

**Illinois River Watershed Partnership  
Board of Directors Meeting**

**Meeting #10  
6:00 pm, Tuesday, February 12, 2008  
Siloam Springs Community Center  
Siloam Springs, AR**

**Board Members Present:**

Bowman, Douglas, Faupel, Gaston, Hale, Herron, Hunton, Lindsey, Mardis, McSpadden, Michaels, Pharr, Saunders, Skopecek, Smith, Snell, E.Teague, K. Teague, Thomas, Woolbright.

**Guests Present:**

Manuel Barnes, EGIS; James Gately, Multi-Basin Regional Water Group; Mark Curtis, ABLE; Josh Payne, OSU Muskogee Extension; Allen Brown, ANRC; Ellen McNulty, AWAG; Ben Watson, member, UA student; Marc Nelson, AWQL and wife Beverly; James Smith, Simmons Foods; James Clark, Simmons Foods; Phillip Hays, USGS; Susan Bolyard, USGS; Jim and Roxann Morrill; John Dunn, Lifetime member; Scott Carney, SWEPCO; Les Davis, member; Dabney Brown, Audubon Fayetteville

1. Meeting called to order/ Susan Thomas
2. Introduction of Guests/ Susan Thomas
3. Public Comments  
None
4. Minutes:  
**Motion to accept minutes from Meeting #9 (November 13, 2007) made by Skopecek, seconded by Hale. Motion passed unanimously.**
5. Committee Reports
  - Executive Committee: Susan Thomas
  - Finance Committee: Michael Lindsey, MorganKeegan (Board Bookkeeper)
    - Michael discussed the December 31, 2007 Budget and Financial Statements (copies attached hereto).  
**Motion to approve Financial Statements made by Pharr, seconded by Hale. Motion passed unanimously.**
    - Walton Family Foundation meeting February 14, 9 AM, Bentonville
  - Program and Planning Committee: Mike Faupel, Chair
    - The Riparian Project: March 29, 8 - Noon
      - Fayetteville Hamstring Creek Trail – Partners: Mike Mihalevich, City Trails & Cub Pack #46
      - Rogers Blossom Way Creek Trail – Partners: Jeff Belk, Rogers HS & Boy Scout Troop #122

- Siloam Springs Sager Creek Trail – Partners: City of Siloam Springs & Boy Scout Troop #84
      - Springdale Spring Creek – Partners: Mayor’s Tree City USA Committee & Patti Erwin, AR Forester, (Visited with NOARK Girl Scout Leaders Feb. 5 and hope for Girl Scouts to join us, too!)
    - 2008 Stream clean-up: April 26 Lake Fayetteville Watershed clean up scheduled
  - Technical Committee: Sheri Herron, Chair
    - New ANRC 319 Grant Proposal - Ballard Creek Monitoring (project summary attached hereto)
    - Faupel made a motion to support ANRC Ballard Creek Monitoring. Snell seconded. Motion passed unanimously.**
    - University of Arkansas Watershed Research Education Center - 5-Star Restoration Grant (project summary attached hereto)
    - Mardis made a motion to support the WREC grant proposal and provide the \$3K match. Pharr seconded. Motion passed unanimously.**
    - Allen Brown, ANRC 319 Grant Manager gave an update on the Volunteer Monitoring and 59 Bridge Monitoring grants submitted. (See Nov. 13 minutes). ANRC has approved these grants and forwarded them to EPA for approval.
  - Education Committee: Katie Teague, Chair
    - “Watershed Wednesdays”
    - The Riparian Project with ABC 40/29
    - Soil Test Drop Off: April 5
    - HHW Round Up: September 6, October 4, November 1
    - Environmental Fairs
    - Education materials developed
  - Membership Committee: Gene Pharr
    - Board Members please pay your dues and recruit new members! Also please sign-up to participate in our membership outreach meetings and other watershed activities.
    - March 29: The Riparian Project – Fayetteville, Rogers, Siloam Springs, Springdale
    - April 5-6: “Living it Green” Sustainability Fair - The Promenade Mall
    - April 19: Rogers Environmental Day - Downtown Rogers
    - April 23-24 and 26: Earth Day - Botanical Gardens of the Ozarks
    - April 26: Lake Fayetteville Watershed cleanup
    - September 13: Annual Membership Event – Simmons Foods, Siloam Springs
    - Golden Paddle Nomination Award Form (copy attached hereto)
    - Motion to approve Golden Paddle Award Form made by Faupel, seconded by Michaels. Motion passed unanimously.**
6. Tetra Tech
- Tetra Tech Team: Barry Toning & Heather Fisher

- Presentation of watershed planning process & stakeholder process (see attached PowerPoint slides)
  - Stakeholder Process Slide Headings
    - Phased Plan Approach
    - Roles of Stakeholder Groups
    - Logistics of Meetings and Actions
    - Key Project Tasks
  - Copy of stakeholder process attached hereto
- **Motion to approve stakeholder involvement process as presented made by Skopecek. Seconded by Pharr. Motion passed unanimously.**
- Next Steps: March 10 – 13 Targeted Interest Groups and Public Meeting
- Goals & Objectives Development (see attached PowerPoint slides). Tetra Tech guided a discussion session with the Board and guests to produce a first draft of Goals and Objectives. This information will be distributed to the board via email for comments and additions.
  - The Foundation of the Mgmt Plan
  - Goal: Overarching Vision or Why We're Here
  - Objective: An aim or purpose to be achieved pursuant to the overarching goals

Golden paddle award nominations due June 30, 2008

Meeting adjourned at 8:27 PM.

**Special Board Meeting:** March 13 - Jones Center for Families, Springdale – 6 to 9 pm.

# Illinois River Watershed Partnership Statement of Financial Position

As of December 31, 2007

	General Fund	Education Fund	Survey Fund	Rain Garden	Total
<b>ASSETS</b>					
<b>Current Assets</b>					
<b>Checking/Savings</b>					
1-1-100 - Arvest Checking	\$234,146.21	-\$7,978.98	\$22,775.09	\$736.06	\$249,678.38
1-1-110 - Petty Cash	9.27	0	0	0	9.27
<b>Total Checking/Savings</b>	<b>234,155.48</b>	<b>-7,978.98</b>	<b>22,775.09</b>	<b>736.06</b>	<b>249,687.65</b>
1-1-201 - Prepaid Exp	2,164.85	0.00	0.00	0.00	2,164.85
1-1-206 - Acct Receivable	10,000.00	0.00	0.00	0.00	10,000.00
<b>TOTAL ASSETS</b>	<b>246,320.33</b>	<b>-7,978.98</b>	<b>22,775.09</b>	<b>736.06</b>	<b>261,852.50</b>
<b>LIABILITIES &amp; EQUITY</b>					
<b>Liabilities</b>					
Accounts Payable	\$23,178.13	\$0.00	\$0.00	\$0.00	\$23,178.13
Payroll Taxes Due	1,106.50	0	0	0	1,106.50
<b>Total Liabilities</b>	<b>24,284.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>24,284.63</b>
<b>Equity</b>					
Retained Earnings	\$5,886.42	\$5,713.00	-\$4,958.91	\$0.00	\$6,640.51
Change in Net Assets	238,197.11	-13,691.98	27,734.00	736.06	252,975.19
<b>Total Equity</b>	<b>244,083.53</b>	<b>-7,978.98</b>	<b>22,775.09</b>	<b>736.06</b>	<b>259,615.70</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>268,368.16</b>	<b>-7,978.98</b>	<b>22,775.09</b>	<b>736.06</b>	<b>283,900.33</b>

