

Arbor Lake Watershed Project

Commissioner Report December 18, 2003

- ☆ Please review and sign the November Month Report.
- ☆ Watershed Management Plan meeting held on December 10 with 9 members of the Arbor Lake Watershed Board present.
We reviewed the Visioning Plan, Project Proposal, Project Progress, Watershed Assessments completed, TMDL, and the Draft Arbor Lake Watershed Management Plan. A handout of the slide presentation is provided.
The group assigned priority to pollution source areas. It was agreed that with the riffle/pools, bank shaping, and seeding the North tributaries will receive major treatment. The next area to receive attention will be the East tributary since it is a next priority area and it receives high visibility. The next meeting will be after the first week in January.
- ☆ The IOWATER Monitoring Team has been meeting to develop a Quality Assurance Project Plan. A nearly complete Draft has been written. After we have a satisfactory Draft, the next step is to contact IOWATER for input and advice. The Plan will then be submitted to IOWATER for approval. The Quality Assurance Project Plan will give creditability to monitoring data and help establish pollution reductions for the TMDL.
- ☆ Results of the Fertilizer Plot Runoff Monitoring are attached to the November month report. Mostly it shows a wide variation with a trend toward decreasing nutrient level in the rain water runoff from the plots. Probably due to low rain fall amounts and decreasing nutrient levels over time between fertilizer applications.
- ☆ Upcoming Activities:
- ☆ Contractors' Meeting January 14 – presentation Urban Construction: Erosion control
Public forum schedule will be put together soon. Ideas include:
 - Lawn Chemical Problems – Kamyar Enshayan UNI
 - Urban Geese – Greg Harris IDNR
 - Using Compost – Floyd Pelkey and Stacie Johnson Bluestem
 - Rain Water Runoff – Iowa Watershed UContinue with the Arbor Lake Watershed Management Plan
Continue with the Arbor Lake IOWATER Quality Assurance Plan

October 2003 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek SWCD

Reporting Period: 1 October – 31 October 2003

Date Prepared: November 20, 2003

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature: 

Monthly Narrative

Arbor Lake Watershed Project

Reporting Period – 1 October, 31 October, 2003

Activities

- 14E ± Met with Clair Hruby's students to sample Arbor Lake tributaries. There were four students in the class. They were to develop a question and do research to answer it. Their question was: "Is the water quality that is leaving Arbor Lake the same as that entering through the tributaries?" they sampled at three location; north of the lake just below the confluence of the NE and NW tributaries, the tributary entering the east leg of the lake just upstream from the walk path berm, and the spillway as water leaves the lake. The students did all the sampling but were accompanied and assisted by the project coordinator and two IOWATER monitors from the Arbor Lake Team. The students used IOWTER protocols for Standing Waters.
- W ± A meeting with Ubbo Agena (IDNR), Russ Behrens and Jan Andersen (City of Grinnell), Liz Queathem and Ted Clausen (Arbor Lake Watershed Committee) and the project coordinator took place to discuss redistribution of practice funds to cover 75% cost share for the riffle/pool project in the two North tributaries to Arbor Lake It was approved by Mr. Agena to request moving \$2,375 from the wetland line item allocation to the riffle/pool line item allocation. A letter was written requesting this and sent to Jim Gillespie (Division of Soil conservation).
- 14E ± Completed 3 Rain Water Audits; 1 Soil Nutrient test was sent to the Soil Testing Lab in Ames, and 1 Soil Quality test. Reports were sent to landowners for the Rain water Audits and Soil Quality tests.
- A ± Completed the Project's Annul Report. It was sent to the Commissioners for review before their regular meeting. At their regular meeting, October 16 (four commissioners were present) they approved the report with suggestion changes and additions. These were made and the report was sent to the Division of Soil Conservation on October 21.
- 14E ± Attended the Farmer's Market on October 2, 9, and 16. The last market day for the season was October 16. On that day Liz Queathem from the Arbor lake Watershed Committee, drew for the three prizes donated to entice interest in the Lake Smart Program. We had 22 names in the drawing. Requirement for registration was to inquire about the Lake Smart program and be told about it one-on-one. The only promotion for the drawing was through the Farmer's Market. This tested the effectiveness of our attendance. We felt our time was justified and plan to attend the market days again next year. There was no cost to attend.
- 14E ± The IDNR sampled the two north tributaries where the riffle/pools will be installed. The project coordinator had been informed of the pending sampling date and time and alerted the IOWATER monitoring team. One member was present for the macroinvertebrate sampling. IDNR completed all physical, chemical, and biological sampling for the two streams. Results will be available this winter.

- W
- ‡ Ted Oswald, NRCS Area engineering technician, was here to familiarize himself with the riffle/pool project and mark locations for the contractor. He was assisted by the project coordinator, the FO District Conservationist, and Technician. City staff was called to locate sanitary sewer lines that may be in the area.
- 14E
- ‡ A meeting of the Arbor Lake IOWATER Monitoring Team was held with 5 members present. The 3 Grinnell College students were on fall break and unable to attend. We set priority sampling locations, mapped sampling locations for each member, and shared data and experiences. We decided that monthly meetings were needed to keep each other up to date and coordinate efforts.
- GIS
- ‡ The Draft Watershed Management Plan was sent to all Commissioners, involved Grinnell City staff, and the Watershed Management Board members. They are asked to review it, note comments, additions, changes, and what they feel is important to complete during the project time frame and directions beyond. A meeting was scheduled for November 19 to complete the draft.
- W
- ‡ A pre-construction meeting was held for the riffle/pool project. Present were the project coordinator, Ted Oswald (NRCS), Loren Dostal (contractor), and Russ Behrens and Jan Andersen (City of Grinnell). *Location of utilities was also discussed at this time.*
- 14E Dred
- ‡ Pictures were taken of the riffle/pool locations before construction starts.
- 14E
- ‡ Two IOWATER monitors working together called my attention to the stream directly below the Arbor Lake berm. It is very orange in color. After investigation, it is thought that the orange is rust from the drain pipe in the berm. Further investigation will be done. Monitoring results were not unusual.

Riffle/Pool Placement Locations



NW tributary north of bridge



NE tributary in wooded area



NW tributary south of bridge



NE tributary north of wooded area

utional
award

stitutional Law
ary as Civic Edu-

e Law and Courts
can Political Sci-
which was an
l meeting of the
ay, Aug. 29, in
he best book on
n by a political
d in the previous

k acknowledged
ordinary," said
e the award as a
ess in contribut-
fort by my peers
of the complexi-
he study of law

er asks scholars
tional jurispru-
ently about the
erpretation. His

ued on page 7

CO,
e

leading manu-
and doors, has
ng of its Grin-
Iowa, to JELD-
d of the Wenco
WEN Window

e supports the
tional branding
27 window and
America under
D-WEN." The
s and signage
Sept. 15.

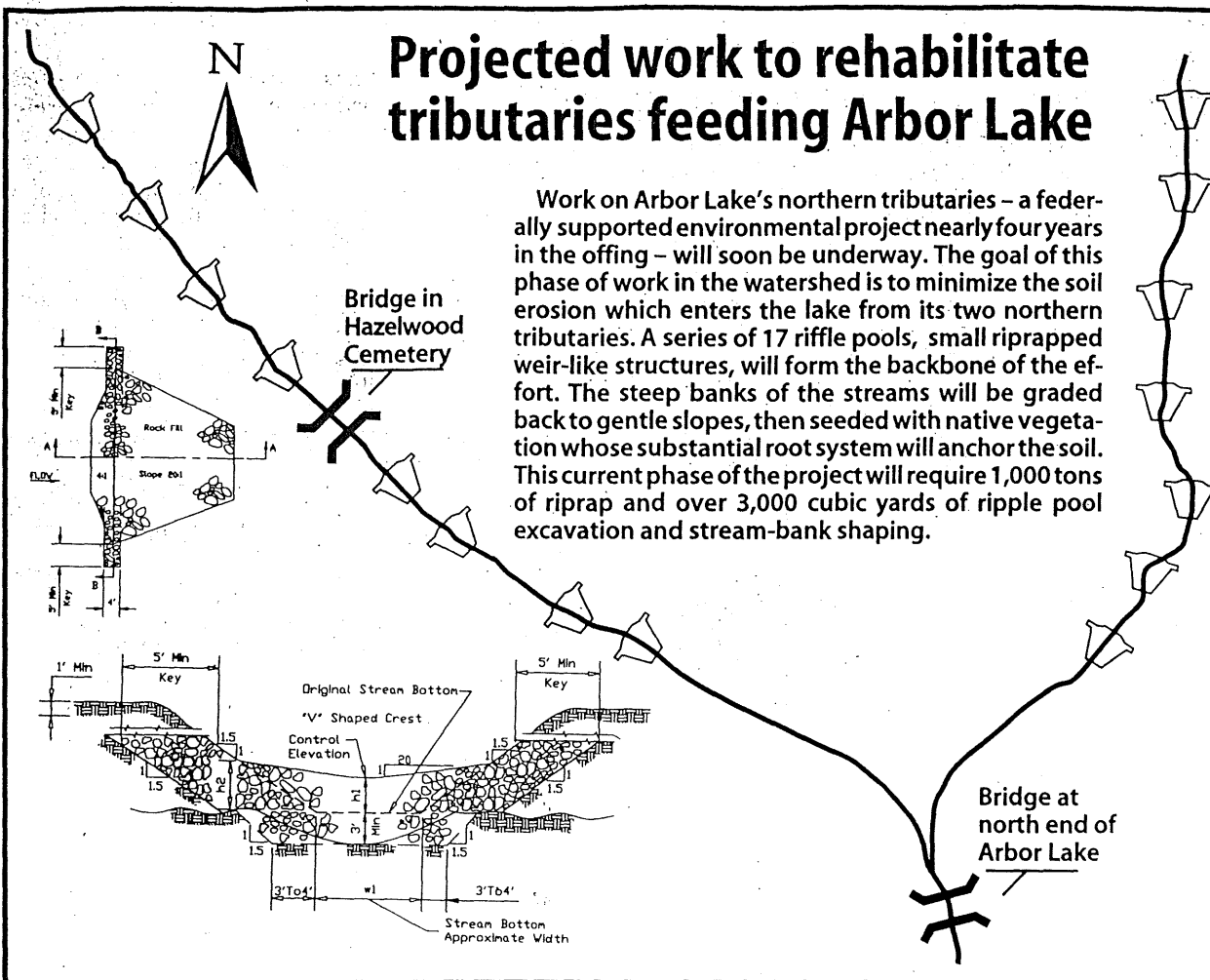
ne change will
ship with em-
y and consum-
t general man-
n. "It's impor-
not changing
act line or our

ipated changes
cedures, em-
yee benefits as
change, though
at some change.
ter brand name
se demand for
ntzinger.

decades of sen-
e Wenco and

Projected work to rehabilitate tributaries feeding Arbor Lake

Work on Arbor Lake's northern tributaries – a federally supported environmental project nearly four years in the offing – will soon be underway. The goal of this phase of work in the watershed is to minimize the soil erosion which enters the lake from its two northern tributaries. A series of 17 riffle pools, small riprapped weir-like structures, will form the backbone of the effort. The steep banks of the streams will be graded back to gentle slopes, then seeded with native vegetation whose substantial root system will anchor the soil. This current phase of the project will require 1,000 tons of riprap and over 3,000 cubic yards of ripple pool excavation and stream-bank shaping.



Rehab work begins; riffle pools will be added to streams feeding Arbor Lake

With the awarding of a construction contract to Dostal Construction of Toledo on Monday, the City Council is embarking on major mitigation efforts on the northern tributaries of Arbor Lake.

Specifically, Dostal Construction will be installing 17 riffle pools on two tributaries between the lake and First Ave. The project also includes grading the stream banks, flattening them down in preparation for plantings of native grasses and vegetation which will follow.

The overall goal of the project is to

cut down on particulate matter entering the lake, specifically by soil erosion along those tributaries.

The riffle pools will slow the water's flow through the stream beds, and the substantial root systems of the native plantings will anchor the flattened streambanks.

The eastern tributary runs almost directly north from the lake, flowing along the backs of residential properties on Center St. The western of the two tributaries is the one which runs north and west through Hazelwood Cemetery.

Weather-willing, Wastewater Superintendent Jan Anderson expects the work to be done by Nov. 15.

He told the council that Dostal's bid of \$43,165 was below the engineer's estimate of \$44,700, and that "the contractor has actually worked for the city on numerous other projects and is very well qualified."

The work, funded in large part by the federal Environmental Protection Agency, is a first step in embracing

ARBOR LAKE –

continued on page 7

Engineer search, comprehensive plan, budget move toward goals

Awarding a construction contract for the long-anticipated work on Arbor Lake's northern tributaries was the major action taken at Monday's city council meeting (see separate story), but several other long-term projects

A quick glance at such projects in Grinnell's future include probable significant developments in the water system, the overhauling of the streets in the Central Business District, and anticipated improvements at Grinnell

tation to the committee stating their case. "Growing out of that meeting will be a recommendation for a firm," she said.

The Planning Committee reported that, after many long meetings, it has

The Grinnell Herald Register

September 18, 2003

Thursday

nated to help "the worthy poor" in the community.

"Our outreach is helping a lot more people, and the work of those three

Arbor Lake —

continued from page 1

management practices which will improve the health of the lake and its watershed. The project was created in response to a federal designation of the Grinnell lake as "impaired."

Developed by Imagine Grinnell, the project and its many partners are now being coordinated by Judie Krebsbach, out of the Poweshiek County Soil and Water Conservation District.

This current phase of the project will take over 1,000 tons of riprap and over 3,000 cubic yards of ripple pool excavation and stream-bank shaping.

Anderson told the council that in addition to being the low bid, Dostal would be removing the dirt completely from the watershed — an added savings for the project. The original engineer's estimate assumed that the contractor would leave the dirt, which would leave its removal as an additional expense.

"So we're not only getting the banks shaped, but the excess dirt is going to be removed from the watershed all for less than what the engineer had estimated for leaving it all within a few yards of the watershed," said Anderson regarding this "extra piece of good news."

Physical mitigation measures are also on the drawing board for the eastern tributary, between the lake and Hwy. 146.

Nutrient loading of the water, another of the problems plaguing Arbor Lake, cannot be addressed within the watershed itself.

Since 70 percent of Arbor Lake's watershed is urban, water management practices on all residential, commercial, industrial and institutional properties in roughly the southwestern half of the city influence — for better or worse — the health of the lake.

been addressed in the recent enforcement surge.

White also reported on a meeting with Chris Kaiser, who is now running Midwest Ambulance, saying Kaiser had "lots of enthusiasm and lots of ideas. I think he will help our ambulance service... He seemed like he was ready for the cause."

Midwest is in the process of acquiring a new ambulance and also remodeling the ambulance barn.

In other business, the council approved a resolution accepting and approving the 2003 Road Use Tax Report, and another approving a City of Grinnell Community Development Block Grant owner-occupied housing rehabilitation contract for 300 Park St.

New ITM exec on the move

The council also greeted John Swanson, now the executive director of the Iowa Transportation Museum (ITM). He told them he had been on the job for around two weeks "and am really enthused about what I see here in terms of what we've got."

The ITM has completed its acquisition of the old Spaulding Buggy Works, and is now working on agreements with various current tenants to assist in their relocation.

Next steps include stabilization of the buildings, a process Swanson told the council "will roll right into a master

strangers

stop

and

give

you

money.

Call 236-3113

To Advertise

in Your Local

NEWSpaper

you are invited to an open house (September 28th, from p.m. at the Mayflower at 616 Broad St. The guided tours of the Buckley Dining Room. The tour will include and existing Harwood Town Homes a remodeled apartment Assisted Living, Care Apartments Medicare Certified Center will be a view. End your autumn refreshment enjoying Grinnell harpist Jeannie. Come and expect flavor of retirement the Mayflower Home we have provided lifestyle for over

Contact Ted Mokras at 641-236-6151

MAYFLOWER Home

616 Broad Street

Meet some of the Iowa

\$7,274,965 PAID

SCRATCH WINNERS

Amount	Winner	Retailer	Location
A Grand Time (Pull-tab)	Dwight Harper	Hy-Vee #1241	Harlan
Wild Cherries	Betty Tremmel	Hy-Vee #1573	Sheldon
Wild Cherries	Austin W. Hall	Colfax Valley Travel Ctr.	Colfax
7-11-21	Lois Fitzberald	Fareway #508	Fort Dodge
7-11-21	Harold Fuller	Fastway	Fort Dodge
Diamond Bingo	Edmund D. Jackson	Eddys 2713	Council Bluffs
Diamond Bingo	Doris J. Miller	Rusk Food & Fuel	Afton
Diamond Bingo	Janelle Brock	Wine & Spirits	Washington
Diamond Bingo	Linda Reynolds	Kum & Go #545	Rockwell City
Diamond Bingo	Bryan Bennett	Kum & Go #703	Marshalltown
Diamond Bingo	William C. Kelly	Hy-Vee #1615	Sioux City
Diamond Bingo	Jason Ash	Hawkeye Conv. Store	Cedar Rapids
Diamond Bingo	Jackie Imhoff	Ellis Handimart #26	Cedar Rapids
Diamond Bingo	Brandi Landuyt	Shugar's Super Valu	Colfax
Diamond Bingo	Dartene Snyder	Kum & Go #500	Creston
Diamond Bingo	Bonnie Soles	Hy-Vee #1052	Cedar Falls
Diamond Bingo	John J. Dowd	Kum & Go #88	Fort Dodge
Dollar Signs	Jerry L. Fowler	Quick Shop Foods	Fort Dodge
Poker Face	Don Eddy	Holiday Stationstore #44	Mason City
Poker Face	Leasa Bastecki	Blink-In-Stop's	Clinton
Poker Face	Heidi Perrin	Osage Liquor Store	Osage
Poker Face	Jade Good	Wings America	Avoca
All The Marbles	Gary A. Steiber	Kwik Star #823	Waukon

Got prairie roots?

The roots of some prairie plants can grow 15 feet deep. Some people's roots in their land grow even deeper.

Are you a land-owner with deep roots in your land?

Explore 18 ways to



September 22, 2003
Grinnell Herald - Register

Arbor Lake project will require citizen cooperation

Now that the Grinnell City Council has opened bids on the initial phase of an ambitious effort to rehabilitate Arbor Lake, local residents must be thinking about ways they can contribute to the program. More about that later. For now, here's a bit of background:

For some time, Arbor Lake has been on the U.S. Environmental Protection Agency's list of endangered waterways. Anyone who's visited the lake in recent years can't help but notice a thick scum of algae that mars the surface. Once confined to the immediate shoreline, that carpet of green has expanded alarmingly. Although it's largely an illusion, waterfowl seem not to swim so much as to walk on the surface. Fish have suffered. So, certainly, have the aesthetics of what was once a pristine lake that was the site of public swimming. Few would now dare to enter the polluted water. (Of course, silt and natural waste from waterfowl also contribute to the lake's unhealthy condition.)

When local organizers from Imagine Grinnell sought to secure funding to help with a rehabilitation program, the EPA and the state of Iowa became interested largely because Arbor Lake was an oddity of sorts for a small, clean community: It's pollution was due in large measure to urban runoff, not the farm chemicals that so often plague other rural water bodies. Located adjacent to Grinnell's Hazelwood Cemetery, the lake is the recipient of lawn chemicals and other pollutants from the town itself, not Arbor's patch of prairie. So it became clear that, in order to restore the lake to good health, planners would have to come up with some solid engineering plans to address that sort of runoff from the urban watershed.

Well, they've done so. And the first phase, to be undertaken by Dostal Construction, came in under bid estimates at last Monday's City Council meeting. That was good news, and \$43,165 will now be paid to Dostal for the creation of 17 riffle pools. As we reported in our Thursday, Sept. 18, edition, those pools represent a major component of the anti-pollution effort. They'll be developed along two of the lake's tributary streams, and the work also will involve grading the now-steep banks to softer slopes, which in turn will be planted with vegetation whose roots go deep and help stop soil erosion. The riffle pools themselves act as natural filters, reducing the concentration of the chemicals that enter the lake from the watershed. Once the initial phase is completed, attention will focus on a third tributary.

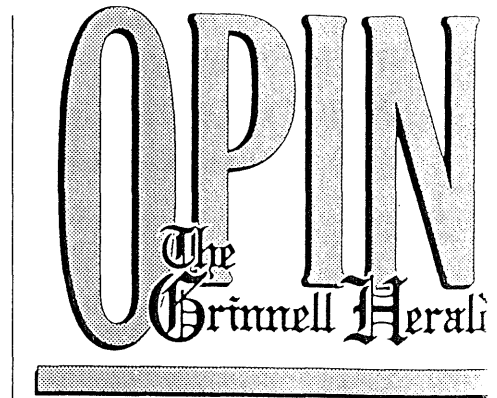
Even when all the riffle pools and stream-bank remediation are complete, though, all Grinnellians will have to do their part to ensure that things don't go downhill again in future decades. Arbor's pollution problems didn't occur over a few short years; it's been a long, gradual process, part natural, part the result of the way a growing community has ignored the problem. We're referring, of course, to the so-called nutrient loading — the nitrogen-containing chemicals that cause the big algae blooms that lay down that sickly green carpet every summer.

Addressing that problem will take some cooperation on the part of local residents, businesses and industries. As part of its overall Arbor Lake effort, for example, Grinnell will have to learn how to cut down on the use of such things as lawn chemicals and the amount of chemical-containing clippings that are washed down storm sewers every time it rains. That educational effort will be a vital component of the rehab project.

The Grinnell area is blessed with all sorts of fine recreation and quality-of-life attractions. A place like Arbor Lake, which at its best can be a superb place for hiking, fishing and picnicking, is a priceless example, and it deserves all the loving care it can get.

We're glad that local, state and federal authorities are working in concert to help rectify the current problems. Citizens must now do their part as well.

An unneeded controversy



After Richard Grasso

The resignation of New York Stock Exchange CEO Richard Grasso was almost inevitable after the disclosure of his colossal pay package. It was a problem for the stock exchange; he was a problem with the governing structure of an enterprise. The failings of the existing enterprise were a pay episode, with a board hand-picked by Grasso, with little interest and apparently clueless about how much it cost.

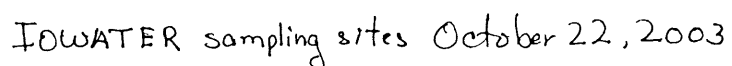
This was not an isolated failing. The 211-year-old exchange was the first line of defense in investor protection. It was asleep on the beat during the stock market crash. Firms overseen by the exchange were writing companies to get, or maintain, their lucrative pay packages. Firms were awarding shares in hot initial public offerings, who then made huge profits not at the expense of the exchange.

So the question is not whether the system is broken. The exchange, which also sets corporate governance rules, has been run more like a government organization. It is now in the process, greatly aided by its own governance practices and has already prohibited exchange officials from sitting on the board of director at two companies), preventing directors from sitting on the compensation committee and removing top officials — the beginning steps of which have been taken.

Much more is required. One promising approach is an overhaul of the current board and its composition. Professor Charles M. Elson, an expert on corporate governance, would be representatives of institutional investors, a role in advocating good governing practices at the companies. The remaining slots would be divided among the exchange, listed companies (which use it to raise money), the public (preferably people with financial and real estate experience), and a group largely composed of those interested in the exchange.

Another possibility is to follow the model of the National Association of Securities Dealers. A group of regulators and business enterprise, the group at the NASDAQ stock exchange, a regulatory body representing the interests of its members. This group would pursue its own clear and unconflicted mission and, if it so chose, to become a publicly traded company.

In a statement issued after Grasso's resignation, Exchange Commission Chairman William L. Donaldson said the S.E.C. leadership "to put an appropriate structure in place."



November 2003 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek SWCD

Reporting Period: 1 November – 30 November 2003

Date Prepared: December 18, 2003

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature: 

Monthly Narrative
Arbor Lake Watershed Project

Reporting Period – 1 November, 30 November, 2003

Activities

14E Registered Arbor Lake boat ramp as an IOWATER monitoring site

12E Completed and sent last Soil Quality report to landowner. This will probably be the last one for this season since the ground is freezing which prohibits collecting and testing soil.

613 Toured the watershed and took photos of locations that have been considered for treatment or could be in the future. The photos will be used for presentations and the Watershed Board planning meeting.

1E Completed delivery and photos of the Farmer's Market drawing winners (Sandy Moffet, Taylor Ferguson, and Deb Bonnerma). These were put into an article and sent to the Grinnell Herald Register.

1E Rain water runoff from the fertilizer trial plots was tested for nitrate, nitrite, pH, phosphorus, and color. This will probably be the last time until spring thaw.

W A heavy rain prohibited the start of the rifle/pool earthwork. Construction will now be delayed until the ground freezes sufficiently to allow access to the area but not hamper construction or until spring. Spring construction may be preferred since it may be difficult to install rock structures in frozen soil. However, spring work is also full of difficulties as we have heavy snow melt or spring rains. Earth work is also subject to weather.

