

ROCK COUNTY, WISCONSIN



RECEIVED

Planning, Economic & Community
Development Agency
51 South Main Street
Janesville, WI 53545
Phone: 608-757-5587
Fax: 608-757-5586
Website: www.co.rock.wi.us

NOV 12 2012

November 9, 2012

WT/3 - WY/3 - OGL/3

Ryan Raab
Department of Natural Resources
Bureau of Watershed Management – WT/3
P.O. Box 7921
Madison, WI 53707

Paul Benjamin
Director

Enclosed please find materials pertaining to Rock County's grant from DNR to provide water quality management planning in the Beloit area of Rock County. This is a report for the six-month period from January 1, 2012, to June 30, 2012. During this time, we assembled the Technical Advisory Committee and we conducted three meetings. Please see the agendas in the pack, as well as the meeting minutes, handouts and presentations. Also, please find here a copy of the letter that we sent out to participants on the TAC and a list of current participants.

As the materials and information that we've gathered and analyzed show, we've looked at population trends, the distribution of Private on-site Waste Treatment Systems (POWTS), environmental areas in the region, and we've produced maps showing the current Sewer Service areas. We've convened numerous informal meetings with leaders and staff of the four communities in the area, the Town of Beloit, the Town of Turtle, the Town of Rock and the City of Beloit, as well as three TAC meetings. At its second meeting, the Technical Advisory Committee had to deal with an issue that revealed profound divisions between two communities, the Town of Turtle and the City of Beloit. This was a Sewer Service Area amendment that the C. of Beloit wished to have approved for an unsewered residential area in the T. of Beloit. (Please see a copy of the January 18, 2012 letter to Richard Cannon from the City of Beloit attached.) The issue could not be resolved at the TAC so it forwarded the issue to DNR to make the decision. DNR declined to make the decision for the TAC. A variety of other issues between the two communities simmered through the summer until in October of this year, the issue of a road extending from the City into the T. of Turtle boiled over. Without going into too many details, the two communities came together at County Board and promised joint resolutions to work through a number of issues. Please find attached to this letter the resolution on this matter from the T. of Turtle. What this means is that the host of issues, including issues pertaining to water quality planning, that have been unresolved between the two communities at least now have been acknowledged and a program has been established to go forward here. We should now be able to resolve water quality planning issues in the area with much more facility that we were able to six months ago when there was essentially a deadlock.

We've had some staff turnover in our agency recently; we lost the Planner II who was taking the lead for our agency in water quality planning. We brought him back on contract and he has been pre-occupied on helping us finish our Farmland Preservation Plan. We are nearing completion on that, so I expect to have Wade Thompson devote more time to water quality planning. We also lost our County Engineer, who we were anticipating would begin to work on the engineering aspects of the water quality planning in September. We should be interviewing to fill this position before Thanksgiving and hope to fill the position in early December. With that, we will recommence the work and hope to finish up all the work by summer ~~2012~~. At this point, I would say we are about 40% done, but with a major division behind us through the agreement between the City of Beloit and the Town of Turtle, and with the hiring of a new engineer with water quality planning experience, we hope to proceed rapidly from December on.

2013

Please find attached to this letter an "Expense Reimbursement Summary" sheet. I see some errors in this sheet but I'm going to send the whole packet in today and provide an amendment to this summary on Monday when our accountant will return. If you have any questions, please do not hesitate to call me at 608-757-5583.

Yours very sincerely,


Paul Benjamin

ROCK COUNTY PLANNING, ECONOMIC, & COMMUNITY DEVELOPMENT AGENCY

CITY OF БЕЛОIT AND TOWN OF БЕЛОIT WATER QUALITY MANAGEMENT PLAN UPDATE: 2012 - 2013

EXPENSE REIMBURSEMENT SUMMARY

PERIOD: JANUARY 1, 2012 THROUGH JUNE 30, 2012

<u>ROCK COUNTY STAFF</u>	<u>Hrly Wage + Fringe</u>	<u>1 Meetings</u>	<u>2 Analysis & Mapping</u>	<u>3 Report & Map Production</u>	<u>4 County Brd Presentation</u>	<u>5 Project Expense</u>	<u>TOTAL EXPENSE</u>
Planning & Dev. Director	\$ 53.70	61.00					\$ 3,275.70
Environmental Health Director	\$ 47.00	7.50	26.00	-			\$ 1,574.50
Engineer	\$ 45.00	13.50					\$ 607.50
Planner (Jan - Apr 2012)	\$ 33.70	6.00	74.00				\$ 2,696.00
Consultant / Planner							\$ -
GIS Manager	\$ 40.00						\$ -
Sanitarian	\$ 37.00	7.50	15.00	12.00		\$ 27.00	\$ 1,303.50
							\$ -
							\$ -
TOTAL REIMBURSEMENT REQUEST							\$ 9,457.20

✓
✓
✓

AMOUNT REQUESTED FOR PERIOD JANUARY 1 - JUNE 30, 2012:

\$ 9,457.20

OK

<u>GRANT EXPENSE REIMBURSEMENT ALLOCATION</u>	
FY12 FEDERAL 604b FUNDS (CFDA #66.454)	\$ 5,000.00
FY12 GENERAL PURPOSE FUNDS (STATE ID #370.604)	\$ 4,457.20
	<u>\$ 9,457.20</u>

Fran Keally 11/13/2012

Keally, Fran - DNR

From: PAUL BENJAMIN <BENJAMIN@co.rock.wi.us>
Sent: Tuesday, November 13, 2012 11:32 AM
To: Keally, Fran - DNR
Cc: CHERYL MARTIN
Subject: RE: Fran,
Attachments: WaterQtyGrant-ExpenseReimb_Amended.pdf

Fran,

Attached, please find an amended Expense Reimbursement Summary for the period of January 1, 2012 through June 30, 2012 for our six-month report on the water quality planning grant for DNR for the Beloit Area Water Quality Planning effort. This amendment changes slightly the number of hours that I worked and it also corrects the amount for the Sanitarian, after we realized the number "27.00" in column 5 in our original reimbursement summary table was a dollar figure, not the number of hours worked. We've also changed the "Hourly Wage + Fringe" rates for five of us to the rates identified in the contract with DNR. I take responsibility for these errors. The total is now \$9,457.20.

Paul

>>> "Keally, Fran - DNR" <Fran.Keally@Wisconsin.gov> 11/12/2012 1:05 PM >>>

Paul,
The packet arrived today. You can just email me the adjusted "Expense Reimbursement Summary" sheet, when it is ready, and I'll insert it into the packet and give it back to Ryan. Thanks.

Fran Keally
Bureau of Water Quality
Wisconsin Department of Natural Resources
(*) phone: (608) 266-3221
(*) fax: (608) 267-2800
(*) e-mail: Fran.Keally@wisconsin.gov

-----Original Message-----

From: PAUL BENJAMIN [<mailto:BENJAMIN@co.rock.wi.us>]
Sent: Friday, November 09, 2012 10:18 AM
To: Keally, Fran - DNR
Subject: Fran,

Fran,

I'm just putting the whole packet in the mail. A signed copy of this letter and everything else is coming by post.

Paul

The information contained in this message and in any attachment is intended only for the recipient.

It may be privileged and confidential, and should be protected from disclosure.

If you are not the intended recipient, or you have received this communication in error,

please immediately notify the sender by replying to the message and delete it from your computer.

Please be aware that any dissemination or copying of this communication is strictly prohibited.

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Keally, Fran - DNR

From: PAUL BENJAMIN <BENJAMIN@co.rock.wi.us>
Sent: Tuesday, November 13, 2012 11:41 AM
To: Keally, Fran - DNR
Cc: CHERYL MARTIN
Subject: RE: Fran,

Fran,

One other thing. There is an incorrect date on the second page of my cover letter. It should read "summer 2013," not "summer 2012" for completion of the plan.

Paul

>>> "Keally, Fran - DNR" <Fran.Keally@Wisconsin.gov> 11/12/2012 1:05 PM >>>

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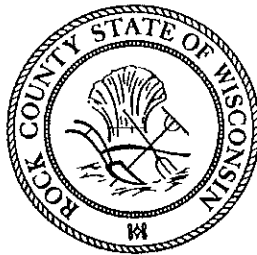
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February 1, 2012

Susan Sylvester
Director, Bureau of Water Quality
Wisconsin Department of Natural Resources
101 S. Webster Street
Box 7921
Madison, Wisconsin 53707

RE: Grant Funding Request for City of Beloit and Town of Beloit Area-wide Water Quality Management Plan Update: Phase I (January 1, 2012 – December 31, 2012)

Dear Ms. Sylvester:

Please accept the information provided herein as an application for Wisconsin Department of Natural Resources (DNR) grant funding to update the City of Beloit and Town of Beloit Area-wide Water Quality Management Plan ("Plan"). The application consists of this correspondence, which includes a discussion of the current Plan, Plan update project scope, and Plan update project budget. Additional application information includes a more detailed explanation of all other Plan update project aspects (including project budget and timeline) and a project area basemap.

Rock County is requesting grant funding for Phase I of the Plan update (January 1, 2012 – December 31, 2012) in the amount of \$15,000.00. Because the Plan will include two treatment plants and four local government units, we feel the Plan update is a two-year planning effort and as such we plan to seek an additional \$25,000 in funding for Phase II (January 1, 2013 – December 31, 2013).

The following provides background information on the Plan, Plan update project scope, and Plan update project budget.

Plan Background Information

The original Plan consisted of a 20-year planning horizon and was completed in the late 1980s. In the interim, there has not been an update to the Plan to keep pace with recent planning efforts such as the City of Beloit, Town of Beloit, and Rock County comprehensive plans, completed and adopted in 2008, 2009, and 2009 respectively. Those plans depict an amount of future growth and development which is not consistent with the current Plan. In addition, there are portions of adjacent developed areas not included in the current Plan where several on-site private septic systems have experienced problems. We feel those areas are worthy of study in the Plan update as well.

To date, the current Plan has been amended twice, with a third amendment currently pending. This, together with other significant departures from the original Plan, such as the Village of Clinton's withdrawal from the Sewer Service Area (SSA) and the City of Beloit's Water Pollution Control Facility upgrade, necessitate the need to update the Plan.

Plan Update Project Scope

The Plan update project scope includes a comprehensive review of the current Water Quality Management planning guidelines and requirements for developing a Plan update through the year 2035. The Plan update process will consist of two phases, identified as follows:

Phase I (January 1, 2012 - December 31, 2012) major tasks will include:

1. Equitably consider all interests that each community located within the Beloit Metropolitan Area has as they relate to the provision of municipal sewer service, to include the formation of two Committees, Policy Advisory (tentative) and Technical Advisory, to oversee the Plan update process;
2. Review and update the original Plan goals, ensuring consistency with each participating community's comprehensive plan;
3. Review and inventory the water quality impact of the area treatment facilities existing loadings, including industrial and commercial waste;
4. Inventory and identify (map) environmentally sensitive areas, existing private on-site treatment systems, existing private and public wells, and wellhead protection zones in the planning area;
5. Analyze the natural resources and environmental conditions and constraints with respect to development suitability in the planning area (i.e. wetlands, flood hazards, steep slopes, soil geology, depth to groundwater and shallow bedrock, etc.);
6. Produce a spatial data layer identifying the locations of the Town of Beloit's existing sewer mains, manholes, and service lateral hook up to properties located within the SSA;
7. Redefine the planning area for each system (City of Beloit and Town of Beloit) using the most current population and housing data and information;

Phase II (January 1, 2013 – December 31 2013) major tasks will include:

1. Produce an updated Plan for both the City of Beloit and the Town of Beloit, to include a map delineating future SSA boundaries for each municipality, as well as policy recommendations to assure compliance with required and desired water quality standards;
2. Assure Plan compliance with applicable DNR water quality standards and adoption by required local government units;

Plan Update Project Budget

The budget projection for Phase I of the Plan update project is estimated to be approximately \$15,000.00. This projection does not include in-kind contributions of staff time provided by the City of Beloit or the Town of Beloit. The City and Town will also provide additional technical resources and pertinent information (i.e. access to staff, plant loadings, plant capacity, and collection system information).

The Plan update process will be coordinated by the Rock County Planning, Economic & Community Development Agency, with assistance from the Rock County Environmental Health Department. Qualified City of Beloit and Town of Beloit staff representatives will review all technical work tasks. Additionally, the Policy Advisory (tentative) and Technical Advisory Committees will review all project findings and recommendations.

I trust this information satisfies the DNR criteria for requesting grant funds for the update of the City of Beloit and Town of Beloit Area-wide Water Quality Management Plan. If you should have any questions, do not hesitate to contact me. Thank you very much.

Sincerely,

Richard G. Cannon, P.E.
Rock County Planning, Economic & Community Development Agency

cc: Lisa Helmuth, Wisconsin Department of Natural Resources
Fran Keally, Wisconsin Department of Natural Resources

Enclosure

City of Beloit and Town of Beloit Area-wide Water Quality Management Plan Update: Request For Incremental Funding 2012-2013

Date: February 1, 2012

Proposal Prepared By: Rock County Planning, Economic & Community Development Agency
51 South Main Street
Janesville, Wisconsin 53545
(608) 757-5587 – phone
(608) 757-5586 – fax
planning@co.rock.wi.us
www@co.rock.wi.us

Grant Period: 2012 - 2013

Amount Requested: \$15,000 For Phase I (January 1, 2012 – December 31, 2012)
\$25,000 For Phase II (January 1, 2013 – December 31, 2013)

Lead Agency: Rock County Planning, Economic & Community Development Agency
51 South Main Street
Janesville, Wisconsin 53545
(608) 757-5587 – phone
(608) 757-5586 – fax
planning@co.rock.wi.us
www@co.rock.wi.us

Project Description:

1. PLAN OVERVIEW

The original Beloit Metropolitan Sewer Service Plan, covering the City of Beloit and the surrounding urbanized area, was produced in 1986 and subsequently updated in the late 1990s. Due to a number of significant changes to the area's overall urbanized landscape, the Plan has become outdated. Because the previous Plan update was conducted over a decade ago, the two urban area sewer service providers in the area, the City of Beloit and the Town of Beloit, together with Rock County, have concluded that it is necessary to update the Plan at this time.

It is the intention of the Rock County Planning, Economic & Community Development Agency and the Rock County Environmental Health Department to work cooperatively with both Beloit urbanized area sewer service providers and each of the area's affected units of government in order to produce this Plan update. Therefore this request is made so that Wisconsin Department of Natural Resources (DNR) funds can be made available through their application process.

2. PLAN AMENDMENT HISTORY

The first Beloit Metropolitan Sewer Service Plan amendment was performed in 1996. This amendment adjusted the City of Beloit's Sewer Service Area boundaries by taking into consideration the addition of a residential subdivision development, proposed for the City of Beloit's northwest side. The second Plan amendment performed in 2007, made slight modifications to the actual sewer service provided to a number of Town of Beloit and City residents in a limited geographic area adjacent to the Rock River. Lift station operations within the current Plan boundaries were also addressed in the second amendment.

3. PARTICIPATING LOCAL UNITS of GOVERNMENT

The City of Beloit, along with the Town of Beloit, Town of Turtle, and Town of Rock are the local units of government that will be directly affected by the Plan updates. Because the Rock County Planning, Economic & Community Development Agency has been Rock County's overall urbanized sewer service area review agency, the Agency will coordinate the Plan update process. When applicable, the aforementioned local units of government previously will provide pertinent data and technical assistance throughout the process.