**Illinois River Watershed Partnership  
Statement of Activities  
January through December 2007**

	General Fund	Education Fund	Survey Fund	Rain Garden	Total
<b>Revenue</b>					
Memberships & Donations	4,855.00				4,855.00
Special Event Donations & Revenue	20,540.75				20,540.75
Sponsorships	123,000.00				123,000.00
Rain Barrel Sales	225.00				225.00
In-Kind Donations & Other	8,705.25	152,078.54	30,360.09	15,299.77	206,443.65
Grant	208,500.00	170,319.50	26,934.00	12,000.00	417,753.50
<b>Total Revenue</b>	<b>365,826.00</b>	<b>322,398.04</b>	<b>57,294.09</b>	<b>27,299.77</b>	<b>772,817.90</b>
<b>Expense</b>					
9-1-100 · General - Audit	3,380.00				3,380.00
9-1-150 · General - Insurance	583.15				583.15
9-1-173 · Special Events & Other	19,923.20				19,923.20
9-1-200 · General Personnel - Payroll	59,500.00				59,500.00
9-1-205 · General Personnel - Payroll Taxes	4,307.02				4,307.02
9-1-210 · General Personnel - Mileage	4,582.77				4,582.77
9-1-230 · General Personnel - Publication	0.00				0.00
9-1-300 · General Office - Equipment	1,401.09				1,401.09
9-1-310 · General Office - Print & Copy	144.71				144.71
9-1-320 · General Office - Phone	0.00				0.00
9-1-330 · General Office - Postage	783.81				783.81
9-1-340 · General Office - Rent	0.00				0.00
9-1-350 · General Office - Software	434.00				434.00
9-1-360 · General Office - Supplies	647.88				647.88
9-1-390 · General Office - Website	273.23				273.23
9-1-400 · General P&P - Education	8,292.00				8,292.00
9-1-410 · General P&P - Finance	643.75				643.75
9-1-420 · General P&P - Membership	5,337.66				5,337.66
9-1-430 · General P&P - Outreach	0.00				0.00
9-1-450 · General P&P - Technical	659.29				659.29
9-1-500 · General - RESTRICTED WMP	16,735.33				16,735.33
9-2-230 · Education - Outreach Materials		15,516.85			15,516.85
9-2-240 · Education Grant - Educ. Materials		27,000.00			27,000.00
9-2-320 · Education Grant - NPS Forecast		63,625.00			63,625.00
9-2-330 · Education - Implement Outreach		148,614.17			148,614.17
9-2-410 · Education - Presentations		14,700.00			14,700.00
9-2-420 · Education - Staff Displays		2,000.00			2,000.00
9-2-430 · Education - Teacher Training		0.00			0.00
9-2-440 · Education Grant - Cons Workshop		4,228.00			4,228.00
9-2-450 · Education Grant- L/I Development		4,000.00			4,000.00
9-2-510 · Education Grant - Eval Programs		17,500.00			17,500.00
9-2-520 · Education - Mini Quizzes		5,774.00			5,774.00
9-2-530 · Education Grant- Prg Follow Up		10,132.00			10,132.00
9-2-610 · Education - Quarterly Reports		2,000.00			2,000.00
9-2-620 · Education - Annual Reports		0.00			0.00
9-2-630 · Education Grant - Final Report		21,000.00			21,000.00
9-3-250 · Survey - Conduct Post Cmp Survey			5,234.00		5,234.00
9-3-260 · Survey - Compile Survey Resp			10,000.00		10,000.00
9-3-240 · Survey - Modify Survey			8,526.09		8,526.09
9-3-310 · Survey - Quarterly Reports			800.00		800.00
9-3-320 · Survey - Final Reports			5,000.00		5,000.00
9-4-100 - Grant - Rain Garden Expense				11,263.94	11,263.94
9-4-101 - Grant - Rain Garden Volunteer Time				15,299.77	15,299.77
<b>Total Expense</b>	<b>127,628.89</b>	<b>336,090.02</b>	<b>29,560.09</b>	<b>26,563.71</b>	<b>519,842.71</b>
	<b>238,197.11</b>	<b>-13,691.98</b>	<b>27,734.00</b>	<b>736.06</b>	<b>252,975.19</b>

**Illinois River Watershed Partnership - Budget Report**  
**GENERAL FUND**  
*January 1 through December 31, 2007*

<b>Income</b>	<b>General Actual</b>	<b>General Budget</b>	<b>Remaining Budget</b>	<b>% Raised</b>
7-1-100 · Memberships & Donations	4,855.00	11,000.00	6,145.00	44%
7-1-102 · Sponsorships	123,000.00	49,800.00	-73,200.00	247%
7-1-103 · Rain Barrel Sales	225.00	0.00	-225.00	100%
7-1-200 · In-Kind Donations	8,705.25	3,000.00	-5,705.25	290%
7-1-300 · General - Grant	208,500.00	100,000.00	-108,500.00	209%
7-1-400 · Special Events Revenue & Donations	20,540.75	0	-20,540.75	
<b>Total Income</b>	<b>365,826.00</b>	<b>163,800.00</b>	<b>-202,026.00</b>	<b>223%</b>