1E Met with Grinnell College Geology students to sample Arbor Lake, its inlet streams, and exit stream. They had sampled last month, but wanted one more set of data for their semester project. I asked them to send me a copy of their report.

1E
Forum I had received the name of Jim Jansen, IDNR wildlife biologist, to contact about urban geese problems/solutions. I learned from Jim that he has a different position in IDNR now but gave me the name and number of Greg Harris who has the position and information now. I will contact him. He may be able to present a public forum addressing solutions to the geese problems at Arbor Lake.

16 An Arbor Lake IOWATER monitoring team met with 5 members present. We reviewed monitoring sites and effectiveness of sampling. One site was dropped and another picked up. We have 8 sites on and around Arbor Lake at present. We also began working on the Quality Assurance Project Plan. This will provide credibility to our data and help us focus our monitoring.

A In mid October, a meeting of the Arbor Lake Watershed Board was scheduled for November 19. The meeting was cancelled on November 17 because of conflicting schedules for several Board members. The meeting was rescheduled for December.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216, Malcom, Iowa 50157, 641-528-2065

November 20, 2003

For immediate release: Winners of Arbor Lake \$mart Drawing

Rain water is a valuable resource to be conserved and protected. It is the source of most of the water in Arbor Lake. We should not allow rain water to become "waste" by running off quickly to carry materials into storm sewers that lead directly to Arbor Lake. It costs you money to water lawns and gardens during drought, to clean debris from streets, plugged storm sewers, and Arbor Lake.

One of the primary objectives of the Arbor Lake Watershed Project is to provide information to the public about individual contributions to Arbor Lake's water quality. The Arbor Lake \$mart Program, adapted from Polk County's Water \$mart program, offers many tips and suggestions for homeowner Best Management Practices that help protect Arbor Lake one backyard at a time. The program helps explain what and how backyard materials pollute Arbor Lake.

Over the last several weeks, Grinnell shoppers visiting the Farmer's Market have had an opportunity to learn about the Lake \$mart Program at the Arbor Lake Watershed Display and register to win products that make Arbor Lake more enjoyable. Deb Bonnema won a 50 lb bag of organic phosphorus free fertilizer (donated by Wayne Petersen, NRCS State Urban Conservationist) to make her lawn green and healthy while not contributing nutrient run-off pollution to Arbor Lake. Taylor Beckwith-Ferguson won a rain barrel (donated by Judie Krebsbach) to collect rain water for watering gardens, houseplants, and other uses, while reducing the amount of rain water that runs directly off his yard as waste into the storm sewers. Sandy Moffet won a remote control boat (donated by Dr. Liz Queathem, a member of the Arbor Lake Watershed Board and Imagine Grinnell Board) to enjoy the improved water quality that results from the use of water quality Best Management Practices. Congratulations to the winners and thanks to all who have inquired about the Arbor Lake \$mart Program.
Sandy Moffet, winner of the Lake \$mart Boat

Please call Judie Krebsbach at the Arbor Lake Watershed Project 528-2065 for an appointment to get started winning improved water quality for Arbor Lake with cost efficient water quality protection that is easy, save you money, and FUN!

The Arbor Lake Watershed Project was developed by Imagine Grinnell and is administered by the Poweshiek Soil & Water Conservation District. Funding is provided in part by the Iowa Department of Agriculture and Land Stewardship-Division of Soil Conservation and by the Iowa Department of Natural Resources under a Federal Non-point Source Management Program (Section 319 of the Clean Water Act). Technical Assistance is provided by the USDA Natural Resources Conservation Service.

The US Department of Agricultural (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political belief, sexual orientation, and marital or family status.



Taylor Beckwith- Ferguson

Rain Barrel



Sandy Moffett

Remote Control Boat

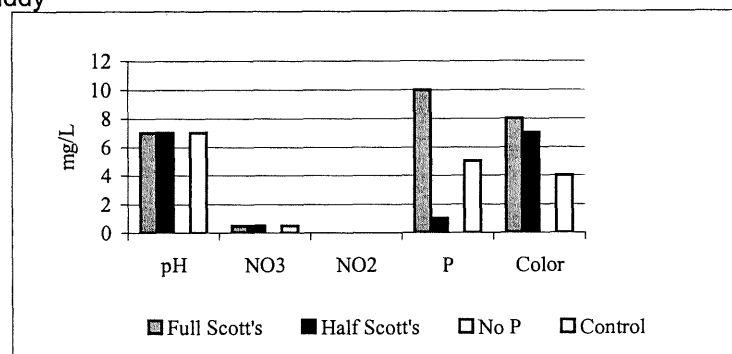
Deb Bonnema (Organic- No phosphorus Fertilizer) was not available for a photo.

Arbor Lake Watershed Project 2003 Grinnell, Iowa
 Fertilizer Demonstration Plot Rain Water Run-off Sampling
 Fertilizer applied on June 26, 2003

Color key
 1 = Clear
 10 = Muddy

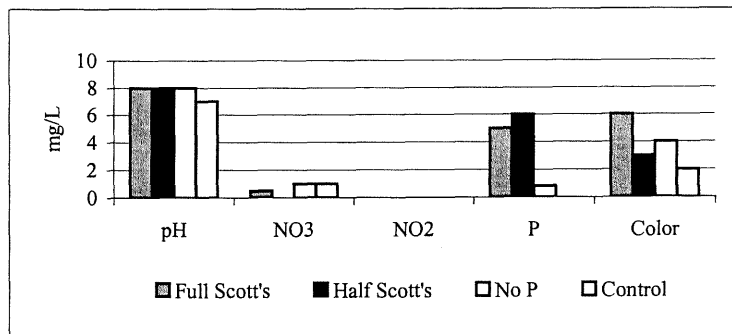
Sampling date: July 9, 2003
 Plot C (close to creek)

	Full Scott's	Half Scott's	No P	Control
pH	7	7	no water	7
NO3	0.5	0.5	no water	0.5
NO2	0	0	no water	0
P	10	1	no water	5
Color	8	7	no water	4
other		bugs		



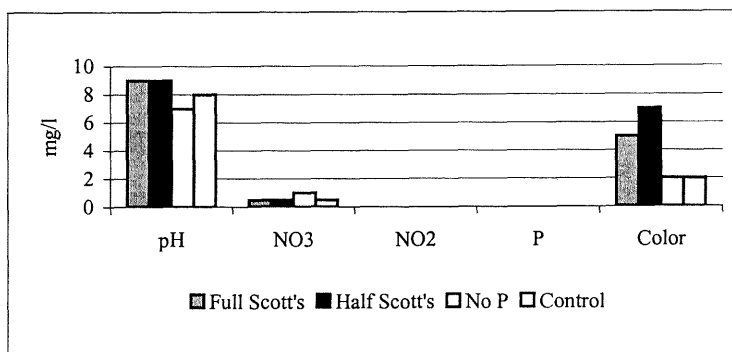
Plot B (by trees)

	Full Scott's	Half Scott's	No P	Control
pH	8	8	8	7
NO3	0.5	0	1	1
NO2	0	0	0	0
P	5	6	0.8	0
Color	6	3	4	2
	bugs & grass	bugs & grass	bugs & grass	



Plot A (Near to road - top of hill)

	Full Scott's	Half Scott's	No P	Control
pH	9	9	7	8
NO3	0.5	0.5	1	0.5
NO2	0	0	0	0
P	0	0	0	no ampoules
Color	5	7	2	2
	hole nearly full of water	hole full of water	hole full of water	hole with some water
grass in these plots is different from all others. It is mat-like & very fine. The soil is muck-like and clay.				

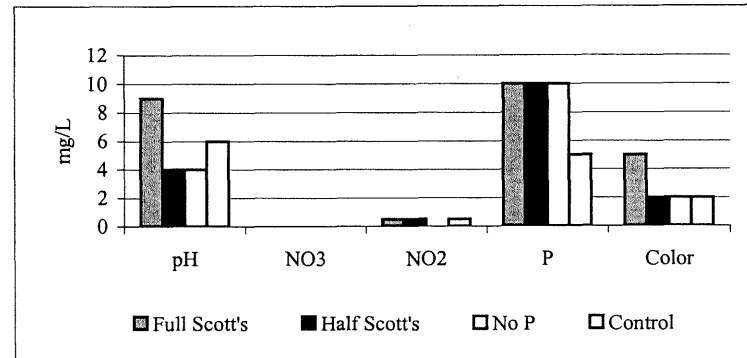


Arbor Lake Watershed Project 2003 Grinnell, Iowa
Fertilizer Demonstration Plot Rain Water Run-off Sampling
Fertilizer applied on June 26, 2003

Color key
1 = Clear
10 = Muddy

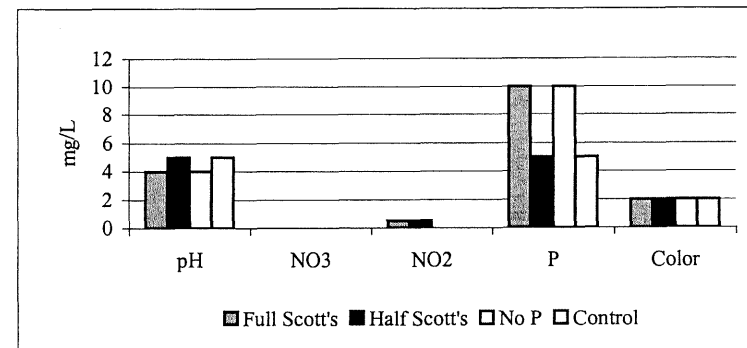
Sampling date: July 15, 2003 (PM) rain the night before
Plot C (close to creek)

	Full Scott's	Half Scott's	No P	Control
pH	9	4	4	6
NO3	0	0	0	0
NO2	0.5	0.5	0	0.5
P	10	10	10	5
Color	5	2	2	2
other	leaves, grass	bugs		



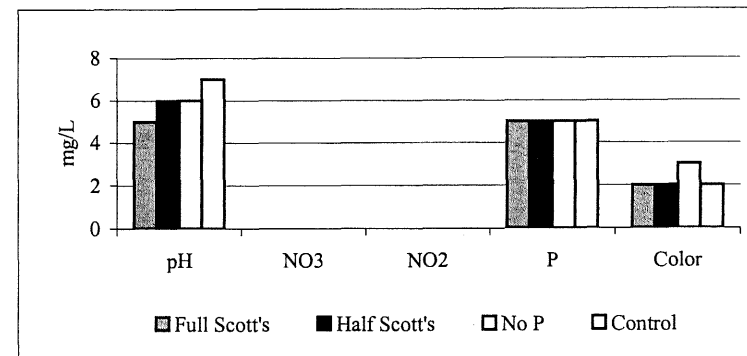
Plot B (by trees)

	Full Scott's	Half Scott's	No P	Control
pH	4	5	4	5
NO3	0	0	0	0
NO2	0.5	0.5	0	0
P	10	5	10	5
Color	2	2	2	2
other	grass	grass	grass, leaves	grass



Plot A (Near to road - top of hill)

	Full Scott's	Half Scott's	No P	Control
pH	5	6	6	7
NO3	0	0	0	0
NO2	0	0	0	0
P	5	5	5	5
Color	2	2	3	2
other		grass	grass	green veg



Arbor Lake Watershed Project 2003 Grinnell, Iowa
Fertilizer Demonstration Plot Rain Water Run-off Sampling
Fertilizer applied on June 26, 2003

Color key
1 = Clear
10 = Muddy

Sampling Date: September 12, 2003 (PM)

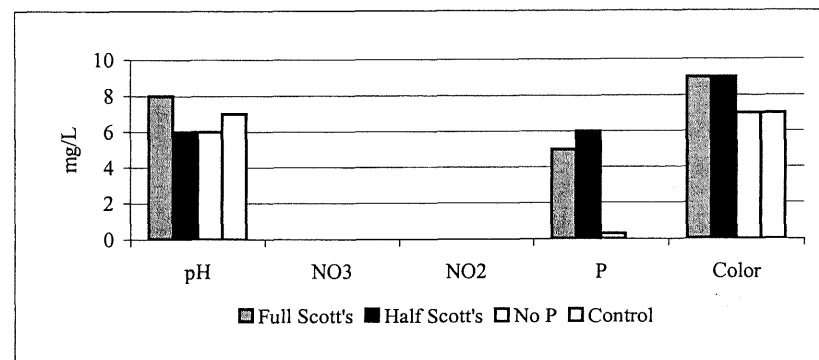
Plot C (close to creek)

	Full Scott's	Half Scott's	No P	Control
pH	These plots were not tested. We ran out of time.			
NO3				
NO2				
P				
Color				
other				

NO CHART

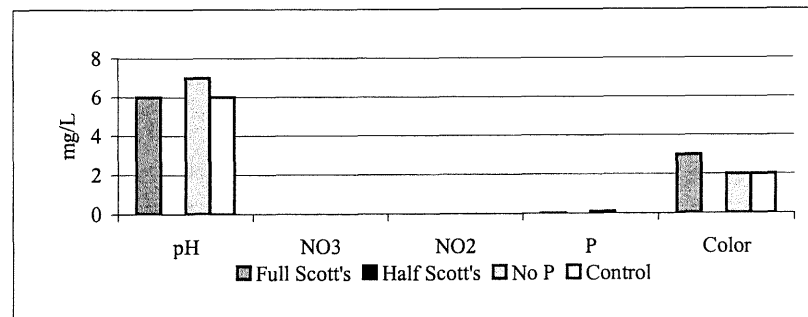
Plot B (by trees)

	Full Scott's	Half Scott's	No P	Control
pH	8	6	6	7
NO3	0	0	0	0
NO2	0	0	0	0
P	5	6	0.3	0
Color	9	9	7	7
	leaf, grass, worm, soil	smelly, bugs	leaf, grass	spider, bug, leaf, grass



Plot A (Near to road - top of hill)

	Full Scott's	Half Scott's	No P	Control
pH	6	no Cup	7	6
NO3	0		0	0
NO2	0		0	0
P	0.01		0.1	none
Color	3		2	2
	grass		debris	grass



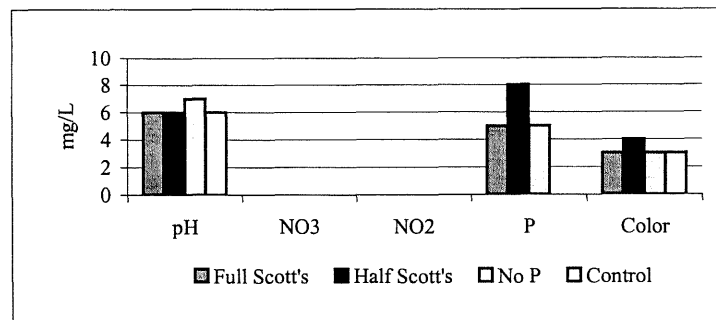
Arbor Lake Watershed Project 2003 Grinnell, Iowa
 Fertilizer Demonstration Plot Rain Water Run-off Sampling
 Fertilizer applied on June 26, 2003
 Sampling Date: September 15, 2003

Color key
 1 = Clear
 10 = Muddy

Sampling Date: September 15

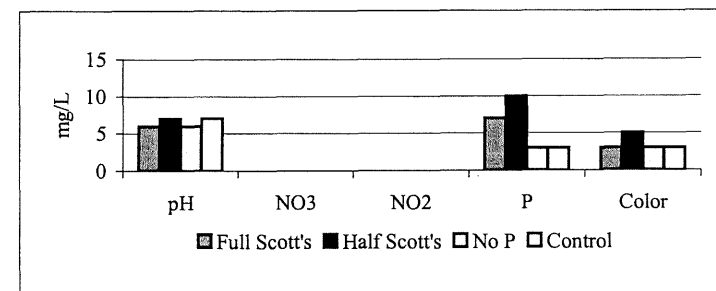
Plot C (close to creek)

	Full Scott's	Half Scott's	No P	Control
pH	6	6	7	6
NO3	0	0	0	0
NO2	0	0	0	0
P	5	8	5	0
Color	3	4	3	3
other				



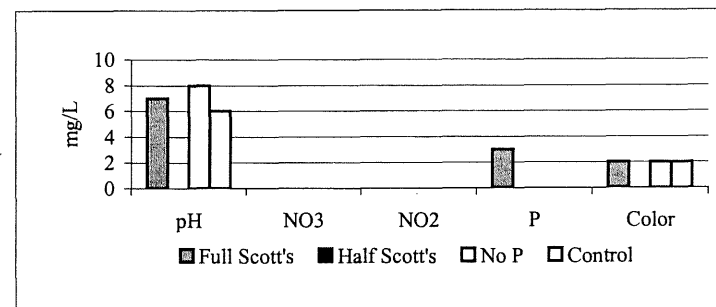
Plot B (by trees)

	Full Scott's	Half Scott's	No P	Control
pH	6	7	6	7
NO3	0	0	0	0
NO2	0	0	0	0
P	7	10	3	3
Color	3	5	3	3
bug			grass	



Plot A (Near to road - top of hill)

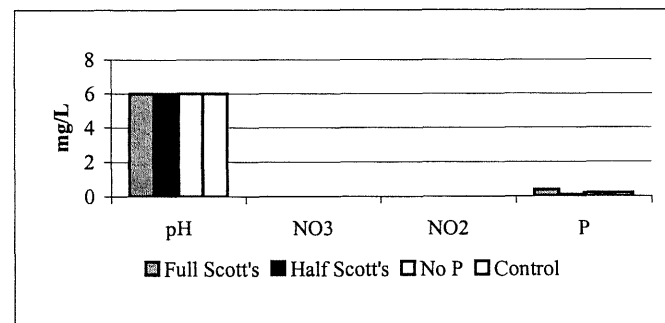
	Full Scott's	Half Scott's	No P	Control
pH	7	not cup	8	6
NO3	0		0	0
NO2	0		0	0
P	3		none	0
Color	2		2	2
bug				bug



Arbor Lake Watershed Project 2003 Grinnell, Iowa
 Fertilizer Demonstration Plot Rain Water Run-off Sampling
 Fertilizer applied on June 26, 2003
 Sampling Date: Nov 7, 2003 (AM)
 Fertilizer was applied October 21, 2003 (PM)

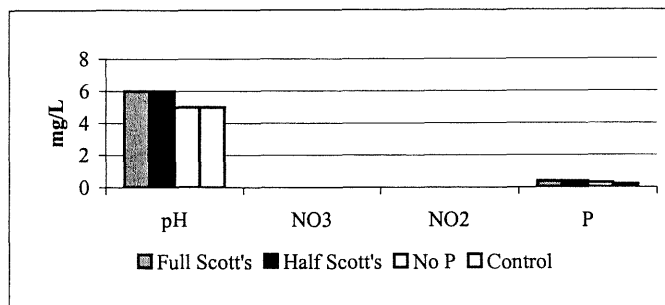
Plot C (close to creek)

	Full Scott's	Half Scott's	No P	Control
pH	6	6	6	6
NO3	0	0	0	0
NO2	0	0	0	0
P	0.4	0.1	0.2	0.2
Color	3	3	3	2
other	ice, green veg	ice, green veg	leaves, ice	ice, leaves



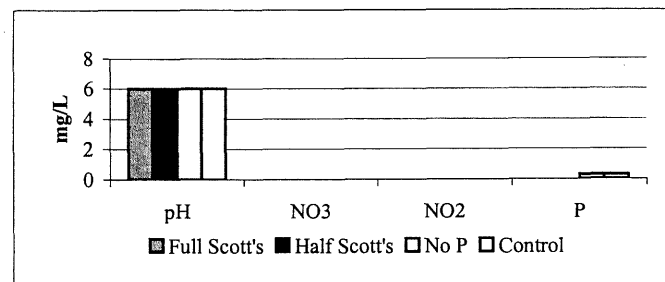
Plot B (by trees)

	Full Scott's	Half Scott's	No P	Control
pH	6	6	5	5
NO3	0	0	0	0
NO2	0	0	0	0
P	0.4	0.4	0.3	0.2
Color	5	5	5	6
	ice, leaves	ice, leaves	ice, leaves	ice, leaves



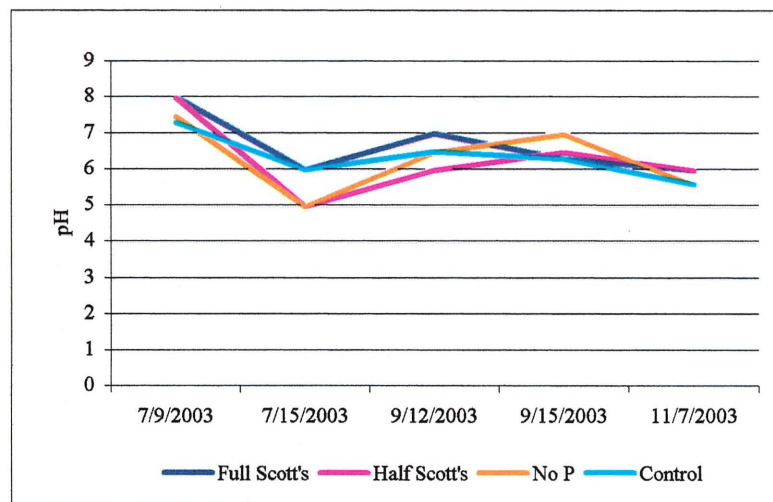
Plot A (Near to road - top of hill)

	Full Scott's	Half Scott's	No P	Control
pH	6	6	6	6
NO3	0	0	0	0
NO2	0	0	0	0
P	0	0	0.3	0.3
Color	6	6	6	6
	ice, leaves	ice, leaves	ice, leaves	ice, leaves



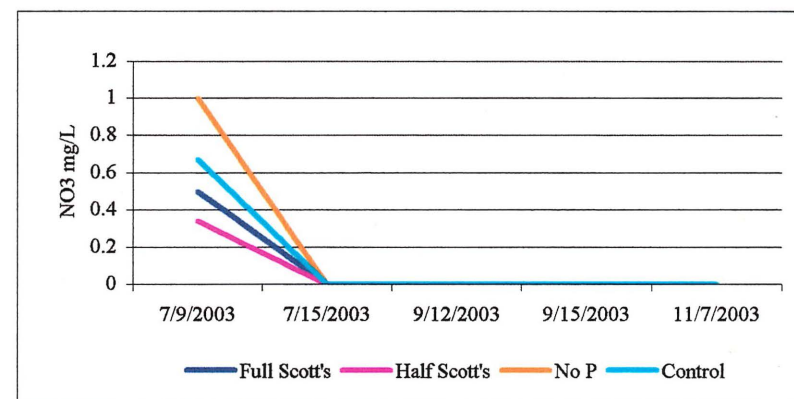
Fertilizer Demonstration Plot Rain Water Run-off Sampling
Fertilizer applied on June 26, 2003
pH values for all plots

	Full Scott's	Half Scott's	No P	Control
7/9/2003	8	8	7.5	7.3
7/15/2003	6	5	5	6
9/12/2003	7	6	6.5	6.5
9/15/2003	6.3	6.5	7	6.3
11/7/2003	6	6	5.6	5.6



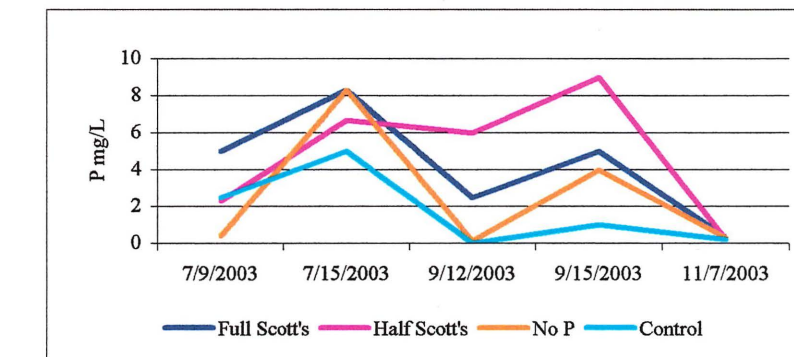
NO₃ mg/L

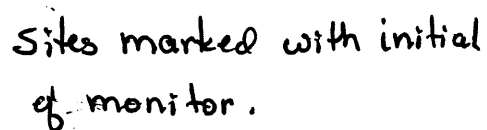
	Full Scott's	Half Scott's	No P	Control
7/9/2003	0.5	0.34	1	0.67
7/15/2003	0	0	0	0
9/12/2003	0	0	0	0
9/15/2003	0	0	0	0
11/7/2003	0	0	0	0



Phosphorus

	Full Scott's	Half Scott's	No P	Control
7/9/2003	5	2.3	0.4	2.5
7/15/2003	8.3	6.7	8.3	5
9/12/2003	2.5	6	0.13	0
9/15/2003	5	9	4	1
11/7/2003	0.3	0.2	0.3	0.2





BUDGET FOR YEAR # 2 FY2004

PROJECT NAME: Arbor Lake Watershed Project

SWCD: Poweshiek

PROJ. NO.: 079-0104

Component	Number, Acres or Other Units	Total Cost	Cost Share Rate	Landowner Cost	Project Cost	319	WPF	WSPF	Other Source	Other Source ID
Salary & Benefits*		\$59,400				\$29,700	\$29,700			
DSC Indirect Costs**		\$6,534				\$6,534				
Travel/Training		\$1,200					\$1,200			
Supplies		\$500				\$500				
Inform./Educ.		\$4,000				\$4,000			\$3,000	Gr & GC
Contractual (DSC)***										
Contractual (SWCD)****										
Equipment										
Other										
Practices:										
Riffle/pools	14	\$40,000	75%	\$10,000	\$30,000	\$30,000				
Wetland Structures	5	\$18,000	75%	\$3,750	\$11,250	\$11,250				
Storm Interceptors	1	\$25,000	75%	\$6,250	\$18,750	\$18,750				
Prairie Planting/Plugs	3 ac	\$14,500	75%	\$3,625	\$10,875	\$10,975				
Totals		\$169,134		\$23,625	\$70,875	\$111,709	\$30,900	\$0	\$3,000	

* Get information to enter from your field representative

** DSC use only

*** DSC directly-administered contract with NRCS or ISU

**** SWCD directly-administered contract - describe in footnote; e.g., water monitoring - Luther College

***** Indicate new practices (not included in previous agreements) with (+)

***** Indicate request for unspent funds recalled from prior year allocation with (rec)

Gr = City of Grinnell

GC = Grinnell College

December 2003 Arbor Lake Watershed Project Month Report

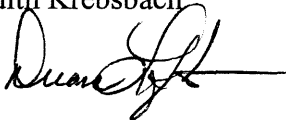
Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 December – 31 December 2003

Date Prepared: January 15, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature: 

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 December, 30 December, 2003

Activities

❖ Contractors' Meeting Planning-

1/E

Each year Jasper and Poweshiek SWCDs host a meeting to update local contractors on programs and new developments, discuss reoccurring problems, and answer questions. This year I will again take the opportunities to present urban construction concerns.