4. WASTEWATER TREATMENT FACILITIES AND SANITARY DISTRICTS

Two sanitary sewer system providers comprise the project area, the City of Beloit and Town of Beloit. This Plan update will address both systems.

The City of Beloit operates its Water Pollution Control Facility at 555 Willowbrook Road, located in the City. According to the City, this facility was commissioned in November of 1991 and uses advanced activated sludge technology. The system is capable of processing up to 11 million gallons of wastewater per day, however it currently treats an average of approximately 3.5 million gallons a day. This facility is required to meet several National Pollution Discharge Elimination System (NPDES) permit criteria including:

- Biochemical Oxygen Demand
- Total Suspended Solids
- Phosphorus
- Ammonia
- Chlorine Residual
- Fecal Coliform

The Town of Beloit's Wastewater Treatment Plant Facility is located at 3629 S. Walters Road. This facility was built in 1969 and processes wastewater from the Town of Beloit and portions of the Town of Rock. This facility has operators certified by the State of Wisconsin in wastewater treatment activities.

Initially, this facility had a treatment capacity of 350,000-gallons of wastewater per day. In 1979, the Town more than doubled this facility's processing capability by adding a 650,000-gallon per day unit, making the total facility capacity 1,000,000-gallons per day. In 2003, a 750,000-gallon sludge storage tank along with a radio telemetry alarm system and new pre-treatment equipment were added.

5. GEOGRAPHIC INFORMATION SYSTEM (GIS) PERSONNEL

- a. Matthew Wesson - Rock County Environmental Health Department
- b. Adam Elmer – Rock County Environmental Health Department
- c. Wade Thompson – Rock County Planning, Economic & Community Development Agency

6. PROPOSED PROJECT POLICY ADVISORY AND TECHNICAL ADVISORY COMMITTEE

The Rock County Planning, Economic & Community Development Agency is currently in the process of formulating two committees to oversee the plan updates. A Policy Advisory Committee (tentative), predominately comprised of elected/appointed officials from the participating local governmental units will establish the appropriateness of the system service boundaries and any necessary changes to existing service coverage limits. In addition a Technical Advisory Committee, comprised of staff from these same local governmental units will coordinate and review all data collection and analytical activities needed to perform the updates. Committee membership is proposed as follows and subject to approval by the participating local units of government:

Policy Advisory Committee (tentative)

City of Beloit (Both Plan Updates)

1. City Council President
2. City Manager
3. Community Development Director
4. Public Works Director/City Engineer

Town of Beloit (Both Plan Updates)

1. Board Chair
2. Administrator
3. Planning Commission Chair
4. Public Works Director

Town of Turtle (City of Beloit Plan Update only)

1. Board Chair
2. Planning Commission Chair

Town of Rock (Town of Beloit Plan Update only)

1. Board Chair
2. Planning Commission Chair

Rock County (Both Plan updates)

1. Board Supervisor
2. Board Supervisor

Technical Advisory Committee

City of Beloit (Both Plan updates)

1. Public Works Director/City Engineer
2. Wastewater Treatment Facility Supervisor
3. Project Engineer

Town of Beloit (Both Plan updates)

1. Public Works Director
2. Wastewater Treatment Facility Supervisor
3. Project Engineer

Town of Turtle (City of Beloit Plan update only)

1. Technical Representative

Town of Rock (Town of Beloit Plan update only)

1. Technical Representative

Rock County (Both Plan updates)

1. Planning, Economic & Community Development Agency

- a. Director
- b. Engineer
- c. Planner

2. Environmental Health Department

- a. Director
- b. Sanitarian

7. PROJECT TIMELINE

The Plan update process, as proposed, will have two separate phases, Phase I and Phase II. Phase I will concentrate on fact-finding, data collection, a thorough review of the existing service areas and capabilities, and creation of a data layer for the Town of Beloit Sewer System, detailing sanitary service main, manhole and lateral locations. Phase II will consist of determining the need for making any pertinent adjustments to the current sewer system boundaries in order to necessitate water quality protection, public health, and safety.

City of Beloit and Town of Beloit Water Quality Management Plan Update: 2012-2013

Project Budget - Phase I: January 1, 2012 - December 31, 2012

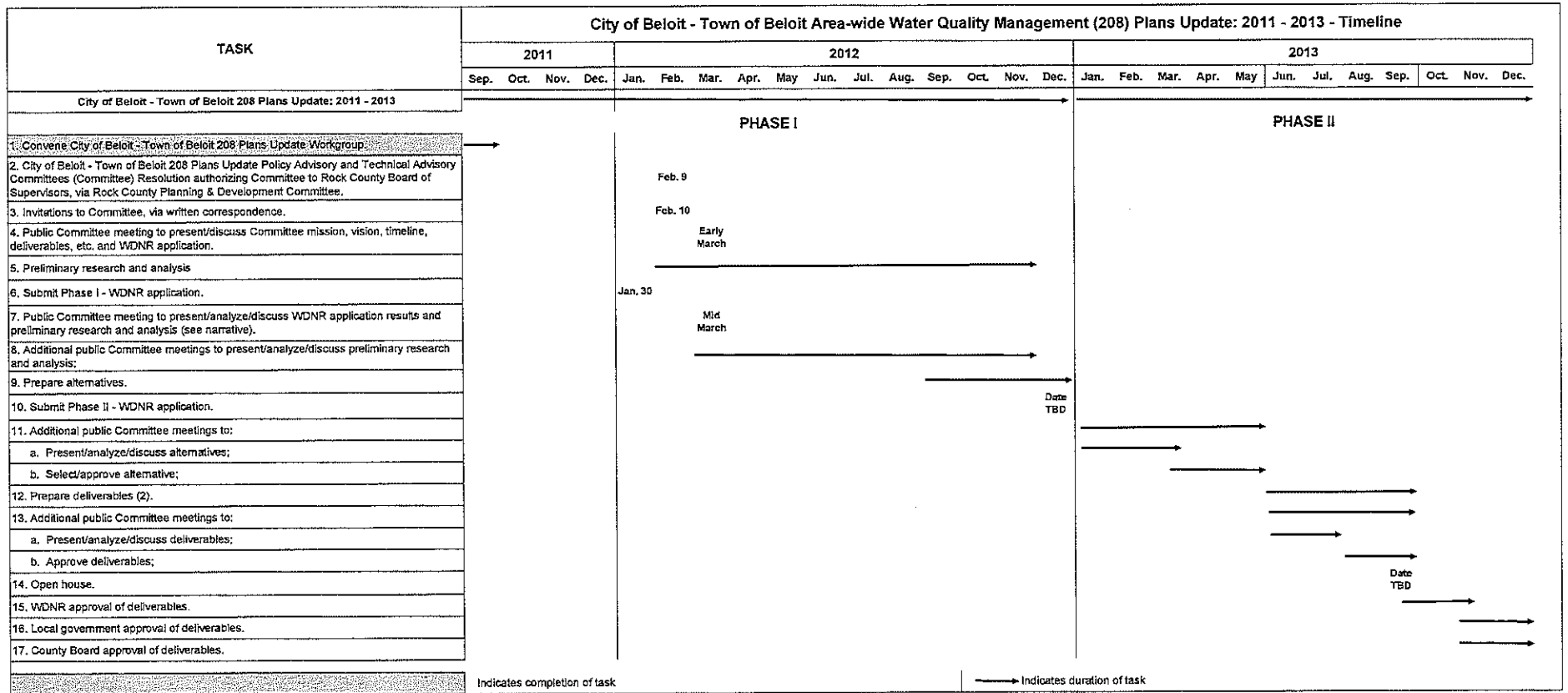
Rock County staff	<u>Planning and Development Director</u>	<u>Environmental Health Director</u>	<u>Engineer</u>	<u>Planner</u>	<u>GIS Manager</u>	<u>Sanitarian</u>	Projected Cost
Hourly wage plus fringe	\$53.70	\$47.00	\$45.00	\$33.70	\$40.00	\$37.00	
1. Meetings*							
Staff hours	8	8	8	8	4	8	
Committee hours	14	14	14	14	0	0	
Prep/follow-up hours			10	10	8	12	
Projected Cost	\$1,181.40	\$1,034.00	\$1,440.00	\$1,078.40	\$480.00	\$740.00	\$5,953.80
2. Analysis & Mapping**							
Hours			32	40	16	12	
Projected Cost			\$1,440.00	\$1,348.00	\$640.00	\$444.00	\$3,872.00
3. Report & Map Production***							
Hours			20	32	12	18	
Projected Cost			\$900.00	\$1,078.40	\$480.00	\$666.00	\$3,124.40
4. Presentation to County Board^							
Hours	2						
Projected Cost	\$107.40						\$107.40
5. Project Expenses							
Mileage (estimate of 450 miles at \$0.555/mile)							\$249.75
Copying/printing							\$300.00
Postage, etc.							\$86.89
Projected Cost							\$636.64
Projected Sub-total Cost (1., 2., 3., 4., and 5. above)							\$13,694.24
Contingency (10% of staff hours)	\$128.88	\$103.40	\$378.00	\$350.48	\$160.00	\$185.00	\$1,305.76
TOTAL PROJECTED COST (Projected Sub-total Cost + Contingency)							\$15,000.00

*Staff meetings assume 1.0 hour per meeting, on approximately a monthly basis. Committee meetings assume 2.0 hours per meeting, on approximately a monthly basis.

**Analysis & Mapping includes Committee meeting preparation, work review time, and report updates to DNR.

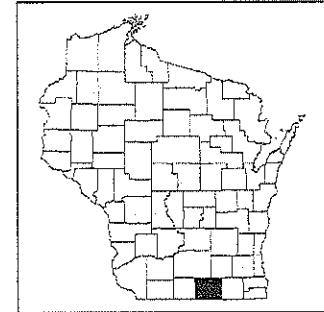
***Report & Map Production includes internal report review and editing time.

^Presentation to Rock County Board is for planning project progress update and informational purposes.

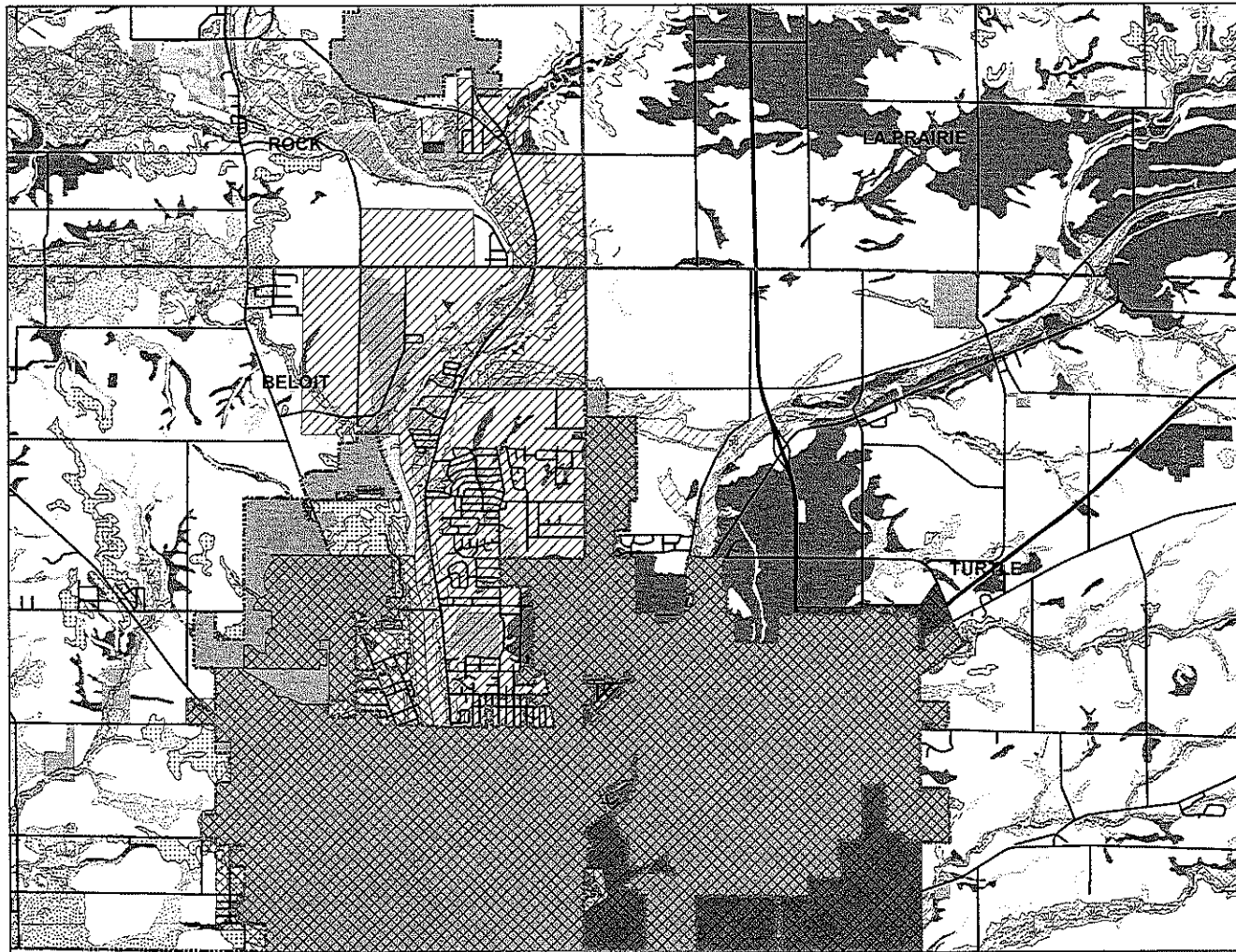


Basemap

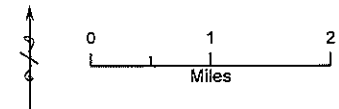
City of Beloit - Town of Beloit Areawide Water Quality Management Plans Update



Rock County, Wisconsin (1/25/2012)



- City of Beloit
 - Towns
 - City of Beloit Sewer Service Area
 - Town of Beloit Sewer Service Area
 - City of Beloit - Town of Beloit boundary agreement area
 - Protected land
 - Roads
 - Productive agricultural soils
- Environmentally Sensitive Areas**
- Bedrock within 20" of surface
 - Steep slope (12% or greater)
 - Hydric soil
 - Natural area
 - Potential groundwater protection area
 - FEMA floodplains
 - Surface water and 75-foot buffer
 - WDNR wetlands



Data Sources: Rock County Planning and Development

Rock County Geographic Information Systems (GIS)
 Planning, Economic and Community
 Development Agency
 51 S Main St., Janesville, WI 53545
 (TEL) 609-751-2587, (FAX) 609-757-2586
 email: Planning@co.rock.wi.us

Duplication of this map is prohibited without written consent of the Rock County Planning, Economic and Community Development Agency. The data in this map was compiled using the Rock County Coordinate System. All graphic and cartographic information is based on the Rock County Coordinate system. This map is not intended to be a substitute for an actual field survey and is an advisory reference only.



AGENDA

**Rock County Planning, Economic & Community Development Agency –
Technical Advisory Committee Meeting - City of Beloit and Town of Beloit
Areawide Water Quality Management Plans Update**

March 21, 2012 – 2:00 p.m.