<b>Expense</b>	<b>General Actual</b>	<b>General Budget</b>	<b>Remaining Budget</b>	<b>% Expensed</b>
9-1-110 · General - Audit	3,380.00	2,000.00	-1,380.00	169%
9-1-150 · General - Insurance	583.15	1,000.00	416.85	58%
9-1-173 · General - Special Events	19,923.20	0.00	-19,923.20	--
9-1-200 · General Personnel - Payroll	59,500.00	87,000.00	27,500.00	68%
9-1-205 · General Personnel - Payroll Taxes	4,307.02	12,000.00	7,692.98	36%
9-1-210 · General Personnel - Mileage	4,582.77	6,000.00	1,417.23	76%
9-1-230 · General Personnel - Publication	0.00	500.00	500.00	0%
9-1-300 · General Office - Equipment	1,401.09	4,500.00	3,098.91	31%
9-1-310 · General Office - Print & Copy	144.71	400.00	255.29	36%
9-1-320 · General Office - Phone	0.00	2,400.00	2,400.00	0%
9-1-330 · General Office - Postage	783.81	400.00	-383.81	196%
9-1-340 · General Office - Rent	0.00	8,000.00	8,000.00	0%
9-1-350 · General Office - Software	434.00	1,000.00	566.00	43%
9-1-360 · General Office - Supplies	647.88	2,000.00	1,352.12	32%
9-1-390 · General Office - Website	273.23	800.00	526.77	34%
9-1-400 · General Program & Projects - Education	8,292.00	4,000.00	-4,292.00	207%
9-1-410 · General Program & Projects - Finance	643.75	1,000.00	356.25	64%
9-1-420 · General Program & Projects - Membership	5,337.66	3,000.00	-2,337.66	178%
9-1-430 · General Program & Projects - Outreach	0.00	2,000.00	2,000.00	0%
9-1-450 · General Program & Projects - Technical	659.29	5,725.00	5,065.71	12%
9-1-500 · General - Restricted WMP Expenses	16,735.33	0.00	-16,735.33	--
<b>Total Expense</b>	<b>127,628.89</b>	<b>143,725.00</b>	<b>16,096.11</b>	<b>89%</b>
<b>Net Change in Assets</b>	<b>238,197.11</b>	<b>20,075.00</b>	<b>-218,122.11</b>	

7:10 PM  
12/07/06  
Cash Basis

**Illinois River Watershed Partnership - Budget Report**  
**EDUCATION FUND**  
*January 1 through December 31, 2007*

<b>Income</b>	<b>Education Actual</b>	<b>Education Budget</b>	<b>Remaining Budget</b>	<b>% Raised</b>
7-2-100 · Education - Grant	170,319.50	221,028.00	50,708.50	77%
7-2-200 · Education - In-Kind Donation	152,078.54	171,427.00	19,348.46	89%
<b>Total Income</b>	<b>322,398.04</b>	<b>392,455.00</b>	<b>70,056.96</b>	
<b>Expense</b>	<b>General Actual</b>	<b>General Budget</b>	<b>Remaining Budget</b>	<b>% Expensed</b>
9-2-230 · Education Grant - Outreach Materials	15,516.85	31,500.00	15,983.15	49%
9-2-240 · Education Grant - Education Materials	27,000.00	32,000.00	5,000.00	84%
9-2-320 · Education Grant - NPS Forecast	63,625.00	54,000.00	-9,625.00	118%
9-2-330 · Education Grant - Implement Outreach	148,614.17	169,100.00	20,485.83	88%
9-2-410 · Education Grant - Presentations	14,700.00	28,700.00	14,000.00	51%
9-2-420 · Education Grant- Staff Displays	2,000.00	2,000.00	0.00	100%
9-2-440 · Education Grant - Construction Workshop	4,228.00	8,249.00	4,021.00	51%
9-2-450 · Education Grant- Low Impact Development	4,000.00	4,000.00	0.00	100%
9-2-510 · Education Grant - Evaluate Programs	17,500.00	20,000.00	2,500.00	88%
9-2-520 · Education Grant - Mini Quizzes	5,774.00	8,774.00	3,000.00	66%
9-2-530 · Education Grant- Program Follow Up	10,132.00	10,132.00	0.00	100%
9-2-610 · Education Grant - Quarterly Reports	2,000.00	3,000.00	1,000.00	67%
9-2-630 · Education Grant - Final Report	21,000.00	21,000.00	0.00	100%
<b>Total Expenses</b>	<b>336,090.02</b>	<b>392,455.00</b>	<b>56,364.98</b>	<b>86%</b>
<b>Net Change in Assets</b>	<b>-13,691.98</b>	<b>0.00</b>	<b>13,691.98</b>	

**Illinois River Watershed Partnership - Budget Report**  
**SURVEY FUND**  
*January 1 through December 31, 2007*

<b>Income</b>	<b>Survey Actual</b>	<b>Survey Budget</b>	<b>Remaining Budget</b>	<b>% Raised</b>
7-3-100 · Survey - Grant	26,934.00	27,734.00	800.00	97%
7-3-200 · Survey - In-Kind Donations	30,360.09	7,585.00	-22,775.09	400%
<b>Total Income</b>	<b>57,294.09</b>	<b>35,319.00</b>	<b>-21,975.09</b>	
<b>Expense</b>	<b>General Actual</b>	<b>General Budget</b>	<b>Remaining Budget</b>	<b>% Expensed</b>
9-3-240 · Survey Grant - Modify Survey	8,526.09	12,685.00	4,158.91	67%
9-3-250 · Survey Grant - Post Campaign Survey	5,234.00	5,234.00	0.00	100%
9-3-260 · Survey Grant - Compile Follow Up Responses	10,000.00	10,000.00	0.00	100%
9-3-310 · Survey Grant - Quarterly Reports	800.00	2,400.00	1,600.00	33%
9-3-330 · Survey Grant - Final Report	5,000.00	5,000.00	0.00	100%
<b>Total Expenses</b>	<b>29,560.09</b>	<b>35,319.00</b>	<b>5,758.91</b>	<b>84%</b>
<b>Net Change in Assets</b>	<b>27,734.00</b>	<b>0.00</b>	<b>-27,734.00</b>	

## IRWP GRANT PROPOSALS

Reviewed and Recommended to the Board by Technical, Finance and Executive Committees

### 1. BALLARD CREEK MONITORING – ANRC 319 GRANT PROPOSAL

A water quality sampling station has been installed at the Washington County Road 76 Bridge over Ballard Creek just before the creek leaves the state of Arkansas and enters into Oklahoma. This proposal is to continue water quality sampling, analysis and load calculations for July 1, 2008 to June 30, 2009. The parameters measured from collected samples will be nitrate-nitrogen, ammonia-nitrogen, total nitrogen, total phosphorus, dissolved reactive phosphorus, turbidity, conductivity, sulfate chloride and total suspended solids. In addition turbidity, conductivity and pH will be measured in-situ and recorded in thirty-minute intervals. The IRWP will be the contractor with Arkansas Natural Resources Commission (ANRC) for the 319 grant. They will be responsible for contractual relationships and payment to the sub-contractor. The IRWP will be responsible for providing the match for the project. The sub-contractor will be responsible for all remaining tasks of the project including: writing the QAPP, collecting samples and analyzing the data from the water quality sampling station, computing the annual load for all parameters and reporting quarterly and annually to the IRWP and ANRC.