❖ Watershed Board meeting-

A

Nine members of the Arbor Lake Watershed Board attended a planning meeting for Arbor Lake Watershed management. We reviewed the Visioning Plan, Project Proposal, Project Progress, Watershed Assessments completed, TMDL, and the Draft Arbor Lake Watershed Management Plan. A handout of the slide presentation is provided.

G/S

The group assigned priority to pollution source areas. It was agreed that with the riffle/pools, bank shaping, and seeding the North tributaries will receive major treatment. The next area to receive attention will be the East tributary since it is a next priority area and it receives high visibility. The next meeting will be after the first weeks in January.

The management plan will direct Phase II of the Project and the remainder of Phase I.

❖ Walnut Creek Development Grant –

Becky Ohrtman stopped by the office for an update of the Arbor Lake Project progress and to answer questions concerning the Walnut Creek Development Project. Erik Mottl is working on the Project and I have offered assistance as needed. I have some knowledge of the area since I have been doing CRP Status Reviews in the area.

❖ RUSLE2 was loaded on the computer for my use and I have spent a little time learning to use it. Soil loss for the agricultural land in the watershed will need to be re-evaluated with RUSLE2.

- ❖ Topics for Public Forms have been suggested by watershed residents and participants recently. I have contracted some potential speakers but have no commitments yet.

Topics include: Urban Geese – Greg Harris IDNR

Lawn Chemical Use/Abuse – Kamyar Enshayan UNI

Using Compost – Floyd Pelkey and Stacie Johnson Bluestem

Rain Water Runoff – Iowa Watershed U

- ❖ IOWATER Monitoring –

The Arbor Lake IOWATER Monitoring Team Continues to meet each month. We are developing a Quality Assurance Project Plan which is nearing completion of a Draft copy. After we have a satisfactory Draft, the next step is to contact IOWATER for advice and review. The Plan is being written to provide credibility to our data to meet the water quality targets recommended by the TMDL.

Arbor Lake Watershed Plan

Planning Meeting

Purpose for Today

- Review Watershed Visioning Plan
- Review Project Proposal and Accomplishments to Date
- Review TMDL
- Determine Priority Areas
- Outline Information & Education Activities

Visioning Plan

The Visioning Plan is...
A community based urban watershed master plan that promotes the long-term preservation and enhancement of Arbor Lake both environmentally and socially

Visioning Plan

Goals

- Restore historic patterns of hydrology
- Treat water as a vital resource

Visioning Plan

Objectives

- Restore aquatic and terrestrial resources of Arbor Lake
- Reduce stormwater runoff and flooding throughout watershed
- Enhance regional water quality
- Enhance recreation/open space opportunities

Visioning Plan

Objectives (continues)

- Preserve and restore natural habitats within Arbor Lake Park
- Promote sustainable development and land use within watershed
- Facilitate public education and stewardship
- Pilot plan approach that can be replicated in other communities.

Visioning Plan

Action Plan

- Develop land & water restoration plan
- Develop community sustainable planning
- Promote stormwater BMPs
- Promote sustainable agricultural
- Build watershed partnerships
- Develop education/outreach programs
- Develop demonstration project(s)

Visioning Plan

Strategies to Accomplish Action Plan

- Conservation Based Development
- Permanent open spaces
- Minimize impervious surfaces, soil compaction and disturbances
- Minimize need for storm sewers

Visioning Plan

Strategies (continued)

- Manage storm water where it falls
- Utilize NRCS/DSC and other technical services
- Establish and utilize partnerships
- Secure project funding

Watershed Project

Project Objectives:

- Reduce sediment and nutrient delivery to Arbor Lake
- Initiate Information & Education Program

Watershed Project

Activities for Phase I

- Information & Education Program
- Practices Implementation
- Watershed Assessments

Watershed Project

Information and Education Components

- Newsletter
- Public Forums
- Rain Water Audit Service
- Demonstration Field Days

Watershed Project

Information & Education Accomplishments

- Newspaper coverage (17 articles)
- 14 Farmer's Markets
- 60 Attended Forums
- 22 Rain Water Audits
- 13 Participants Individual BMPs

Watershed Project

Practice Installations

- Small Wetlands at storm sewer outlets
- Riffle/pools to stabilize streambeds and banks
- Vegetative buffers along stream corridors and wetlands
- Storm Sewer end-of-pipe pre-treatment devices

Watershed Project

Practice Accomplishments

(scheduled)

- 15 riffle/pool and stream bank shaping
- 2 acres filter strip
- 1 or 2 storm sewer interceptors

(in progress)

- 1 wetlands

Watershed Project

Activities for Phase II

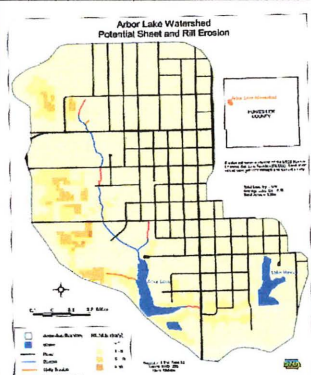
- To Be Determined during Phase I
- Respond to Watershed Assessments
- Correlate with TMDL
- Set the stage for future protection of Arbor Lake water quality

Watershed Project

Watershed Assessments

- Erosion Potential
- Land use
- Storm sewer drainage areas
- Sediment sources and budget
- Phosphorus sources and budget
- Bacteria sources and budget

Assessment Results



[illegible]

Assessments Results

- Storm
Sewer
Outlet
Drainage
Areas

The map displays the Arbor Lake Watershed with various colored lines representing different storm sewer outlet drainage areas. A legend indicates that a line represents a 'Storm sewer outlet'. The map includes labels for 'BRUNELL, IOWA (see road map)' and 'Arbor Lake Watershed Storm Sewer Drainage Areas'.

Assessments

- Sediment Sources
 - Cropland
 - Construction site
 - Sand and debris
 - Correlation between gully/streambank erosion and storm sewer outlet/culvert locations

Assessment - Sediment Budget

Sediment Source	Erosion Rate	Sediment Delivery Rate	Sediment Delivered	Percent of Total
Rill & Sheet Erosion	520 tons/year	35%	185 tons/year	44%
Gully Erosion	52 tons/year	80%	41 tons/year	10%
Streambank Erosion	102 tons/year	95%	97 tons/year	23%
Storm Sewer Outflow	190 tons/year	50%	95 tons/year	23%

Total Estimated Sediment Delivered = 418 tons/year 100%

- Construction sites – 500 to 1,000 T/ac with a delivery rate near 100%

Assessment

Phosphorus Sources

- Waterfowl direct and indirect
- Resuspension by:
 - wave action
 - waterfowl
 - rough fish
 - sediment
 - lawn fertilizer and clippings, debris, pet and wildlife waste

Assessment

Bacteria Sources

- Human septic systems
- Livestock
- Mammals living in storm sewer system
- waterfowl

Assessment

Phosphorus and Bacteria Budget

Difficult to quantify

- Tied to sediment delivery
- Waterfowl populations
- Wildlife populations living in storm sewers
- Pets and livestock delivery rate

TMDL

Arbor Lake Designated Uses

- Primary Contact Recreation (Class A)
"not supported" (1998 IA 305(b) report)
- Aquatic life (Class B(LW)
"fully supported-threatened"
- Also: general uses of secondary contact recreation, domestic uses, and wildlife watering

TMDL

Causes of impairment

- Siltation
- Excess nutrients
- Results in algal blooms, and alteration of physical and chemical characteristics that impair aquatic habitat and aesthetics

TMDL

Landuse

Landuse Type	Acres	% of Watershed	% Impervious	Impervious Acres
Residential	459.6	42	36	165.5
Other Areas (Grass Covered)	200.4	18	0	0
Commercial/Industrial/Public Facility	124.7	12	100	124.7
Cropland	114.8	11	0	0
Roads	70.1	6	100	70.1
Cemetery	46.3	4	5	2.3
Forest	38.4	4	0	0
Railroad	3.1	1	5	0.2
Water	25.7	2	0	0
Totals	1,084.1 acres	100%	33%	362.8

TMDL

Pollution Sources

- Impermeable urban surfaces
- Agricultural cropland
- Historic nutrient load/resuspension
- Waterfowl
- Urban lawn chemicals
- Stream/gully bed and banks

TMDL

- Bacteria – no TMDL developed at this time, but is a problem
- BMPs to reduce sediment and phosphorus delivery will also benefit bacteria level reductions

TMDL (other considerations)

- Lake Nyanza – phosphorus and sediment sink and not of concern at this time
- 33% of the watershed covered by permanent structures or concrete reducing infiltration and increasing surface runoff
- 54% of watershed is commercial or residential
- 80% of surface drainage by storm sewers and urban stream channels which delivery high percentage of pollutants to Arbor Lake

TMDL

- Estimated current delivery rates:
phosphorus delivery = 2,490 lbs/year
sediment delivery = 546 Tons/year
- Target reduction of 56% to:
phosphorus delivery rate = 1,100 lbs/year
sediment delivery rate = 240 Tons/year

TMDL

Goal

The target of the TMDL is **NOT the 56% reduction**, but to reduce phosphorus and sediment delivery to eliminate aesthetically objectionable algal blooms and enable the lake support a diversified aquatic community.

Watershed Management Plan

Recommended BMPs

- Stabilize storm sewer outlets and culverts
- Streambank stabilization
- Sediment Control Basins and Grade Stabilization Structures
- End-of-pipe storm sewer interceptors
- Wetland or retention basins
- Reduce waterfowl habitat
- Construction site protection
- Lake dredging

Watershed Management Plan

Information & Education Program

- Ordinance awareness activities
- Demonstrations
- Newsletter
- Public forums
- Workshops & outdoor classrooms for students

Priority Ratings for Arbor Lake Stream Channels



- Green = low priority
- Red = highest priority
- Orange = moderate priority

Purpose for Today

- Review Watershed Visioning Plan
- Review Project Proposal and Accomplishments to Date
- Review TMDL
- Determine Priority Locations, BMPs, Activities
- Outline Information & Education Activities to Support Water Quality Protection

Arbor Lake Watershed Project

Commissioner Report January 16, 2004

- * Contractors meeting was held yesterday – January 14 – I gave a brief presentation about erosion control on construction sites. Handouts with similar information were left with participants and also on the handout table at the One-Call meeting.
- * The Arbor Lake Watershed Board will meet on January 28, 1:00 PM at Grinnell City Council Chambers to work on the Watershed Management Plan. Please join us.
- * Contacted Doug Morningstar on January 9 about the wetland designs for the East tributary to Arbor Lake. He will look at them soon and get back.
- * Talked with Greg Harris DNR Wildlife in Tipton. He has a lot of information about urban geese problems and ideas for helping to solve the problem. He is willing to give a public presentation this spring. However, he stated that the time to begin to work on the problem is just before nesting season by harassing them with dogs.
- * Will meet with Dave Stokes – Grinnell/Newburg Schools superintendent – Friday January 16. The high school will be doing major construction starting this year. This is a great opportunity for demonstrating construction site and landscaping BMPs.
- * The 4th Annual Water Monitoring Conference will be held in Ames February 18 – 19, 2004. The Arbor Lake IOWATER Team is thinking to attend and prepare a poster presentation of their work in the watershed.

Arbor Lake Watershed Project

Commissioner Report ~~January~~ 16, 2004
February

- * I am not able to be here today because I am attending the 4th Annual Water Monitoring Conference in Ames with members of the Arbor Lake Monitoring Team. Liz Queathem put together a poster presentation with the help of the other team members that explains the work they have been doing at Arbor Lake. The poster will be displayed through out the 2 day conference.
- * The Arbor Lake watershed Board met on January 28. A work sheet to set priorities for BMPs in the watershed was discussed. Criteria for selection of sites will be determined by:
 1. the amount of pollutants decreased
 2. If the site is on City Property
 3. If design work can be handled by local technical stuff
 4. The number of acres benefited
 5. If the site has public visibilityThey requested to meet with Doug Morningstar to discuss the proposed wetland. An appointment request has been send to Doug Morningstar.
- * I visited with Dave Stoakes, Grinnell/Newburg School District superintendent, about the construction work planned for the high school. He seemed very interested in setting up a meeting with the contractor, high school principal, himself, Wayne Petersen, Stacie Johnson, and me to plan a construction erosion control demonstration. We may also include plans for landscape designs for educational opportunities and water quality protection.
- * I prepared a display for the INCA meeting held in Grinnell on February 7, but was unable to attend due to bad weather.
- * Information and Education Program speakers scheduled:
March 24, 7:00 – 9:00 PM Library Meeting Room - Kamyar Enshayan from University of Northern Iowa Center for Education, Energy, and the Environment – urban lawn chemical use
May or June – Doug Harris, the IDNR wildlife depredation officer - Urban Geese Problems

Earth Day/Week activities

A possible event during week could be a Saturday workshop with the Arbor Lake Monitoring Team to demonstration IOWATER sampling and results so far

Or

Field Day Workshop with 4 stations around the lake

Boat Dock – Storm Sewers Contributions

Cemetery streams – Riffle and Pool Systems

Over flow bridge – Water Quality Monitoring

East leg tributary – Wetland Benefits

January 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 January – 31 January 2004

Date Prepared: February 15, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "Duane L. Johnson", with a horizontal line extending to the right.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 January, 31 January, 2004

Activities

- 1E

* Met with the Monitoring Team to review the Draft QAPP. Several changes were made to delete items that were not necessary to include such as items covered under the IOWATER protocols. We expanded on items on Assessments. We also discussed attending the 4th Annual Water Monitoring Conference in February and decided to prepare a poster presentation describing our work. We will meet late to put ideas together.
- 1E

* Visited with Greg Harris, DNR depredation officer, about Arbor Lake's resident geese problem. Among his suggestions where to begin harassing the geese with dogs in February/March, as migrants start to move. This will encourage moving on and discourage nesting. Tall vegetation on lake shore discourages geese. They like to walk onto shore and see a clear area to ensure no predators. It is most important to discourage the resident geese population. They are the ones residing at Arbor Lake year round and are increasing in population. Their presence brings in migrant geese to remain all winter because people feed them and the aerator in the lake keeps open water. Greg late sent a mews release article he and Bill Bunger wrote.
- 1E

* The Annual Poweshiek/Jasper Counties SWCD Contractors Meeting was held in partnership with Iowa One Call on January 14 in Grinnell. I was given ten minutes to give a presentation about urban construction and erosion control. Brochures were also handed out and made available for the One-Call portion of the meeting. A copy is included with this report.
- A

* The Commissioners meeting was held January 15 at 1:00 PM with 5 Commissioners attending. A written report was submitted, since I took advantage of the good weather that day to do field work. The forecast was for snow which came and ended opportunities.
- Leno

* Met with the Grinnell/Newburg School District Superintendent January 16. The high school will be doing some major construction work beginning this spring/summer. Since the high school is within the watershed, this is an excellent opportunity for a demonstration of construction BMPs for erosion control. It may also lend itself to

demonstrate urban landscaping techniques such as a rain garden. The superintendent will arrange a meeting with other involved in the construction project. I have contacted Wayne Petersen (NRCS) and Stacie Johnson (Soil Matters) to attend the meeting.

- * Attended the Window XP Outlook training provided by NRCS in Marshalltown January 21.

- * The Watershed Board met January 28 with 11 members attending. Decisions to complete the Draft Watershed Plan were made. We will continue to move forward with the wetland to be placed in the east tributary to Arbor Lake. Preliminary designs are at the Area 5 Engineers office. Doug Morningstar is currently working with them. A worksheet was given to each member attending to ascertain their preferences in ranking of concerns that should be addressed by the plan. I received 2 back so far. Ranking was given to criteria to determine areas for BMPs, BMPs to use for the reduction in each pollutant, and information/education items. Through discussion it was decided that criteria for BMP placement is:

1. The amount of pollutants decreased
2. If on City property
3. If design work could be handled by local technical staff
4. The number of acres benefited
5. If the site has public visibility

It was agreed that construction work was a major source of sediment entering the lake. The city staff, although agreeing that something should be done, related that the City Council in the past has been reluctant to regulate construction, because residents would view it as the city driving up the cost of construction.

- * Attended the Iowa Watershed Conference January 29 -30.

2004 Poweshiek – Jasper Contractors Meeting

January 14, 2004

- 8:00-8:30** **Registration, View Suppliers Exhibits, Coffee and Donuts**
- 8:30-8:35** **Curt Donohue District Conservationist - Newton**
Greg Townley District Conservationist - Malcom
****Welcome and Introductions****
- 8:35-8:40** **Cliff Foster Soil Conservation Techn. - Malcom**
****Poweshiek concerns on Pre-Construction meetings****
- 8:40-8:50** **Julie Watkins-Soil Conservation Techn. - Newton**
****Jasper County****
- 8:50-9:35** **Richard Rogers –State Archeologist NRCS –Des Moines**
****Cultural Resources ****
- 9:35-9:50** **Break**
- 9:50-10:00** **Judie Krebsbach-Environmental Specialist/Arbor Lake Project-Malcom**
****Urban Conservation****
- 10:00-10:10** **Keri Batterson-Environmental Specialist/Rock Creek Project-Newton**
****Update on current Rock Creek Project work****
- 10:10-10:15** **Curt Donohue – District Conservationist - Newton**
****EEO – Sexual Harrassment****
- 10:15-10:45** **Jason Steele – Soil Scientist/NRCS – Washington Soils office**
****Soils Information for Contractors****
- 10:45-11:00** **Greg Townley – District Conservationist - Malcom**
****Available Programs, Closing & Questions ****
- Carol Brown – State Secretary – Malcom**
Carolyn VanWaardhuizen – State Secretary – Newton
**** Door Prizes****
- 11:30-12:15** **** LUNCH ****

**A special THANK YOU goes to Iowa One Call & Utility Companies for the Lunch.
We Thank Construction Material Suppliers & all others for their displays and
sponsorship.**

Arbor Lake Watershed Management Plan

Ranking Worksheet

Arbor Lake Watershed Board Meeting January 28, 2004

Ranking Levels: Very High (VH), High (H), Moderatly High (MH), Moderate (M), Moderatly Low (ML), Low (L), Very Low (VL)

Item No.	Component	Ranking	Item No.	Component	Ranking
	Concerns				
	Areas for Concerns				
	Visibility				
	Proximity to lake				
	Residential				
	Commerical				
	Agriculture				
	Amount of pollutant				
	Sediment				
	Stream Channels				
	Construction Sites				
	Gully Erosion				
	Agriculture Sheet & Rill				
	Trash & Debris				
	Nutrients				
	Storm Sewer debris				
	Lawn Chemicals				
	Rough Fish				
	Waterfowl				
	Wildlife				
	livestock				
	Agriculture Chemicals				
	Pet Waste				
	Bacteria				
	Wildlife				
	Waterfowl				
	pet waste				
	septic systems				

Item No.	Component	Ranking		Item No.	Component	Ranking
	Water Flow Rate					
	Impermiable Surfaces					
	Sheet & Rill					
	Channelization					
	Storm Sewers					
	BMPs					
	Sediment					
	Silt Fences					
	Sediment Log					
	Filtration Berms					
	Storm Sewer Protection					
	Detention Ponds					
	Site inspections					
	Grade Stabilation					
	Water & Sediment Basins					
	Rip Rap					
	Riffle/pool Systems					
	Small Rock Weirs					
	Fabric & Seeding					
	Tree/shrub Planntings					
	Inforce/initate Ordances					
	Restore Stream Meanaders					
	Streambank Shaping					
	Stabilie Tile/pipe Outlets					
	Nutrients					
	Rain Gardens					
	Wetlands					
	Lawn Chemical Regulations					
	Filter Strips					
	RemoveStreambank Dumping					
	Geese Control					
	Storm Sewer Grates					
	Discontinue Lake Areator					
	Remove Rough Fish					
	Dredge Lake					

Item No.	Component	Ranking		Item No.	Component	Ranking
	Bacteria					
	Filter Strips					
	Control Geese					
	Septic system updates					
	Storm Sewer Grates					
	Regulations - Pet Waste					
	Rain Water Flow Rate					
	Rain Barrels & Downspout Controls					
	Rain Gardens					
	Reduce Impermiable Surfaces					
	Detention Ponds					
	Filter Strips					
	Meander Restoration					
	Native Vegetation Plantings					
	Wetlands					
	Educational Tools					
	Newsletters				Public Workshops	
	Public Forums - Speakers				Brochures	
	Workshop & Outdoor Classrooms				Presentations to Interest Groups	
	Demonstrations				Mailings	
	Ordinance Awareness				Public Exhibits	
	Rain Water Audit				Geo-Caching	
					Lake \$mart Program	

February 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 February – 29 February 2004

Date Prepared: March 18, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "Duane Hyatt", with a horizontal line extending from the end of the signature.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 February, 29 February, 2004

Activities

- A* ~ Reviewed POO twice during the month on February 3 and 23.
- W* ~ Field checked Lake Nyanza outlet for wetland design consideration above the east leg inlet to Arbor Lake.
- IE* ~ Coordinated with the Arbor Lake Monitoring Team (IOWATER) for attendance at the Iowa Monitoring Conference on February 18 and 19. Two members and I attended and displayed a poster presentation about our monitoring program at the conference. The poster was visited by many attendees and I talked with three people about the program. All five members contributed to the poster which was printed and produced at Grinnell College using their resources.
- IE* ~ Visited several times with the City of Grinnell about beginning a pre-nesting geese harassment program at Arbor Lake. The city manager volunteered to accept the responsibility for organizing the group of dog owners for a controlled program to begin as soon as possible.
- IE* ~ Completed a draft Quality Assurance Project Plan for the Arbor Lake Monitoring Team. They will review it before the next monthly meeting.
- IE* ~ Visited with Brian Soenen, IOWATER, about the next steps to take with the Quality Assurance Project Plan. He put me in touch with Mary Skopic and Lynette Siegley. They will receive a copy of our draft when completed for review and comment.
- IE* ~ To provide better information to watershed and city leaders, the watershed was divided into subwatersheds and sediment delivery will be calculated for each on the basis of landuse, measured landscape components, and potential sheet and rill erosion before practice installation. Sediment delivery reductions will then be estimated in each subwatershed with respect to practice installation. This information will help to identify areas for future work and to complete the Arbor Lake Watershed Management Plan.

Around the Town



A unique birthday party was held Saturday evening, Feb. 7, at the Grinnell Elks Lodge when Pam Montgomery and Jeff Sears of Grinnell, a big sister and little brother combination, were the hostess and host at a party celebrating, respectively, their 50th and 40th birthdays.

That's a total of 90 years, they were quick to point out, a fact which was emphasized by 90 black helium-filled balloons which covered the ceiling of the Elks Club courtesy of Jim White.