Room N-1, 5th Floor – Rock County Courthouse

51 S. Main Street, Janesville

THIS IS NOT A PUBLIC HEARING

- 1) Introductions
- 2) Plans Update Goals, Timeline, and Deliverables
- 3) Plans Update Processes and Methodologies
- 4) Technical Advisory Committee Structure and Function
- 5) General Comment and Discussion
- 6) Wrap Up and Next Steps

NOTE: It is possible that members of and possibly a quorum of other governmental bodies of Rock County may be in attendance at the above-stated meeting to gather information: any governmental body at the above-stated meeting will take no formal action.

City of Beloit and Town of Beloit
Area Wide Water Quality Management Plan Updates
(Meeting Minutes from March 21st, 2012)

The kickoff meeting for the Technical Advisory Committee (TAC) of the City of Beloit and Town of Beloit Area Wide Water Quality Management Plans Update effort was called to order at 2:00 PM on Wednesday March 21st, 2012.

Paul Benjamin made the opening remarks. He asked that all present introduce themselves for the benefit of all in attendance. Introductions were made.

Those present included:

Roger Anclam – Town of Turtle

Tim Kopp – Town of Turtle

Member Town of Turtle Board (didn't get his name)

Brian Wilson – Town of Beloit

Howard Hemmer – Town of Beloit

Frank McKearn – Batterman Engineering (for Town of Beloit)

Mike Flesch – City of Beloit

Tim Banwell – Rock County Health Department

Matt Wesson – Rock County Health Department

Duane Cherek – City of Janesville

Phil Owens – Rock County Board of Supervisors

Wade Thompson – Rock County Planning

Paul Benjamin – Rock County Planning

Rich Cannon – Rock County Planning

Paul Benjamin discussed the general intent of the plan update effort, the formation of the (TAC), and how certain portions of the existing plan such as many of the maps within the current document are outdated. He mentioned the current State of Wisconsin legislation that sets for the plan update process and said it is the intent of the TAC to develop a plan that recognizes the current situation as well as the planned future land use trends and natural resources found in the Beloit area.

Wade Thompson made a brief slide presentation that touched on the plan update's overall goals, timeline, and expected work products. He stressed that among other important community and natural resources this type of plan must remain focus on (1) maintaining water quality; (2) provision of sewer service; and, (3) regional land use.

This discussion included the project timeline where he presented a two-phase approach. It is envisioned that the majority of the data collection and research activities will take place in Phase I, which will be conducted in 2012. One of the major deliverables in Phase I will be a revised and more "user-friendly" Town of Beloit sewer system service coverage map.

Phase II will extend into mid or possibly late 2013 and is expected to revise current sewer service area boundaries and set future area wide policy.

Wade Thompson mentioned that Rock County together with other TAC members have been working with the Wisconsin Department of Natural Resources (DNR) to secure study funds in the form of a \$15,000 grant made available by the DNR and that a similar effort will be made to secure funds for Phase II.

Frank McKearn asked if TAC members could receive a copy of the grant application materials so each member has an understanding of the things the DNR will require with respect to their funding terms. He also mentioned that the Town of Beloit has certain map electronic data and information that should be examined prior to any mapping effort so it can be made compatible.

Tim Banwell reviewed several slides depicting the nature of the current data the Rock County Health Department has access to that can be incorporated in to the research and decision making aspects of this plan update. Data includes but is not limited to well locations and casings, location of on-site septic systems, and a number of pertinent aspects of ground water such as where municipal pumping takes place and where certain contaminants can be found to occur.

Howard Hemmer asked how far back in time does the Rock County data extend? Tim Banwell suggested depending on the specifics, certain data sets date back to the 1980s.

Wade Thompson introduced the make-up of TAC in terms of membership responsibilities and voting interest. Even though the Wisconsin portion of the Beloit Urban Area is made up of The City of Beloit and several surrounding towns, not all surrounding municipalities are directly adjacent to the two metropolitan sewer service area (SSA) boundaries therefore it is not practical for each town to have a direct voting interest in both plan update. More specifically the two surrounding municipalities directly influenced by the City of Beloit's SSA are The Town of Turtle, and The Town of Beloit. Likewise the two municipalities influenced by the Town of Beloit's SSA are The City of Beloit and The Town of Rock.

To gain approval of procedural matters and key decisions throughout the course of the plan update period, optimally it would be advantageous to have all three municipalities of record influenced by the SSA in question vote similarly. It is unrealistic to expect that in every instance each voting member will vote the same therefore the suggested voting interests for making critical decisions during the plan update process is as follows:

- Municipal sewer system owner/operators 50%
- Surrounding adjacent municipality 25% each

Mike Flesch asked what the procedure would be in the event of a 50%-50% tie. (?) In the event of a tie there would be an amount of additional analysis and/or fact-finding performed by the study team in an effort to satisfy all concerns and ensure subsequent votes are not tied.

Mike Flesch asked about the DNR's role in the TAC. (?) In previous discussions with the agency Rock County Planning was informed that the DNR would remain neutral throughout the planning process. It is understood they will however provide an amount of project funding (as previously mentioned) and guidance in interpreting state statutes. It was also Rock County Planning's understanding that the DNR would not have a voting share or regular presence at the TAC meetings. Rock County Planning offered to once again contact DNR to ensure this is indeed the intention of the agency.

Tim Kopp asked why The Town and Village of Clinton was a part of this process. (?) Frank McKearn mentioned that in the late 1990s the town and village decided to withdraw from the City of Beloit SSA and have not entertained re-joining the Beloit utility since.

Prior to any "official" action being taken by the TAC, Roger Anclam informed the TAC that it would be necessary for him to present this suggested study format and voting procedure, etc., to the rest of the Turtle town board. Mike Flesch agreed that he would present this same information to the Beloit city administration.

A motion was made by Mike Flesch to postpone taking any "official" votes, i.e., those that would have a direct bearing on the plan or planning process such as the percent voting framework suggested by Wade Thompson until such time the respective agencies and/or municipalities can examine the procedure and agree to it. Roger Anclam seconded the motion. A vote was taken and passed with no opposition. It was decided that prior to the next TAC meeting each TAC member would present the voting procedure to his or her respective agency and/or municipality in order to get approval (and report back to TAC)

Although no "official" action was taken at this meeting, a meeting chairperson was selected. Roger Anclam made a motion that Paul Benjamin act as the meeting chairperson since Rock County Planning is going to be coordinating both plan updates. Howard Hemmer made a second to the motion. The motion was carried and Paul will serve as the meeting chairperson.

Duane Cherek was asked how the City of Janesville conducted their most recent Water Quality Plan Update, and how they went about adjusting SSA boundaries. Mr. Cherek mentioned that Janesville does not directly share borders with any other municipal treatment plant operators like The City of Beloit and Town of Beloit do, but they still had to deal with all of the surrounding towns in a similar fashion as required in both Beloit area plan updates.

Roger Anclam inquired about The Town of LaPrairie's involvement in the process. (?) Wade Thompson mentioned he had discussions with members of the LaPrairie Town Board and at this time they indicated the town is not going to be an active participant.

Caution was raised by a number of TAC members suggesting that even if LaPrairie is not interested in participating in the plan update process, portions of The Town of LaPrairie could possibly be encroached by future SSA boundary adjustments or even included into an SSA should a thorough examination of all things considered indicate it is prudent to do so. This is the case particularly in the extreme southwest corner of the town adjacent to the Rock County Highway G intersection with Town Line Road.

Paul Benjamin asked that TAC members forward any agenda items that might be pertinent for the next TAC meeting. Paul also announced there would be a discussion relative to a recent City of Beloit SSA Amendment at the next TAC meeting. Mike Flesch will present the details and expects that action be taken on the matter. Rock County Planning will forward a copy of the Amendment document to TAC members for their review prior to the meeting.

The next two TAC meetings were tentatively scheduled. The next meeting will be held on April 25th, 2012 at 2:00 and the following meeting will take place on May 16th, 2012.

Frank McKearn made a motion to adjourn the meeting and Brian Wilson seconded the motion. The motion was passed and the meeting ended at 3:15 PM.

These meeting minutes reflect the discussion and activity that took place at the first Technical Advisory Committee meeting for the City of Beloit and Town of Beloit Area Wide Water Quality Management Plan Updates held on Wednesday March 21st, 2012.

Respectfully submitted by Rich Cannon, Rock County Planning on March 23rd, 2012.

City of Beloit and Town of Beloit – Areawide Water Quality Management Plans Update

Technical Advisory Committee Meeting #1

March 21, 2012



1

Today

- Introductions
- Plans Update Goals, Timeline, and Deliverables
- Plans Update Processes and Methodologies
- Technical Advisory Committee Function and Structure
- Wrap Up and Next Steps

2

Introductions

Plans Update – Goals, Timeline, and Deliverables

- **GOALS**
 - *Wisconsin Administrative Code Chapter NR 121 – Areawide Water Quality Management Plan* stipulates municipal sewer systems that serve populations over 10,000 create and adhere to Areawide Water Quality Management Plans (“208 Plans”), with the Plans identifying areas in which municipal sewer service is feasible given existing and potential infrastructure, topography, development, etc.
 - The City of Beloit and Town of Beloit municipal sewer systems are both required to have 208 Plans (per NR 121), and the City and Town both desire to update their 208 Plans.

Plans Update – Goals, Timeline, and Deliverables

GOALS

ENDS:

- Maintain and improve regional water quality
- Provide sewer service in a responsible (efficient and economical) manner
- Promote a regional land use and community development vision



MEANS:

- Identify mutual benefits through inter-governmental communication and cooperation

Plans Update – Goals, Timeline, and Deliverables

TIMELINE

TASK	City of Beloit - Town of Beloit Area-wide Water Quality Management (WQ) Plans Update: 2011 - 2013 - Timeline																								
	2011			2012												2013									
City of Beloit - Town of Beloit WQ Plans Update: 2011 - 2013	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Conduct City of Beloit/Town of Beloit Joint Planning/Implementation (JPI) Committee																									
2. Call on Beloit/Town of Beloit WQ Joint Planning/Implementation and Technical Advisory Committee (JPI/TAC) to provide recommendations to the County Board of Supervisors of North County Planning & Development Commission																									
3. Prepare and complete the water quality assessment																									
4. JPI/TAC Committee meeting to present assessment conclusions, recommendations, and JPI/TAC report																									
5. Primary meeting and review																									
6. Second Primary WQ/TAC application																									
7. JPI/TAC Committee meeting to present and discuss the WQ/TAC application and the primary meeting report and other items																									
8. Meeting of the Commission to review the water quality assessment report and JPI/TAC report																									
9. Primary meeting																									
10. Second Primary WQ/TAC application																									
11. No record public Committee meeting																									
12. No record public Committee meeting																									
13. No record public Committee meeting																									
14. No record public Committee meeting																									
15. No record public Committee meeting																									
16. No record public Committee meeting																									
17. County Board approval of application																									

Plans Update – Processes and Methodologies

- “A good compromise is when both parties are equally unhappy.....”
- Larry David
- **OUR GOAL:** Identify mutual benefits (win-win situations)

Plans Update – Processes and Methodologies

- **OUR PROCESS:** Objective and consistent, using best available data
- **OUR TOOLS???:**
 - o Existing Plans, NR 121, ~~COMM-83~~ *SPS 383*, and County ordinance
 - o Land Use Suitability Evaluation
 - o Cooperative Boundary Agreements
 - o Others

Technical Advisory Committee - Function and Structure

FUNCTION

- Oversee the Plan Updates process (Staff from the Rock County Planning, Economic & Community Development Agency and Environmental Health Department will serve in the role of facilitator and coordinator)

 - Committee activities will include, but are not limited to, the following:
-

Technical Advisory Committee - Function and Structure

FUNCTION

- Gather, present, and analyze data

 - Prepare alternatives and options

 - Select desired alternatives/options

 - Prepare, approve, and recommend deliverables (Plan updates containing desired alternatives/options) to applicable government units
-

Technical Advisory Committee - Function and Structure

FUNCTION - Proposed

- Major decisions/recommendations, etc. shall require Committee action and a vote for approval or denial, in accordance with defined parameters.
-

Technical Advisory Committee - Function and Structure

STRUCTURE - Proposed

- Comprised of all local units of government affected by the Plan updates, including:
 - City of Beloit (Operator)
 - Town of Beloit (Operator)
 - Town of Turtle (Neighboring municipality)
 - Town of Rock (Neighboring municipality)

 - Rock County (Advisory)
 - City of Janesville (Advisory)
-

Technical Advisory Committee - Function and Structure

STRUCTURE - Proposed

- Voting Members
 - City of Beloit
 - Town of Beloit
 - Town of Turtle
 - Town of Rock
 - Non-voting Members
 - Rock County
 - City of Janesville
-

Technical Advisory Committee - Structure and Function

STRUCTURE - Proposed

- Voting share and applicable Plan Updates (see worksheet)
 - Greater than 50% voting share (i.e. "Operator" plus one Neighboring Municipality) shall be required for approval of any major decision/recommendation
 - Committee chair shall be elected by a majority vote of the aforementioned local government units, to coordinate logistical issues (call for actions, votes, etc.)
 - Proposed Committee chair – Rock County Planning, Economic & Community Development Agency Director
-

Discussion....Questions, Comments, etc??

17

Wrap Up and Next Steps

- Next meeting date/time/location....????

18

ROCK COUNTY, WISCONSIN



Planning, Economic & Community
Development Agency

51 South Main Street
Janesville, WI 53545
Phone: 608-757-5587
Fax: 608-757-5586

Website: www.co.rock.wi.us

February 27, 2011

Name
Title, Organization
Address
City, State, Zip

Subject: Formation of City of Beloit – Town of Beloit Areawide Water Quality Management (208) Plans Update - Technical Advisory Committee

Dear Prospective Committee Member:

Wisconsin Administrative Code Chapter NR 121 – Areawide Water Quality Management Plan stipulates municipal sewer systems that serve populations over 10,000 create and adhere to Areawide Water Quality Management Plan (“208 Plans”), with said Plans identifying areas in which municipal sewer service is feasible given existing and potential infrastructure, topography, and other conditions.

The City of Beloit and Town of Beloit municipal sewer systems are both required to have 208 Plans, per NR 121, and the City and Town both desire to update their 208 Plans.

The Rock County Planning, Economic & Community Development Agency (“Agency”) has been in discussions with the various local government units that may be affected by the update to these 208 Plans. In fulfilling our Agency’s mission of promoting inter-governmental communication and cooperation, encouraging a regional land use and community planning and development vision, and enhancing community character, in these discussions the Agency has offered to serve in the role of facilitator in the 208 Plans update process. The aforementioned local government units have been receptive to this offer. As such, Agency and Rock County Environmental Health Department (“Department”) staff have recently convened a City of Beloit – Town of Beloit 208 Plans Update Workgroup, composed of staff from the Agency and Department to serve in the aforementioned facilitator role.

As an initial step in the 208 Plans update process, the Workgroup has proposed formation of a City of Beloit – Town of Beloit Areawide Water Quality Management (208) Plans Update – Technical Advisory Committee (“Committee”), comprised of staff from the City of Beloit, Town of Beloit, Town of Turtle, and Town of Rock, and Rock County and the City of Janesville, to oversee the process of updating the 208 Plans.

As such, this correspondence serves as a request for your participation on the Committee. The Workgroup is proposing the initial Committee meeting take place during the week of March 19 – 23 at the Rock County Courthouse in Janesville. **Please respond to me via phone (608.757.5587) or email (benjamin@co.rock.wi.us) by March 8 to confirm your willingness to serve on the Committee and your availability during the week of March 19 - 23.** I will then follow-up with you to confirm the Committee meeting time and location.