#### GRANT REQUEST:

Requested federal funds:	\$45,765
Estimated Sub-contract total:	\$45,765

**BOARD ACTION: IRWP In-Kind matching funds: \$34,524**

### 2. RIPARIAN PROJECT - WATERSHED RESEARCH AND EDUCATION CENTER

The objective of this proposal is to finalize the design, development and restoration of a section of riparian zone and wetland area to provide outdoor direct and indirect educational opportunities at the *Watershed Research and Education Center* at the UA Arkansas Experiment Station, Fayetteville, Arkansas. We will restore the riparian area along a section (~2000 linear feet) of the stream draining the *Center*, and we will restrict cattle access to a natural hydrologic soil (~3 acres), remove the agricultural drainage ditch, and allow the wetland area to vegetate (both naturally and with selective planting). The riparian and wetland restoration will ultimately include a boardwalk with informational kiosks or signs that will highlight the importance of ecological services and functions of wetlands and riparian zones to an audience ranging from K–12 through local stakeholders (urban citizens, local farmers, etc.). This area will provide an outdoor educational opportunity to our students through water science and ecological engineering design classes, as well as educational workshops on riparian restoration (hosted by the Arkansas Forest Resources Center) targeting local watershed partnerships, urban citizens, and local farmers (through County Farm Bureau). This proposal will provide us the opportunity to develop an incredible outdoor classroom that will educate broad audiences on the importance of wetlands and riparian zones, and why we need to restore and maintain these areas in the natural landscape of urban–suburban development, agricultural farming operations, and at their interface.

#### GRANT REQUEST:

Five–Star Funds Requested: \$20,000  
UA Arkansas Experiment Station \$20,000  
Additional Partner Contributions: \$6,193  
Total Project Costs: \$46,193

**BOARD ACTION: IRWP Cash Contribution: “Up to 10% of the grant proposal, not to exceed \$3,000”**



2008 Golden Paddle Award Nomination Form

The Golden Paddle Award recognizes leaders in watershed stewardship and/or natural resource conservation in the Illinois River watershed. Six awards are given annually to individuals or entities that exemplify good stewardship in the protection, preservation, and enhancement of the watershed.

Eligibility: Individuals, farms, nonprofit organizations, local governments, schools, professionals, businesses or other that are actively involved in education, projects, and/or programs to protect, preserve, or improve the water quality and wildlife habitat in the Illinois River watershed.

Nomination Categories (select one):  Agriculture       Construction  
 Business       Government  
 Conservation       Technical Resource/Education

Nominee Information:      Name: \_\_\_\_\_  
   Street Address: \_\_\_\_\_  
   City, State, Zip: \_\_\_\_\_  
   Telephone: \_\_\_\_\_  
   E-Mail: \_\_\_\_\_

Criteria:      Please describe why your nominee should receive a Golden Paddle Award. For each applicable criterion, give a short narrative describing your nominee's activities in the Illinois River watershed. The entire nomination form and narratives should not exceed 5 pages.

1.      Improved public awareness of water quality issues in Illinois River watershed.
2.      Demonstrated to others the importance of good resource stewardship and/or provided incentives to promote good stewardship in the watershed.
3.      Initiated or improved best management practices on a project(s) to reduce negative impacts on water quality and/or wildlife habitat in the Illinois River watershed.
4.      Coordinated a project(s) with local government, nonprofit groups, agencies, citizens, and/or students to involve stakeholders and maximize resources.
5.      Provided funding for and/or sponsorship of a significant project to protect or improve water quality in the Illinois River watershed.
6.      Dedicated a significant amount of time, energy, and support to promote, preserve, and protect the Illinois River watershed.
7.      Initiated new programs to improve their environmental impact in the Illinois River watershed (business, government, school).

Submit nominations to:      Illinois River Watershed Partnership  
   PO Box 8506  
   Fayetteville, AR 72703

Nominations must be postmarked no later than June 30<sup>th</sup> for consideration.  
Awards will be presented on September 13, 2008 and all nominees will be invited to the event.



## Upper Illinois River Watershed Plan: Stakeholder Involvement Process Preliminary Goals and Objectives

Tetra Tech, Inc  
February 12, 2008



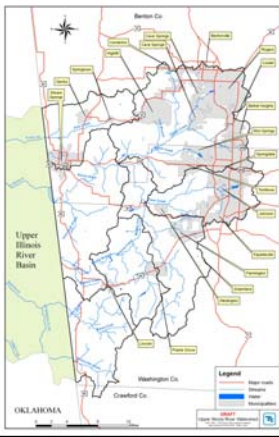
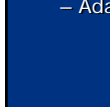
## Agenda

- Stakeholder Involvement Approach
- Preliminary Goals and Objectives
- Next Steps





## Watershed Location

- 760 square miles

## Watershed Planning Process

- **Set goals & objectives, ID indicators**
  - Stakeholder involvement
- **Watershed scoping, characterization & analysis**
  - Issue identification
- **Define implementation measures**
  - Management measures
  - Legal framework
- **Track progress**
  - Adaptive management

## Stakeholder Involvement Process

- Phased Plan Approach
- Roles of Stakeholder Groups
- Logistics of Meetings and Actions
- Key Project Tasks



## Phased Plan Development

- Phase 1:
  - Stakeholder Process Development
  - Watershed Scoping
  - Establishment of Goals and Objectives
  - Watershed Assessment Planning
- Phase 2:
  - Development of assessment tools
  - Detailed characterization and prioritization of management needs
- Phase 3:
  - Development and evaluation of management options
  - Selection of preferred alternatives
  - Documentation of the management plan and implementation strategy

### Phased Plan Development

- Phase 1:
  - Stakeholder Process Development
  - Watershed Scoping
  - Establishment of Goals and Objectives
  - Watershed Assessment Planning
- Phase 2:
  - Development of assessment tools
  - Detailed characterization and prioritization of management needs
- Phase 3:
  - Development and evaluation of management options
  - Selection of preferred alternatives
  - Documentation of the management plan and implementation strategy



### Interest Group Meetings

- Agricultural Issues - Poultry Related
- Agricultural Issues - Non-Poultry
- Development and Construction Issues
- Wastewater Treatment Issues
- Planning and Stormwater Management Issues
- Septic Systems and Decentralized Wastewater Issues
- City and County Government Issues
- Rural Streamside Management Issues