The open multi-generational event, which drew a crowd about the same size as the number of balloons, caught several children dancing to the music of the DJ along with adults.

All in all, a good time was had by all at the non-traditional event which well could serve as a model for other birthday parties, a practice not uncommon in some European countries where the birthday boy or girl traditionally entertains friends rather than being the fete.

*

A group of former Grinnell Mutual Reinsurance Company staff members held a mini-reunion in Grinnell last weekend, coming from various locations for a get-together which included taking in the Valentine dinner at the Grinnell Country Club.

Among the instigators of the re-

union were Darwin and Jeanette Copeman, now of Cameron, Mo., north of Kansas City. Group members professed a fondness for Grinnell as well as its convenient location for a get-together.

*

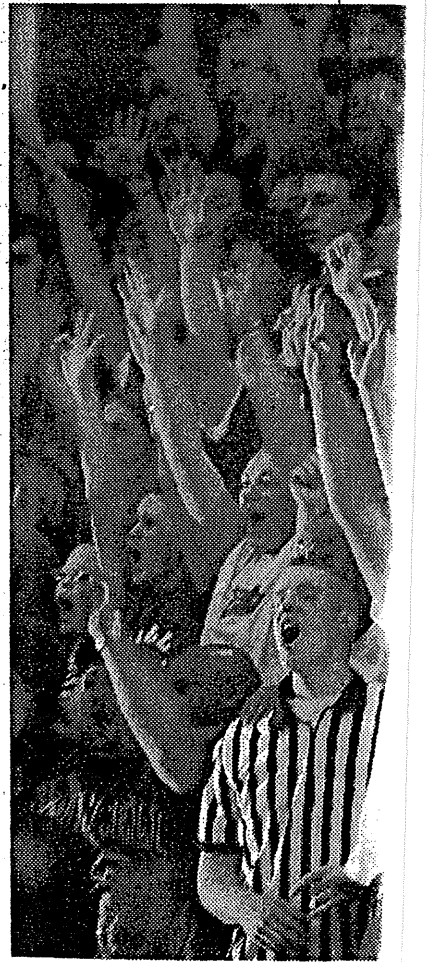
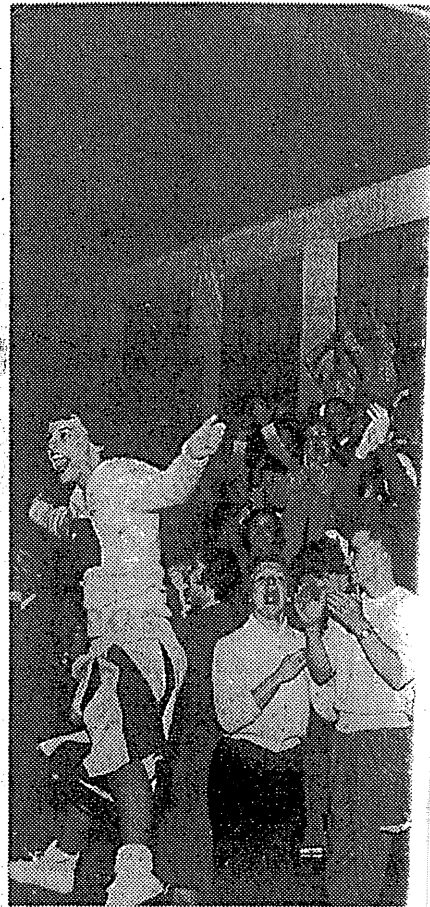
The flock of geese, an enormous gathering on a plain south of Grinnell between the WalMart-HyVee drive and Sully Cooperative Elevator, is part of a huge resident population of geese in Grinnell, according to Bob and Connie VanErsvelde, long-time aficionados of the bird world.

Perhaps that's why Around commented earlier about the frequent flocks of geese seen flying and honking overhead.

The present flock, which seemed to just stand around with no food or water in sight, probably uses Arbor and Nyanza Lakes for water and scrounges in farm fields for grain. They also may be attracted by the grain-handling operations of Sully Cooperative Elevators just to the east, although at the time they were observed recently they did not seem to be showing any interest in that location.

The unfortunate aspect of their residence here is that it has changed their natural behavior, say the Van Ersvelde, by keeping them here rather than their normal winter flights to southern climes.

Or does that say something about our winter weather?



MARDI GRAS

at the Depot Crossing

February 24



February 16, 2004

March 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

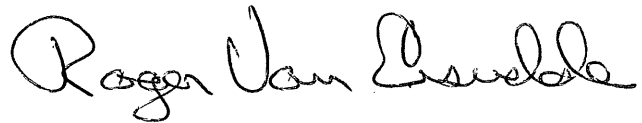
Soil and Water Conservation District: Poweshiek

Reporting Period: 1 March – 31 March 2004

Date Prepared: April 15, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "Roger Van Esch". The signature is written in a cursive, flowing style with a large initial "R" and a distinct "E" at the end.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 March, 31 March, 2004

Activities

~ Meet with Arbor Lake monitoring team March 3.

Agenda –

1. Report from those attending Iowa monitoring Conference.

Two members and I attended the Conference in February, which was discussed in the Arbor Lake Watershed February Month Report. Several Conference participants viewed our poster, asked questions, and discussed what we are doing at Arbor Lake. All comments were positive. My name was drawn for an IOWATER cup which was donated to the Team for a reward/drawing/etc in a public promotional activity/event sponsored by the Team.

2. IOWATER Grant Opportunity.

The Team will develop and submit an application to bring awareness of monitoring activities and results to the Grinnell public. Brian Soenen of IOWATER gave permission to use the IOWATER logo on vests for Team members. They will be part of the grant and used to identify ourselves to the public and have extras for volunteers while helping monitors. We will all work on program suggestion and bring to the next meeting.

3. Monitoring.

The trees have been cleared from the riffle/pool site. Stream Monitoring in the area should be done above and below now to catch the affects of this stage of the construction work. The site is registered to Team members who will do this.

4. Quality Assurance Project Plan.

Comments were given on the Plan they will be incorporated into the final draft before sending it to Mary Skopic and Lynnette Siegley, IDNR IOWATER, for review.

5. Earth Day Activity.

We briefly discussed having a public workshop/demonstration of monitoring technique on Earth Day April 22 at Arbor Lake. Evenings and weekends are so busy for people and schedules are filling quickly. There are many people who use the lake daily at noon to walk and lunch. A 10 – 15 minutes presentation may work well then. We will discuss it more next month.

~ Construction Demonstration at Grinnell/Newburg High School. Dave Stoakes, superintendent, requested any information about education type grants. I forwarded an email from Deb Ryan

that contained a list of grant opportunities and mailed several grant proposal application/request/announcements to him. A meeting had been planned with Dave, high school staff, contraction manager, Wayne Petersen, Stacie Johnson, and me to discuss a demonstration at the school construction site. However, it was postponed due to scheduling conflicts and school deadlines until next month.

- 1/E
- ~ The Native Roadside Vegetation Center (NRVC) at the University of Northern Iowa in Cedar Falls: Native Seed Identification and Planting Technique Workshop on March 11. I learned to identify some native seeds, seed growth, pre-treatment, and planting techniques which will help me to teach volunteers helping to seed the filter strips along Arbor Lake tributaries after the riffle/pools are installed. A second NRVC workshop will be held in April, Seedling Identification. This would help to identify plants as they begin to grow and enable me to develop workshops at the seeding site to encourage ownership, appreciation, and impart knowledge to the community.

- W
- ~ Wetland sites. Doug Morningstar visited the wetland site on the East tributary to Arbor Lake with Ray Drewelow and me. We were concerned that the berm would be too high and wide to fit within the City right of way along the stream and that it would be essentially a "big, bare, hole". All existing vegetation would need to be removed and seeding with typical lawn grass and kept mowed since it would be disturbed every 5 – 10 years to clean out collected sediment. It would be expensive to construct due to a lot of earth moving and clearing.

Since it is very visible, I think it is important to install a structure/practice that not only reforms the desired function well, but is also aesthetically acceptable. After measurements and viewing the area, Doug suggested a rock structure (weir) that would back water to the culvert under HWY 146 (to alleviate stream bank erosion and the deep plunge pool at the culvert outlet) and slowly release the water through the rocks. Sediment would be collected upstream of the rock structure. Most of the existing vegetation could be retained. The structure would need to be cleaned every 5 – 10 years more or less depending on weather and sediment deposited. Wetland vegetation could be inter-planted in the pool area to help degrade nutrients, as the vegetation will not be disturbed during clean-out procedures. This practice was more appealing than the other wetland structure. Both will be presented to the Board at their next meeting March 30.

- W
- ~ I attended Microsoft Access Training in Newton March 19. The training was arranged by NRCS and approved by DSC.
 - ~ Jan Andersen, Grinnell Water and Waste Water Superintendent., has been searching for prices and designs for Storm Sewer Interceptors. He was able to get a cost estimate from Rinker Stormsepter for the storm sewer on Washington Avenue (boat ramp) location. It will require 2 units at \$21,620 each for a total of \$43,240 not including installation. This exceeds our budget allocation by more than double (75% of the total cost not to exceed \$18,750). The location offers the city the easiest access for installation and maintenance. It is owned by the city and adjacent to a parking lot. A location requiring one unit would be much farther up in the watershed and may include street access for installation and/or private property. This would increase the installation cost and may not be as easy to access for maintenance. Each unit is rated as removing 50% TSS (total suspended solids) and is fitted to the size of existing pipe and drainage area. The Washington Avenue site has a drainage area of about 15 acres and a 24" pipe. Upland drainage area will be investigated for possible alternative locations and Jan will get installation estimates.

- 1E ~ I received Ken Krier, IDNR, results for the monitoring on the two north Arbor Lake tributaries March 26. I have not been able to review them yet.
- 1E ~ Dr. Kamyar Enshayan spoke to a group of 5 people from Grinnell March 24 at the Stewart Library meeting room. He presented information about "Lawns for Kids" how to have a nice lawn that is safe for kids, pets, and others and reduces lawn care costs. He spoke of our societies obsession with the "perfect lawn", our perceptions or what a lawn should look like, how this may have be cultivated and about our need to change attitudes about what a laws (backyard/campus) should look like. The presentation was filmed by GET19-TV and aired the following week for 4 days.

Attendance for speakers has been consistently very low. We did have new faces at this presentation however. Because the presentation was film, we reach more people, but the effort and costs are not known to justify the results. I will continue with the scheduled public meetings, workshop, etc this fiscal year, and evaluate effects. But I would suggest if the project is extended for one more year, we look at other way to deliver information to the public.

- 1E ~ Contribution to the Project by the City of Grinnell and Grinnell College. One of the line items in the budget in contributions to information and education by the City of Grinnell and Grinnell College through in-kind and monetary support. They have been generous and committed to the Project. The City of Grinnell has donated GET19-TV (Grinnell public television), KGRN radio services, and public meeting space and equipment free of charge throughout the project, plus the many hours by the city staff. The library has allowed the project to maintain a display case for many months and they have searched their shelves for books that correspond with topics emphasized.

Activities initiated by the city to reduce the geese population at Arbor Lake include: harassment of geese prior to nesting at the lake, they have stopped feeding the geese, although the aerator has not been turned off was lower this year and the area of open water much smaller this winter. Fewer geese or ducks stayed at Arbor Lake this winter, but appeared to move to Lake Nyanza.

Grinnell College may again offer paid internships for students to work in the watershed with research or other projects during the summer. Professors have suggested students focus on Arbor Lake and its watershed for class projects, such as the geology students did last fall. They facilities are open to the project factuality have been eager to answer my questions and participate in activities. Dr. Liz Queathem is a member of the monitoring team and prepared the poster for the Iowa Water Monitoring Conference using Grinnell College resources. She is also a member of the Arbor Lake Watershed Board.

There has been a continual support for the project from the beginning of the project from both the City and College. At no time have I experienced opposition or resistance from the city staff or officials, Grinnell College, Imagine Grinnell, local organizations, or other entities, nor the residents.

The one thing that is disappointing to Grinnell and the project is that there are no practices installed yet. This is not due to anyone involved with the project, form Grinnell or local agencies. There is a long list of approval before installation can begin which builds into the project delay which is further compounded by dependence on weather/environmental conditions. The turn around time for practice designs has increased our delay. These designs are innovative and require extra time to ensure reliable performance.

- A ~ Arbor Lake Watershed Board meeting March 30 with 6 members attending.

Agenda:

1. Riffle/Pool Update – Loren Dostal, contactor, was to give an update on the work status, however, he was not able to attend. Jan Andersen, City of Grinnell reported that last he heard, work would begin as weather permitted.
2. Wetland Update – Doug Morningstar, NRCS (Williamsburg) was to answer questions and present options for East Arbor Lake wetland. However he was unable to attend. Judie Krebsbach reported on the field visit and structure options as discussed above in this report.
3. Storm Sewer Interceptors (SSI) – Jan Andersen presented the information discussed above in this report.
4. Project Schedule – The discussion merged with the two prior discussions. We are finding it hard to stay within our budget for the remaining practice items not obligated. Alternatives were discussed and it was decided that the SSI would be the preferred practice if only one could be installed with this year's budget. Reasoning was that SSI could be completed this year since designs do not need to come from the NRCS Area engineer. It is also an innovated practice that the City would like to try. Monitoring by Grinnell College, IDNR, and the Arbor Lake Monitoring Team is in place to help determine cost/benefit of future unit installation. Mr. Andersen will get installation estimates and I will ask Mr. Morningstar for stone weir and wetland estimates. We will then contact IDNR, Ubbo Akena, to review and discuss our options.

ates in eness Day

ar door," Woerdeman says. "There
16 million Americans who have
-diabetes and don't realize it."

Pre-diabetes is a condition that oc-
s when someone's body is only
tially able to do a good job of con-
trolling blood glucose. It is serious as it
reases your risk for heart disease
d stroke by 50 percent. If no changes
made, full-blown type 2 diabetes
ll most likely develop within the
xt 10 years.

"It is recommended that overweight
ults 45 years and older be tested for
e-diabetes," Woerdeman says.
hose younger than 45 years of age,
erweight, and who have one or more
the other risk factors could be at a
gh risk of developing type 2 diabetes
d should also consult their health
re providers about testing."

A simple blood glucose test is used
diagnose pre-diabetes. A reading of
0 to 125 indicates pre-diabetes. Dia-
betes is diagnosed at a reading of 126
r higher.

Results from the Diabetes Preven-
on Program show that even moderate
festyle changes — such as a weight
ss of 10 to 15 pounds in a 200-pound
erson and a 30 minute walk 5 days a
week — can make a big difference in
reventing type 2 diabetes.

"True diabetes isn't reversible, but
ype 2 diabetes can be stopped and for
ome people, actually delayed,"
Woerdeman explains. "The key to dia-
betes prevention is taking small steps
owards living a healthier life. Every-
one will benefit from the improvement
n their health by making healthy
ifestyle changes."

For more information on pre-diabe-
es, diabetes, or steps towards a
ealthier eating habits those interested
nay contact GRMC's Diabetes Self-
Management Education Program at
(641) 236-2435.

Sheridan

Mrs. Warren Fogel

Enshayan to discuss environment- friendly lawn care techniques

Kamyar Enshayan, a professor at the
University of Iowa's Department of
the Center for Energy, Environment,
and Education, will present a talk about
ways to reduce chemical use on your
lawn.

The lecture, "Lawn and Order: Prac-
tical Alternatives to Turf Weed Kill-
ers," will take place on Wednesday,
March 24, beginning at 7 p.m. in the
fourth floor meeting room at the Stewart
Library. There will be time for ques-
tions after his one hour talk. Refresh-
ments will be served.

Through images and data, Enshayan
will trace the historical root of the
obsession with "perfect" lawns.

"I will outline what we know about
health and water quality effects of cur-
rent turf practices," said Enshayan. "I
will then outline ecological alterna-
tives that are practical and save money,
and show examples of cities and school
districts that are doing turf care the
healthy way."

Enshayan organized the Buy Fresh,
Buy Local locally grown food pro-
gram as well as programs to reduce the
amount of chemicals used on lawns,
for both private individuals and insti-
tutional and for industrial campuses.

The talk is sponsored by the Arbor
Lake Watershed Project.

Tiffany Sears named 2004 Iowa Girls' State delegate

Tiffany Sears, daughter of Jeff
and Michelle Sears, has been
named Grinnell's delegate to the
2004 Iowa Girls' State, it was an-
nounced at a meeting of the
American Legion Auxiliary
Monday, March 10 at Veterans
Memorial Building.

Leona Strovers chairs the unit's
Girls' State committee.

Veterans suffering from exposure
to Agent Orange may reinstate their
claims as compensation now is
available.

Karen Strovers, unit president,
reminded chairs of unit committees
that annual reports are due April
30.

Past Presidents of the American
Legion Auxiliary will meet
Monday, March 29, at 6 p.m. at
Godfathers Pizza.

Peoplerides

Grinnell and
Poweshiek County

Monday through Friday
9 a.m. to 3:30 p.m.
(or by arrangement)

To schedule rides:
Call 1-888-616-4298

twentieth annual Home Show & Business Expo

Friday, April 2, 4-8 pm

Saturday, April 3, 9 am-1 pm

Community Center and
Veterans Memorial Building
927 4th Avenue • Grinnell, Iowa



LAWN AND ORDER:

Practical Alternatives to Turf Weed Killers

Dr. Kamyar Enshayan

Professor at the University of Northern Iowa Center for Energy, Environment, and Education

Learn the root of our obsession with the “perfect lawn”, what we know about health and water quality effects of lawn care, and practical alternatives that



Stewart Library 4th floor meeting room
Wednesday, March 24 at 7:00 PM

Sponsored by: The Arbor Lake Watershed Project which was developed by Imagine Grinnell and is administered by the Poweshiek Soil & Waters conservation District. Funding is provided by the Iowa Department of Agriculture and Land Stewardship-Division of Soil conservation, through WPF and by the Iowa DNR through a grant from the USEPA under the Federal nonpoint Source Management (Section 319 of the Clean Water Act). Technical assistance is provided by the USDA-NRCS.



April 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 April – April 30 2004

Date Prepared: May 20, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "Duane Selt", with a long horizontal flourish extending to the right.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 April, April 30, 2004

Activities

- 12 ♦ Water quality monitoring was done for 3 sites: two north tributaries as they enter the cemetery property and Arbor Lake boat ramp. This are sites monitored by the project coordinator and will be continued until the water freezes this winter. Test follow the IOWATER monitoring protocols and include Level 1 and Level 2 parameters for chemical, physical, and biological characteristics. All physical and chemical tests were done along with chloride and bacteria. Biological parameters were done except benthic macroinvertebrate sampling which will be sampled one per year during the summer.
- 12 ♦ Checked fertilizer demonstration plots. Most of the stakes and all of the water sampling cups were in place. Applied fertilizer to all plots requiring it.
- 12 ♦ Met with the water monitoring team, all members were present (5). We discussed the upcoming Earth Day demonstration at the boat ramp, reported information for our IOWATER Mini Grant proposal and discussed IDNR's Arbor Lake water quality report recently received.
- 12 ♦ Submitted an article to the Grinnell Herald Register inviting people to view the IOWATER monitoring equipment and talk with monitoring team members at Arbor Lake on Earth Day April 22. The team gathered at Arbor Lake for a picture to accompany the article (see attachment). Promotion was also submitted to two local radio stations, local GET19-TV and posters were place is businesses and the library in downtown Grinnell. On the day of the event, we met at noon with our equipment at the boat ramp. I had gone earlier and collected a sample of benthic macroinvertebrates from the NE tributary. It was a sampling of several good water quality critters (crayfish, caddisfly, mayfly, crane fly, and a few others. As usual, several people visited the boat ramp at noon to eat their lunch and walk the trail. However, only one person stopped to talk with us despite our urging.
- A ♦ As the May 15 deadline approaches to submit a POO and budget for FY 2005, I had questions which were brought to Paul Valin (DSC) and Becky Schwiete (DNR). A third year extension may be granted to the project and will require a letter of request from the Commissions and a proposed budget. As the Watershed Board was discussing this at their meeting (11 members present) it became a dilemma what could be accomplished with the

remaining FY2004 funds. There are two line items not obligated – wetlands and Storm Sewer Interceptors (SSI). We have enough money in the budget allocated to wetlands to install one structure, but we are not receiving the designs from the NRCS in time to allow for installation this fiscal year. We do not have enough money in the FY2004 budget to cover the cost share for the SSI needed, but we could foreseeably have them installed this fiscal year. If the contractor is available timely. The Board would like to see the wetlands to the east of Arbor Lake installed because it is visible to many and would filter and slow all water coming into Arbor from that tributary. However, they feel we should move on something we can accomplish this year. Tangible progress needs to be made to keep and promote public buy in and cooperation with Arbor Lake water quality protection. It was decided that the project coordinator would present information to Ubbo Akena (DNR) and request a meeting for Jan Andersen, Russ Behrens (both of the City of Grinnell). Ubbo Akena and me as soon as possible to discuss possibilities. The meeting was scheduled for May 17.

- ◆ When monitors are sampling water quality, they report there are always people stopping to talk and are interested in what they are doing. This seems like a good opportunity to recruit others to become trained and join the team. The project provided small stickers with the IOWATER log and website to give to people. Monitors were each given several. Equipment carrying cases or totes have been added to each monitor's equipment by them to fit their needs. The project provided decals with the IOWATER log to identify the totes and thus the monitors. The team would also like to have vests or something similar to identify themselves to the public, promote recruitment, add some security, and give them more credibility to the local public. This will be addressed in the IOWATER Mini Grant proposal.
- ◆ The high school will begin a large construction project this spring. I had talked with Dave Stoakes, Grinnell/Newburg School superintendent, earlier this year. This month Wayne Petersen (NRCS), Stacie Johnson (compost business), Mr. Stoakes, the high school principal, the construction manager, and me met to discuss the possibility of a construction site water quality protection demonstration. The project has Information and Education funds that could provide about \$3,000 to help with costs. We discussed using compost instead of silt fences and including student in data gathering and site inspections. It was decided to get more details from the engineer about the Storm Water and Erosion Control Plan for the site, since it was larger than one acre. The High School principal and superintendent were not aware that this was necessary. A meeting with the engineer (Mindy from Clapsaddle and Garber – Marshalltown) was scheduled for Ann Brau (Ag teacher who was suggested by Mr. Stoakes) and me. Mindy was aware of the required Plan and had begun writing it. She will include using compost to control water movement and erosion. The compost can be incorporated into the soil after construction to enhance the soil functioning. We also talked about water movement after construction. The designs specify downspouts attached to tile lines which collect rain water and move it off the school property into a storm drain. If the tile could be intercepted and into the road ditch, a wetland area could be created. Student would be involved in planting native wetland species and provided with an outdoor classroom on the school property. Mindy will work on the designs and storm water plan and get back to us.

Promgoers will make an 'Underwater Escape' April 24

"Underwater Escape" is the theme of this year's Grinnell High School Prom scheduled for Saturday, April 24, at the Poweshiek County Fairgrounds 4-H building beginning at 9 p.m. This year, organizers remind revelers that they must be at the dance by 10 p.m. or they will not be admitted.

Before the big night, however, a lot of preparation goes into making the event a memorable one.

Chellie Wilkins, junior class sponsor and prom sponsor, invites all juniors and parents to help with decorating the 4-H building, and she says they need as many volunteers as possible. Decorating crews will be working Monday, Tuesday, Wednesday and Friday nights, April 19-21 and 23, from 5 to 9 p.m.

The junior class is in charge of picking the theme and decorating, and Wilkins says, "They've done a really great job of working up to this point doing fundraising and taking care of all the preliminary stuff that needs to get taken care of before we decorate."

With the deep-sea theme, she hints

PROM -

continued on page 5



Celebrate Earth Day at Arbor Lake

The public is invited to Arbor Lake on Earth Day for the Second Annual Arbor Lake Water Quality Workshop. Members of the Arbor Lake Monitoring Team will be present at the boat ramp on Washington Ave., this Thursday, April 22, from noon to 1 p.m., to demonstrate monitoring techniques and show results of their water

quality testing. Pictured from left are team members Liz Queathem and her daughter Olivia, Doris Hotchkin, Judie Krebsbach and Gene Rohr (team member Jean Perri is not pictured). For more information on this environmental event, turn to page two of today's Herald-Register.

Arbor Humanities applications

different angles - political, geographic or cultural.

- Living History Farms in Grinnell, \$5,000 for "Horses & Hauling: A Teamster Comes to Town," a new interactive living history exhibit about horse-drawn transportation and commerce taking place at Living History Farms starting in May 2004.

- Vesterheim Norwegian-American Museum in Decorah, \$10,000 for "Small-Town Enterprise 1850-1930," an exhibit with related events, from November 2004 through April 2005, emphasizing small-town commerce and the role of Norwegian Americans in the Decorah area.

