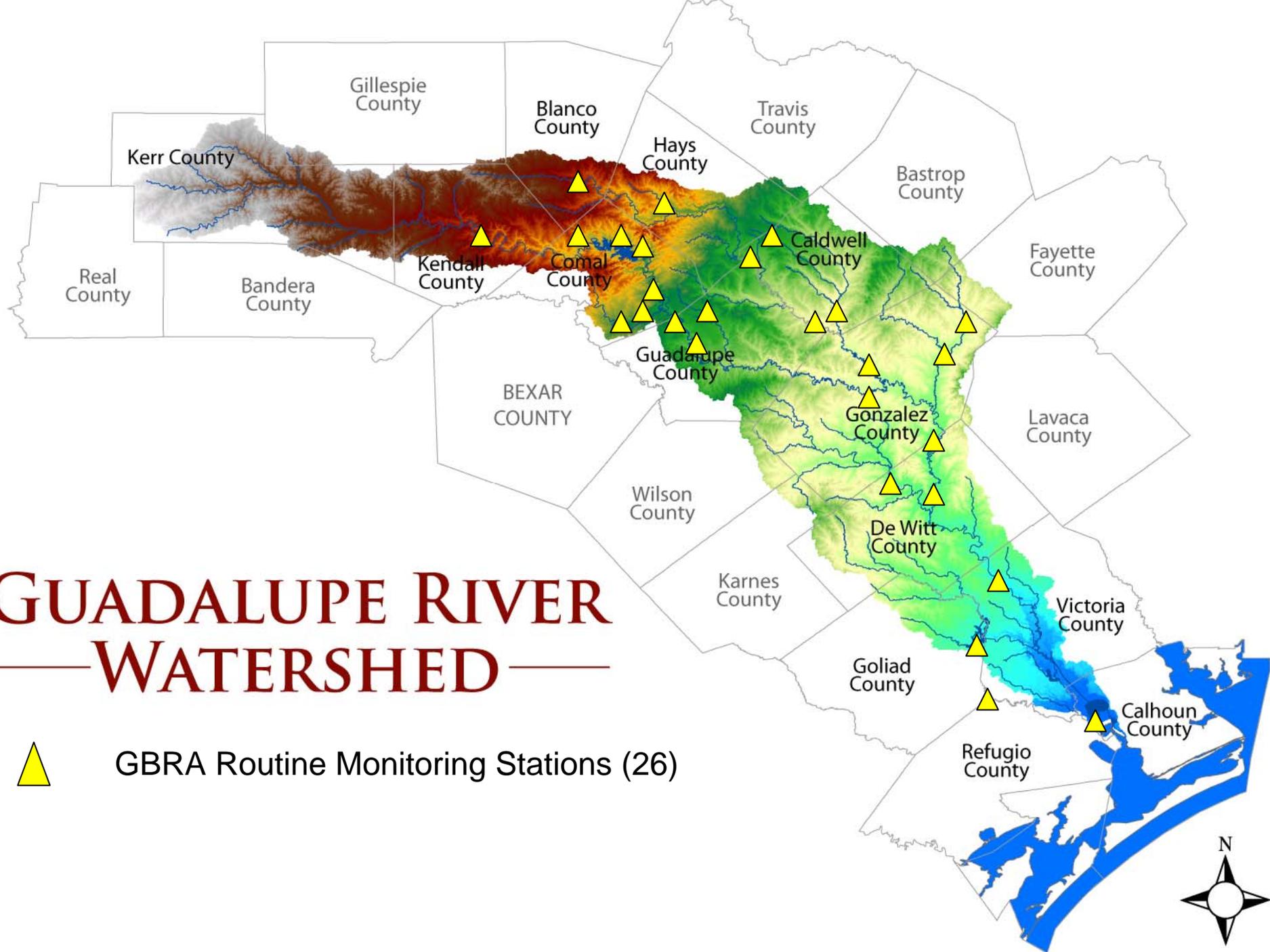
Coordinated Monitoring Meetings

# Guadalupe River Basin Clean Rivers Program

## 2009 Activities and Deliverables

### Water Quality Monitoring:

- 19 Monitoring Sites – Monthly (GBRA)
- 6 Monitoring Sites – Quarterly (GBRA)
- 1 Special monitoring – Bimonthly (GBRA)
- 10 Monitoring Sites – Quarterly (UGRA)
- 7 Sites Biological/Habitat Assessments—Annual (GBRA and UGRA)
- 2 Sites Metals – Annually (GBRA)
- 1 Site Radiological – Quarterly (GBRA)
- 2 Sites Metals in Sediment – Annually (GBRA)
- 4 Site Organics in Sediment – Annually (GBRA)
- 2 Diurnal sites – GBRA and Wimberley Valley
- 7 Monitoring sites – Monthly, March thru Oct (WVWA)