I thank you for your time and effort and look forward to hearing from you.

Sincerely,
Paul Benjamin, Director
Rock County Planning, Economic & Community Development Agency

Beloit Area Water Quality Planning TAC
Names, addresses, e-mail addresses and phone numbers of participants

Name	Municipality/organization	e-mail	Phone number	Cell Phone	address
Roger Anclam	T. of Turtle	anclam@charter.net	751-8104	289-4570	
Alan Arndt	T. of LaParirie	aarndt@t6b.com		774-0136	
Mark Gunn	T. of Rock	We6Pigs@yahoo.com	752-8569	921-0268	
Amy Schmidt	DNR	Amy.Schmidt@wisconsin.gov	608-275-3258		
Brian Wilson	T. of Beloit	bwilson@town.beloit.wi.us	364-2980; 5		
Howard Hemmer	T. of Beloit	hhemmer@town.beloit.wi.us	364-2982		
Frank McKearn	Batterman Engineering (T. of Beloit)	fmckern@rhbatterman.com	365-4464		
Mike Flesch	C. of Beloit	FleschM@ci.beloit.wi.us	364-6690		
Harry Mathos	C. of Beloit		364-6690		
Luke Arnold	C. of Beloit		364-6690		
Bill Frisbee	C. of Beloit		364-6690		
Matt Wesson	Rock County Health Department	WESSON@co.rock.wi.us			
Duane Cherek	C. of Janesville	Cherekd@ci.janesville.wi.us			
Wade Thompson	North is Up Mapping Solutions	walthomps@gmail.com		360-970-6710	
Tim Banwell	Rock County Health Department	BANWELL@co.rock.wi.us	757-5405	728-0715	
Paul Benjamin	Rock County Planning & Development Department	benjamin@co.rock.wi.us	757-5583	289-8767	

**CITY OF BELOIT – TOWN OF BELOIT
AREAWIDE WATER QUALITY MANAGEMENT PLAN UPDATES:
TECHNICAL ADVISORY COMMITTEE**

City of Beloit (Both Plan updates)

1. Mike Flesch - Public Works Director/City Engineer
2. Harry Mathos - Wastewater Treatment Facility Supervisor
3. ? - Project Engineer

Town of Beloit (Both Plan updates)

1. Brian Wilson - Town Administrator
2. Howard Hemmer - Public Works Director
3. ? - Wastewater Treatment Facility Supervisor

Town of Turtle (City of Beloit Plan update only)

1. Roger Anclam - Technical Representative as appointed by Town

Town of Rock (Town of Beloit Plan update only)

1. Mark Gunn - Technical Representative as appointed by Town

City of Janesville (Both Plan updates)

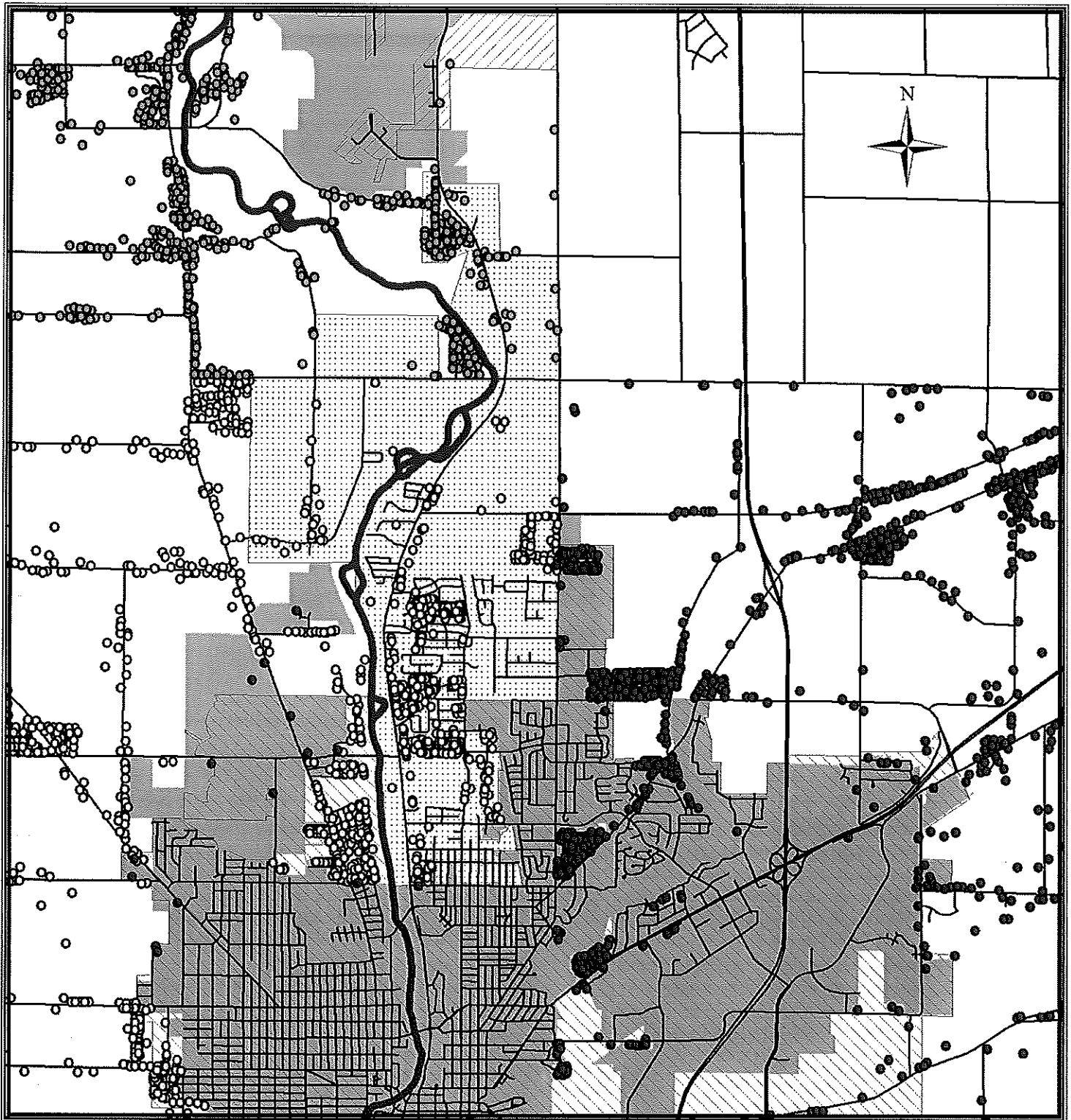
1. Duane Cherek - Community Development Department staff




Rock County (Both Plan updates)

1. **Planning, Economic & Community Development Agency**
 - a. Paul Benjamin - Director
 - b. Rich Cannon - Engineer
 - c. Wade Thompson - Planner

2. **Environmental Health Department**
 - a. Tim Banwell - Director
 - a. Matt Wesson - Sanitarian

Beloit Region Sewer Service Areas & Private Onsite Wastewater Treatment Systems (POWTS)



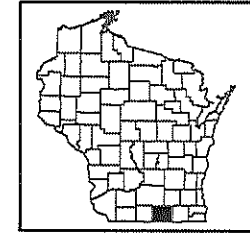
- | | | |
|------------------------|---|---------------------------------------|
| ● City of Beloit POWTS |  | City of Beloit Sewer Service Area |
| ● Town of Turtle POWTS |  | City of Janesville Sewer Service Area |
| ○ Town of Rock POWTS |  | Town of Beloit Sewer Service Area |
| ○ Town of Beloit POWTS | | |



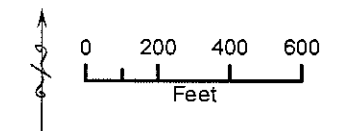
Valley Crest Sewer Services

Town of Turtle, Wisconsin

2/28/2012



- Gravity Main
- Gravity Main
- Force Main
- Pressurized Main
- ▨ Sewer Service Areas
- Rivers and Streams
- ▨ Rivers, Lakes, and Ponds
- Cities and Villages
- Railroad
- Roads**
- Other Roads
- County Trunk
- Highway
- Interstate



Duplication of this map is prohibited without written consent of the Rock County Planning, Economic and Community Development Agency. The data in this map was compiled using the Rock County Coordinate System. All graphic and attribute information is based on the Rock County Coordinate system. This map is not intended to be a substitute for an actual field survey and is an advisory reference only.

Rock County Geographic Information Systems (GIS)
Planning, Economic and Community
Development Agency
51 S Main St, Janesville, WI 53545
(TEL) 608-757-5597, (FAX) 608-757-5586
email: Planning@co.rock.wi.us



AGENDA

**Rock County Planning, Economic & Community Development Agency –
Technical Advisory Committee Meeting - City of Beloit and Town of Beloit
Areawide Water Quality Management Plans Update**

April 25, 2012 – 2:00 p.m.

Courthouse Conference Center (Room 250) – Rock County Courthouse

51 S. Main Street, Janesville

THIS IS NOT A PUBLIC HEARING

- 1) Approval of Agenda
- 2) Approval of Minutes from April 4, 2012 Meeting
- 3) Citizen Participation and Committee Communications and Announcements
- 4) ACTION ITEM: City of Beloit Amendment to Existing Plan
- 5) ACTION ITEM: Approval of Technical Advisory Committee Structure and Function and Goal Statement
- 6) INFORMATION ITEM: Data Inventory
 - a. Growth and Development
 - b. Natural Resources and Water Quality
 - c. Wastewater Treatment
- 7) General Comment and Discussion
- 8) Wrap Up and Next Steps

NOTE: It is possible that members of and possibly a quorum of other governmental bodies of Rock County may be in attendance at the above-stated meeting to gather information: any governmental body at the above-stated meeting will take no formal action.

City of Beloit and Town of Beloit
Area Wide Water Quality Management Plan Updates
(Meeting Minutes from April 25th, 2012)

The second meeting for the Technical Advisory Committee (TAC) of the City of Beloit and Town of Beloit Area Wide Water Quality Management Plans Update effort was called to order at 2:00 PM on Wednesday April 25th, 2012.

Paul Benjamin called the meeting to order.

Each TAC member was asked to examine the meeting agenda. A call was made to have the TAC approve the meeting agenda. Mike Flesch moved to add an additional item to the meeting agenda, specifically Item No.9 "Meeting Adjournment". Roger Anclam made a second. A vote was taken and the motion passed. Item #9 was subsequently added to the meeting agenda.

A call was made for any citizen communication and general announcements. Paul Benjamin reaffirmed that the Rock County Planning Agency was awarded a \$10,000 Water Quality Study/Planning Grant from the Wisconsin DNR. No citizen comments were made.

A call for approval of the minutes from TAC Meeting #1 was made. Roger Anclam move to approve the minutes and, Frank McKearn made a second. A vote was taken and motion was passed. The minutes were approved as submitted.

Paul Benjamin asked that all present introduce themselves for the benefit of all others in attendance. Introductions were made.

Those present included:

Roger Anclam – Town of Turtle
Alan Arndt – Town of LaPrairie
Mark Gun – Town of Rock
Amy Schmidt – Wisconsin Dept. Natural Resources (DNR)
Brian Wilson – Town of Beloit
Howard Hemmer – Town of Beloit
Frank McKearn – Batterman Engineering (for Town of Beloit)
Mike Flesch – City of Beloit
Harry Nathos – City of Beloit
Luke Arnold – City of Beloit
Bill Frisbee – City of Beloit
Matt Wesson – Rock County Health Department
Duane Cherek – City of Janesville
Phil Owens – Rock County Board of Supervisors
Wade Thompson – Rock County Planning
Paul Benjamin – Rock County Planning
Rich Cannon – Rock County Planning

Paul Benjamin mentioned the need to address the first action item on the agenda, specifically review and act on a proposed amendment to the current Beloit-Clinton Area Water Quality Management Plan. Rich Cannon was asked to discuss the overall Rules of the current Beloit Area Plan as they pertain to the amendment process.

Phil Owens raised a question in regard to the last TAC meeting (TAC Meeting #1) with respect to each member's authority to make votes as necessary. His point being conflicts would be avoided provided each TAC member received authority indemnifying them to act as an official voting member of the TAC. There were no comments made indicating that any TAC member could not act as a voting member. In addition, as was mentioned during TAC Meeting #1 there will be instances when TAC members will need to have other agency members become involved with decision making, and at those times there will be an amount of lead-time given to each TAC in order to conduct necessary correspondence with other their respective agencies.

Rich Cannon briefly discussed the current plan amendment process, which included the types of amendments that can be made and the number of amendments made to the current plan since first adopted.

Mike Flesch was asked to make a presentation regarding the City of Beloit's proposed Sewer Service Plan Amendment. He then asked Luke Arnold, a City of Beloit Project Engineer to present a series of slides detailing the amendment proposal. In Luke Arnold's presentation he stated that certain criteria as established by the DNR had to be met before the DNR would entertain approving such a proposal. Luke discussed the nature of the amendment's timeframe, when the area under review received sewer installation, and the basic DNR criteria. In conclusion Luke stated he and The City of Beloit believe the terms of the proposed amendment satisfy the DNR criteria. There were no immediate questions.

Mike Flesch motioned to have the amendment approved and Harry Mathos made a second. A lengthy discussion ensued.

Roger Anclam presented a letter generated by the Town of Turtle's legal counsel in response to the proposed amendment. He stated that it is the opinion of the Town of Turtle Board of Supervisors and the town's legal counsel that the amendment proposal as documented does not meet the criteria set forth by the DNR. He mentioned this with respect to development/population density and a number of private on-site sewer systems adjacent to Turtle Creek. Roger further stated the Town of Turtle would take whatever measures available to them in order to make sure this proposal cannot be enacted. In addition, for matters concerning the Town of Turtle's fiscal well being (and others) he said that it was difficult to separate the technical aspects or merits of the proposed amendment with Town of Turtle policy matters.

Several other members of the TAC started their respective viewpoints and commented on this issue. Comments included but were not limited to:

- Had The City of Beloit amended the current plan as required every five years there is a high likelihood that the issue would not be in front of the TAC at this time.
- Due to today's technology private on-site sewerage systems are efficient and can achieve the same result in terms of water quality as a municipal sewer plant.
- The City of Beloit and The Town of Turtle need to work out their differences outside the purview of the TAC.
- The "elephant in the room is the issue of City of Beloit annexation into the Town of Turtle.
- The issue the amendment addresses at this time is with respect to Water Quality and not other issues such as annexation and border agreements.
- Only contiguous parcels would be candidates for annexation provided they hook up to City of Beloit sewer system.
- This is not an extension to the current system because There already is sewer pipe in the ground beneath Claremont Drive in The Town of Turtle
- When major repairs are needed to an existing on-site septic system located in Rock County such as a new tank, or a new drain field, etc., The Rock County Health Department will not approve or issue a permit for that work if the property is within a metropolitan sewer service area (SSA).
- As citizens residing in The Town of Turtle hook up to The City of Beloit's municipal sewer system the town loses a portion of its tax base.
- Entire parcels should be considered when drawing future plan boundary lines.
- DNR is the agency that determines if there is a significant change in population density, which can trigger the need for and ultimate approval of an amendment such as the one proposed today.
- This body (TAC) should move forward to the next step.
- In the past named members of the TAC voted on a per person basis by agency, which is not the same procedure as the proposed method of voting will take place during this plan update effort.
- The DNR should be forwarded all materials presented in Meeting #2 with respect to the proposed amendment so they can make a decision on the technical merits, including population density for approval or denial.