- Putnam Museum of History and Natural Science in Davenport, \$8,000 for "Rock Island Line & Grand Excursion," an exhibit, from June 2004 through January 2005, with educational public programming to celebrate the 150th anniversary of the opening of the Chicago and Rock Island Railroad to the Mississippi River and the Grand Excursion.

- Iowa City International Documentary Festival, \$6,100 in support of "ICIDF 2004," a festival in April 2004 featuring short documentary films. Winning films, as well as other documentaries will be taken on the road to small Iowa communities for viewing and discussion.

- Indian Hills Community College in Ottumwa, \$2,500 for a new play based on the short story, "Best Schoolteacher in Georgia," focusing in discrimination, segregation, and universal issues such as aging, gender and relationships to be held in Ottumwa in June 2004.

- National Park Foundation-Effigy Mounds National Monument in Harpers Ferry, \$10,410 for the "Effigy Mounds American Indian Heritage Celebration" in June 2004 featuring American Indian drum and dance, demonstrations by artists, as well as a symposium on the "sacredness" of special places and their availability to the wider public.

Water monitor team shares work in honor of Earth Day

The first Earth Day was held April 22, 1970, calling for individuals to get involved by making pledges to clean up the environment.

This Earth Day in Grinnell, area individuals who are making that commitment invite you to Arbor Lake to learn about their efforts to monitor the health of this important local asset.

Members of the Arbor Lake Monitoring Team will be on hand over the noon hour (12 noon to 1 p.m.) at the Washington Ave. boat ramp to demonstrate the water monitoring techniques they have learned and to show members of the public the results of the testing.

Testing includes measuring water levels of nitrogen, phosphorus, oxygen, pH, clarity, temperature, and bacteria. Monitors also assess plant and animal habitat, composition of stream bottoms, flow rate, and what types of macroinvertebrates live in the water.

Visitors will be able to become familiar with the equipment the monitors use, perform some of the tests themselves, and maybe even meet some of the tiny critters that live in the streams that flow into Arbor Lake.

Team members were trained by the State of Iowa IOWATER program in Grinnell in September 2003. Their aim as a monitoring team is to document water quality in the inlet streams and various sites around lakes over the long term so that they can see whether and/or how the planned structures and practices to be installed through the Arbor Lake Watershed Project improve water quality. The team currently has eight sites registered with IOWATER and hope to expand their efforts with new recruitment.

The Second Annual Arbor Lake Water Quality Workshop is sponsored by the Arbor Lake Watershed Project and the Arbor Lake Monitoring Team.

Funding for the Arbor Lake Watershed Project is provided by the Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation, and by the Iowa Department of Natural Resources through a grant from the United States Environmental Protection Agency under the Federal Nonpoint Source Management Program, Section 319 of the Clean Water Act.



What a beautiful baby.

You can meet the newest arrivals at GRMC online. Family and friends from across the street or around the world may view the babies who got their start at GRMC's Kintzinger Women's Health Center.

**Time to dump
the old bag.**

WWW.GRINNELLREGIONAL.ORG

Commissioners report May 30-2004

- Grinnell 7th grade outdoor classroom ^{~160 students} 1/2 at Arbor + 1/2 at school then switched the 2nd Day
Attended one morning + lead a group in log. testing

Others groups were measure the distance around the lake, across and Depth. Then they could calculate the volume -
Some were looking at vegetation and wild life evidence

- Tama Co. 5th grade outdoor classroom -
water quality station - 118 students from 4 schools

- Jensen's Kid's Day America/International - Kid's Day everywhere May 15 12-3
Environment booth @ Madison Co. landfill + Monsanto

Kids 0-14 + parents ~60 some. lots of activities + things to see.
Contractors - Demonstration at HS

- Board meeting April 20

- Meeting with Ubbo, Russ, + Jan Monday May 17
2004 budget letter request + budget

- Extension for 1 year. - letter requesting - POB - Budget
mostly the same as last month, but practice - Ubbo's statement

- Committee will meet soon to review and decided what
can be completed next year + revise POB + Budget of needed
POB doesn't need until July, or August - But
DSC needs something now -

dloftm@iowatelecom.net - Duane Loftin

The Commissioners request a letter to the City of Grinnell,
"strong letter" of disappointment for not having any practices on the land.
Need to press contractor to complete work. - assess contractors commitment
to continue project - possibly relet for bids from a different
contractor.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 April, April 30, 2004

Activities

- ◆ Water quality monitoring was done for 3 sites: two north tributaries as they enter the cemetery property and Arbor Lake boat ramp. These are sites monitored by the project coordinator and will be continued until the water freezes this winter. Tests follow the IOWATER monitoring protocols and include Level 1 and Level 2 parameters for chemical, physical, and biological characteristics. All physical and chemical tests were done along with chloride and bacteria. Biological parameters were done except benthic macroinvertebrate sampling which will be sampled one per year during the summer.
- ◆ Checked fertilizer demonstration plots. Most of the stakes and all of the water sampling cups were in place. Applied fertilizer to all plots requiring it.
- ◆ Met with the water monitoring team, all members were present (5). We discussed the upcoming Earth Day demonstration at the boat ramp, reported information for our IOWATER Mini Grant proposal and discussed IDNR's Arbor Lake water quality report recently received.
- ◆ Submitted an article to the Grinnell Herald Register inviting people to view the IOWATER monitoring equipment and talk with monitoring team members at Arbor Lake on Earth Day April 22. The team gathered at Arbor Lake for a picture to accompany the article (see attachment). Promotion was also submitted to two local radio stations, local GET19-TV and posters were placed in businesses and the library in downtown Grinnell. On the day of the event, we met at noon with our equipment at the boat ramp. I had gone earlier and collected a sample of benthic macroinvertebrates from the NE tributary. It was a sampling of several good water quality critters (crayfish, caddisfly, mayfly, crane fly, and a few others). As usual, several people visited the boat ramp at noon to eat their lunch and walk the trail. However, only one person stopped to talk with us despite our urging.
- ◆ As the May 15 deadline approaches to submit a POO and budget for FY 2005, I had questions which were brought to Paul Valin (DSC) and Becky Schwiete (DNR). A third year extension may be granted to the project and will require a letter of request from the Commissions and a proposed budget. As the Watershed Board was discussing this at their meeting (11 members present) it became a dilemma what could be accomplished with the

Judith,
Bruce called to get more info about this statement. He wants to know when designs were requested, what held them up, etc. Let me know what ~~the~~ I need to tell him.
Jeg 7-27-04

remaining FY2004 funds. There are ^{two} line items not obligated – wetlands and Storm Sewer Interceptors (SSI). We have enough money in the budget allocated to wetlands to install one structure, but we are not receiving the designs from the NRCS in time to allow for installation this fiscal year. We do not have enough money in the FY2004 budget to cover the cost share for the SSI needed, but we could foreseeably have them installed this fiscal year. If the contractor is available timely. The Board would like to see the wetlands to the east of Arbor Lake installed because it is visible to many and would filter and slow all water coming into Arbor from that tributary. However, they feel we should move on something we can accomplish this year. Tangible progress needs to be made to keep and promote public buy in and cooperation with Arbor Lake water quality protection. It was decided that the project coordinator would present information to Ubbo Agena (DNR) and request a meeting for Jan Andersen, Russ Behrens (both of the City of Grinnell). Ubbo Agena and me as soon as possible to discuss possibilities. The meeting was scheduled for May 17.

- ◆ When monitors are sampling water quality, they report there are always people stopping to talk and are interested in what they are doing. This seems like a good opportunity to recruit others to become trained and join the team. The project provided small stickers with the IOWATER log and website to give to people. Monitors were each given several. Equipment carrying cases or totes have been added to each monitors equipment by them to fit their needs. The project provided decals with the IOWATER log to identify the totes and thus the monitors. The team would also like to have vests or something similar to identify themselves to the public, promote recruitment, add some security, and give them more credibility to the local public. This will be addressed in the IOWATER Mini Grant proposal.
- ◆ The high school will begin a large construction project this spring. I had talked with Dave Stoakes, Grinnell/Newburg School superintendent, earlier this year. This month Wayne Petersen (NRCS), Stacie Johnson (compost business), Mr. Stoakes, the high school principal, the construction manager, and me met to discuss the possibility of a construction site water quality protect demonstration. The project has Information and Education funds that could provide about \$3,000 to help with costs. We discussed using compost instead of silt fences and including student in data gathering and site inspections. It was decided to get more details from the engineer about the Storm Water and Erosion Control Plan for the site, since it was larger than one acre. The High School principal and superintendent were not aware that this was necessary. A meeting with the engineer (Mindy from Clapsaddle and Garber – Marshalltown) was scheduled for Ann Brau (Ag teacher who was suggested by Mr. Stoakes) and me. Mindy was aware of the required Plan and had begun writing it. She will include using compost to control water movement and erosion. The compost can be incorporated into the soil after construction to enhance the soil functioning. We also talked about water movement after construction. The designs specify downspouts attached to tile lines which collect rain water and move it off the school property into a storm drain. If the tile could be intercepted and into the road ditch, a wetland area could be created. Student would be involved in planting native wetland species and provided with an outdoor classroom on the school property. Mindy will work on the designs and storm water plan and get back to us.

Bruce questioned
high lighted sentence -
Anything NRCS should be doing?

Has this been resolved?
I assured him that it was only a
statement; that later reports
discuss the nature &
resolution.

August
~~July~~ Commissioners Meeting

- Month report
- ~~Pro~~ Annual Review ^{Sedon} refreshments?
Monday 1:00 attendance is important
- Practice up-date
 - Postal
 - Wetland + SSI preconstruction meeting next week
 - ^{in close} contact with Russ + Jan

June 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: June 1 – June 30 2004

Date Prepared: July 15, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in cursive script, appearing to read "John Mann". The signature is written in dark ink and is positioned to the right of the text "SWCD Commissioner's Signature:".

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

June Month Narrative Report

Reporting Period – June 1, June 30, 2004

Administrative Activities

- I have collected a large amount of Urban Conservation materials that I have organized in a file binder for reference. I had also received another folder of urban conservation material from Paul Valin. Amy Bouska and Sean McCoy are/or have been also involved in urban projects. We planned to meet to exchange experiences and pass along/ share the materials, but schedules have not coincided. We briefly exchanged experiences at the project coordinators meeting in Marshalltown June 9 & 10 and I past along the files.
- The commissioners met at their regular meeting June 17 with all commissioners attending. Reported progress on project and information learned at project coordinators meeting. Month report was approved and signed. Applications from the City of Grinnell for a wetland structure west of the lake and Storm Sewer Interceptor system north of the lake were approved (see attachment). Upcoming events discussed and encouraged attendance: Arbor Lake Committee meeting June 24 and Urban Geese Public Forum June 30. One commissioner attended the Committee meeting and no commissioners attended the Forum. The Commissioners approved and signed a letter to the City of Grinnell expressing their disappointment that the riffle/pools were not completed. This was discussed in the May Month Report.
- The Arbor Lake Watershed Committee meeting was held June 24 with 14 attending. NRCS, Doug Morning Area engineer, Greg Townley, Poweshiek DC, and Ray Drewelow Poweshiek CT and Duane Loftin SWCD chair were present to answer committee questions and assist with committee's task of determining realistic goals for the FY2005 POO and Budget. Chris Bair, Iowa Valley RE&D was unable to attend that meeting but he with me the next day to review and answer questions. He will evaluate native planting needs and budget for designated areas and return information by the second week in July. It is planned to have the budget and POO revisions ready for the July 15 Commissioners meeting. The status of the riffle/pools was discussed. The contractor told the City he plans to begin work as soon after July 1 as possible. Rains prohibit work, so we need forecast of about one week without rain to complete the earth work. Planting is scheduled for this fall.
- At the project coordinators meeting, a map of the watershed was received from IDNR. Practices installed through the project were to be drawn on the map and sent back to IDNR for updated FIS maps. Since our projects are still pending, and only one project funded by Imagine

Grinnell and one funded by the City could be considered for physical practice placement. Behavior and I&E practices such as rain barrels, not feeding waterfowl, increased storm sewer trap cleaning, etc are difficult to place on the map. The map has been used to show the committee what practices are scheduled for implementation and what is left to do during FY2005. After the POO and Budget are completed next month the map with completed practices and those pending for FY2004 will be sent to IDNR. This was explained to Chris Van Gorp in an email.

Information & Education Activities

- The Arbor Lake Monitoring Team met June 2 with all 5 members present. We discussed and made revisions to the IOWATER Mini Grant proposal to fund a promotional campaign in Grinnell. The campaign is primarily to make residents aware of the Team's efforts, the importance of water quality monitoring, and recruit new members. We planned a benthic macroinvertebrate sampling on July 12 & 13. Team members will meet at Arbor Lake and sample all sites together. We feel a more accurate sampling of macros can be accomplished with 5 people together than each individually.
- June 24, Greg Harris, IDNR Wildlife Depredation Officer, presented a video "Urban Goose Management – Finding a Balance and answered questions. The Forum was advertised in the Grinnell Herald Register June 21 and highlight in an article June 17. Promotions were given on the 2 local radio stations (both called Mr. Harris for interview before the presentation) and local GET19-TV. Posters were displayed in a few downtown businesses, emails and letters were sent to committee and project groups. The night of the Forum, six people attended, 5 were "new" people, 2 Watershed Board members. Brochures were made available at the entrance (Rain Gardens, Rain Water Audit, Arbor Lake Watershed Project Overview, Lawn Care for Lake Care, How to Make a Rain Barrel, IOWATER training schedule). Most everyone took some. There was a much discussion about the geese in Grinnell, not only at Arbor Lake, but Lake Nyanza, farm ponds, and the golf course as well. Geese move freely between sites in the city and just outside the city were they land in ponds and feed in crop fields. It was agreed that the resident goose population is not large, but they act as a draw for a large number of migrating waterfowl that stay all winter. Some of the questions involved the harmful effects of the large winter population on Arbor Lake, what can be done to discourage migrating birds from staying, and what legalities are involved. Mr. Harris will continue to monitor the area for problem goose population.
- Collected water quality data at Arbor Lake site and fertilizer trial plots. Applied fertilizer to plots. One set of plots could not be found after fertilizer was applied. This set was place within a side hill seep which may have contributed to their demise along with lawn mowers that got stuck there. I never found pieces as if mowers pulled them out, however. I have looked several times for about 1 hour each time and could find no evidence. I continue to sample the two remaining sites after rain events. Each plot was sampled for pH, phosphorus(P), NO₃, NO₂, and color. This has been reduced to pH and P since the question is how much P is contributed from lawn fertilizer to rain water runoff in the area and what is the effect of P on grass growth/appearance.

- Other information included in the newspaper article June 17 included an update on riffle/pool construction, Rain Water Audit, Soil testing, city code regarding grass clipping, and IOWATER monitoring training.
- In May, the Grinnell Middle School 7th grade collected water quality data at Arbor Lake and its tributaries. I had asked the Biology teacher to share this information and was assured that it would be. In June, I emailed her a reminder but have not heard back yet.

Practice Installation Activities

- As a memorial to Mark Hudson, Imagine Grinnell has installed a prairie restoration forb planting at the south end of Arbor Lake near the dam (see attached map). I occasionally check on the progress of the inter-seeded forbs. My last observation was that it needs to be mowed and the heavy clippings removed to encourage seedling growth.
- On the west edge of Arbor Lake, a gully has formed and 2 head cuts are present along it from runoff originating in the agriculture crop fields directly above. The area within the city property was surveyed by Malcom staff (project coordinator and 2 NRCS technicians). A shallow water wetland is being designed for the area to stabilize the gully. Construction is planned for the fall 2004 or early spring 2005. Funding will be from FY2004 budget. Application was approved by the Commissioners' during their June meeting along with that for a storm sewer interceptor at the Washington Avenue parking lot (north end of lake).
- Cropland up stream from the west gully wetland was subject to a status review in 2004. The DC in Malcom is working with the landowner to ensure compliance with his Conservation Plan. The plan addresses the area draining toward the gully.
- The Storm Water Erosion Control Plan for the Grinnell/Newburg High School construction site has been completed. The construction manager is in the middle of changing and further progress is detailed. The superintendent gave me the name of contacts from the school.
- I visited with Ann Brau, Ag science teacher at Grinnell/Newburg High School. Her students complete a Rain Water Audit for the school the spring before summer break. Ann has not been back to the school to look at the data, but will bring it in when she does so we can evaluate it. We will continue to discuss changes her students can measure during construction next school year.
- Lion's Park in the north end of the watershed had been a consideration for a wetland or water control practice in the project proposal. I visited the site with Doug Morningstar, NRCS area engineer and Ray Drewelow, Malcom CT to evaluate it for possibilities. Doug did not recommend the site for either practice.
- Early in June I left a phone message and an office message to talk with Loren Dostal, contractor for the riffle/pools. He returned my call about one week later. He plans to begin work in July. Later that week while discussing this with Grinnell City Manager, Russ stated that the city hoped for dryer weather that what we have been getting to avoid ripping up the land along

the stream in the cemetery. During construction the streambank will be pulled back and the extra soil will be moved off-site with dump trucks. The truck traffic will certainly cause damage to the traveled area. The city may need to go forward with the project regardless of idea weather.

- The riffle/pools placement markers were measured and installed last fall with the expectation of a fall installation. However, due to rain and winter installation of the riffle/pools has been delayed. During the spring a summer mowing most of the markers have been lost. I walked the area recovering a many as possible (about one per reach) and discussed their importance with the city. The markers will need to be re-measured and re-installed before construction begins.

Arbor Lake Watershed - Grinnell, Iowa

Poweshiek SWCD



Date: 07/15/2004



Legend

- StormSewerInterceptor
- proposedwetland
- westgully
- HudsonPrairie
- watershed boundary



500 0 500 1000 Feet

Arbor Lake project to offer presentation on geese, ecological balance on June 30

The Arbor Lake Watershed Project has organized a presentation entitled "Urban Goose Management: Searching for Balance," which will be held Wednesday, June 30, at 6:30 p.m. at the Veterans Memorial Building in Grinnell.

Arbor Lake and Lake Nyanza have a large population of geese which stay year-round. They affect the water quality of the lakes, as well as the landscape and public land use.

Greg Harris of the Iowa Department of Natural Resources Wildlife Depredation will be here Wednesday to show a video dealing with urban goose problems. He will offer suggestions for what is within city and public control for managing geese, and answer questions.

In related news, a system of riffle pools will be constructed on the two northern tributaries to Arbor Lake this summer, and the banks will be seeded to short native grasses and wildflowers. The work, originally scheduled for the fall, was delayed by heavy rainfalls in November, and again this spring by the contractor's agricultural tiling commitments.

These structures will protect the lake by stabilizing the stream banks and channels, and the native vegetation filter strips along the stream will filter rain water as it flows into the streams.

The stream areas contribute an estimated average of 115 tons of sediment to the lake each year. After the installation of the riffle pool systems, it is predicted that the average sediment delivery to the lake will be reduced to about three tons a year.

Again this season, the Arbor Lake Watershed Project will be conducting rain water audits and soil testing for local residents.

By taking a few simple measurements around your property, you can receive a calculated evaluation of rain water run-off and retention on your property. Having your soil tested will let you know how much added nutrients are enough – and not too much – to keep your lawn healthy and keep

excess nutrients out of Arbor Lake.

The water audit is free by appointment. The soil testing is \$10 from the Iowa State University Soil Testing Lab, ISU Extension, but representatives of the watershed project will collect the sample and mail it for you. Call 641-528-2065, ext. 113, for more information.

Residents are also reminded that the Grinnell City Code prohibits the leaving of grass clippings on sidewalks and streets: remember to blow them onto the lawn as you mow. Grass clippings left on hard surfaces such as driveways, streets, sidewalks, patios and decks are washed by rainwater into storm drains and into Arbor Lake. They harm the lake by adding nutrients that increase algae bloom and produce a foul odor.

If you do not live in the Arbor Lake Watershed, which drains roughly the southwest half of Grinnell, then you live in Bear Creek, Rock Creek or another watershed that is also impacted by grass clippings.

Anyone interested in learning how to be a volunteer water quality monitor to check water quality in a creek, pond or lake near them can take a \$25 workshop from IOWATER. The 1.5-day workshop will provide the knowledge and equipment needed to analyze the chemical, biological and physical conditions of surface water.

Additional training opportunities for the 2004 season are July 9–10,

Burlington, (319) 753-5808; July 16–17, Lewis, (712) 243-6665; August 13–14, Ida Grove, (712) 264-3300; and Sept. 10–11, Elkader, (563) 245-1713.

The Arbor Lake Watershed Project was developed by Imagine Grinnell and is administered by the Poweshiek Soil & Water Conservation District. Funding is provided in part by the Iowa Department of Agriculture and Land Stewardship–Division of Soil Conservation, and by the Iowa Department of Natural Resources under a Federal Non-point Source Management Pro-

Pl

Meet

Special council n

Grinnell's City Council special session Saturday, June 26, 8 a.m. in its chambers on the second floor of the Grinnell Courthouse.

The council plans to introduce candidates for the city's fire commission.

Technical Assistance by the USDA Natural Resource Conservation Service.



Come Help Ralph Eyberg Celebrate his 51st Birthday, Saturday June 26th, 2004 at Eyberg Landscape Nursery, 5th & Penrose south of Grinnell Implement in Grinnell.

50% off Nursery Stock w

for ONE DAY ONLY! 9 am to 5 pm
Free Cake & Refreshments While it Lasts

Eyberg Landscape Nursery

5th & Penrose, Grinnell • 641-236-6836

Educator Awards–

continued from page 1

The Chamber award is based on community involvement, taking into account participation in community organizations and community services, recognition and awards, and involvement in education activities, in addition to teaching assignments.

Nominations will be accepted through July 15.

Forms are available at the Chamber office at 833 Fourth Ave.



.1 million erve program

prior to the applicant entering in GRP. To participate in GRP, offers must be private land that includes at least 40 contiguous acres. Additional information

McNally's



**HORMEL NATURAL CHOICE PORK
FRESH NATURAL PORK**

- No added hormones
 - No artificial ingredients
 - No injections of saline and preservatives
- Cut fresh at McNally's every day.



**USDA CHOICE ANGUS 1
Cut fresh at McNally's every day
HAMBURGER**

Ground daily from fresh
Choice Angus Chuck Roast
Call us for special orders.

1021 Main

(641)236-3166

Grinnell

Sponsored by The Grinnell Area Chamber
of Commerce, For Information, call 236-6555

Sunday, July 4th & 11th

WE LOOK FORWARD TO SEEING YOU!

3 NEW Salads!

The Chicken Caesar: Chicken, Romaine Lettuce, Shredded Parmesan Cheese and Croutons.

The Chicken BLT: Chicken, Romaine and Spring Mix Lettuce, Bacon, Swiss Cheese, Green Onions, Cucumber, and Red Wine Vinaigrette.

The Greek: Romaine and Spring Mix Lettuce, Roma Tomatoes, Kalamata Olives, Feta Cheese, Red Onions, Cucumber and Greek Dressing.



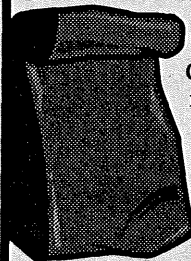
Dine In • Carry Out
Open Daily 5-11 pm

236-5331

816 Fifth Avenue



Time to dump the old bag.



Tired of always brown bagging it? Come and See us for Lunch! With fresh, delicious food served fast, why clown around for lunch? Let us serve you!

Varsity News Stand Back Alley Deli

917 Broad St. • 236-3010

The Grinnell
Herald-Register USPS
230-080

Monday, June 28, 2004
No. 26

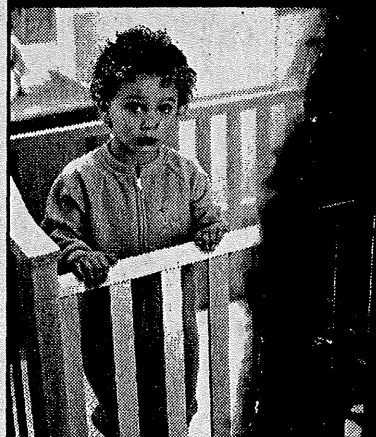
Published Mondays and Thursdays by the Herald-Register Publishing Company, 813 Fifth Ave., Grinnell, Iowa 50112.

Annual subscription price - Poweshiek County, \$41.50; Iowa, non-Poweshiek, \$44.50; other U.S., \$47.50.

Entered at the Post Office at Grinnell, Iowa, as periodicals under Act of Congress, March 8, 1979.

Periodical Postage paid at Grinnell, Ia. Postmaster: Send address changes to Grinnell Herald-Register, P.O. Box 360, Grinnell, Ia 50112.

Love alone
didn't save her.



Practicing fire safety did.

PREPARE. PRACTICE.
PREVENT THE UNTHINKABLE.