# Peach Creek @ CR 397



- Bi-monthly special monitoring site in Gonzales County
- 9 Sampling Attempts to Date
- Dry During 3 Attempts
- Dry with Pools During 2 Attempts
- Flowing 4 During Attempts

# 7 Biological/Habitat Assessments

- Special Thanks To:
- Pat Bohannon w/TCEQ
- Tara Bushnoe w/UGRA
- Paul Fleming w/TPWD
- Matt Berg w/TAES



# Metals in Water Sampling

- Peach Creek @ CR 353
- Guadalupe River @ Salt Water Barrier
- Samples Were Tested for Total (Hg, Se) & Dissolved (Al, Ag, As, Cd, Cr, Cu, Ni, Pb, Zn)  
All results were reported below TSWQS  
Acute, Chronic & Human Health Criteria.



# Metals in Sediment Sampling

- Geronimo Creek @ Haberle Road
- Guadalupe River @ Kerrville State Park
- Samples Were Tested for Total (Al, Ag, As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn)
- At Geronimo Creek Total (Al, Cu, Ni & Cr) were found above the Method Detection limit (MDL)
- At Kerrville State Park Total (Al, Ag, As, Cd, Cr, Cu, Hg, Ni, Pb & Zn) were found above the MDL.
- All levels were below the Threshold Effects Concentrations (TECs) that have been developed as consensus-based sediment quality guidelines for freshwater systems by MacDonald et al. (2000).

# Organics in Sediment

- San Marcos River @ Luling WTP
- San Marcos River @ IH35
- Guadalupe River @ Kerrville State Park
- Geronimo Creek @ Haberle Road
- Total Petroleum Hydrocarbons and BTEX (Benzene, Toluene, Ethylene, Xylene) were not found above the method detection limit.



# Organics in Water Site Removed



- Plum Creek @ Whisper Road (CR 135)
- Total Petroleum Hydrocarbons and BTEX (Benzene, Toluene, Ethylene, Xylene) were not found above the method detection limit.

# 24 Hour Diurnal Monitoring

- Blanco River @ FM 165
- Cypress Creek @ Blue Hole Campground



# Radiologicals in Water/Sediment

- Coleta Creek at Arnold Road was sampled for the three naturally occurring uranium isotopes  $^{234}\text{U}$  (*uranium II*),  $^{235}\text{U}$  (*actino-uranium*),  $^{238}\text{U}$  (*uranium I*), in addition to Total Uranium
- The alpha spectroscopy method has detected the  $^{234}\text{U}$  &  $^{238}\text{U}$  isotopes, but total uranium levels have consistently been below the method detection limit.



# Guadalupe River Basin Clean Rivers Program

## 2009 Activities and Deliverables

### Water Quality Monitoring (cont.):

Bimonthly monitoring on Peach Creek at FM 397,  
in support of TMDL project

Quarterly monitoring at Coletto Creek at Arnold Rd.  
- Radiologicals

# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

### Data Management and Watershed Inventories:

Submit data files to TCEQ monthly

Data available on website in Excel or PDF

Events Inventory

# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

Data Analysis and Reporting:

Basin Highlights Report

# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

### Public Participation and Outreach:

Website

Texas Streams Team (formerly Texas  
Watch)