- If it were left up to the legal system, or the legal representatives from each municipality ultimate approval and/or denial of this amendment might not take place for years.

Phil Owens commented that in order to have the DNR do a review and possibly make the decision concerning the appropriateness of the amendment as proposed it would be necessary to first have someone make a motion to withdraw the current motion and second from the floor that enabled the on-going discussion.

Paul Benjamin said the TAC might be seen as abdication its responsibilities in resolving this type of disagreement.

Frank Mckearn made the comment that as much as Rock County would like to be neutral and facilitate cooperative action and positive results it has a responsibility to forward the material to the DNR for their role as arbiter in passing judgment on the merits of the proposed amendment. In the future the TAC will have a difference voting procedure and the will have

Mike Flesch removed his motion that called for amendment approval from the floor and Harry Mathos then withdrew his second to that motion. A vote was taken and the motion was passed; the original motion was taken off the floor.

A motion was made by Mike Flesch to send all material discussed at the meeting, including the letter from the Town of Turtle's legal counsel in objecting to the proposed amendment, and the City of Beloit's power point presentation, etc. Roger Anclam made a second to the motion. A vote was taken and the motion was passed.

Wade Thompson was asked to make a brief presentation regarding TAC functions and operational procedures. He went on to review the voting structure by voting member and voting shares.

Mike Flesch commented on adding a politically oriented representative to the list of voters within each voting block. Such a person might not always attend the TAC meetings but depending on the nature of the material being presented that person might want to attend any given meeting in order to have a voice in certain decision-making activities on behalf their respective municipality.

Wade Thompson reiterated there is an overall goals statement with respect to the plan update and asked that all TAC members recognize that there are two plan to develop and update and participation in the TAC is to cooperate and communicate with each other, work to identify common interests faced by the area municipalities and solutions that will benefit each community. The mission statement includes the following goals:

- Maintain and improve overall groundwater quality;

- Provide public sewer service in an cost effective, efficient, and environmentally sound manner; and,
- Promoting a regional land-use and community development vision.

A motion was made by Mike Flesch to approve the goals statement as presented and in addition include language that makes it clear that within each TAC voting block individual members are able to specify anyone from their respective agency to attend TAC meetings as a “designee” and furthermore can vote on behalf of that voting block while in attendance. Brian Wilson made a second. A vote was taken and the motion passed.

Wade Thompson made a brief presentation regarding data inventory relating to the plan update. Specifically three categories (1) Growth and Development, (2) Natural Resources and Water Quality, and, (3) Wastewater Treatment were presented.

Wade discussed a number of exhibits generated by staff, which includes tabulated historic (past 30-year) population trends, population estimates generated by the Wisconsin Department of Administration, and Housing trends within the plan up-date study area. Wade stressed keeping a regional picture in mind. Over the course of the plan update effort there will be an analysis of household data as well.

Duane Cherek commented on establishing a benchmark with respect to population aids in locating anticipated growth by number and by area over time.

Wade went on to present a number of maps depicting a variety of data sets. One map displayed The City of Beloit’s historic boundaries, which included all annexed areas over the past twenty-year period. The map listed the number of acres that have been annexed each decade and addresses where development has taken place in the towns. Hatched areas represent suitable locations where soil conditions are able to support private on-site sewer systems.

Another map, “Natural Resources” depicted areas where environmentally sensitive conditions exist such as soil types, wetlands, public lands, and, existing conservation easements. This map also includes areas that support prime agricultural activities.

Frank McKearn pointed out specific areas in the Town of Beloit owned by the town. Alan Arndt mentioned that certain areas not defined as “productive lands” may in fact be productive and vice versa. Wade Thompson responded by acknowledging modifications could be made to all maps to obtain the most current data and to reflect each community’s intentions pertaining to land use prior to taking any action or making any critical planning decisions.

Matt Wesson was asked to make a brief presentation regarding data collected by the Rock County Health Department.

Matt presented a map depicting area groundwater nitrate and bacteria levels. This data reflects private wells that have been tested by the State of Wisconsin hygiene labs and possibly other labs as recorded by the Rock County Health Department. This information may assist the TAC in formulating locations that ultimately can and/or cannot support future on-site private wells or wastewater treatment systems.

A third map presented by Matt displayed the depth to bedrock and locations within the same area where high groundwater tables exist.

Finally Wade Thompson discussed a map displaying where existing on-site wastewater treatment systems are located within the study area.

Harry Mathos and Howard Hemmer were asked to present a brief overview of The City of Beloit's, and the Town of Beloit's treatment plant existing processing capabilities.

Harry Mathos explained that two main interceptor lines and two main pumping stations feed the city's plant. He briefly explained the plant's treatment process, flow characteristics, and processes. He then mentioned the plant's current influent and effluent levels as they fall below the city's permitted levels.

Howard Hemmer discussed the Town of Beloit's plant activity and characteristics. Howard explained the system has eleven pumping stations that feed the plant. Currently the plant performs at levels below its permitted values. There are 1,912 connected users in the Town of Beloit and 11 in the Town of Rock, which include Blackhawk Technical College, and several other commercial customers.

Wade Thompson asked what data sets group members would like to examine for the next meeting. Duane Cherek suggested creating a data set that reflects each community's future land use projections.

Paul Benjamin asked for any other comments or questions. Alan Arndt spoke on behalf the Town of LaPrairie. With one possible exception he mentioned he would not expect that future development in the town would necessitate extending public sewer lines into LaPrairie. The possible exception being if an amount of agricultural related processing locates in the southwester most corner of the town.

Mike Flesch asked that a steering committee within the TAC be formed to provide guidance to the TAC so any obstacles faced by the different agencies could be resolved between monthly TAC meetings. The steering committee will also assist in setting TAC meeting agendas and make suggestions for homework assignments. Brian Wilson suggested it would be useful to hold steering committee meeting at the midpoint between regularly scheduled TAC meetings.

There was favorable feedback concerning forming a steering committee comprised of representatives from The City of Beloit, The Towns of Beloit, Rock and Turtle, and Rock County. Scheduled will be determined the committee.

A call for a motion to form a steering committee as previously discussed was made. Roger Anclam made a motion to approve forming a steering committee within the TAC. Mike Flesch made a second to the motion. A vote was taken and the motion passed.

The next TAC meeting was scheduled. The meeting will be held on Wednesday May 23rd, 2012 at 2:00PM at the Rock County Courthouse.

A call was made to adjourn the meeting. Mike Flesch made a motion to adjourn the meeting. Brian Wilson seconded the motion. A vote was taken and the motion passed. The meeting ended at 4:00 PM.

These meeting minutes reflect the discussion and activity that took place at the second Technical Advisory Committee meeting for the City of Beloit and Town of Beloit Area Wide Water Quality Management Plan Updates held on Wednesday April 25th, 2012.

Respectfully submitted by Rich Cannon, Rock County Planning on May 7th, 2012.

City of Beloit and Town of Beloit – Areawide Water Quality Management Plans Update

Technical Advisory Committee Meeting #2

April 25, 2012



1

Today

- City of Beloit Plan Amendment
- Approval of TAC Function, Structure, and Goal Statement
- Data Inventory
 - Growth and Development
 - Natural Resources and Water Quality
 - Wastewater Treatment
- Wrap Up and Next Steps

2

City of Beloit Plan Amendment

- Process:
 - Meet six criteria established by DNR
 - Technical Committee review and approval with recommendation to Policy Committee
 - Policy Committee review and approval with acknowledgement of Technical Committee and recommendation to DNR
 - DNR review and approval
-

3

City of Beloit Plan Amendment

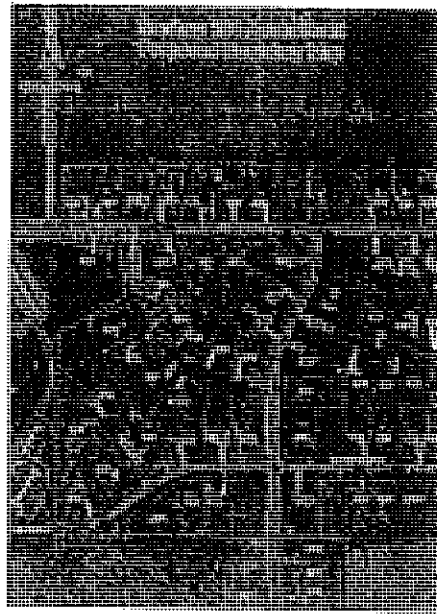
- Process identified in existing Plan
 - Two types of amendments
 - No change in total service area (by acre)
 - Increase in total service area (adjusted to fit need)
-

4

City of Beloit Plan Amendment

- Amendments under existing Plan:

- o August 2008 ✓
- o January 2006 ✓
- o March 2005 ✓



5

Approval of TAC Function and Structure

FUNCTION

- Oversee the Plan Updates process (Staff from the Rock County Planning, Economic & Community Development Agency and Environmental Health Department will serve in the role of facilitator and coordinator)
- Committee activities will include, but are not limited to, the following:

Approval of TAC Function and Structure

FUNCTION

- o Gather, present, and analyze data
 - o Prepare alternatives and options
 - o Select desired alternatives/options
 - o Prepare, approve, and recommend deliverables (Plan updates containing desired alternatives/options) to applicable government units
-

Approval of TAC Function and Structure

FUNCTION - Proposed

- o Major decisions/recommendations, etc. shall require Committee action and a vote for approval or denial, in accordance with defined parameters.
-

Approval of TAC Function and Structure

STRUCTURE - Proposed

- Comprised of all local units of government affected by the Plan updates, including:
 - City of Beloit (Operator)
 - Town of Beloit (Operator)
 - Town of Turtle (Neighboring municipality)
 - Town of Rock (Neighboring municipality)

 - Rock County (Advisory)
 - City of Janesville (Advisory)
 - Wisconsin Department of Natural Resources (Advisory)

Approval of TAC Function and Structure

STRUCTURE - Proposed

- | | |
|------------------|----------------------|
| ◦ Voting Members | ◦ Non-voting Members |
| ◦ City of Beloit | ◦ Rock County |
| ◦ Town of Beloit | ◦ City of Janesville |
| ◦ Town of Turtle | ◦ DNR |
| ◦ Town of Rock | |

Approval of TAC Function and Structure

STRUCTURE - Proposed

- Voting share and applicable Plan Updates (see worksheet)
- Greater than 50% voting share (i.e. “Operator” plus one Neighboring Municipality) shall be required for approval of any major decision/recommendation
- Committee chair shall be elected by a majority vote of the aforementioned local government units, to coordinate logistical issues (call for actions, votes, etc.)
 - Proposed Committee chair – Rock County Planning, Economic & Community Development Agency Director

TAC Goal Statement – Proposed

The City of Beloit and Town of Beloit Areawide Water Quality Management Plans Update Technical Advisory Committee (TAC) will update the City of Beloit’s Plan and develop a Plan for the Town of Beloit.

Throughout the Plan update and development process, the TAC will rely on the tenets of inter-governmental communication and cooperation, striving to identify common interests and solutions that will benefit all affected parties.

The completed Plans will be premised on the following three principles:

1. Maintaining and improving regional water quality;
2. Providing sewer service in an efficient, economical, and environmentally sound manner;
3. Promoting a regional land-use and community development vision;

Data Inventory

- Growth and Development
- Natural Resources and Water Quality
- Wastewater Treatment

Growth and Development -- Population Trends: Municipal

	1980 DOA Est.	1990 Census	1990 DOA Est.	1990 Census	2000 DOA Est.	2000 Census	2010 DOA Est.	2010 Census	Change 1990- 2010 Census	Average Difference Between Census and DOA Est.
City of Bristol	35,171	35,207	34,714	35,573	36,217	35,775	37,000	38,966	1,759	-445
Town of Bristol	7,974	8,362	7,204	6,778	7,271	7,038	7,522	7,662	-720	216
Town of Hurler	2,440	2,703	2,653	2,458	2,507	2,444	2,444	2,388	-315	9
Town of Rock	3,166	3,399	3,394	3,172	3,109	3,338	3,265	3,196	-203	-223
Town of Larrabee	961	1,099	969	943	925	929	887	834	-265	-103

Growth and Development – Population Trends: Region

	1980 DOA Est.	1980 Census	1990 DOA Est.	1990 Census	2000 DOA Est.	2000 Census	2010 DOA Est.	2010 Census	Change: 1980- 2010 Census	Average Difference Between Census and DOA Est.
City of Bollet and Towns of Bollet, Tulle, Rock, and Laraine	49,712	50,790	48,934	48,924	50,029	49,524	51,118	51,046	258	-123
City of Bollet and Towns of Bollet and Tulle	45,585	46,292	44,571	44,809	45,995	45,257	46,966	47,016	724	-84

- Population growth in the region has been slow to moderate over the past 30 years.
- DOA estimates have mirrored actual population growth.

Growth and Development – Population Projections: Municipal and Region

	2015 DOA Est.	2020 DOA Est.	2025 DOA Est.	2030 DOA Est.	Change: 2015- 2030 DOA Est.
City of Bollet	36,957	37,355	37,619	37,729	772
Town of Bollet	7,364	7,366	7,383	7,349	-15
Town of Tulle	2,396	2,370	2,333	2,286	-108
Town of Rock	3,408	3,436	3,450	3,450	42
Town of Laraine	853	828	800	769	-84

	2015 DOA Est.	2020 DOA Est.	2025 DOA Est.	2030 DOA Est.	Change: 2015- 2030 DOA Est.
City of Bollet and Towns of Bollet, Tulle, Rock, and Laraine	50,978	51,375	51,585	51,585	607
City of Bollet and Towns of Bollet and Tulle	46,717	47,111	47,335	47,366	649

- DOA estimates project continued slow to moderate growth in the region over the next 20 years.