For a free Parents' Guide,
visit www.usfaparents.gov



In partnership with
AMERICAN ACADEMY OF PEDIATRICS • NFPA •
NATIONAL SAFE KIDS CAMPAIGN • ZERO TO THREE

Urban Goose Management: *Searching for Balance*

Wednesday, June 30, 6:30 p.m.

Veterans Memorial Building, Grinnell

Arbor Lake and Lake Nyanza have a large population of geese which stay year round. The geese affect water quality, as well as landscape and public land use. Greg Harris, Iowa Department of Natural Resources Wildlife Depredation, will show a video dealing with urban geese problems. Then he will offer suggestions for what is within the city's and public's control for managing geese, and answer questions.



Please post/announce the following on your community activity calendar or with your "bulletin board" announcements.

Thank You!

Judie Krebsbach project coordinator

Arbor Lake Watershed Project

Arbor Lake Watershed Project

Is holding a **Special Event:**

URBAN GOOSE MANAGEMENT - SEARCHING FOR BALANCE

June 30, Wednesday at 6:30 PM in the Grinnell Memorial Building

Greg Harris, Iowa Department of Natural Resources Wildlife Depredation, will show a video dealing with urban goose problems. Year round goose populations are increasing all over Iowa. Water quality of our lakes is affected by them as well as landscape and public land use. Mr. Harris will also offer suggestions for what is within the city's and public's control for managing geese and answer your questions.

To contact the Arbor Lake Watershed Project for more information, please call: 641-528-2065 Ext 113
at the Poweshiek Soil & Water Conservation District Office, Hwy 63 North, in Malcom.

The Arbor Lake Watershed Project was developed by Imagine Grinnell and is administered by the Poweshiek Soil & Water Conservation District. Funding is provided in part By the Iowa Department of Agriculture and Land Stewardship-Division of Soil Conservation and by the Iowa Department of Natural Resources under a Federal Non-point Source Management Program (Section 319 of the Clean Water Act). Technical Assistance is provided by the USDA Natural Resources Conservation Service.

Arbor Lake Watershed Project



Special Event:

URBAN GOOSE MANAGEMENT - SEARCHING FOR BALANCE

June 30, Wednesday at 6:30 PM in the Grinnell Memorial Building

Greg Harris, Iowa Department of Natural Resources Wildlife Depredation, will show a video dealing with urban goose problems. Arbor Lake and Lake Nyanza have a large population of geese which stay year round. Water quality is affected by them as well as landscape and public land use. Mr. Harris will also offer suggestions for what is within the city's and public's control for managing geese and answer your questions.

To contact the Arbor Lake Watershed Project for more information, please call: 641-528-2065 Ext 113
at the Poweshiek Soil & Water Conservation District Office, Hwy 63 North, in Malcom.

The Arbor Lake Watershed Project was developed by Imagine Grinnell and is administered by the Poweshiek Soil & Water Conservation District. Funding is provided in part By the Iowa Department of Agriculture and Land Stewardship-Division of Soil Conservation and by the Iowa Department of Natural Resources under a Federal Non-point Source Management Program (Section 319 of the Clean Water Act). Technical Assistance is provided by the USDA Natural Resources Conservation Service.

Arbor Lake Watershed Project

Commissioner Report: July 15, 2004

- Month Report - Please review and sign. Thanks!
- 3rd Quarter Report – this reflects the Plan of Operations for FY2004. Some changes (indicated in red ink) have been made due to completion timing and the number of units. Please review and sign. Thanks!
- Thank you Duane for attending the Committee meeting June 24. I felt it was productive. The results are the Plan of Operation and Budget FY 2005. You have copies. Please review – Changes? Approval? Please sign letter. Thanks.
- Urban Geese presentation by Greg Harris, IDNR Wildlife Depredation Officer was attended by 6 people all men. Only one had been present for presentation through the project before and 2 were Arbor Lake Watershed Board members. Greg had a good video that answered many of questions they had about managing geese in town. They left with positive attitudes even if they didn't come with one.
- No installations yet. I continue to question the city.
- The wetland to stabilize the gully on the west side of the lake has been surveyed and Ray is working on the designs. They may need to be checked by Doug Morningstar.
- The Arbor Lake IOWATER Monitoring Team sampled macroinvertebrates in the 2 north tributaries, gully, and the lake outlet stream this last Monday and Tuesday. In the NW trib, 16 species (families) were found. This is more than some of the best IOWATER sites have recorded. Some of the species we found indicated high water quality. The riffle/pool installation will impact this but we feel they will return and may be better in the future. The NE trib had low diversity (not many different species) and most were indicators of polluted water quality. The gully had few species due to low water levels. The outlet stream had good diversity with two or three species indicating high water quality, but most in the somewhat polluted water category. However, some were quite unique critters.
- Thanks! And have a good evening!!☺

July 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: July 1 – July 31, 2004

Date Prepared: August 19, 2004

Name of Prepare: Judith Krebsbach


SWCD Commissioner's Signature:

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

July Month Narrative Report
Reporting Period – July 1, July 31, 2004

Administrative Activities

- ★ After the Watershed Board meeting June 24, changes were needed in the FY2005 Plan of Operations and Budget. Documents were presented to the Commissioners and Board for approval and sent to DSC.
- ★ A report of project activities (attached) for last half of June and first half of July was presented to the Commissioners at their regular meeting July 15. The Month and Quarter reports and FY2005 Plan of Operations and Budget were reviewed and approved. There was no discussion about the project report.
- ★ Sent copies of the Month and Quarter reports to Area Office and Board members.

Information & Education Activities

- ★ Tested pH and phosphorus levels for the fertilizer plots north of the lake in the cemetery. Results are indicating that the normal soil phosphorus levels are high with or without applied fertilizer. I thought that maybe the results were influenced by the presence of bugs in the water collection cups, but after preliminary comparisons, I don't think that is true. There seems to be no difference in phosphorus levels between water collection cups with bugs or without bugs.
- ★ Received the Pollution Prevention Plan from the high school. A new construction manager was hired and a contact person (Tom Johnson, assistant principal) will take position August 1. I will contact him after that date to discuss a construction site storm water erosion control demonstration.
- ★ I talked with a Grinnell resident along NE tributary as we were sampling for IOWATER macroinvertebrates. He is much in favor of the riffle/pools and anxious for work to begin. He seemed somewhat interested in IOWATER. I will get a brochure to him.
- ★ The IOWATER Team sampled macroinvertebrates in the NW and NE tributaries, and the Arbor Lake outlet stream June 12 and 13. Results were entered on the IOWATER reporting

website. We did our first Annual Super Sampling. All 5 members worked together to do a thorough job to collect and identify macroinvertebrates. Results were 17% high water quality indicator species, 49% middle water quality, and 34% low quality indicators. The highest species diversity was in the NW tributary with 16 species sampled.

- ★ I sampled the inlet/outlet sites around Arbor Lake for bacteria, but was not confident in the results. The samples may have been left too long before incubation, although they were kept cool. Results were not definitive. I will retest at a later date.

Practice Installation Activities

- ★ Doug Morningstar, Area 5 engineer, needed pictures of the storm sewer out along HWY 146 to help in designing a stabilization structure. The project is scheduled for FY2005 installation. The photos were taken July 1.
- ★ I gathered farming practice information for Ray Drewelow, Malcom CT, for the farm land above the proposed wetland to the west of Arbor Lake. This is needed for design.
- ★ Riffle/pool status: The Grinnell City staff call the contractor, Dostal Construction, several times before he responded. Mr. Dostal assured them that work will be completed by September.
- ★ Designs for the wetland west of the lake have been completed and presented to Grinnell City staff. Ray Drewelow and I met with Russ Behrens, city manager, Gordon Canfield, mayor, and Jan Andersen, water and wastewater superintendent to review the designs and answer questions. A contractor will be contacted as soon as possible to begin work. The cost estimate is below \$25,000 so it does not need to go out for bids. The area is planned for seeding in the FY2005 budget (late fall 2004), while the wetland construction is in FY2004 budget.
- ★ Bids for the stormsewer interceptor units at the Washington Avenue boat ramp were due July 29. The low bid will need to be accepted by the City Council before work begins.

Arbor Lake Watershed Project

Commissioner Report: July 15, 2004

- Month Report - Please review and sign. Thanks!
- 3rd Quarter Report – this reflects the Plan of Operations for FY2004. Some changes (indicated in red ink) have been made due to completion timing and the number of units. Please review and sign. Thanks!
- Thank you Duane for attending the Committee meeting June 24. I felt it was productive. The results are the Plan of Operation and Budget FY 2005. You have copies. Please review – Changes? Approval? Please sign letter. Thanks.
- ~~Urban Geese presentation by Greg Harris, IDNR Wildlife Depredation Officer was attended by 6 people all men. Only one had been present for presentation through the project before and 2 were Arbor Lake Watershed Board members. Greg had a good video that answered many of questions they had about managing geese in town. They left with positive attitudes even if they didn't come with one.~~
- No installations yet. I continue to question the city.
- The wetland to stabilize the gully on the west side of the lake has been surveyed and Ray is working on the designs. They may need to be checked by Doug Morningstar.
- The Arbor Lake IOWATER Monitoring Team sampled macroinvertebrates in the 2 north tributaries, gully, and the lake outlet stream this last Monday and Tuesday. In the NW trib, 16 species (families) were found. This is more than some of the best IOWATER sites have recorded. Some of the species we found indicated high water quality. The riffle/pool installation will impact this but we feel they will return and may be better in the future. The NE trib had low diversity (not many different species) and most were indicators of polluted water quality. The gully had few species due to low water levels. The outlet stream had good diversity with two or three species indicating high water quality, but most in the somewhat polluted water category. However, some were quite unique critters.
- Thanks! And have a good evening!!☺

August 2004 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

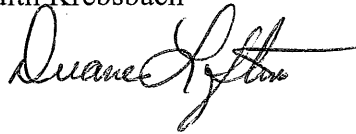
Soil and Water Conservation District: Poweshiek

Reporting Period: 1 August – 31 August 2004

Date Prepared: September 16, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "Duane R. Johnson", written over the text "SWCD Commissioner's Signature:". The signature is cursive and stylized.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 August, 31 August, 2004

Administrative Activities

- ★ The Commissioners meet at their regular meeting August 19 with all members present. Report for activities and accomplishments since the July 15 meeting was given. Report on progress to begin riffle/pools, storm sewer interceptor, and west wetland was given. The commissioners requested to be keep informed of progress as it happens before the next regular meeting.
- ★ The date for the Annual Review was set for September 27, 1:00 PM at the Arbor Lake Park shelter (City Council Chambers if bad weather).
- ★ Greg Townley, FO DC, found an old file for Arbor Lake. It contained copies of several old documents from the city, newspaper, and the Poweshiek County Conservation. They revealed that water quality at Arbor Lake has been a community concern for many years as far back as before 1940's and citizens of Grinnell have been involved with the lake voluntarily since the lake was created.

Information & Education Activities

- ★ The Arbor Lake Watershed Management Plan Draft was completed and copies were mailed to all Watershed Board members for review.
- ★ Liz Queathem, a member of the Arbor Lake Monitoring Team will be out the state for several months. She made arrangements with another Team member to collect data from her sampling sites for her until she returns in January.
- ★ Contacted Tom Johnson, assistant principal at Grinnell High School. He will be the site contact for the new construction project at the high school. We discussed establishment of the construction site as a demonstration for effective erosion control BMPs within the Arbor Lake watershed. He was able to permit touring the site BMPs after construction starts and practices are in place. Prior meetings with the school superintendent and construction engineers resulted in the inclusion of:

- ~ Compost filled socks instead of or in addition to the use of silt fences along the perimeter of the areas to be disturbed prior to beginning grading, excavation, or clearing and rubbing operations and around the perimeter of all stockpiled topsoil and soil from building excavation.
 - ~ Temporarily seeding of stockpiled topsoil, the use of mulch, plastic/tarps to prevent wind erosion and runoff.
 - ~ The use of a minimum amount of water to wet surface to control dust
 - ~ Placement of gravel at entrance/exit to prevent mud from spreading onto local streets.
 - ~ Special precautions to maintain equipment/vehicles to prevent leaks. Major maintenance, repairs, and washing will be performed off site. Paved surfaces will be cleaned using dry sweeping methods in preference to water.
- ★ Met with Sally Kiegel, 7th grade science teacher. She gave me the data her students collected at Arbor Lake last spring. One student compiled the data for each site in a summary report. All data was given to the Arbor Lake Monitoring Team to submit for their sites list the students as volunteers.
 - ★ Pick-up an Arbor Lake Watershed Project display board the students used as reference during their spring workshop days at Arbor Lake. Their teacher, Tom Dayton asked if the information on the board could be duplicated for the students use next spring. I will do this as soon as possible
 - ★ Met with Ann Brau, high school vocation agriculture instructor. He students conducted a Rain Water Audit for the high school last spring. She gave me their measurements and I will process it with the rain water audit program and return results to her. The measurements were taken before construction work began. Her students will perform measurements during and after construction work is complete so that comparisons can be made and suggestions for control of increased rain water run-off can be made.
 - ★ In June, the Arbor Lake Monitoring Team submitted an application for an IOWATER Mini Grant. We received notice of a \$1000 award on August 30. The project will begin in September 2004. A meeting of the Team will be held in September to begin the project.
 - ★ Collected water quality data for 3 sites and bacteria for 6 sites around Arbor Lake. Three of the bacteria sites were redone using ½ mL sample because general bacteria were too numerous to count with a 1 mL sample.

Practice Installation Activities

- ★ The contractor for the riffle/pool began work August 31. Before this there had been numerous phone calls from me and the city to impress the importance of completing the work. I had also talked with Becky Schwiette, IDNR, and Paul Valin, DSC, about the problem of the contractor not beginning work.

- ★ Met with Dr. Gerald Wilhelm, Conservation Designs Firm, and Chris Bair, Iowa Valley RC&D to discuss vegetation for plantings around proposed wetlands. We toured the proposed site north of the lake and the site west along the gully that designs are completed and wait for a contractor to accept the job.
- ★ Russ Behren's, Grinnell city manager, reported that the storm sewer interceptor designs are in the shop and are scheduled for completion the first of September.
- ★ The city has sent several contractors the west wetland designs, but no one has submitted an estimate yet.

RAINWATER AUDIT: Infiltrate More -- Shed Less for:

Grinnel/Newburg High School
1333 Sunset

A Guide for Arbor Lake Watershed Residential Lots
developed by the Johnson Co. Soil & Water Conservation District in consultation with:
ISU Extension, Natural Resource Conservation Service and Iowa Institute for Hydraulic Research

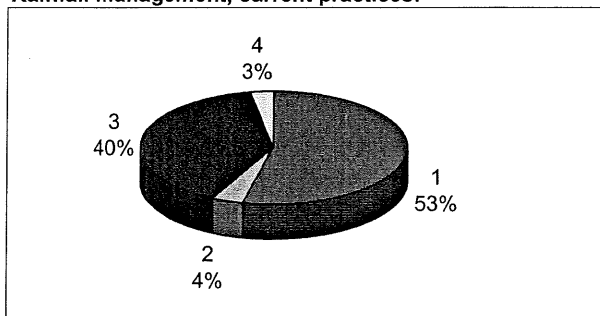
Please place answer to the following in the left column:

- 1332.8 1. Lot ave. width in feet.
1563.5 2. Lot ave. depth in feet, back boundary to street.
113000 3. Ground area covered by main school building
8726.8 4. Ground area covered by other buildings, in sq. feet (sheds, sports buildings, etc.).
31105.5 5. Surface area of parking lots and entrances in square feet.
18469 6. Surface area of walks, in square feet (walks typically are 4' wide).
313433 7. Square Feet of Other Hard-Surface areas (cement pads, ramps, track, etc).
0% 8. Percent of downspouts runoff lawn.
4 9. How many times per year is your lawn fertilized? (Not all of the lawn area is fertilized.)
2 10. Enter 1 if your lawn is aerated annually, 2 if alternate years, 0 if not aerated.
1.3 11. Enter permeability of your soil, only if known. (Typical range 0.6-2.0"/hr.)

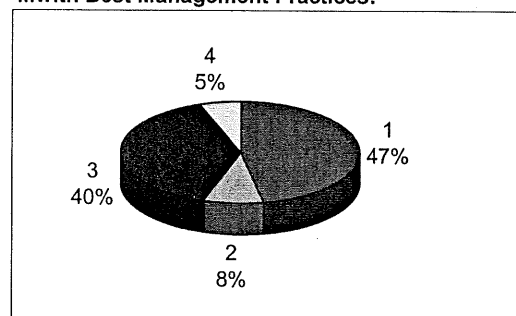
Your lot dimensions calculate to **2083832.8** square feet.
For each inch of rain, **1,298,922** gallons fall on your lot for you to manage.
You are managing **46,761,208** gallons of precipitation in an average year.
(An average urban household of three buys 72,000 gallons of "city water"/year.)
With your **484734.3** sq. ft. of roof and hard surfaces, **23%** of the lot is impervious.
Until your soil is saturated it infiltrates about **1.5** inches per hour, if not compacted.
However, rain from some of the impervious areas also goes onto the lawn, so rain in excess of **1.11** inches/hr. runs off without the practices described on back.
With your **46,761,208** gal/year rainwater, **23,006,615** gallons run off very quickly, often exceeding **324,731** gallons in 15 minutes. Adding the run-off from streets and neighbors, run-off requires major investment of your tax \$'s in storm system construction & maintenance.
For an area of 100 similar residences, including streets, **6029.6** cu. ft./sec. runs off.
Also, rapid run-off can take some recently applied fertilizers and pesticides with it.
If your lawn fertilizer rate is the typical 1 lb. Nitrogen/1000 sq. ft./application, around **3,198** lbs. of N may leave your lot each year in surface or ground water and/or bagged clippings and to the air -- equals loss of: **87** lbs. N/acre of lawn.

To improve infiltration and reduce run off, use the Best Management Practices described on the back of this printout. With these practices, including all downspouts into adequate recharger chambers, wetlands and/or rain barrels, your rainfall distribution would change as follows:

Rainfall management, current practices:



...with Best Management Practices:



- 1 = % of rainfall that runs off.
2 = % of rainfall infiltration added through aeration.
3 = % of rainfall, normal infilt. &/or evapotranspiration.
4 = % of rainfall infilt. with downspout management.

Arbor Lake and Tributary Monitoring Results

Boat Ramp/Storm Sewer

Date	Boat Ramp/Storm Sewer		NE Trib/1st Av		NW Trib/1st Av		East Trib		West Gully		Spillway		East SS	
	Gen. Coliform	E. coli	Gen. Coliform	E. coli	Gen. Coliform	E. coli	Gen. Coliform	E. coli	Gen. Coliform	E. coli	Gen. Coliform	E. coli	Gen. Coliform	E. coli
1-Oct-03	43200	0					14466	33			666	66		
14-Nov-03	17200	18000	17200	800			7866	233			1833	66		
6-Apr-03	6833	33	8800	0	4600	0								
9-Jul-04	800	0	4666	0	33	0	1033	33	2333	0				
23-Aug-04	42933	33	41600	100	17600	66	9400	0	5500	0	10500	0	8666	0



August 25, 2004

Judie Krebsbach
Arbor Lake Monitoring Team
405 Montezuma Hwy 63 N
Malcom, IA 50157

Dear Judie,

On behalf of the IOWATER program and its committee members, I'd like to congratulate you on your grant proposal – it's been accepted! We are looking forward to working with you, and hope you're as excited about this opportunity as we are. In order to get the stream flowing, we will need you to follow the steps below:

- 1) A blank invoice form has been printed on the back of this letter. **Make one copy of the blank invoice before proceeding.**
- 2) Please complete one invoice – bill us for *50%* of your total grant amount – and send it, along with the enclosed, signed contract, back to Jackie in the enclosed self addressed stamped envelope.
- 3) Upon receipt of your invoice, we will issue you a check so you may begin your project. *Please be patient with this step as the State of Iowa's new accounting system continues to be debugged.*
- 4) Upon completion of your project, please send us your mini-grant project report and the second invoice – bill us for other *50%* of your total grant amount – and send it to Jackie so that we may pay you in full.

If you have any questions regarding your grant proposal, please contact Jackie at 515-281-4476 or Jacklyn.Neely@dnr.state.ia.us.

Congratulations on your grant, and good luck!

Happy Monitoring,

Brian Soenen
IOWATER Coordinator

IOWATER Mini-Grant Application

Arbor Lake Monitoring Team

June 24, 2004

Arbor Lake is the largest and most significant public park and recreational space within the city of Grinnell. Once the focal point of the community, park use has diminished in recent years due to changes in lake ecology, water quality, and an overabundant goose population. Arbor Lake is listed on the Iowa Department of Natural Resources (IDNR) 2002 303(d) list as an impaired waterbody.

Imagine Grinnell, a small quality-of-life foundation, developed a grant proposal to improve Arbor Lake watershed. The proposal was funded through the IDNR and IDALS-DSC for EPA Section 319 funding and is currently administered by the Poweshiek Soil and Water Conservation District to implement both structural and educational Best Management Practices (BMPs).

The Arbor Lake Monitoring Team was formed September 2003 at the IOWATER training workshop in Grinnell. There are 5 members are Doris Hotchkin, Judie Krebsbach, Jean Perri, Liz Queathem, Gene Rohr. We have established baseline data to assess remediation efforts. We have submitted a Quality Assurance Project Plan to IOWATER (March 2004) and displayed a poster presentation at the 2004 Iowa Water Quality Monitoring Conference (February 2004).

Monitoring Arbor Lake is a large undertaking and expanding our team is essential to continue our efforts. We need to develop a stronger public presence and recruit partners to help monitor and further community efforts to improve Arbor Lake. We are applying for funds to support a promotion campaign for Grinnell residents to become IOWATER monitors and hopefully members of our team.

Our planned activities include:

Purchase vests and attach logo to wear while monitoring

Contact local (youth and adult) clubs, organizations, City Staff, and Council members offering presentations for their meetings and invitations to help us monitor

Provide scholarships to Grinnell residents for IOWATER training

Display sampling results posters quarterly in public places

Submit articles to Grinnell Herald Register promoting our activities

Advertise in the local shopper each month when we will be monitoring and invite people to help

Develop a sign for the Arbor Lake monitoring effort

Keep a photo journal of activities

Sampling Regime

Locations (see map)

1. Gully west of lake

2. Boat dock

3. Deepest part of lake

4. Two branches of North inlet stream at 1st Avenue

5. Two branches of North inlet stream at mid-reach

6. East inlet

7. Fishing jetty

8. Exit stream

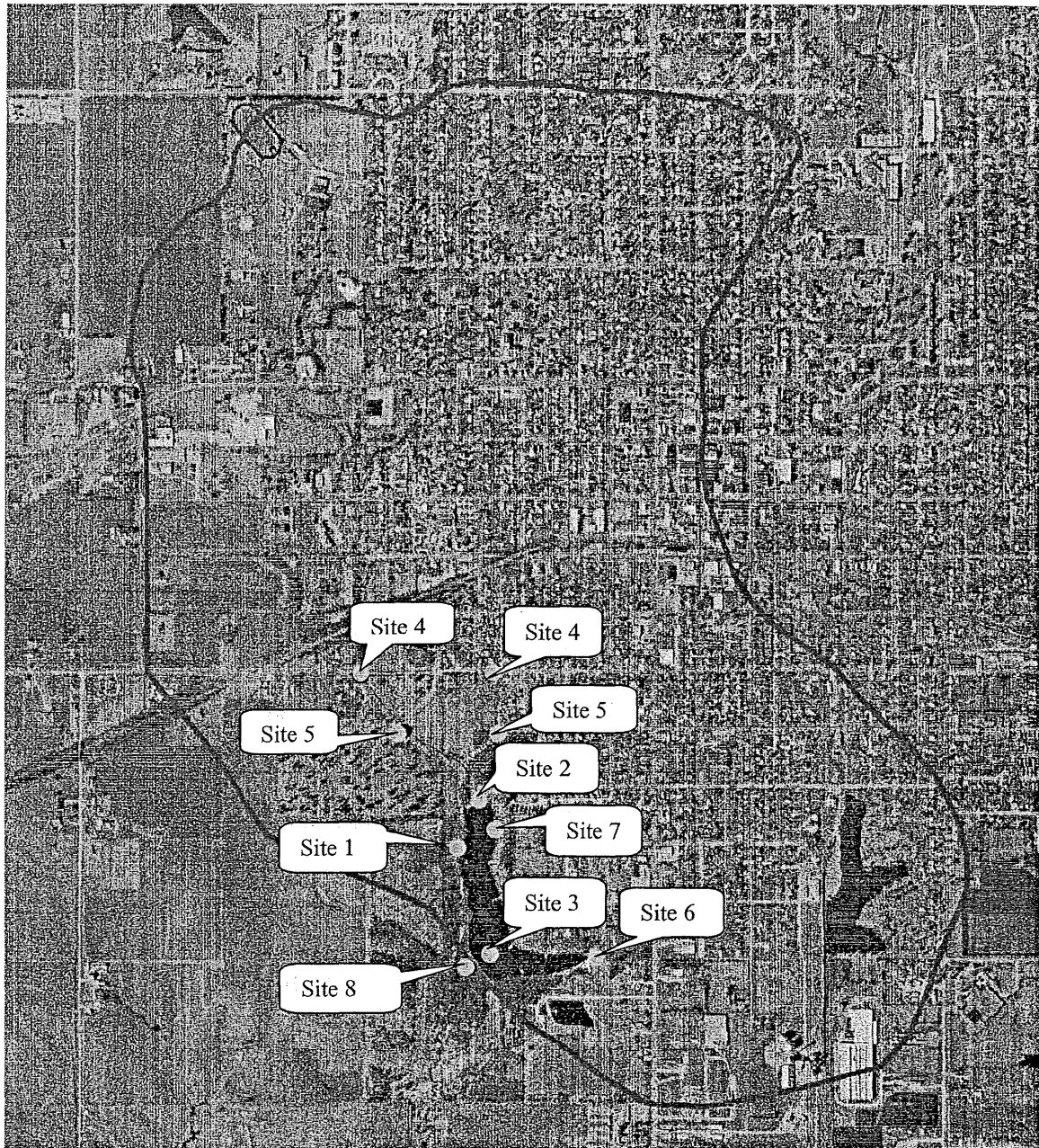
All IOWATER Physical and Chemical parameters will be sampled monthly. Biological parameters will be sampled 2 times per year.