### Protocols and Rules

- Board Adopted By-laws
- Attendance
- Meeting summaries
- Decision-making Protocol
- Communication with Constituencies

### Phase I

- First IRWP Board Meeting
- Interest Group Meetings (up to 6)
  - March 10-12
- Public Meeting and Second IRWP Board Meeting
  - March 13

### Questions and Discussion



## Preliminary Goals and Objectives



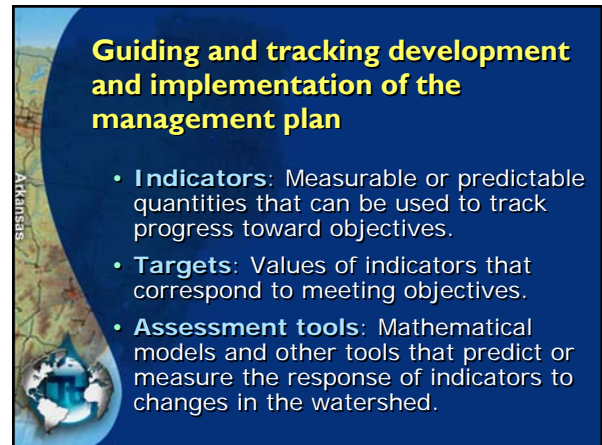
## Goals and Objectives Development

- The foundation of the Management Plan
- Based on:
  - Scoping analysis
  - Stakeholder concerns
- These are used to:
  - Guide detailed analysis
  - Select indicators & management targets
  - Evaluate & select management options
  - Gauge success of the Plan



## Some definitions . . .

- Goal: Overarching vision or “why we’re here”
- Objective: An aim or purpose to be achieved pursuant to the overarching goals
  - More measurable than goals



## Guiding and tracking development and implementation of the management plan

- **Indicators:** Measurable or predictable quantities that can be used to track progress toward objectives.
- **Targets:** Values of indicators that correspond to meeting objectives.
- **Assessment tools:** Mathematical models and other tools that predict or measure the response of indicators to changes in the watershed.



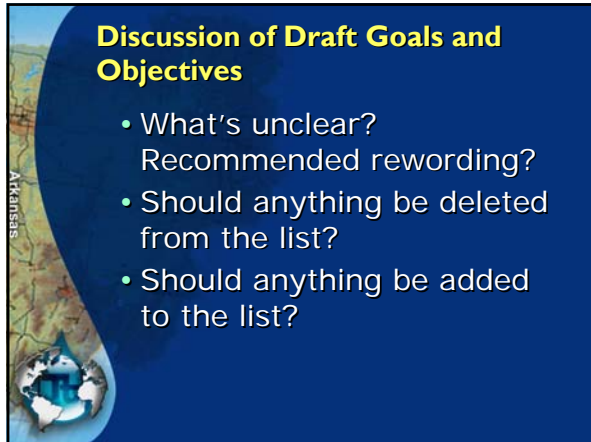
## Purpose

- Guide the watershed plan
- Context for
  - Assessing current and future conditions
  - Crafting management options
  - Evaluating/selecting management strategies



## Source of Draft Goals and Objectives

- IRWP Goals and Objectives
- Stakeholder interviews
- Initial Watershed Scoping



**Discussion of Draft Goals and Objectives**

- What's unclear?  
Recommended rewording?
- Should anything be deleted from the list?
- Should anything be added to the list?



**Next Steps**



**Scoping of Watershed Conditions**

- Watershed Conditions
  - Watershed Characteristics
  - Watershed Conditions
  - Existing Threats
  - Water Quality Assessment
- Existing Regulations (Federal, State, Local)
- Issues, Management Gaps, and Opportunities



**Next Steps**

- Revise goals and objectives
- Finalize scoping analysis
- Interest Group Meetings
  - Up to 6, March 10-12
- Public Meeting and 2<sup>nd</sup> Board Meeting
  - March 13
  - Scoping analysis presentation
  - Rank and Finalize Goals and Objectives
  - Draft Indicators
- IRWP Board Conference Call following 2<sup>nd</sup> meeting
  - Adopt Goals and Objectives



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## MEMO

**Date:** January 14, 2008  
**To:** Delia Haak  
**From:** Barry Tinning and Heather Fisher  
**Subject:** Stakeholder Involvement Process: Upper Illinois River Watershed Management Plan (Final Version)

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This memorandum outlines the proposed *Stakeholder Involvement Process* for developing a watershed management plan for the Upper Illinois River. The process described below is based on the scope of work developed by Tetra Tech in September 2007 and subsequent discussions with Illinois River Watershed Partnership (IRWP) staff and Watershed Advisory Group (WAG) members.

It should be noted that the *Watershed Management Plan* will be a product of both the stakeholder involvement process and technical analyses conducted by Tetra Tech and other project partners. In general, the approach for developing the management plan focuses on building stakeholder awareness and knowledge of the technical issues linked to water resource management, such as threats posed by point and nonpoint source pollution, and building stakeholder consensus on the actions needed to address those threats.

Managing this effort requires a robust investigation of technical, scientific, and other issues that affect water quality; analyses of current conditions and likely future trends; identification of key water quality stressors and sources; and the selection of management practices designed to address the challenges identified. The involvement of various stakeholders is key to all of these actions – i.e., stakeholders with technical knowledge of the Upper Illinois River Watershed will be important partners for developing the analytical framework; those who have participated in baseline and other studies can help to build an understanding of how the system works; and those who work with farmers, construction contractors, planners, and land managers will know how to promote adoption of selected management practices. Implementation of the management plan will likely require a long-term effort supported by the IRWP Board of Directors.

The recommended stakeholder involvement process incorporates a phased approach for plan development, described in the scope of work. Phase 1 will produce a clear vision to guide the remainder of plan development and establish a quality-assured technical approach to support the plan. Two additional phases would then follow. Phase 2 would include development of assessment tools (e.g., watershed models, ecological thresholds, prioritization and cost evaluation methods) and detailed characterization and prioritization of management needs. Phase 3 would involve development and evaluation of management options, selection of preferred alternatives, and documentation of the management plan and implementation strategy. Each succeeding phase is built upon the strong scientific

foundation and stakeholder supported results of the preceding phase, increasing the likelihood of generating a management framework that will be supported and implemented successfully.

Given the importance of involving a wide range of technical, policy, and other stakeholders in management plan development, Tetra Tech proposes a stakeholder involvement process that is interwoven at all levels with the technical, scientific, economic, social, and other analyses related to developing the watershed management plan. While the stakeholder process will provide a foundation for the management planning process, the stakeholder process should also support implementation of the management plan. The sections below summarize the various stakeholder groups and how they will be involved in this process.