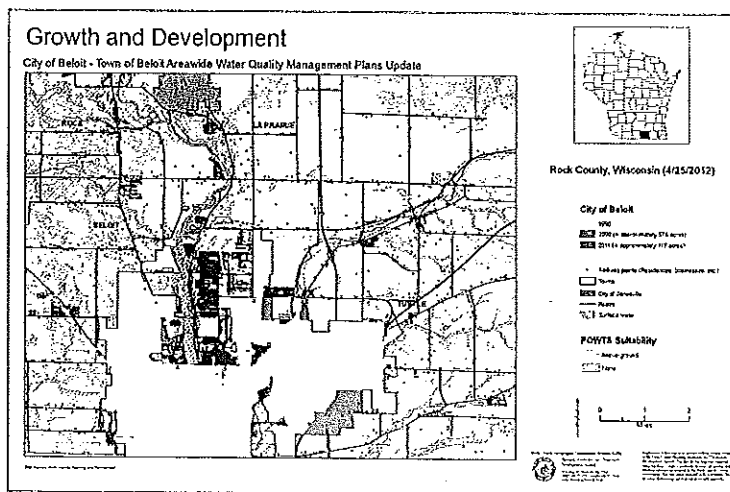
Growth and Development – Housing Units Trend: Municipal and Region

	1980 Census	1990 Census	2000 Census	2010 Census	Change: 1980-2010 Census
City of Beloit	13,415	14,033	14,263	15,177	1,762
Town of Beloit	3,057	2,813	2,938	3,307	250
Town of Burlington	912	918	1,010	1,002	90
Town of Watrous	1,050	1,165	1,360	1,346	296
Town of La Prairie	358	325	362	354	-4

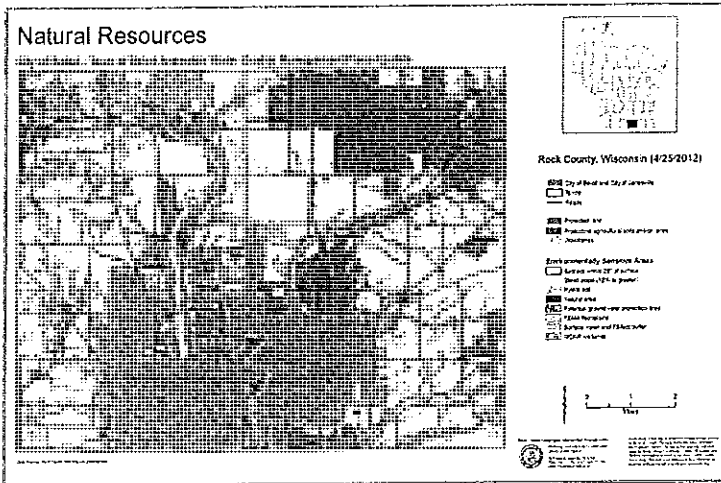
	1990 Census	2000 Census	2010 Census	Change: 1990-2010 Census
City of Beloit and Towns of Beloit, Burlington, and Watrous	18,782	19,042	21,189	2,394
City of Beloit and Towns of Beloit and Watrous	17,384	17,562	19,486	2,102

- Housing unit growth in the region has been slow to moderate over the past 30 years.

Growth and Development – Land Use Trends

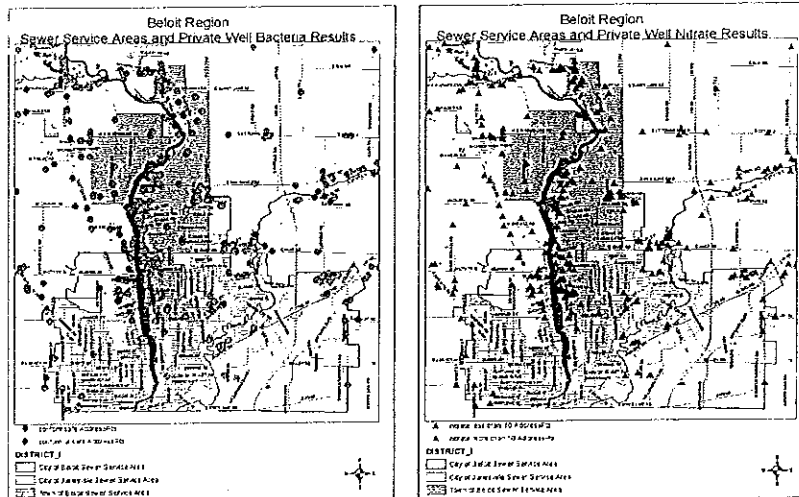


Natural Resources and Water Quality



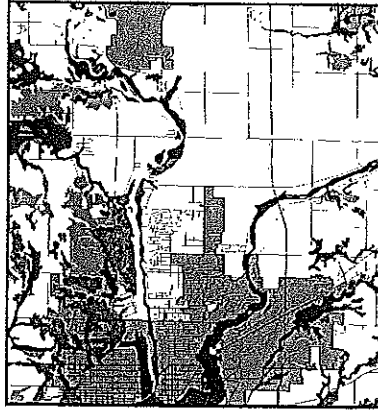
Natural Resources and Water Quality

Well testing data – Bacteria & Nitrate



Natural Resources and Water Quality

Greater Beloit Region
High Bedrock & Groundwater Areas



- planning PLAN190 Sols_Bedrock_20_or_Less
- planning PLAN190 Sols_Bedrock_20_to_40
- planning PLAN190 Sols_DepthOver40_0_to_1
- planning PLAN190 Sols_DepthOver40_1_to_2



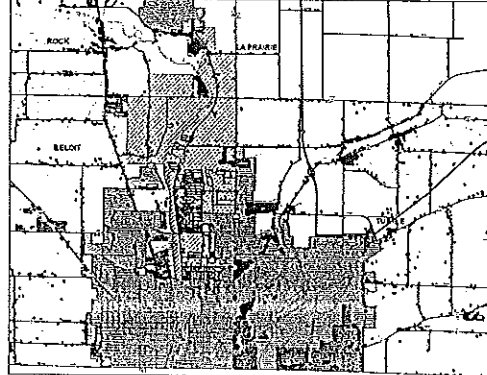
Potentially sensitive areas

- High Bedrock
- High Groundwater

Wastewater Treatment

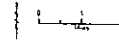
Wastewater Treatment

City of Beloit - Town of Beloit Area-wide Water Quality Management Plans Update



Rock County, Wisconsin (4/25/2012)

- City of Beloit and City of La Prarie
- Town
- County
- City of Rock County Service Area
- City of Beloit County Water
- City of Beloit Service Area
- Town of Beloit Service Area
- City of Beloit Town of Beloit boundary agreement area
- City of Beloit - PCAT3
- Town of Beloit - PCAT3
- Town of Rock - PCAT3
- Town of La Prarie - PCAT3



City of Beloit - Town of Beloit Area-wide Water Quality Management Plans Update

Wastewater Treatment – City of Beloit and Town of Beloit Data

Wrap Up and Next Steps

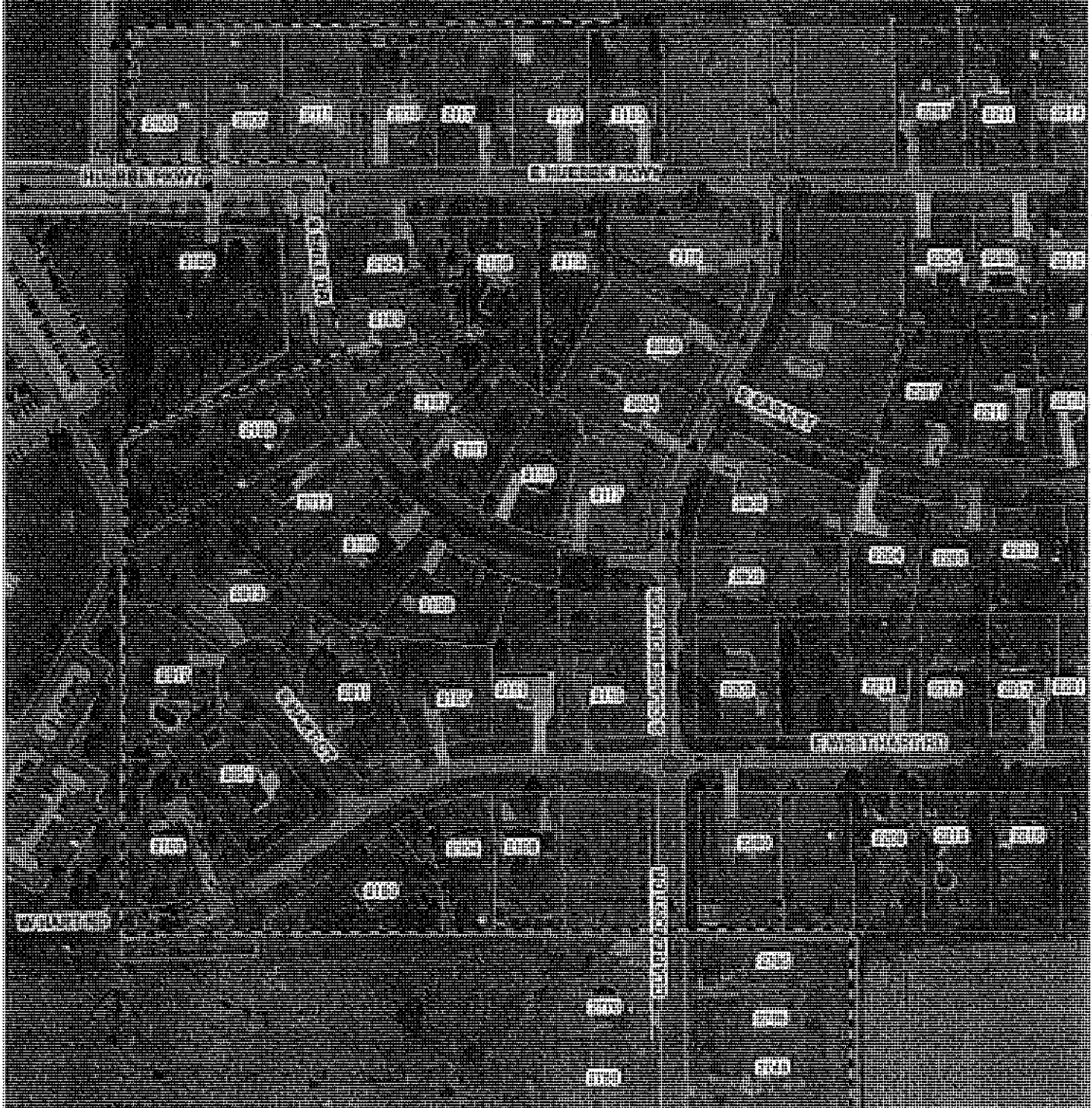
- Next meeting date/time/location....????
-

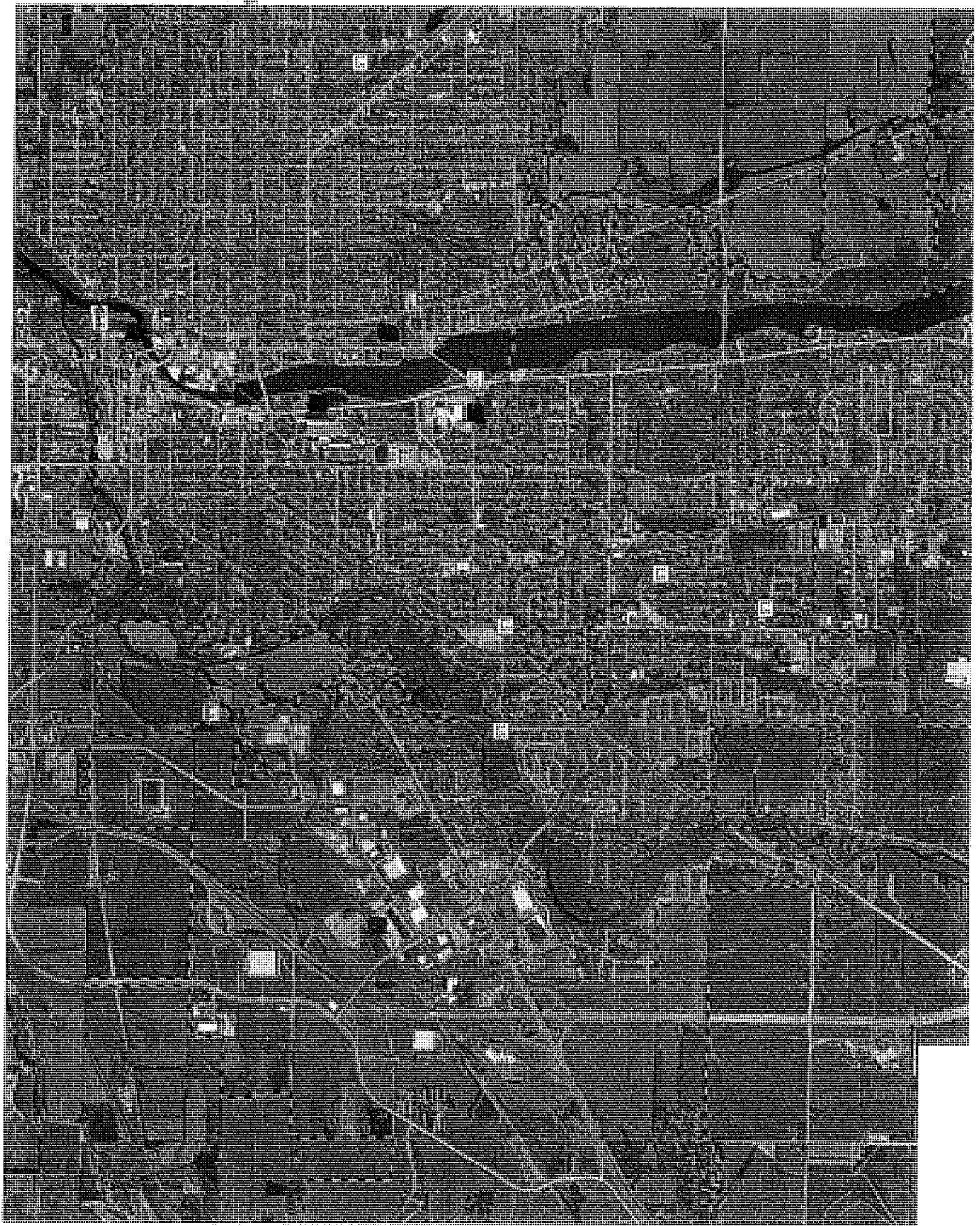
Discussion...Questions, Comments, etc??

Sanitary 208 Amendment Proposed Boundary Map



11/16/2013 10:00 AM





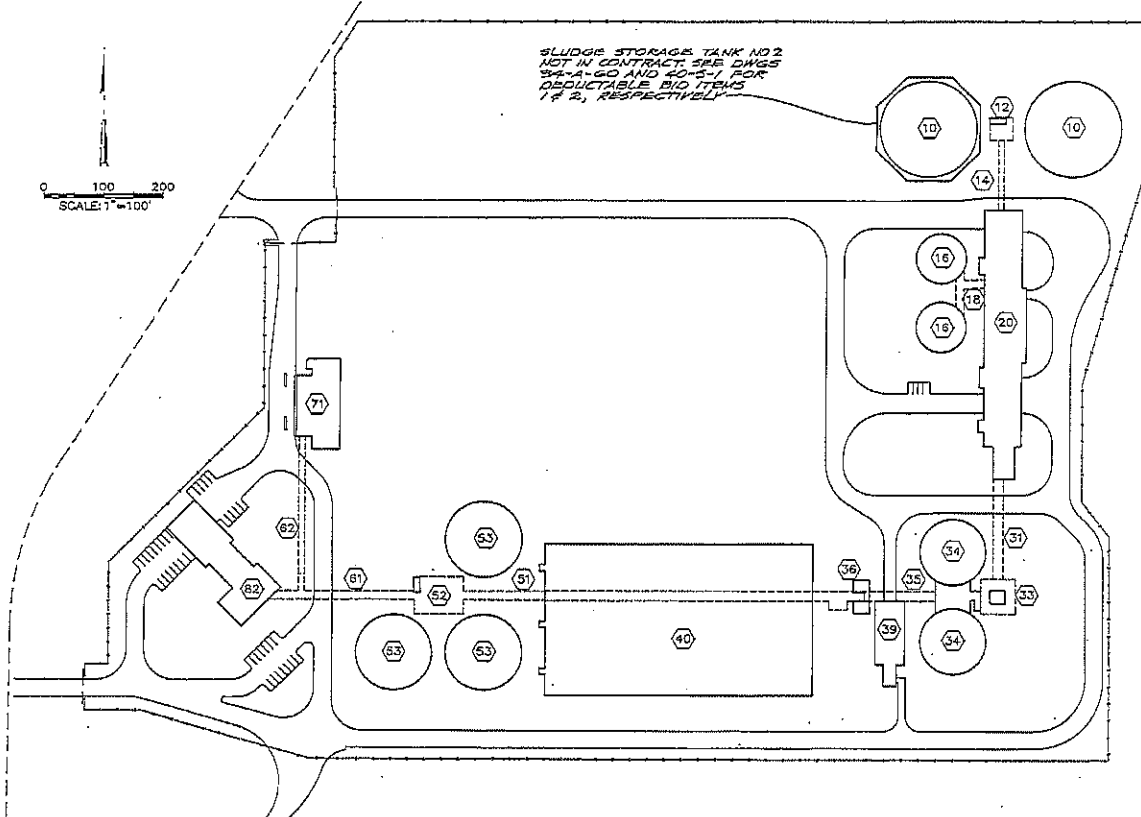


CITY OF BELOIT SEWER USER DATA

RESIDENTIAL: 13,598

COMMERCIAL: 1,492

INDUSTRIAL: 11



BUILDING AND STRUCTURE INDEX

NUMBER	FACILITY NAME
10	SLUDGE STORAGE
12	SLUDGE PUMP STATION
14	SLUDGE GALLERY
16	ANEROBIC DIGESTER
18	DIGESTION GALLERY
20	PROCESS BUILDING
31	PRIMARY GALLERY
33	PRIMARY SLUDGE PUMP STATION
34	PRIMARY CLARIFIER
35	AERATION GALLERY
36	AERATION DISTRIBUTION BOXES
38	BLOWER BUILDING
40	AERATION BASINS
51	SECONDARY GALLERY
52	RAS PUMP STATION
53	SECONDARY CLARIFIERS
51	ADMINISTRATION GALLERY
52	DISINFECTION GALLERY
71	DISINFECTION FACILITY
82	ADMINISTRATION BUILDING