# Guadalupe River Basin Clean Rivers Program

## **2009 Activities and Deliverables**

### Special Studies:

None planned for 2009

# Guadalupe River Basin Clean Rivers Program

- 2008-09 Budget

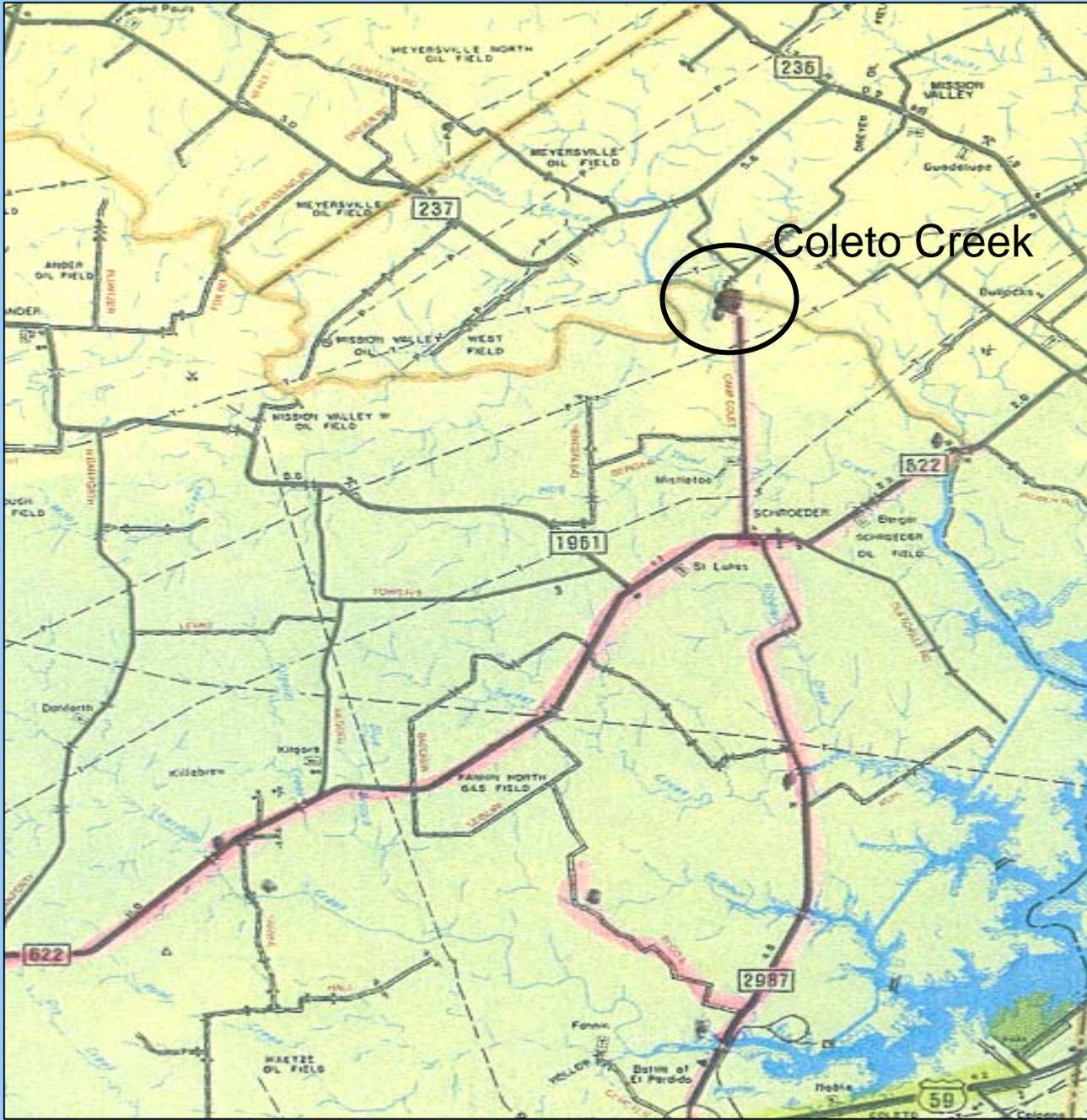
\$286,682

# Highlights of 2008-09 Work Plan

Systematic site added to Coletto Creek to develop baseline concentrations for radiologicals (quarterly)



Coletto Creek at Arnold Road



Coletto Creek

# Highlights of 2008-09 Work Plan

- GBRA received NELAP accreditation – Spring 2008
- UGRA received interim accreditation – Summer 2008



# Highlights of 2008-09 Work Plan

Continue to work with participants in program

Village of Wimberley



UGRA



# Highlights of 2008-09 Work Plan

## Coordinate with other monitoring projects

- TSSWCB Plum Creek Watershed Protection Plan
- Basin Highlights Report
- Geronimo Creek Watershed Protection Plan
- Guadalupe River Monitoring Network
- Cypress Creek watershed planning project