## **Types of Stakeholders Involved in Watershed Plan Development**

Tetra Tech has identified several types of stakeholder groups that will be involved in development of the watershed management plan. These groups differ somewhat in their composition and function, but all will be charged with supporting development and implementation of the plan through involvement in the analyses of current/future conditions and possible strategies for addressing water quality challenges. Below are listed the formal stakeholder groups that will be convened to support the management effort.

### *Technical Review Panel (TRP)*

The TRP consists of scientists, engineers, and managers from state and federal agencies, the University of Arkansas, and other regionally recognized scientists from the private sector. This group was formed by the IRWP to provide scientific and technical input and guidance for watershed issues. The TRP is initially comprised of 10 water quality experts in addition to IRWP board chairs from the Technical and Program and Planning committees. TRP members may draw on other internal members of their organization for additional expertise.

The TRP is not a decision-making body; rather it provides technical information and support to the Tetra Tech project team. The TRP will advise Tetra Tech on technical matters of concern and provide input on Tetra Tech's technical assessments and management recommendations based on the TRP's expertise and experience with watershed-specific issues. Tetra Tech will primarily communicate with the TRP through email, technical memoranda, and conference calls. When Tetra Tech's assessment or recommendations differ from the consensus of the TRP, Tetra Tech will report the differences to the IRWP.

### *Watershed Advisory Group (WAG)*

The WAG consists of six members, designated by IRWP, who have project management experience and natural resources knowledge. This group was formed to provide input and advice throughout the watershed plan development process. Roles and responsibilities of the WAG will include review of draft reports and documents, data gathering assistance, recommendations for planning and management strategies. IRWP and Tetra Tech will primarily communicate with the WAG through phone and email. Like the TRP, the WAG will not be a decision-making body. The IRWP Director will be the primary point of contact with the WAG and will provide Tetra Tech with compiled comments from both the WAG and IRWP representatives during document review.

### *IRWP Board of Directors*

The IRWP Board of Directors is the decision-making body of the IRWP. The Board members were selected by IRWP to represent diverse stakeholder interests and include three members in each of the following categories: Agriculture, Business, Construction, Government, Conservation, and Education (both technical and research-oriented). The IRWP Board also includes at-large members to represent additional stakeholder interests. Since the IRWP Board represents broader, more diverse stakeholder interests than the WAG, Tetra Tech recommends that the IRWP Board function as the decision-making body for the Watershed Management Plan, the role originally described for the WAG in the scope of

work. Following the initial stakeholder interviews, the IRWP Director and Tetra Tech will identify any gaps in stakeholder representation and recommend additional members, as appropriate, for the purposes of this project.

The IRWP Board will review analyses, studies, and other information supplied by Tetra Tech, assist in the development of regional watershed policy goals, and help to guide the development and implementation of the watershed management plan. Tetra Tech will coordinate IRWP Board and TRP activities with the WAG and the IRWP Director, such as scheduling meetings, developing presentation materials, maintaining records, and guiding development of the management plan.

### *Interest Groups*

Tetra Tech has proposed the creation of up to six interest groups that will provide input on goals and objectives and assist in reviewing assessment data and management options. Initial project scoping and stakeholder interviews conducted under Task 1 will provide guidance on identifying key stakeholders to include in the interest groups. Stakeholder categories identified for possible interest group development include:

<u>Stakeholder Category</u>	<u>Stakeholder Group</u>
Elected Officials	Small Town Mayors Large Town Mayors City Councils County Judges Quorum Courts Conservation District Boards Water Boards and Commissions
Professional Policy Practitioners	City/County Staffs: Stormwater City/County Staffs: Sewage Treatment City/County Staffs: Planning City/County Staffs: Transportation City/County Staffs: Soil and Water Conservation Environmental Nongovernmental Programs Water Utilities Developer Groups Educational Community Forestry Commission Farm Bureau
General Community	Poultry Farmers Poultry Industry Large Livestock (Cattle and Horse) Farmers Row Crop Farmers Environmental or Natural Resource Advocates Property Advocates Recreation Landowners Small Business Large Business/Industry Excavation Contractors

The interest groups will review assessment and management information and offer perspectives on how their constituencies might use the information to support the watershed management plan. It is expected

that some of this work will be conducted via email and conference calls, with at least one face-to-face meeting.

#### *Other Stakeholders*

It will be necessary to provide information to others interested in the watershed management plan, such as the news media, issue-oriented individuals, and the general public. Tetra Tech will assist the IRWP Director in providing information to the media for dissemination to these and other constituencies that might not be represented fully on the technical, policy, or focus groups. At this time, one public meeting is planned during Phase 1 following the first IRWP Board meeting. This meeting will include presentation of the scoping results and public review and input on the preliminary goals and objectives. Additional public meetings may be needed to present information and solicit input during watershed plan development – opportunities for public meetings will be identified as the process unfolds, based on public awareness, interest, and available resources. Tetra Tech will make recommendations regarding these issues to the IRWP Director, who will have decision-making authority on releasing information, convening public and other meetings, and generally managing the project.

### **Logistics of Stakeholder Meetings and Actions**

The stakeholder groups vary somewhat in their status as “formal” decision-making bodies. The least formal are the interest groups, which will be convened once (or perhaps twice, in some instances) to provide in-depth review of how various sectors affect or can affect water quality, and how recommendations regarding their involvement might be viewed and shaped. Membership on the interest groups will be by invitation, but walk-ins at the meetings will be welcome – i.e., they will be allowed to fully participate in the discussions and decisions. The Technical Review Panel and the Watershed Advisory Group are also less formal: the IRWP Board will be making policy recommendations regarding the watershed management plan, and is the most formal of the various stakeholder groups.

Tetra Tech staff will facilitate most meetings of the stakeholder groups. In some cases, the TRP, WAG, IRWP Board, or interest groups may meet without a facilitator from Tetra Tech to discuss a specific issue. However, when decisions are to be made, the preference is to have a Tetra Tech facilitator or designated representative from IRWP chairing the meeting, to ensure that discussions and actions are properly coordinated and documented.

Facilitation services will include agenda planning, development of PowerPoint presentations and talking points, preparation of meeting handouts and displays, solicitation of input from stakeholders, and mediation of issues. Meeting agendas will be set to guide the IRWP Board through the process including input on key policy decisions. Following meetings, services will include preparation of meeting summaries, and input and resources as needed to help the IRWP in working with the media and others to ensure accurate information is presented to the public.

#### *Technical Review Panel Protocols*

The Technical Review Panel group members will be contacted and engaged regarding technical, scientific, and/or analytical issues on a regular basis, individually or in small groups, as appropriate to specific topics concerning the watershed management effort. TRP members will be contacted by the Tetra Tech project team as needed to support technical evaluations throughout the planning process.