DRAWING NUMBER DESIGNATION

INDICATES FACILITY NUMBER. SEE BUILDING AND STRUCTURE INDEX THIS SHEET

INDICATES DRAWING NUMBER

INDICATES DISCIPLINE:

- A ARCHITECTURAL
- C CIVIL/SITEWORK
- S STANDARD DETAILS
- E ELECTRICAL
- G GENERAL
- H HVAC
- L LANDSCAPING
- M MECHANICAL
- I & C I & C
- P PLUMBING
- S STRUCTURAL
- Y YARD UTILITIES

DETAIL AND SECTION DESIGNATION

SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION

DRAWING NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON SAME SHEET)

ON DRAWING WHERE SECTION OR DETAIL IS TAKEN:

ON DRAWING WHERE SECTION OR DETAIL IS SHOWN:

ON DRAWING WHERE SECTION OR DETAIL IS TAKEN:

ON DRAWING WHERE SECTION OR DETAIL IS SHOWN:

STANDARD DETAIL DESIGNATION

ON DRAWING WHERE DETAIL IS TAKEN:

ON DRAWING WHERE DETAIL IS SHOWN:

SEE 311

311

STANDARD DETAIL DESIGNATION

DESIGN: GILGENBACH
 CHECKED: J. GILGENBACH
 C.W.A. ERICSON
 APPROVED: W.K. ERICSON

NO.	DATE	REVISION	BY	APPROVED

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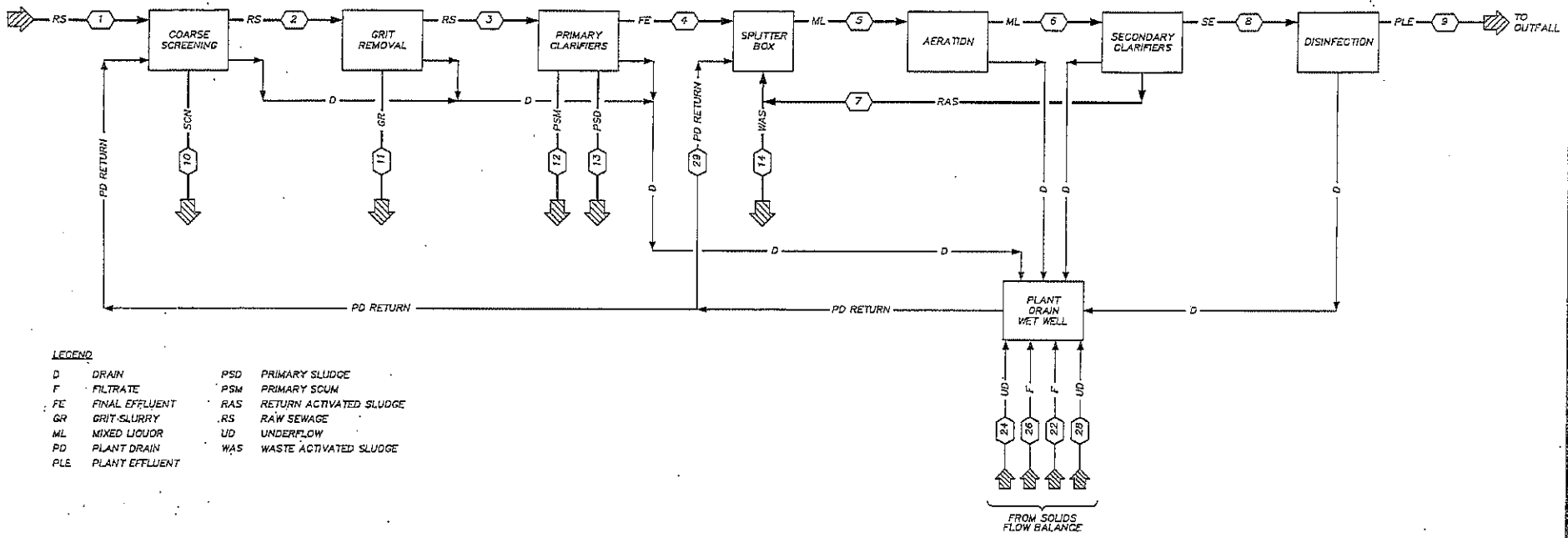
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CITY OF BELOIT, WISCONSIN
 WASTEWATER SYSTEM IMPROVEMENTS

CONTRACT NO. 4 - WASTEWATER TREATMENT PLANT

GENERAL SITE PLAN AND DESIGNATION LEGEND

SHEET 2
 DWG. NO. 4-G-2
 DATE DEC 1988
 PLOT NO. L21585.11

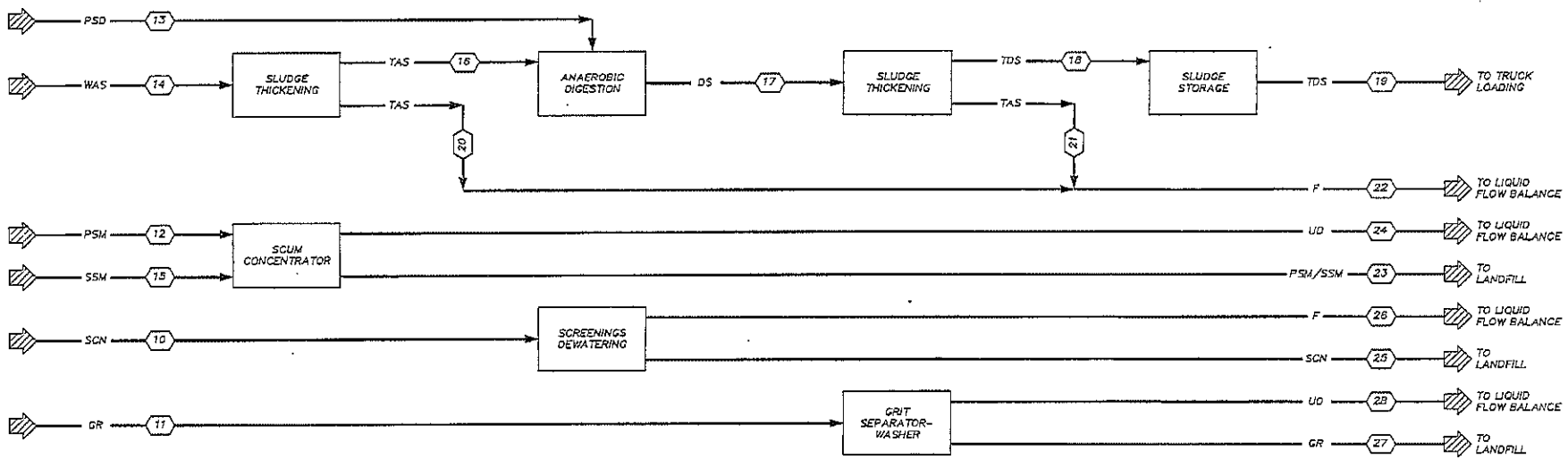


LEGEND

D DRAIN
 F FILTRATE
 FE FINAL EFFLUENT
 GR GRIT SLURRY
 ML MIXED LIQUOR
 PD PLANT DRAIN
 PLE PLANT EFFLUENT
 PSD PRIMARY SLUDGE
 PSM PRIMARY SCUM
 RAS RETURN ACTIVATED SLUDGE
 RS RAW SEWAGE
 UD UNDERFLOW
 WAS WASTE ACTIVATED SLUDGE

STREAM IDENTIFICATION	FLOW RATE (MGD)					BOD (LBS./DAY)					TSS (LBS./DAY)					NH ₃ -N (LBS./DAY) NITRIFICATION MODE				
	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)
1 RAW SEWAGE	6.2	8.3	18.6	19.2	22.4	20,610	43,680	53,520	57,460	67,750	20,660	32,520	37,310	40,600	55,920	1,730	2,780	3,515	3,777	4,717
2 GRIT BASIN INFLUENT	6.2	8.3	18.6	19.2	22.4	20,610	43,680	53,520	57,460	67,750	20,660	32,520	37,310	40,600	55,920	1,730	2,780	3,515	3,777	4,717
3 PRIMARY INFLUENT	6.2	8.3	18.6	19.2	22.4	20,610	43,680	53,520	57,460	67,750	20,660	32,520	37,310	40,600	55,920	1,730	2,780	3,515	3,777	4,717
4 PRIMARY EFFLUENT	6.2	8.3	18.6	19.2	22.3	15,870	33,634	41,211	44,244	52,169	10,330	16,262	18,654	20,300	27,960	1,730	2,780	3,515	3,777	4,717
5 AERATION INFL (EXCL RAS)	6.6	8.9	19.3	19.9	23.2	16,365	34,497	42,187	45,305	53,580	11,979	19,136	21,908	23,835	32,625	2,799	4,584	5,565	6,006	7,899
6 AERATION EFTL (INCL RAS)	12.8	17.2	37.9	39.1	45.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7 RETURN ACTIVATED SLUDGE	6.2	8.3	18.6	19.2	22.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8 SECONDARY EFFLUENT	6.4	8.4	18.7	19.3	22.5	1,062	1,402	3,120	3,228	3,750	1,062	1,402	3,120	3,228	3,750	---	---	---	---	---
9 PLANT EFFLUENT	6.2	8.3	18.6	19.2	22.4	1,035	1,379	3,098	3,206	3,732	1,035	1,379	3,098	3,206	3,732	---	---	---	---	---
13 PRIMARY SLUDGE	0.025	0.039	0.045	0.049	0.067	---	---	---	---	---	10,330	16,262	18,654	20,300	27,960	---	---	---	---	---
14 WASTE ACTIVATED SLUDGE	0.254	0.458	0.514	0.559	0.728	---	---	---	---	---	16,965	30,448	34,319	37,290	48,630	---	---	---	---	---
29 PD RETURN TO SECONDARY	0.441	0.637	0.695	0.737	0.904	495	862	976	1,061	1,400	1,649	2,875	3,252	3,535	4,866	---	---	---	---	---
30 PD RETURN TO PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---	---	---	---	---

	DESIGNED BY: W.A. ERICSON	REUSE OF DOCUMENTS THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CASH HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CASH HILL.	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CITY OF BELOIT, WISCONSIN WASTEWATER SYSTEM IMPROVEMENTS	CONTRACT NO. 4 - WASTEWATER TREATMENT PLANT LIQUID PROCESS SCHEMATIC AND FLOW BALANCE	SHEET NO. 4-6-11
	DRAWN BY: D.A. KIERZEK					DATE: DEC 1988
	CHECKED BY: W.A. ERICSON					PROJECT NO. L21585.11
	APPROVED BY: W.A. ERICSON					



BELOIT WWTW SOLIDS FLOW BALANCE

STREAM IDENTIFICATION	FLOW RATE (MGD)					TSS (LBS/DAY)				
	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)	AVERAGE DAY (INITIAL)	AVERAGE DAY (DESIGN)	PEAK MONTH (DESIGN)	PEAK WEEK (DESIGN)	PEAK DAY (DESIGN)
10. COARSE SCREENINGS						---	---	---	---	---
11. GRIT SLURRY						---	---	---	---	---
12. PRIMARY SCUM						---	---	---	---	---
13. PRIMARY SLUDGE	0.025	0.039	0.045	0.049	0.067	10,530	16,252	18,654	20,300	27,960
14. WASTE ACTIVATED SLUDGE	0.254	0.455	0.514	0.559	0.728	16,095	30,448	34,219	37,290	48,630
15. SECONDARY SCUM						---	---	---	---	---
16. THICKENED WAS	0.032	0.058	0.065	0.071	0.092	16,149	28,076	32,668	35,496	46,291
17. TOTAL INTO DIGESTERS	0.057	0.097	0.11	0.12	0.159	26,749	45,238	51,322	55,796	74,251
18. DIGESTED SLUDGE	0.057	0.097	0.11	0.12	0.159	15,956	28,928	30,599	33,272	44,502
19. THICKENED DIGESTED SLUDGE	0.03	0.051	0.058	0.063	0.085	15,189	25,633	29,127	31,671	42,362
20. SLUDGE TO TRUCK TRANSPORT	0.03	0.051	0.058	0.063	0.085	15,189	25,633	29,127	31,671	42,362
21. WAS THICKENING FILTRATE	0.329	0.505	0.556	0.595	0.743	850	1,525	1,719	1,868	2,436
22. DIG THICKENING FILTRATE	0.112	0.131	0.137	0.142	0.161	799	1,349	1,533	1,667	2,230
23. TOTAL THICKENING FILTRATE	0.441	0.636	0.693	0.737	0.904	1,649	2,874	3,252	3,535	4,666
24. THICKENED SCUM						---	---	---	---	---
25. SCUM CONC UNDERFLOW						---	---	---	---	---
26. DEWATERED SCREENINGS						---	---	---	---	---
27. SCREENINGS PRESS FILTRATE						---	---	---	---	---
28. DEWATERED GRIT						---	---	---	---	---
29. GRIT WASHER UNDERFLOW						---	---	---	---	---
30. PD RETURN TO SECONDARY	0.441	0.637	0.693	0.737	0.904	1,649	2,875	3,252	3,535	4,666
31. PD RETURN TO PRIMARY	0	0	0	0	0	0	0	0	0	0

LEGEND

- DS DIGESTED SLUDGE
- F FILTRATE
- GR GRIT SLURRY
- PSD PRIMARY SLUDGE
- PSM PRIMARY SCUM
- SCN SCREENINGS
- SSM SECONDARY SCUM
- TAS THICKENED ACTIVATED SLUDGE
- TDS THICKENED DIGESTED SLUDGE
- UD UNDERFLOW
- WAS WASTE ACTIVATED SLUDGE