Budget

Vests and name patches	\$ 120
Signs	\$ 300
Film and album	\$ 100
Advertising and promotion	\$ 430
Miscellaneous	\$ 50
Total	\$1,000

Arbor Lake Monitoring Team Sampling Locations

June 2004



Contest would bestow winning names on local creeks

Grinnell residents with an itch for immortality have a chance to attach names of their choice to four nameless creeks in the area, courtesy of the City of Grinnell.

The creeks include the two that run into Arbor Lake from the northwest (through Hazelwood Cemetery) and north, joining just above the lake's northern bridge; one that runs from Lake Nyanza into Arbor Lake; and one that runs south out of Arbor Lake.

The four top prizes in the citywide sweepstakes will be modest: plaques, adorned by an appropriate vial of water, indicating that the possessor is responsible for the name of a geographical feature.

"No name is out of bounds," say the "Name that Creek!" contest's jauntily written official rules. "No suggestion is too far out. No theme is too momentous or grand."

Submissions are due on Columbus Day, October 12, 2004, so chosen, according to the rules, because it is the "single date in the mental calendar of Americans that involves moving bodies of water."

Local banks, the city offices at 927 Fourth Ave., and The Grinnell Herald-Register will keep boxes for the submissions, which need only include one's name, address, phone number, and the name or names you are suggesting for each creek or creeks.

Each name is to be accompanied with an appropriate concluding word, such as creek, run, falls, river, stream, gulch, ditch, wash, waddi, cut, "or other descriptive term."

Suggested themes for the creeks' names include history, packages of four, whimsy, myth, local luminaries, water, geographical characteristics, or pretty much anything else.

The selections will be winnowed by the three members of the Public Works and Grounds Committee and by five members of an ad-hoc naming committee that has yet to be selected. The

NAMING WATERWAYS -

continued on page 5

Naming waterways -

continued from page 1

city council will make the final decision in time for the Mayor's Gala dinner on Oct. 22.

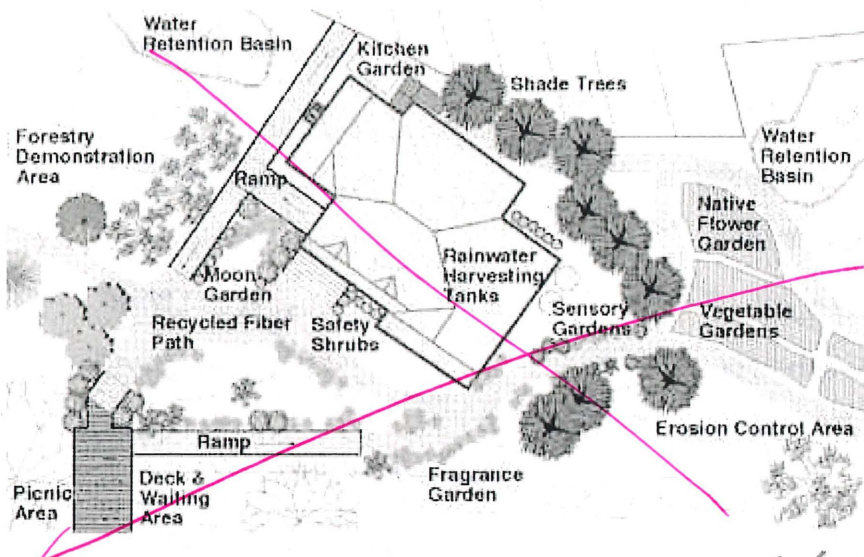
Only those who live within the City of Grinnell are eligible, but the rules sneakily suggest that if you don't live in the city, you get a friend to submit for you.

Though the city council, which approved plans for the contest Monday, was tickled pink to be involved in such an endeavor, one note of caution did arise. Did the city council actually have the authority to name a creek? If not, who did?

City Manager Russ Behrens said he wasn't sure. But he approached the question pragmatically.

"Even if nobody listens to us," he said, "we can call it whatever we want."

-ma



- Filter strips - Chris B. fabric asap - seeding after grazing
- Riffly pool complete
- no contractor for wetland
- SSI next week - Antons contractor
- 10WATER mini Grant - ^{public} awareness + recruitment
- Annual Review - Park shelves
juice + cookies
- Restructure of DSC
- informal Board meeting - 9:00 Boat Ramp

September 2004 Arbor Lake Watershed Project Month Report

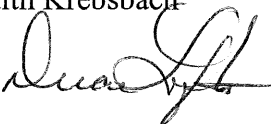
Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 September – 30 September 2004

Date Prepared: October 21, 2004

Name and Signature of Prepare: Judith Krebsbach

SWCD Commissioner's Signature: 

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 September, 30 September, 2004

Administrative Activities

- ☞ On September 17 the Arbor Lake Watershed Board met at Arbor Lake to tour the riffle/pools and other BMP locations. Grinnell residents are asking them about the sites. The tour gave them first hand information and increased their knowledge of the BMPs to be installed.
- ☞ The Commissioner met at their regular meeting September 16 with 3 members attending.
- ☞ The Arbor Lake Watershed Annual Review was held September 27 at the Arbor Lake Park shelter. About 15 people attended. GET12 TV from Grinnell filmed the Review and will air it the first week in October twice daily.
- ☞ I have taken another position and will be leaving the Arbor Lake Watershed Project October 8. This report will include all project activities to that date.

Information & Education Activities

- ☞ The Arbor Lake Monitoring Team met twice during the month. They prepared a report of the data they have collected over the last year of monitoring and their activities which resulted in the submission of a Quality Assurance Project Plan to IOWATER and the award of a \$1,000 IOWATER Mini Grant. The grant will finance recruitment campaign for their Team and a public awareness program of Arbor Lake water quality.
- ☞ The Grinnell middle school had loaned the project a CD of photos taken during the 7th grade Arbor Lake workshop. I used these in the report (see attachment).
- ☞ The project had provided a display to the middle school during their Arbor Lake workshop to help explain Arbor Lake's problems to the students. The display was left with them to use as a reference.

- ☞ The Arbor Lake monitoring Team meet with Imagine Grinnell to discuss partnering to administer the IOWATER Mini Grant. The Team is not an official not for profit organization. Therefore, they can not accept the grant money. A not for profit organization such as Imagine Grinnell needs to take delivery and deposit it in an account for the Team. The Team would be responsible for all activities, report, etc. The director will present the proposal to the Imagine Grinnell Board and return to the Team.

Practice Installation Activities

- ☞ Wednesday, September 1, bank shaping on the NW and NE tributaries to Arbor Lake began. It was completed Friday, September 3.
- ☞ Tuesday, September 7, riffle/pool construction work started. It was completed Thursday, September 9. A report is attached.
- ☞ Met with Chris Bair, Iowa Valley RC&D to discuss the native planning/plugs along the riffle/pool area. Seeding with oats/rye was complete September 17 to help stabilize bare soil on the banks as soon as possible. Native seeding will be done as a dormant seeding after the growing season. We discussed different ways to protect banks and seed during the winter and next spring: fabric or rock along the stream edge or compost. Hydro-seeding with a tactative was also mentioned. We discussed these options with September 22 with Jan Andersen from the city staff. It was decided to look for a hydro-seeder as the first choice and use fabric as a second. It is best to wait until after the growing season or seed may germinate, but because they are so small and fragile, they may winter kill. Some seeds will need a freeze/thaw to germinate. The city of Grinnell will mow the seed area during the first year – 2005 and early spring 2006. The stand will be evaluated summer 2006 and further treatment decided.
- ☞ I stopped by the city offices to discuss the problem of finding a contactor for the west wetland. We reviewed 2 lists of contractors from Poweshiek, Jasper, and Tama counties that may be possible to get. Jan Andersen will contact them.
- ☞ Talked with Becky Schwiete, IDNR, about riffle/pool cost share. We did not received the bills from the city before the Commissioners meeting September 16, therefore, they will not be sent to DSC/DNR before October 21, the next Commissioners meeting. This will also be true for the storm sewer interceptor (ssi), which is scheduled to be installed October 4-6. The prairie seed/plugs will not be planted until late October or November. Vouchers for these practices will not be sent to DSC/DNR until after FY2004 closes. It was decided to move the ssi, planting, and west wetland to FY 2005 to avoid confusion.

Contest would bestow winning names on local creeks

Grinnell residents with an itch for immortality have a chance to attach names of their choice to four nameless creeks in the area, courtesy of the City of Grinnell.

The creeks include the two that run into Arbor Lake from the northwest (through Hazelwood Cemetery) and north, joining just above the lake's northern bridge; one that runs from Lake Nyanza into Arbor Lake; and one that runs south out of Arbor Lake.

The four top prizes in the citywide sweepstakes will be modest: plaques, adorned by an appropriate vial of water, indicating that the possessor is responsible for the name of a geographical feature.

"No name is out of bounds," say the "Name that Creek!" contest's jauntily written official rules. "No suggestion is too far out. No theme is too momentous or grand."

Submissions are due on Columbus Day, October 12, 2004, so chosen, according to the rules, because it is the "single date in the mental calendar of Americans that involves moving bodies of water."

Local banks, the city offices at 927 Fourth Ave., and The Grinnell Herald-Register will keep boxes for the submissions, which need only include one's name, address, phone number, and the name or names you are suggesting for each creek or creeks.

Each name is to be accompanied with an appropriate concluding word, such as creek, run, falls, river, stream, gulch, ditch, wash, waddi, cut, "or other descriptive term."

Suggested themes for the creeks' names include history, packages of four, whimsy, myth, local luminaries, water, geographical characteristics, or pretty much anything else.

The selections will be winnowed by the three members of the Public Works and Grounds Committee and by five members of an ad-hoc naming committee that has yet to be selected. The

NAMING WATERWAYS –

continued on page 5

Naming waterways –

continued from page 1

city council will make the final decision in time for the Mayor's Gala dinner on Oct. 22.

Only those who live within the City of Grinnell are eligible, but the rules sneakily suggest that if you don't live in the city, you get a friend to submit for you.

Though the city council, which approved plans for the contest Monday, was tickled pink to be involved in such an endeavor, one note of caution did arise. Did the city council actually have the authority to name a creek? If not, who did?

City Manager Russ Behrens said he wasn't sure. But he approached the question pragmatically.

"Even if nobody listens to us," he said, "we can call it whatever we want."

-ma

September 9, 2001

Around the Town



The names are flowing in for the creek-naming contest. Many of us have had a personal experience or memory of the four creeks which flow into and out of Arbor Lake, now to be dignified by real honest-to-goodness names.

These tiny bodies of water actually are so small as to be almost imperceptible, especially in a dry season.

Reality is one option, of course, but flight-of-fancy names are not ruled out.

In fact, the more creative the better, considering the long unrecognized existence of these tiny streams which throughout their lifetimes, depending on the vagaries of the seasons, have so consistently fed into Arbor Lake and, in one case, out again.

No name is out of bounds, say the rules proposed for the naming project which is open until Oct. 12, Columbus Day, "the single date on the mental calendar of Americans that involves moving bodies of water," according to the rules.

The winner is to be announced Oct. 22 at the Mayor's Gala sesquicentennial dinner.

And in fact, history well could play a role in the naming process.

Of the four creeks, two join in Hazelwood Cemetery to flow into the north end of Arbor Lake, one flows west from Lake Nyanza through south Grinnell to Arbor Lake and one flows out of the southwest end of the lake.

Myth and legend accompany some of the creeks. The west-bound creek in south Grinnell which ran

through a pasture once harbored a small frog pond and happy playground for neighborhood children. It also was reputed to have attracted hoboes, those "knights of the road" one hardly sees any more.

The name of Lake Nyanza itself is fanciful, according to ancient history (dating from the 19th century, that is). According to two sources in the book "In Old Grinnell," the name may have been transferred from Africa, specifically an area in Rawanda on the shore of Lake Victoria and also a town in Zaire. One of the sources of this information claimed that an itinerant binder at the former Grinnell Herald book bindery "with more names than one man ought to have at one time," according to the publisher at the time, suggested the name, actually implying questions about his credibility.

Arbor Lake was thusly named after numerous citizens contributed funds to plant its now-mature trees.

So it is not out of bounds to reach for the stars for names. In fact, it is an opportunity and a challenge for all of us to attach nomenclature to these bodies of water referred to variously in the original description of the project as creeks, runs, falls, rivers, streams, gulches, ditches, washes, waddis, cuts or "other descriptive terms."

Entries are to be submitted to boxes at local banks, the city office and the Grinnell Herald-Register. So when the entries are unfolded to be judged by city council members and an *ad hoc* naming committee, let us have names to enchant us all.

BZ

Bus

COUNTRY INN U
MANAGEMENT: Rick
president of Hospitality
of Duluth, Minn., has
purchase of the Countr
Grinnell, effective Aug

In making his a
Hayman, who serves a
erations manager, state
Investors was fortunat
purchase this highly
adding that he is "esp
with the high quality o
employees."

Faith Bloomer, wh
general manager forth
will continue in the po

According to Hayn
plans to evaluate occ
over the next few mon
the feasibility of addit
and a fitness center fo

The Grinnell loca
closely with other Hos
lodging facilities in I
currently owns and c
Inn & Suites in Ame
and AmericInns in A
and Coralville.

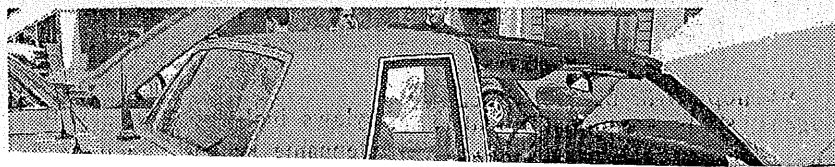
In addition to its
Hospitality owns C
Brainerd, Walker an
and AmericInns
Menominee, Mich.

GRINNELL MU
TO WARD'S 50
GROUP: For the se
year, Grinnell Mu

Plan a to atte

Well, the ground
now the dirt work b
Grinnell-Newbu
officials remind far
School that — du
currently under con
school campus —
facilities will take

"People need to
is going to be a ch
school for all of o
Superintendent Da
they will probabl



September 16, 2001

Small Arbor Lake feeders in search of their identities

City planners and concerned citizens have been paying a lot of attention to Grinnell's Arbor Lake in recent years, mainly because the once-pristine body of water has earned a bad reputation for being corrupted by siltation and pollution.

The problem, as we've been reporting for some time now, is the direct result of urban runoff. Arbor Lake's watershed isn't from agricultural land, as are most lakes and ponds around the state, so the focus has to be on what's draining into it from the city itself.

Scientific studies have been conclusive in this regard, and there are some solid plans to improve the situation. One of those efforts has to do with reducing the influx of silt by engineering some gentle changes to the streams that feed the lake.

If you drive down First Ave. by Hazelwood Cemetery, you can see the early results. Two of the streams now feature structures called riffle pools, which ease the flow of water and reduce the soil erosion along the streams' banks. That means less siltation. When the water reaches the lake, it's clearer. That means there's less topsoil adding to silt that's already reduced the lake's depth dramatically.

So these small streams, once merely conduits for eroded soil and other pollutants, are being rehabilitated so that they'll be supplying Arbor Lake with healthier water. That's great news. And it's nice, too, that with the improvements will come a real identity for the streams.

Officially, those creeks seem never to have been named. They've just been anonymous trickles of water until now. But constructing the riffle pools, in City Manager Russ Behrens's words, "just makes those creeks so much more interesting." He's right. And now the city is holding what's being called a "Name That Creek" contest for local residents. It's a great idea, because it not only means that the streams will have real identities, but it also calls attention to the overall improvement work underway at Arbor.

How do you name a creek? Iowa's rivers and streams sport all sorts of names, many of them reflecting the state's Native American heritage, others identified because of their habits—a skunk, say, or a raccoon.

So Grinnellians have an opportunity to be really creative in naming these now-anonymous creeks. It's a challenge, we admit, but it's also a lot of fun.

So be creative.

We can all look forward to the announcement of the selected names.

Vilsack's school-merger idea needs thorough discussion

Gov. Tom Vilsack touched on a controversial subject the other day when he told a group of Iowa school superintendents that it's time to get serious about merging the state's smaller school districts in order to improve performance, increase exposure to advanced courses and provide better pay for Iowa teachers.

The governor's argument is persuasive one, but residents and school officials in many of the state's smaller districts also have some logic on their side when they insist on retaining their local identity.

Vilsack's suggestions are based largely on recommendations made by the Iowa Learns Council, a panel formed to address educational improvements in the state's public schools. That group also suggested a stronger effort in the area of early childhood, strengthening the curriculum for high school students and forming a stronger school-business partnership—all excellent ideas with which few Iowans would quarrel.

It's the merger idea that raises a red flag for many.

There's no doubt that a larger school district can provide a broader curriculum for its students. A small district with only a couple of hundred students simply can't afford to offer gifted students advanced language courses. The five-

Th
year.
tion A
memt
which
Thoug
thought
from c.
The l
sure tha
for post
states th
grant m
use gran
as \$100
tion. Sta
subject t
certain st
reforms e
the bill dc
at most, b
It is a re
can do by
execution.
long prison
imagine th
offering st
better. —

Entit
own
but
own

To the ed
In a le



White flag signifies a truce, but there could be tough sledding ahead for Values Fund

by TODD DORMAN

Gov. Tom Vilsack picked a NASCAR analogy to describe last week's special legislative session.

You'd think he would be more comfortable talking about Henry Wallace than Rusty Wallace. Who knew?

He said in the three months since the Iowa Supreme Court dismantled the Iowa Values Fund state leaders had been running under a yellow caution flag. Its economic growth programs had all but run out of money and its political leaders were locked in an unending stalemate.

Capital Update

But with the passage last week of stop-gap legislation to pump \$100 million into development efforts for the next few months, Vilsack argued that the green flag had dropped once again on efforts to create jobs in Iowa.

But in reality, it was a white flag of truce that waved over the Statehouse.

Republican legislative leaders and Vilsack blearily stumbled from their trenches, shared a few tense hours in no-man's land and scampered back through the mud to their positions.

They did not reconstruct the \$503 million values fund. They delayed that complex, contentious debate until January.

And some Democratic lawmakers, union leaders and trial lawyers argue Vilsack waved a flag of surrender.

Vilsack agreed to accept a sizeable two-year, \$87 million tax break for businesses seeking to deduct equipment depreciation costs. He also took changes to the workers compensation system that will mean a cut in benefits for workers who are injured two or more times on the job.

Democrats and their allies contend the state can't afford a tax giveaway when schools, Medicaid and other programs are still wrestling with budget woes. And Union leaders argue that

place injuries.

And it's likely some of those critics will file yet another lawsuit in this saga, arguing that Republicans violated the constitution by packing the workers' compensation changes and several other unrelated provisions into a single bill. Opponents call that "log-rolling" and will ask a state court to void the bill.

Republicans contend they'll win that legal challenge, arguing that previous court rulings have given lawmakers broad latitude in crafting legislation. And GOP leaders argue that the tax breaks and workers' compensation "reform" will make Iowa's business climate more attractive and competitive.

But the truce between Vilsack and Republicans won't hold. It only postponed some big fights that lie ahead.

Election Day will set the ground rules. If Democrats can beat the odds and steal control of the House or Senate or both, Vilsack will have a much easier time reviving the values fund. He wants permanent, long-term funding and loosened rules that don't tie the hands of development leaders hunting big jobs.

But if Republicans, as expected, hold on to their House and Senate majorities, Vilsack faces tougher sledding. A core group of Senate Republicans have opposed the fund from the start and confounded efforts to revive it last week.

It's likely Vilsack again will be faced with the prospect of accepting income tax cuts and pro-business regulatory changes he opposes to get the values fund he cherishes. Vilsack used line-item vetoes to blunt that strategy a year ago, but the Supreme Court ruled that he overstepped his executive authority.

Republicans are sure to be emboldened by that ruling, and by the fact that Vilsack is now running the last laps of what he says is his final term.

There's probably one big question on the governor's mind.

What would Dale Jr. do?

Todd Dorman is Statehouse bureau chief.

by a lopsided vote, 357 to 67, last s to oppose the Innocence Protec- y Committee's conservative anage to stall the larger bill of ough DNA Technology Act. inue marking up that bill . . . and support in the full Senate, it is far o a vote.

atter of consensus. It would make is preserved and made available ment purposes. To encourage ting, the bill would tie some of the f reasonable rules. It would also ty of counsel, authorize as much port capital defense and prosecu- e bound by federal standards and t's inspector general—except that nd to follow only new state-level changes are worth enacting, but if the bill is fully funded it will,

that this is the best that Congress : from wrongful conviction and ave been freed from death row or ce of their innocence, it is hard to eartment—can still oppose n testing easier and trial counsel

order the truth to get what they They are so wrapped up in their xtremist ideology, that they are g to lie in order to keep a grip on . Recent reports from CBS news e Boston Globe show that Mr. ied during the last campaign e said he had fulfilled his obli- in the National Guard. This ek the GAO found that the ministration had deliberately he congress about the predicted uth's Medicare reform. And, e, we all know how the Bush ration lied to the nation in win support for their ill-con- d disastrously executed Iraq

oreign policy is a shambles. my is not yet producing jobs h to keep up with the growth ion. We don't need the kind

He is survived by his wife Ramona; the sister Lillian McCain Ross of Colorado, children and grandchildren.

Linda Carol Thomas



Linda Carol Thomas, 65, of Chesterfield, Mo., formerly of Grinnell, died of cancer Sunday, Sept. 5, 2004, at The

daughter of Carl and Benson, she was born June Grinnell. She was raised graduating from Grinnell in 1957. She continued her education at Simpson College in Iowa, graduating *cum laude* in 1961, then working for her master's degree at the University of West Virginia. She worked for over 20 years at a Pathology Lab in Des Moines, then moved to St. Louis and worked for a Sigma Diagnostics until 2002. She was a technical specification writer for Trinity Biotech until her death. Her other interests included cross-stitching, craft projects and she had interesting collections. She collected types of music and played guitar. She was an avid reader of fiction and non-fiction. She followed the St. Louis Cardinals team and was a member of the Missouri Botanical Garden. She is survived by her mother, Benson of Grinnell, one daughter, Maring, and one brother, David. She has five nieces and one nephew. She was preceded in death by her father, Carl Benson.

How is it we never tire of certain triumphs of industrial design? Happy Days provides the opportunity to appreciate our favorite four-wheel makes and models all over again. Clockwise from upper left: the imposing grill of a 1958 two-door Chevy Impala sport coupe, affectionately referred to by Gary and Linda Jones as "Our 58"; a captivating white 1959 Thunderbird, belonging to Bill Berner of Montezuma, shows off its sleek styling with the other T-birds down near Commercial St.; a close-up of one Thunderbird's signature details.

Convention business

There are also two state conventions booked for 2006: one which can't be announced yet, and the other the statewide convention of the Eagles.

"We've been working with them for a couple of months," Goodrich said.

"With conventions, you really have to start working a long way out."

Goodrich says there is a great deal of opportunity with service and professional organizations, which often hold district and state conventions.

"They book so far in advance that we need to start working with them for 2006 and 2007 already," he said.

Goodrich says that lodging in the

• The first reading of the sign ordinance amendments tails that "special consideration be given to historic downtown theaters, due to the unique needs required by that type of building, lettering and governs such signage use of neon.