Communication will largely be accomplished by phone and email correspondence. Teleconferences will be arranged for members to participate in conversations that involve multiple disciplinary input or support. If a TRP member would like to designate an alternate or additional member, the TRP member should notify IRWP and Tetra Tech and provide the alternate or additional member’s affiliation and contact information in advance of any conference calls or meetings. General ground rules for TRP members include:

- Treat each other and the organizations represented with respect at all times
- Put personal differences aside in the interest of developing an accurate and scientifically defensible watershed assessment.
- Work as team players and share all relevant information.
- Encourage candid, frank, open, and honest discussions. Ask if you do not understand.
- Offer mutually beneficial solutions. Actively strive to see the other's point of view.
- Follow through on commitments.
- Encourage open-mindedness and creative thinking.
- Agree that it is okay to disagree, and disagree without being disagreeable.
- Make every attempt to respond to requests for involvement.

#### *IRWP Board Meeting Protocols*

The IRWP Board protocols are a bit more formal, since the Board will be charged with making specific recommendations regarding the watershed management plan to be developed under this project. The protocols stated herein apply to IRWP Board meetings concerning the Upper Illinois River Watershed Management Plan; these protocols are not intended to supersede bylaws previously established by the IRWP Board. If the watershed planning protocols differ from the existing IRWP Board bylaws, the Board should follow its previously established bylaws.

IRWP Board members will be key resources in the development and implementation of the *Draft Upper Illinois River Watershed Management Plan*. The IRWP Board will provide input to Tetra Tech throughout development of the management plan. The Draft Plan will be presented to the IRWP Board, as well as elected officials of jurisdictions in the Upper Illinois River Watershed for consideration of their adoption. It will also be presented to other bodies critical to the implementation of the plan. The target deadline for development of the Draft Plan is within 20 months, depending on the time needed to develop modeling/assessment tools and to evaluate management options. The IRWP Board will make the final decision in adopting the Upper Illinois River Watershed Management Plan.

Meetings: During Phase 1, approximately two IRWP Board watershed plan meetings will be held. Additional IRWP Board meetings will be held during Phase 2 and 3 of the plan development, coinciding with key milestones in the planning process. Key milestones and meeting topics are expected to include:

- Review of Scoping Report Results and Initial Discussion of Goals and Objectives
- Review and Ranking of Revised Goals and Objectives. Review of Proposed Models and Assessment for Phases 2 and 3
- Review of Baseline Analysis Results
- Discussion of Targets for Selected Indicators
- Adoption of Management Targets for Selected Indicators
- Identification of Most Promising Management Alternatives
- Determination of Preferences in Light of Management Scenario Evaluation
- Recommendations for the Watershed Management Plan

It is extremely important that the IRWP Board members attend all meetings. If an IRWP Board member is not present at a meeting, he or she forfeits the opportunity to have input on any decision made at that meeting. The IRWP Board will make decisions according to adopted bylaws. When votes are taken, a decision will be reached when a simple majority of those present vote in the affirmative for a proposal. Once a decision is reached, the matter will not be revisited unless approved by the IRWP Director and Board. Tetra Tech will work with the IRWP Director in organizing meetings or conference calls of the IRWP Board and summarizing the meeting results.

Observers will be allowed at IRWP Board meetings, so that interested parties are oriented to the project and issues in a similar manner. As the overall process unfolds, it will be vital to provide a consistent message regarding past assessment studies and the range of practices that may be needed to protect and/or improve water quality in the basin. As noted, working meetings of the IRWP Board will be open to non-IRWP Board members interested in observing and participating in the discussions. Decisions will be made by the designated IRWP Board members, however, to ensure an orderly and consistent process.

IRWP Board members are expected to communicate with their constituencies, some of whom will likely be represented by the various special interest groups, and provide input to them and the IRWP Board regarding key project issues, management actions needed, and so on. Proxies at IRWP Board meetings will be allowed occasionally if the invited members cannot attend a meeting. The IRWP Director will select each proxy from a list of the various constituencies, with input from the IRWP Board member needing a proxy.

## **Roles of Stakeholder Groups in the Key Project Tasks**

Tetra Tech will develop the baseline assessment and management plan with input from a variety of technical and other stakeholders. Stakeholder roles will evolve as the project moves from the initial Scoping phase to the Management Plan Development phase. Summarized below are the roles of the three stakeholder groups during these project phases, which together focus on assessing current conditions, projecting future trends, identifying key water quality challenges, selecting appropriate management practices, and implementing these practices as outlined in the overall management plan.

### *Phase 1 – Program Scoping*

The purpose of program scoping is to set the stage for a focused and effective management plan development phase. Scoping involves developing a collective understanding of land use and management, stakeholder concerns, existing watershed conditions, potential future conditions, key threats to water quality, and the expected effectiveness of existing management measures. This information provides the basis for establishing goals and objectives for the watershed management plan, and the appropriate assessment process to support the plan development.

Tetra Tech staff have been interacting with various members of the TRP from the project onset to collect watershed assessments, monitoring data, and other studies. A fairly wide net has been cast in soliciting this information, due to the benefits of building a comprehensive knowledge base regarding water quality, the condition of landscape drainage features, land use/cover, and land management practices. Information gathered during the data inventory will be used to develop a baseline analysis and kick off the stakeholder involvement process, i.e., engaging and involving the TRP, IRWP Board, WAG, and special interest group members in reviewing, processing, and evaluating the information.

As noted above, the IRWP Board will first meet during the scoping phase. The IRWP Board's participation in the scoping phase will involve a collaborative learning experience, as technical, policy, and other stakeholders review existing studies, discuss their meaning and context, and develop perspectives on the nature of water resource challenges and possible solutions.

As part of the orientation process for the IRWP Board and special interest groups, Tetra Tech will communicate the Task 1 scoping results. Prior to communicating or meeting with these groups, Tetra

Tetra Tech will coordinate with the IRWP Director and the WAG to review the interpretation of the information and prepare a clear and accurate message. The key points to convey are:

- WHERE ARE WE NOW? What are the current conditions and issues in the watershed?
- WHAT'S EXPECTED FOR THE FUTURE? How are existing conditions expected to change in the future if no additional management actions are taken to protect water quality?
- WHY IS A WATERSHED MANAGEMENT PLAN NEEDED? What is it about existing and predicted future conditions that requires a management plan?
- WHAT SHOULD THE PLAN FOCUS ON? What are the biggest gaps in current management programs to protect water quality?
- HOW WILL WE DEVELOP THE PLAN? What is the proposed approach for developing a management plan that will be publicly supported and implemented successfully?

