

# LOUISIANA

## Drinking Water Protection Pilot Program

“Communicating and Partnering with  
Local Communities”

Drinking Water Protection Team

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# TODAY'S PRESENTATION

- Focuses on community ground water systems
- How Louisiana conducted SWAP
- How SWAP results are being used
- Pilot program description
- What we have learned so far
- What we will do next

# SWAP GW INVENTORY FIELD WORK

- 3,500 wells
- 15,000 SPSOC
- All located by contractor utilizing GPS
- Entered into GIS and master database  
(3 meter accuracy)

# INITIAL ASSESSMENT RESULTS

- SWAP Informational Fact Sheets
- Map of Delineated Protection Area with Locations of SPSOC
- Inventory of SPSOC (including names, addresses, etc.) keyed to map by number
- Contamination Source Control Contacts
- Sensitivity Analysis (well depth, age, aquifer, recharge)
- Vulnerability Analysis (# of SPSOC & distance)

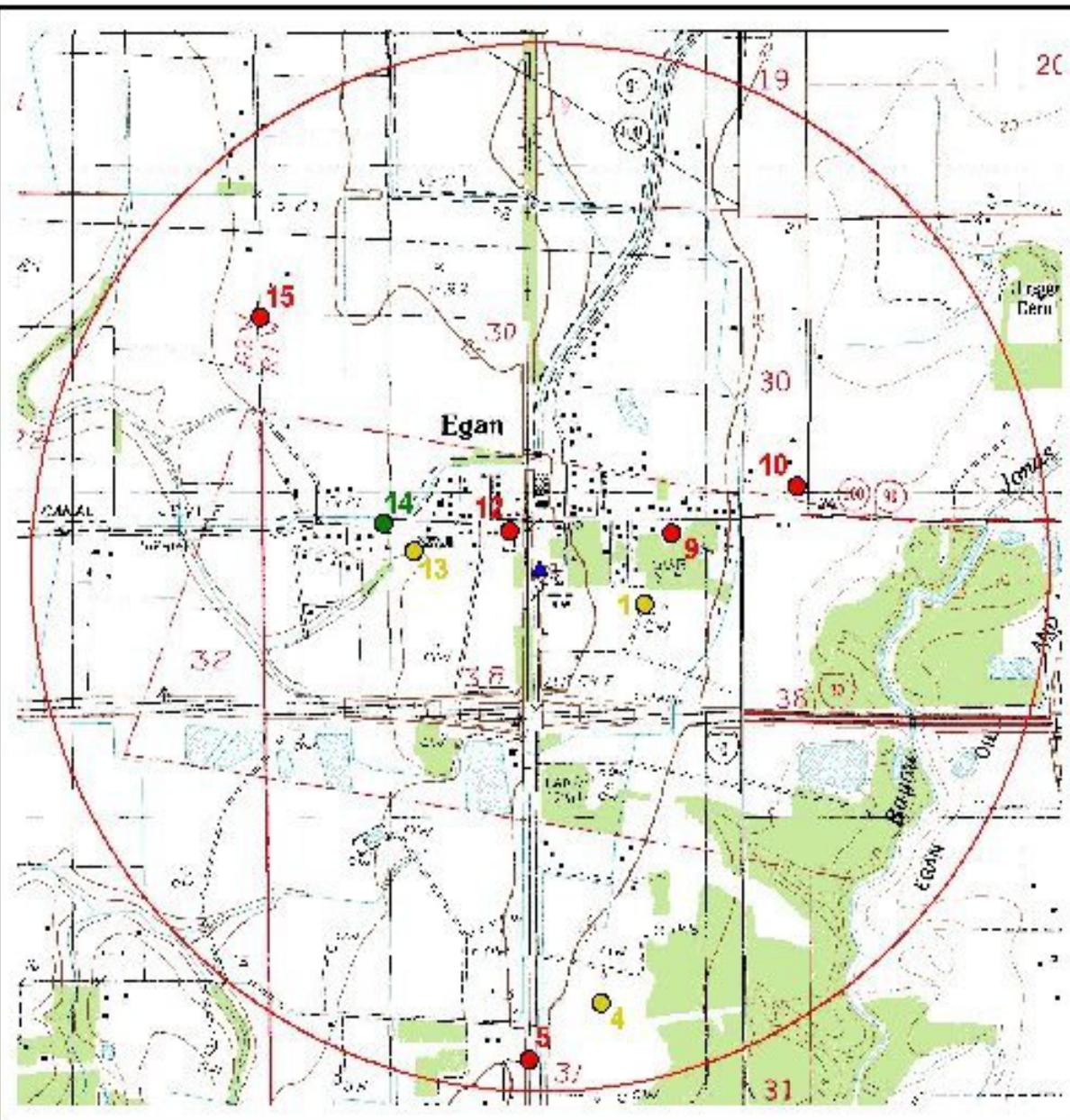
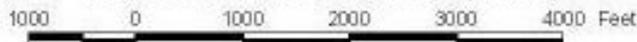
# Potential Sources of Contamination

## Well # 1001025-001

- ▲ Waterwell
- High Risk PSOC
- Medium Risk PSOC
- Low Risk PSOC
- 5280' Radius



Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any variety of sources, which are of varying degrees of accuracy. Therefore LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.