• The second reading of amendments to the city's solid waste

• Acceptance of the waterline and Hobart Street is generally supportive of the con-man and sanitary sewer project, but that dealing with the expense as 2004 sealcoat (\$66,022) of their maintenance – currently a phalt (\$79,459.80) improvement by Manatt's.

• Setting public hearing for the city compost facility at Avenue water main for 5 p.m. Bids for the compost step toward permanent closure brush dump – will be accepted Thursday, Sept. 16 at 1:30 for the water main on Te

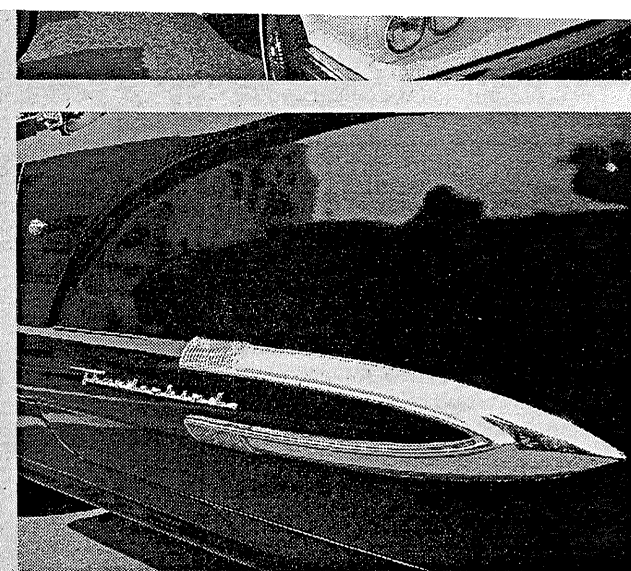
also reported that utility bills are being redesigned to make them more user-friendly.

Planning reported that discussions are ongoing regarding revision of ordinances governing the planting of trees in the city right of ways. Planning

Chair Byron Worley said the committee is generally supportive of the concept, but that dealing with the expense of their maintenance – currently a \$60,000 annual budget item which leaves work wanting every year – remains the principal hurdle.

Planning also reported recommending a request for commemorating late

Iron as art



Grinnell area is almost solidly booked for conventions the last two weekends of June 2006 – approximately 200 rooms in all.

"It's a good number of people," he commented, "and naturally, they will be eating here, shopping downtown, and spending some money in our community as well. We really need to go after some of this business."

"The Chamber feels that this will have a very positive effect on our local

economy and help showcase the many attractions in our community."

Individuals interested in learning more about tours or conventions, or who have ideas or leads, should contact the Grinnell Visitors and Convention Bureau at 236-6555 and ask for Charlotte Sandlin or Larry Goodrich. At present, it is located in the Grinnell Area Chamber of Commerce Office at 833 Fourth Ave. and is staffed by Chamber staff.

Council –

continued from page 1

south of town, and also help if there are problems in town, since the water system could feed from the southern storage facility back into town under emergency conditions.

"The Department of Natural Resources, every time we have a plant inspection, they comment about the amount of storage we have. Typically, you want two days of above ground storage, and we currently only have one day."

Work on the main itself will begin within a few weeks.

The storage facility, envisioned as a roughly 1,000,000-gallon ground-level unit, is farther in the future – but now probably not as far off as 2010, which is when Anderson had it slated on the water department's capital improvement plans.

Grinnell College President Glenn Leggett with a tree in Merrill Park to the Park Board; that plans for a universal veterans memorial at Hazelwood Cemetery are progressing; and that the city was purchasing a new set of downtown banners, which will be green canvas with the Jewel of the Prairie logo.

Public Works reported that a proposal by the Optimist Club regarding placement of numerous flagpoles in city right of ways around the city, as a club fundraiser, had been turned back because, as Elliott put it, "all finally concluded that the idea of putting one

more thing in the right of way is too much."

Elliott also reviewed the Name That Creek contest, governing the four as-yet-unnamed creeks – two north, one south and one east – which flow into or out of Arbor Lake. Public input is being sought for a contest on naming, and the deadline is Columbus Day.

Elliott reported that the Public Works Committee, along with an advisory group, will decide from among those names submitted and that Anderson had discovered how to make the naming official: by registration with the U.S. Geological Survey in Ames.

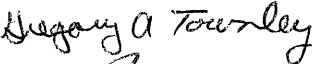
1st Quarter Report Arbor Lake Watershed Project

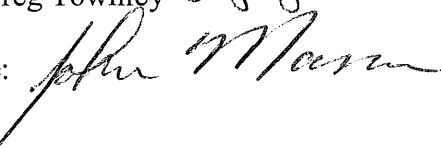
Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 October – 31 December 2004

Date Prepared: February 17, 2005

Name and Signature of Prepare: Greg Townley 

SWCD Commissioner's Signature: 

1st Quarter Report

Arbor Lake Watershed Project

079-01-04

Fiscal Year 2005

October 1, 2004 – December 31, 2004

OBJECTIVE 1. Administer Project**Goals:**

A. Prepare monthly, quarterly, and annual project reports for partnering agencies, District, and Project Committee.

ACTION ITEMS

1. Report regularly to appropriate agencies and Project Committee and assure Equal Opportunity for all.

Responsible person:	Start:	End:	%Completion:
---------------------	--------	------	--------------

ES	09/04	09/05	25%
----	-------	-------	-----

Remarks: Monthly reports are being completed and sent to appropriate agencies.

Monthly Report Check off

Month	October 04	November 04	December 04	January 05	February 05	
Date Submitted	11-18-04	12-16-04	1-19-05			
Month	March 05	April 05	May 05	June 05	July 05	
Date Submitted						
Month	August 05	September 05				
Date Submitted						

Quarterly Report Check off

Quarter	October – December 04	January – March 05	April – June 05	July – September 05
Date Submitted				

Final Report Check off

Date Draft Final Report due June 15, 2005	Date Submitted
Date Final Report due October 15, 2005	Date Submitted

B. Assure equal opportunity for all.

ACTION ITEMS

2. Assure equal opportunity for all in delivery of services and in membership on committees.

Responsible person:	Start:	End:	% Completion:
---------------------	--------	------	---------------

ALL	09/04	09/05	25%
-----	-------	-------	-----

Remarks: On going

OBJECTIVE 2. Information and Education Program**Goal:**

A. Bring information to the public to help them make individual and community decisions for water quality protection in the watershed

ACTION ITEMS

1. Hold demonstrations Field Days to show BMPs in actions.

Responsible person:	Start:	End:	% Completion:
ES/COM/G	010/04	09/05	0%
Remarks: No meetings have been held yet.			

2. Bring updated information to public in electronic or printed form regularly.

Responsible person:	Start:	End:	% Completion:
ES/COM	10/04	09/05	25%
Remarks: Gene Rohr, from IOWATER monitoring team, has put together a presentation about Arbor Lake that is being presented as a poster.			

3. Conduct workshops/outdoor classrooms for students at all levels and the public.

Responsible person:	Start:	End:	% Completion:
ES/COM	10/04	09/05	0%
Remarks: No workshops held yet.			

4. In partnership with Grinnell College, the City of Grinnell, and the Arbor Lake IOWATER Monitoring Team continue monitoring of Arbor Lake, its tributaries, and storm sewers.

Responsible person:	Start:	End:	% Completion:
ES/COM/G/C/ALIMT	10/04	09/05	25%
Remarks: Water monitoring continues on a regular basis. The monitoring team has a separate grant to help them with monitoring activities.			

5. Offer postage and collection for soil testing on watershed residents lawns (landowner pays for test) in conjunction with the Water Audit Service being provided by the Project.

Responsible person:	Start:	End:	% Completion:
ES/COM	10/04	06/05	0%
Remarks: No payments made at this time.			

6. Implement Construction Site Storm Water Erosion Control Demonstration at Grinnell/Newburg High School.

Responsible person:	Start:	End:	% Completion:
ES/GNHS	04/05	09/05	0%
Remarks: No demonstration held yet.			

OBJECTIVE 3. Implement Best Management Practices for Water Quality Protection.**Goal:****A. Work with the City of Grinnell to implement BMPs for water quality protection.*****ACTION ITEMS***

1. Install 3 wetland areas. Placement: North end of Arbor Lake, Upstream of east leg of Arbor Lake, and west side of lake.

Responsible person:	Start:	End:	% Completion:
ES/NRCS/G	11/04	09/05	0%

Remarks: The design is completed for the north and west side of the lake. Doug Morningstar is working on design of the east wetland. Bids will be offered as soon as the design is received.

2. Install 1 storm sewer interceptor system leading into east leg of Arbor Lake.

Responsible person:	Start:	End:	% Completion:
ES/IDNR/G	03/05	09/05	0%

Remarks: Will be completed later in the spring.

3. Install 1 storm sewer outlet stabilization practice along Arbor Lake tributary by HWY 146.

Responsible person:	Start:	End:	% Completion:
ES/NRCS/G	11/04	09/05	0%

Remarks: Design is not completed yet.

4. Install 2 acres native vegetation into/by installed wetland areas.

Responsible person:	Start:	End:	% Completion:
ES/NRCS/RC&D/G	04/05	09/05	0%

Remarks: Will be completed after the wetlands are installed.

5. Install 2 acres native vegetation along riffle/pool structures.

Responsible person:	Start:	End:	% Completion:
ES/RC&D/G	09/04	011/04	100%

Remarks: Seeding was completed on 4.5 Acres along the riffle pools. A cover crop of oats and annual rye was seeded 3-4 weeks after construction of the riffle pools. Seeding of the desired mix was completed on December 17 by Chris Bair.

ALIMT – Arbor Lake IOWATER Monitoring Team RC&D – Iowa Valley RC&D
 COM – SWCD Commissioners and Advisory Committee to the Arbor Lake Watershed Project
 ES – Environmental Specialist, project coordinator DC – Malcom Field Office NRCS Conservationist
 NRCS – Natural Resources Conservation Service IDNR – Iowa Department of Natural Resources
 DSC – Division of Soil Conservation GNHS – Grinnell/Newburg High School
 G – City of Grinnell C – Grinnell College IG – Imagine Grinnell
 ALL - All Sponsors – DSC, IDNR, NRCS, COM, C, IG, C, ALIMT, RC&D and others as appropriate

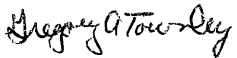
January 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

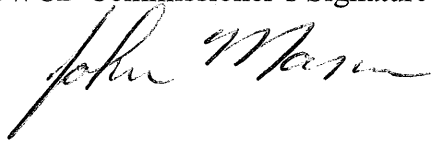
Soil and Water Conservation District: Poweshiek

Reporting Period: 1 January – 31 January 2005

Date Prepared: February 17, 2005

Name and Signature of Preparer: Greg Townley 

SWCD Commissioner's Signature:



Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 January to 31 January, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on January 20 with 5 members attending.
- ☞ Greg Townley finished the monthly report and it was presented to the commissioners for approval at their January 20 meeting.

Information & Education Activities

- ☞ The Poweshiek County Contractors meeting was held on January 12. Ray Drewelow informed the contractors that the city will be accepting bids for construction of wetlands this spring and encouraged contractors to bid on the job.

Practice Installation Activities

- ☞ Applications for FY 05 funding of Arbor Lake Projects were approved at the SWCD meeting on January 20. These included Information and Education (\$3000), Storm Interceptors (\$125,000), Prairie Plantings at Riffle Areas (\$11,000), Native seeding for wetland areas (\$4500), Storm Sewer Outlet Stabilization (\$7500), and Wetland Construction (\$30,250).
- ☞ The SWCD approved vouchers on January 20 for prairie plantings along the riffle pool area which covers 4.5 Ac for \$8812.50. Chris Bair completed the seeding and he brought in tickets showing the seed mix. In conversations with Becky Schwiete, Mike Franklin, Judie Krebsbach, and Chris Bair, the decision was made to not put in plugs due to cost and the difficulty of getting proper maintenance to insure their survival. Instead, a more diverse native seeding was used. Mowing that will be done by the City will insure survival of this mix.
- ☞ Greg contacted Doug Morningstar by email on Jan 19 and by phone on Jan 27 about the wetland design that is needed for the East Leg and highway stabilization. Doug is planning to complete those designs by March 1, possibly by mid February so construction can be done this spring.

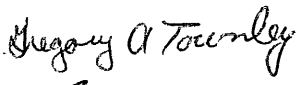
February 2005 Arbor Lake Watershed Project Month Report

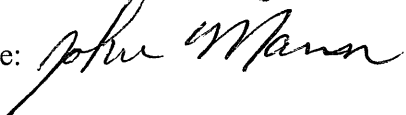
Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 February – 28 February 2005

Date Prepared: March 17, 2005

Name and Signature of Preparer: Greg Townley 

SWCD Commissioner's Signature: 

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report
Reporting Period – 1 February to 28 February, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on February 17 with 5 members attending.
- ☞ Greg Townley presented the January monthly report and the 1st Quarter report to the commissioners for approval at their February 17 meeting.

Information & Education Activities

- ☞ Greg Townley presented information about the Arbor Lake project to a meeting of the Poweshiek Leadership Program at Grinnell on February 17. The group consists of 30 leaders from the community who meet monthly to discuss community issues. During this agriculture session, Greg presented pictures of projects completed in the Arbor Lake area and explained the value for water quality, reduction of soil erosion, and beautification.

Practice Installation Activities

- ☞ A letter was received from the City of Grinnell on Feb 8 stating that project information and public notices will be issued on or about Feb 28 for work on Arbor Lake projects and that bids will be accepted until 2:00 pm on March 17. They asked for the final wetland design by Feb 21.
- ☞ Greg contacted Doug Morningstar by email on Feb 15 about the wetland design that is needed for the East Leg and highway stabilization. Doug's plan was to complete those designs by March 1 so construction can be done this spring.

March 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 March – 31 March 2005

Date Prepared: April 20, 2005

Name and Signature of Preparer: Greg Townley *Gregory A Townley*

SWCD Commissioner's Signature:

John Mann

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report
Reporting Period – 1 March to 31 March, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on March 17 with 4 members and 2 assistant commissioners attending.
- ☞ Greg Townley presented the February monthly report to the commissioners for approval at their March 17 meeting.

Information & Education Activities

- ☞ There was discussion at the Commissioner meeting and with city officials about the possible uses of information and education funds from the grant.

Practice Installation Activities

- ☞ The final wetland design was received from Doug Morningstar on March 4 and a copy was delivered to the City of Grinnell to provide to prospective contractors.
- ☞ The bid opening for wetland projects and storm interceptors was delayed until April 14.

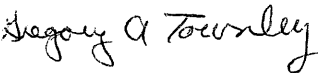
April 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 April – 30 April 2005

Date Prepared: May 16, 2005

Name and Signature of Preparer: Greg Townley 

SWCD Commissioner's Signature:



Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 April to 30 April, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on April 21 with 4 members attending.
- ☞ Greg Townley presented the March monthly report to the commissioners for approval at their April 21 meeting.

Information & Education Activities

- ☞ Cliff Foster, technician, attended the Grinnell Area Local Food Producers Association (GALFA) meeting on April 11 where there was discussion about the rain gardens planned for the Arbor Lake Project.
- ☞ Greg Townley set up a meeting of the Arbor Lake Committee and Wayne Petersen (NRCS) for April 26 at the Grinnell High School to review rain garden possibilities. The meeting was held with the following people in attendance: Wayne Petersen, Greg Townley, Ray Drewelow, Cliff Foster (NRCS); Russ Behrens, Jan Anderson (City of Grinnell); Gordon Canfeld (Mayor); Martha Pinder and Mike Shaeffer (Citizens). It was determined that the rain garden at the school would not work at this time, due to the amount of run-off and the construction currently happening at the school. We looked at two other possible rain garden sites and talked about re-allocating funds for such things as signs, asphalt trail, and outlet stabilization. The group agreed to meet again on May 3 at the City Hall to narrow the focus of how to allocate the money and come up with a plan to present to DNR and DSC.

Practice Installation Activities

- ☞ Ray Drewelow, technician, met with prospective contractors on April 5 and 7 to review designs and project expectations for the wetland structures.
- ☞ Bids were opened on April 14 for the Storm Interceptor. Funds had been allocated for two storm interceptors, but one of them was in an area that would be difficult to get access to clean it out. Instead of two units, one larger unit was bid. Project funds of \$125,000 had been budgeted for interceptors. The bid that was accepted was for \$74,260 (full cost) and was from Earthworks in Sully. The other bids received for interceptors were: \$76,000 (VanHauen at Clive), \$89,700 (Rognes at Ames), \$95,000 (Weidner at Marshalltown), and \$99,900 (PCI at Reinbeck). Contractor must complete work by September 1.
- ☞ Bids were also opened on April 14 for three wetland structures. Project funds of \$30,250 had been budgeted for wetlands. The bid that was accepted was for \$42,273.50 (full cost) and was from Seaton Construction in Deep River. The other bids received for wetlands were: \$49,439.56 (Schoon Construction in Grinnell) and \$83,340 (Sully Construction). Contractor must complete work by September 1.

May 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 May – 31 May 2005

Date Prepared: June 16, 2005

Name and Signature of Preparer: Greg Townley *Gregory A Townley*

SWCD Commissioner's Signature: *John Mann*

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – 1 May to 31 May, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on May 18 with 4 members attending.
- ☞ Greg Townley presented the April monthly report to the commissioners for approval at their May 18 meeting.

Information & Education Activities

- ☞ A meeting of the Arbor Lake Committee was held on May 3 at the Grinnell City Hall Conference Room to discuss the use of remaining Arbor Lake funds. The following people were in attendance: Greg Townley, Ray Drewelow (NRCS), Russ Behrens, Jan Anderson (City of Grinnell), Larissa Mottl, Liz Queathem (Grinnell College), and Bob Wemer (Citizen). We narrowed the focus of which areas we would request additional funds. At the conclusion of the meeting, members were sent to gather additional information with Ray doing an outlet stabilization design for an area near the school, Russ coordinating with Wayne Petersen and with the Assisted Living Complex to get rain garden information and estimates, Russ checking on prices for a pervious asphalt trail, Liz and Larissa checking on sign prices and figuring out what to put on the signs, and Greg checking on the procedure to switch funds.
- ☞ An outdoor classroom was held on May 4 at Diamond Lake near Montezuma. Greg Townley and Cliff Foster spoke to 5th Graders from Poweshiek County Schools including Grinnell Elementary about the Arbor Lake Project and taught them about the watershed and practices that were being completed at Arbor Lake.

Practice Installation Activities

- ☞ Ray Drewelow, technician, completed the design on May 16 for the outlet stabilization structure at the park near the High School.

June 2005 Arbor Lake Watershed Project Month Report

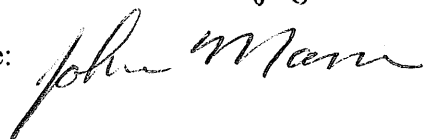
Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: 1 June – 30 June 2005

Date Prepared: July 8, 2005

Name and Signature of Preparer: Greg Townley 

SWCD Commissioner's Signature: 

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report
Reporting Period – 1 June to 30 June, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on June 16 with 4 members attending.
- ☞ Greg Townley presented the May monthly report to the commissioners for approval at their June 16 meeting.

Information & Education Activities

- ☞ A meeting of the Arbor Lake Committee was held on June 7 to decide how to reallocate funds. Greg Townley typed a memo of June 8 of proposed changes in funding. The memo was submitted to DNR on June 9 and DNR responded back on the same day with changes that were allowed. Most of the changes were approved and a response was needed from the Committee about which rain garden to complete. The rain garden to be located below the Assisted Living Complex was chosen.
- ☞ Wayne Petersen was contacted by Greg on June 13 about completing the rain garden design. He set an appointment to come to Arbor Lake on July 1 to start the design.

Practice Installation Activities

- ☞ Russ Behrens, city manager, agreed on June 21 to be responsible for getting plugs installed in the rain garden.
- ☞ Ray Drewelow and Cliff Foster, NRCS technicians, met with Mark Seaton (Contractor) and Russ Behrens and Jan Anderson (City of Grinnell) for a pre-construction meeting on June 23 for the construction of three wetlands.
- ☞ Ray and Cliff staked wetland site # 1 and marked trees to be removed from site # 2 on June 30.

July 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: July 1 – July 31, 2005

Date Prepared: August 17, 2005

Name and Signature of Preparer: Carol Brown

SWCD Commissioner's Signature:

Perry MClinahan V. Chairman

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report
Reporting Period – July 1 to July 31, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on July 21st with 4 members attending.
- ☞ Carol Brown presented the June monthly report to the commissioners for approval at their July 21st meeting.

Information & Education Activities

- ☞ No meetings or activities were scheduled this month.

Practice Installation Activities

- ☞ Three wetland projects were completed on July 15th. Bills were submitted and voucher has been sent to DSC. A later visit to this site by NRCS showed that the seeding is not yet up.

Construction on interceptor installation began on July 18th. Inspection was done during construction by manufacturing engineer. Installation was completed by August 1st.

City of Grinnell began taking bids on August 1st for outlet stabilization structure.

Wayne Peterson was at site on July 1st to look at area and begin design of rain garden project. Tina Cibula and Cliff Foster were also there. On August 8th Wayne met with Russ Behrens and Jan Anderson with design plans. City has decided to move site of rain garden, which will alter plans. Plans are being re-done and work has not yet started.

City of Grinnell has hired RC&D to complete design and installation of signs that will be located in the drainage areas of the wetlands. Chris Bair was at the Malcom Field Office August 15th to request maps of drainage areas for the three wetlands. This work is in progress and is not yet completed.

August 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: August 1 – August 31, 2005

Date Prepared: September 12, 2005

Name and Signature of Preparer: Carol Brown

SWCD Commissioner's Signature:

A handwritten signature in black ink, appearing to read "John Mann", written over the text "SWCD Commissioner's Signature:".

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District

P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report

Reporting Period – August 1 to August 31, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on August 18th with 4 members attending.
- ☞ Carol Brown presented the July monthly report to the commissioners for approval at their August 18th meeting.

Information & Education Activities

- ☞ No meetings or activities were scheduled this month.

Practice Installation Activities

- ☞ Payment for the three wetlands has been made to the City of Grinnell approximately August 22nd. The seeding on the wetlands is very slow to come up. May need to mow to control weeds. Will need to watch closely to possibly reseed.

Work will begin September 14th on the structure at the outlet. The utility company has been there to check for buried lines.

Work on the rain garden has been started. About one half of the hole has been dug. The contractor will get mulch and landscaping fabric at Marshalltown.

Signs marking the locations of the wetlands have been ordered and received, but are not yet installed. RC&D has agreed to install the signs.

Seeding plugs have not been installed. This will possibly be done next spring, as fall is too late to get them in. There may possibly be an extension of time on this component of Arbor Lake Project.

September 2005 Arbor Lake Watershed Project Month Report

Project Number: 079-01-04

Soil and Water Conservation District: Poweshiek

Reporting Period: September 1 – September 30, 2005

Date Prepared: October 4, 2005

Name and Signature of Preparer: Carol Brown

SWCD Commissioner's Signature:

A handwritten signature in cursive script, appearing to read "John Mann", written in dark ink.

Arbor Lake Watershed Project
Poweshiek County Soil & Water Conservation District
P.O. Box 216
Malcom, Iowa 50157
641-528-2065

Monthly Narrative Report
Reporting Period – September 1 to September 30, 2005

Administrative Activities

- ☞ The Commissioners met at their regular meeting on September 15 with 4 members attending.
- ☞ Carol Brown presented the August monthly report to the commissioners for approval at their September 15th meeting.

Information & Education Activities

- ☞ An Annual Inspection meeting was held at Arbor Lake shelter house on September 13th.

Practice Installation Activities

- ☞ Seeding on the recently completed wetland structures is still slow to come up. Will need to continue to watch closely to possible reseed. The City of Grinnell has agreed to reseed if needed.

A bill was submitted by Earth Works Inc. for storm sewer outlet construction. A voucher for said bill will be approved at the October 6th Commissioner meeting.

Work done on the rain garden has been completed and bills submitted. A bill was submitted by Bailey Construction for excavation and installation of new drain tile, stand tube and outlet tube per plan. A bill was also submitted from Iowa Valley RC&D for 1,500 rain garden plugs. A voucher for said bills will be approved at the October 6th Commissioner meeting. The plugs will be planted next spring as soon as weather permits.

A bill from ASI Modulex for signs has been submitted for payment. Signs are not yet installed but RC&D has agreed to do the installation work. A voucher for said bill will be approved at the October 6th Commissioner meeting.

A bill from Iowa Valley RC&D has been submitted for native prairie/wetland seed, along with labor to plant the seed. RC&D will do the seeding next spring as soon as weather permits. A voucher for said bill will be approved at the October 6th Commissioner meeting.

A bill from Veenstra & Kimm, Inc. has been submitted for construction of one storm interceptor. A voucher for said bill will be approved at the October 6th Commissioner meeting.