During the first meeting with the IRWP Board, Tetra Tech will present the scoping assessment results as well as review and discuss preliminary goals and objectives to guide management plan development. Drafting the goals and objectives up front not only helps to guide the plan development, but also sends a clear message to stakeholders that their issues will be addressed in the plan, thereby providing a foundation to resolve conflicts that arise during the plan development process. The scoping results and draft goals and objectives will also be presented at a public meeting and up to six special interest meetings.

At the second meeting with the IRWP Board, Tetra Tech will present revised, ranked goals and objectives, as well as preliminary watershed management indicators for the Board's discussion and action. Also on the agenda will be the proposed watershed modeling tools and methods to use in evaluating and selecting management options in subsequent phases of the project.

#### *Phase 2 – Development of Assessment Tools, Watershed Characterization, and Management Priorities*

Phase 2 will involve the development of assessment tools (e.g., watershed models, ecological thresholds, prioritization and cost evaluation methods), and detailed characterization and prioritization of management needs. Tetra Tech will request input from the TRP throughout this phase. Key results will be presented to the WAG and IRWP Board for their review and input. A scope of work for Phase 2 will be developed by the IRWP and Tetra Tech following the completion of Phase 1; at that time, the role of the IRWP and other stakeholder groups will be specified in more detail.

#### *Phase 3 – Management Plan Development*

The watershed management plan development process will be built upon the foundation established through Phases 1 and 2. The IRWP Board, WAG, and TRP will provide the forums for more in-depth discussions and evaluations of proposed management strategies. However, the plan's success will ultimately depend on the general buy-in from the multitude of watershed property owners, land managers, agricultural producers, construction contractors, and more. Therefore, Tetra Tech recommends incorporating a stakeholder outreach campaign into the process. Keys to the campaign would be:

- Communicating the watershed plan development process up front
- Allowing for inclusion of key stakeholders
- Summarizing results of the baseline analysis (answering why the plan is needed)
- Obtaining input on management options
- Communicating recommended plan provisions

Additional outreach and education will involve preparation of specific information on watershed threats and proposed management strategies, including up to three fact sheets, articles for stakeholder newsletters, and up to four posters/maps for the public, IRWP Board, and other meetings.

Management plan development will begin with Tetra Tech working with stakeholders to identify promising management alternatives to address the existing and future sources of pollution. Existing problems need to be screened for potential pollutant reduction and restoration solutions, and future threats will be evaluated for potential prevention measures. To support the IRWP Board's deliberation of alternatives and to reach out to key groups that will need to implement the plan, Tetra Tech may hold additional informal interest group meetings. Many of these interest group members may have participated in interviews or meetings at the beginning of the project to determine their perceptions and concerns. The purpose of the interest group meetings is to share the findings of the scoping analysis as it relates to a particular group or sector (i.e., holding a meeting with cooperative extension and some farmers to share the current and predicted contribution from agriculture, holding a meeting with developers and contractors to share the current and predicted contribution from development and construction activities, etc.) and to solicit input from each group on what its members consider to be promising solutions or management alternatives. Tetra Tech will use input from the TRP, WAG, IRWP Board, and special interest groups to identify promising management alternatives and management scenarios to model. These group discussions will also be used to develop criteria for evaluating the scenarios.

After the interest group meetings in Phase 3 have been held, the stakeholder process will center on the IRWP Board and development of the Watershed Management Plan. Evaluating management scenarios and selecting the most promising solutions will involve analysis at the site scale and/or the watershed scale. Tetra Tech will work with the IRWP Director, the IRWP Board, and stakeholders as resources allow to evaluate the measures and scenarios for: (1) technical feasibility, (2) environmental protection/restoration benefits, (3) cost and relative cost-effectiveness, and (4) political feasibility. Once the priority management measures have been selected and reviewed by the IRWP Board, Tetra Tech will work with the IRWP Director, IRWP Board, partners, and other stakeholders to weave the results into a Final Project Report including a written Watershed Management Plan. To the extent that resources allow, the Management Plan will outline key roles and responsibilities for implementing the suite of recommended management options. It is anticipated that the work of the IRWP Board in reviewing and discussing the baseline assessment and the management plan will help to lay the groundwork for implementing the management practices recommended in the plan document.

Once the draft plan has been developed, Tetra Tech will conduct an extensive public outreach process to obtain feedback from those not involved in any of the three designated stakeholder groups. It is envisioned that the members of the IRWP Board will assist in this effort. Outreach will target those groups who participated in previous interviews, special interest groups, and the general public, and include news media releases and other information. Not everyone will be interested in reviewing the full Watershed Management Report. Therefore, it will be important to communicate key elements of the plan in a simple, easy to understand manner. Tetra Tech will prepare a uniquely designed brochure on the key elements of the watershed management plan that can be distributed at events, government offices, and other locations throughout the counties and their municipalities. Tetra Tech will revise the draft plan based on the public meetings and other input, and will provide a summary of the comments along with a proposed watershed management plan to the IRWP.

Tetra Tech will ensure that the overall process is designed to be consistent with the Section 319 Guidelines for Watershed Plans for Impaired Waters, which include developing an information and education component as one of the required minimum elements. Tetra Tech also intends to consider findings from surveys conducted in northwest Arkansas, and in general to obtain input from a wide range of stakeholders regarding their perceptions, concerns, issues, and willingness to support change in current practices. Tetra Tech will follow up with some of the stakeholder groups, as resources allow, to clarify some of their issues or concerns on an as-needed basis.

## General Principles for Stakeholder Involvement

Tetra Tech intends for the stakeholder involvement process to be useful, and result in a watershed management plan that will protect and improve water quality, is supported by local residents, and is implementable. The following principles will help to guide the stakeholder involvement process, including the IRWP Board and special interest groups.

- All stakeholders should feel that they were adequately represented.
- Stakeholders should be involved early enough in the process to affect decision-making.
- Stakeholder's opinions should be valued by and used in the decision-making process.
- The tasks expected of the stakeholders should be clearly presented.
- Stakeholder time and resources should be used efficiently and effectively.
- Information should be provided to stakeholders in a timely manner.
- Information should flow freely between scientists, program managers, and lay persons.
- Science and technology should inform the deliberation by the stakeholders.
- Stakeholders should be able to request additional scientific analysis.
- The decision-making process should be transparent (i.e., clear to the stakeholders).
- Emergent issues or questions should be allowed to develop and mature.
- The outcomes of the process should be viewed as effective.
- A feedback loop should allow stakeholders to evaluate and revise policy recommendations.

## Roles in Developing Watershed Management Strategy