**1001025-001**  
**Egan Water Corp.**  
**30.23516 N ; 92.50662 W**  
**07/10/2000**

# FINAL SUSCEPTIBILITY ANALYSIS

- Systems compared statewide and given sensitivity and vulnerability ranking
- Systems ranked for susceptibility
- High risk, high population parishes targeted first for protection activities

# FINAL SUSCEPTIBILITY ANALYSIS

## Susceptibility Analysis Results

**Water System Name:**

**PWS ID Number:**

Well	Well Sensitivity	Well Vulnerability	Well Susceptibility
001	Medium	High	High
002	Medium	High	High
003	Medium	High	High
004	Medium	High	High

**Water System Sensitivity:** Medium

**Water System Vulnerability:** High

**Water System Susceptibility:** High

# COMMUNITY GW SWAP RESULTS

## 1118 TOTAL SYSTEMS

(susceptibility to contamination)

162 “HIGH” SYSTEMS SERVING  
346,917

926 “MED” SYSTEMS SERVING  
2,336,548

30 “LOW” SYSTEMS SERVING  
24,626

# SWAP IS BEING USED

- Louisiana DEQ – permitting, surveillance, emergency response
- Other state agencies – DHH for sanitary surveys; DNR for approving injection wells; Oil Spill Coordinator's Office; DOTD for well data; state police for emergency response, OEP – Homeland Security
- Federal agencies - EPA, NRCS, USDA

# ASSESSMENTS ARE AVAILABLE

- At water systems; public notified through CCRs
- Online through a secure website to state and federal agencies (maps, inventories, etc.)
- Online to public for general information
- DWPP Team explains assessments during visits to water systems

# DRINKING WATER PROTECTION PROGRAM GOALS

- What is the source of our drinking water?
- Why is it important to protect it?
- How can we protect our drinking water?

# STRUCTURE

- LDEQ – PWS SYSTEMS – WHPP
- LDEQ – SCHOOLS, GROUPS, PUBLIC – PRESENTATIONS
- LDEQ – COMMITTEE – TRAINING
- LDEQ – COMMITTEE – *OUTREACH*
- COMMITTEE – LOCAL GOV'T. - PLANNING, ZONING, OEP

# WHY AVOYELLES PARISH?

- 8 of 12 systems already in WHPP
- Pre-existing WS operator organization
- Nearly half population served by “High” ranked systems (22000 out of 45000)
- 6.33% of state population served by “High” ranked systems are in Avoyelles Parish
- 100% Community Ground Water
- Really good food

# TYPICAL AVOYELLES PARISH BREAKFAST



# MOST PREVALENT SPSOCs

- Statewide – storage tanks; 5,300 out of the 15,000 SPSOC
- In Avoyelles Parish – storage tanks; 105 out of the 223 SPSOC
- These include active and inactive USTs and ASTs

# AVOYELLES PARISH PILOT DWPP STEPS

- Contacted local water system operators, boards, government officials, schools, businesses (through Chambers of Commerce), organizations
- Compiled database of parish contacts
- Mailed preliminary information to 700 contacts
- Sent out press release to local media
- Developed four presentations and four group-appropriate sets of handouts

# AVOYELLES PARISH PILOT DWPP STEPS (cont.)

- Visited local schools to present information on drinking water protection (aquifer model demo)
- Sent out invitations to a parish wide meeting
- Interviewed on local morning news shows
- Held parish-wide DWPP public meeting to solicit volunteers for a local committee- covered by TV and newspaper
- Trained local committee volunteers
- Provided SWAP maps and WHPP contingency plans to OEP and for use in Avoyelles Parish master plan

# LOCAL SUPPORT

- Roles of the committee:

- Visit SPSOC that are close to wells - decals
- Distribute information, provided by DEQ, to local citizens, schools, community groups
- Encourage local officials to include drinking water protection in planning and to pass drinking water protection ordinances
- Develop a local household waste collection day
- Develop their own tasks

# LOGOS, DECAL



# WELLHEAD PROTECTION PROGRAM

- 8 of 12 Avoyelles Parish systems already approved in WHPP
- During pilot, contingency plans requested and received from remaining four systems
- Avoyelles Parish first parish in Louisiana with 100% of systems participating in WHPP

# WHAT WE HAVE LEARNED -

- Citizens *need* to know source of drinking water
- Citizens *need* to know how easily aquifers can become contaminated
- Citizens *need* to know what they can do
- *Education* is the *key*
- *AWARENESS IS THE GOAL*

# RESULTS SO FAR

- DWPP team met with over 1500 individuals who now know their drinking water source and how to protect it
- Sent home material with 1100 students
- Program and personnel recognition and acceptance (promotional material)
- Committee formed and assigned tasks

# PROBLEMS ?

- Summer – no school presentations (students carried DWPP material home)
- Original program material had to be produced as we determined need
- Lack of media attention
- Labor and time intensive
- Effectiveness of the committee TBD
- Eventually tracking 64 parish committees
- Updating assessments

# WHAT'S NEXT?

- Will continue working with local volunteers – we will suggest annual tasks and help with other tasks
- Will use pilot program results to set standards for the Drinking Water Protection Program
- Will move on to the next parish, as determined by the susceptibility analysis
- Statewide awareness campaign – videos, signs, brochures, fact sheets, school lesson materials, handouts, t-shirts, website, newsletter

# FOR MORE INFORMATION

Visit us at the Resource Fair

Visit our future DWPP website at

[www.deq.state.la.us/evaluation/aeps](http://www.deq.state.la.us/evaluation/aeps)

Contact us at 225-765-0578 or by  
email at [evaluation@deq.state.la.us](mailto:evaluation@deq.state.la.us)