W.K. ERICKSON
 1000 W. WISCONSIN ST.
 MILWAUKEE, WIS. 53227
 TEL: 414-224-1100

NO.	DATE	REVISION	BY	APPROVED

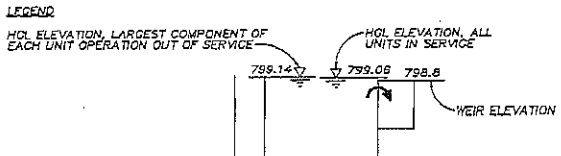
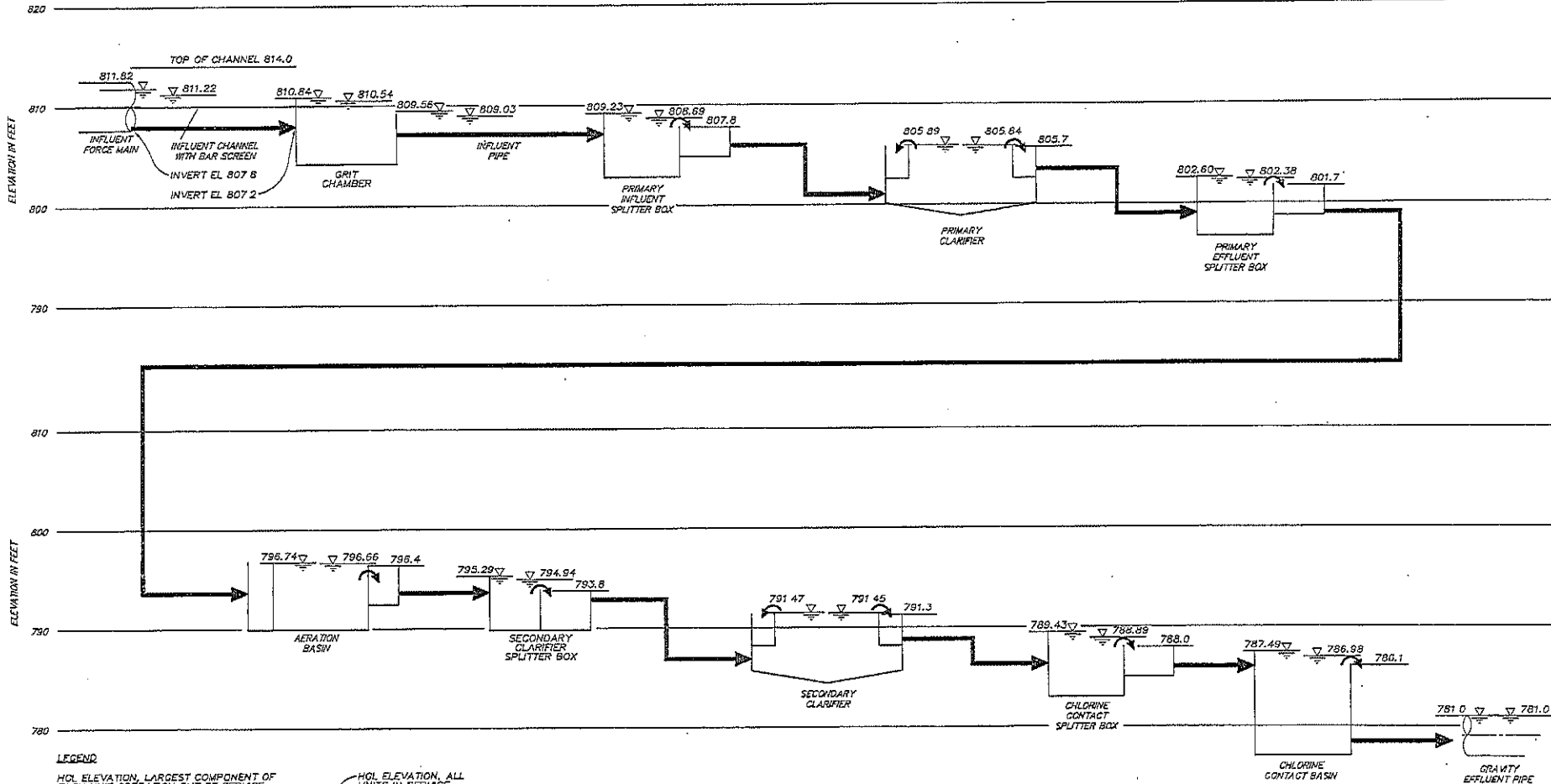
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VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF BELOIT, WISCONSIN
 WASTEWATER SYSTEM IMPROVEMENTS

CONTRACT NO. 4 - WASTEWATER TREATMENT PLANT
SOLIDS PROCESS SCHEMATIC AND FLOW BALANCE

SHEET	12
DATE	4-6-12
DATE	DEC 1988
PROJECT NO.	L21585.11



HYDRAULIC PROFILE

	DESIGN	D. J. BENNETT				REUSE OF DOCUMENTS THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.	MINIMUM SCALE: 1" = 100' (OR LARGER) IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CITY OF BELLEVILLE, WISCONSIN WASTEWATER SYSTEM IMPROVEMENTS	CONTRACT NO. 4 - WASTEWATER TREATMENT PLANT HYDRAULIC PROFILE PEAK HOUR DESIGN FLOW	SHEET	13
	DRAWN	D. J. BENNETT								DATE	4-6-13
	CHECKED	W. A. ERICSON								DATE	DEC 1988
	DATE	W. A. ERICSON								PROJ. NO.	L21565.11

Influent

Beloit WPCF Performance 2010												
Influent												
MONTH	Flow MGD	BOD mg/L	BOD lbs	TSS mg/L	TSS lbs	Cadmium ug/L	Chromium ug/L	Copper ug/L	Lead ug/L	Nickel ug/L	Zinc ug/L	Mercury ng/L
January	4.508	360	13534	210	7903	1	11	92	12	22	200	160
February	4.044	521	17570	263	8860							65
March	4.806	436	17466	201	8045							23
April	4.897	466	19026	238	9702							
May	4.401	471	17283	257	9446							
June	4.390	435	15938	284	10404							
July	4.652	315	12224	210	8152	0	12	90	6	8	180	19
August	5.064	383	16190	228	9630							23
September	3.803	409	12979	221	6994							49
October	3.538	494	14588	234	6901	0	1	66	3	6	140	71
November	3.535	550	16201	245	7215							49
December	3.526	518	15220	212	6243							
Total	51.165	5358	188218	2802	99494	1	24	248	22	36	520	459
Average	4.264	446	15685	234	8291	0	8	83	7	12	173	57
Min.	3.526	315	12224	201	6243	0	1	66	3	6	140	19
Max.	5.064	550	19026	284	10404	1	12	92	12	22	200	160
Std. Dev.	0.560	71	2053	25	1318	0	6	14	4	9	31	46

Effluent

Beloit WPCF Performance 2010												
Effluent												
MONTH	Flow MGD	CBOD mg/L	CBOD lbs	TSS mg/L	TSS lbs	Ammonia mg/L	Ammonia lbs	pH SU	Phosphorus mg/L	Phosphorus lbs	Fecal Coliform #/100 ml	Residual Chlorine mg/L
January	4.765	6	243	9	340	0.50	19	7.5	0.4	18		
February	4.279	6	213	8	269	1.05	36	7.4	0.4	13		
March	5.108	6	257	6	245	0.10	5	7.5	0.4	16		
April	5.100	5	206	7	286	0.12	5	7.6	0.4	16		
May	4.676	7	261	11	415	0.11	4	7.6	0.6	24	16	0
June	4.691	4	169	5	177	0.12	5	7.6	0.5	19	20	0
July	5.008	5	200	5	199	0.08	4	7.7	0.9	39	218	0
August	5.433	5	225	5	242	0.12	5	7.7	0.5	24	41	0
September	3.990	5	168	4	146	0.00	0	7.8	0.4	12	11	12
October	3.834	5	156	5	149	0.12	4	7.7	0.4	14		3
November	3.785	6	176	9	277	0.00	0	7.7	0.6	17		
December	3.697	9	273	11	327	1.70	52	7.6	0.6	20		
Total	54.365	68	2545	82	3072	4.02	140	91	6.1	232	306	15
Average	4.530	6	212	7	256	0.34	12	7.6	0.5	19	61	3
Min.	3.697	4	156	4	146	0.00	0	7.4	0.4	12	11	0
Max.	5.433	9	273	11	415	1.70	52	7.8	0.9	39	218	12
Std. Dev.	0.595	1	40	2	81	0.52	16	0.1	0.2	7	88	5

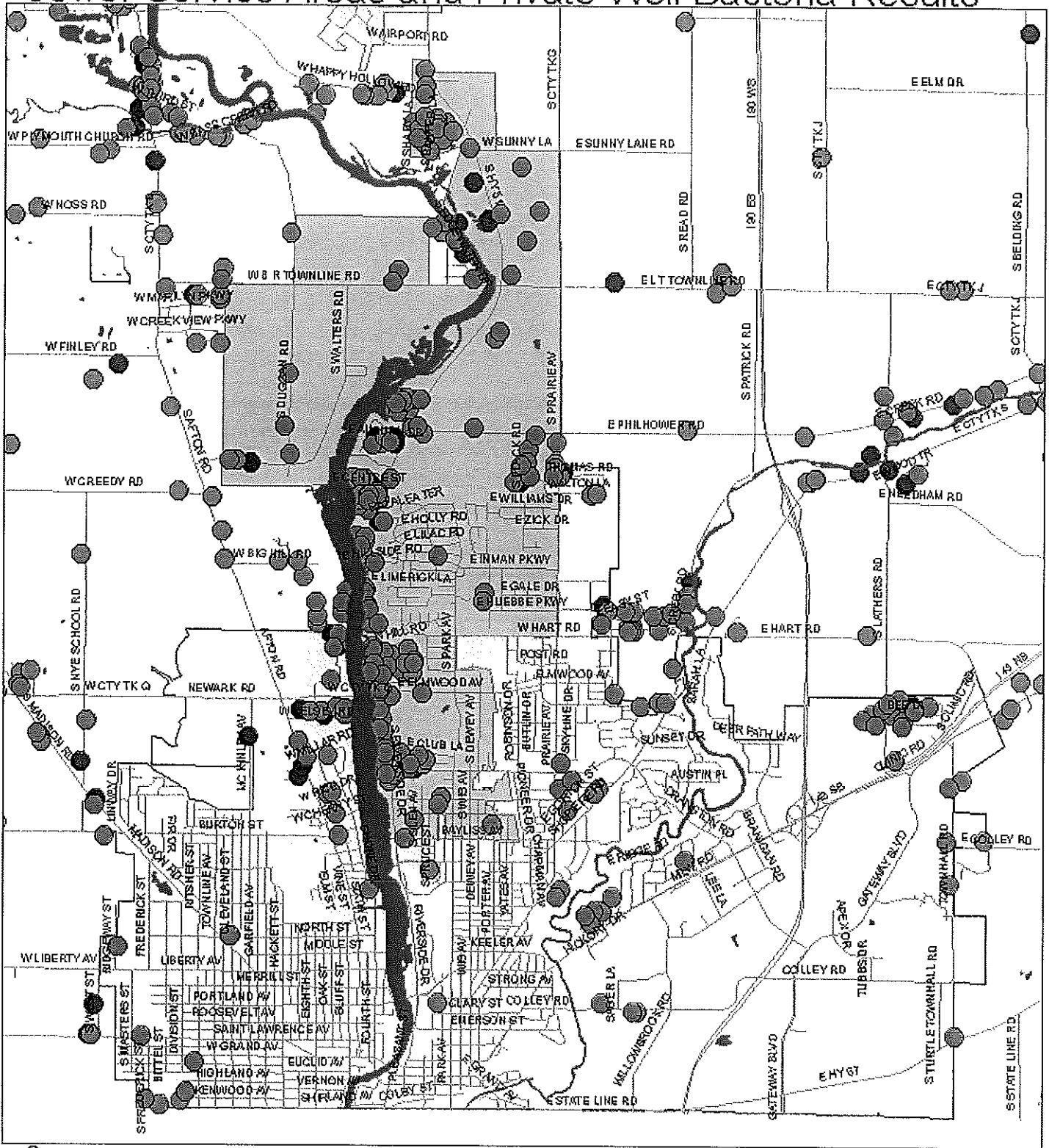
Influent

Beloit WPCF Performance 2011												
Influent												
MONTH	Flow MGD	BOD mg/L	BOD lbs	TSS mg/L	TSS lbs	Cadmium ug/L	Chromium ug/L	Copper ug/L	Lead ug/L	Nickel ug/L	Zinc ug/L	Mercury ng/L
January	3.642	440	13359	240	7303	0	5	81	7	5	130	20
February	3.590	469	14043	255	7620							37
March	4.166	387	13443	242	8423							
April	4.606	410	15739	245	9406	0	6	58	4	5	140	17
May	4.236	464	16391	298	10525							18
June	3.718	479	14841	302	9373							91
July	3.432	568	16258	262	7508	0	9	84	74	8	180	28
August	3.499	495	14434	245	7147							
September	3.297	543	14919	308	8463							23
October	3.212	521	13956	211	5647	0	5	100		5	140	150
November	3.240	533	14405	256	6923							63
December	3.325	661	18337	274	7587							
Total	43.963	5969	180126	3138	95924	0	24	323	84	24	590	447
Average	3.664	497	15010	262	7994	0	6	81	28	6	148	50
Min.	3.212	387	13359	211	5647	0	5	58	4	5	130	17
Max.	4.606	661	18337	308	10525	0	9	100	74	8	180	150
Std. Dev.	0.446	75	1447	29	1318	0	2	17	40	1	22	45

Effluent

Beloit WPCF Performance 2011												
Effluent												
MONTH	Flow MGD	CBOD mg/L	CBOD lbs	TSS mg/L	TSS lbs	Ammonia mg/L	Ammonia lbs	pH SU	Phosphorus mg/L	Phosphorus lbs	Fecal Coliform #/100 ml	Residual Chlorine mg/L
January	3.699	6	195	7	229	0.73	24	7.6	0.5	14		
February	3.771	6	190	7	236	2.07	71	7.6	0.4	12		
March	4.411	6	217	6	221	0.01	0	7.6	0.3	12		
April	4.865	8	325	8	338	0.08	4	7.6	0.4	15		
May	4.477	7	262	7	257	0.13	5	7.5	0.4	15		
June	3.992	6	204	7	236	0.03	1	7.6	0.5	17	43	0
July	3.606	7	218	11	330	0.07	2	7.6	0.7	20	26	0
August	3.668	5	159	6	177	0.03	1	7.6	0.5	15	164	0
September	3.599	5	151	5	151	0.00	0	7.7	0.6	17	51	0
October	3.325	6	164	9	240	1.69	52	7.8	0.6	16	110	0
November	3.479	6	185	12	361	0.03	1	7.8	0.5	15		
December	1.424	7	78	16	194	1.46	0	7.7	0.7	8		
Total	44.316	76	2348	102	2969	6.33	162	92	6.0	177	394	0
Average	3.693	6	196	9	247	0.53	14	7.6	0.5	15	79	0
Min.	1.424	5	78	5	151	0.00	0	7.5	0.3	8	26	0
Max.	4.865	8	325	16	361	2.07	71	7.8	0.7	20	164	0
Std. Dev.	0.850	1	61	3	65	0.77	24	0.1	0.1	3	57	0

Beloit Region Sewer Service Areas and Private Well Bacteria Results



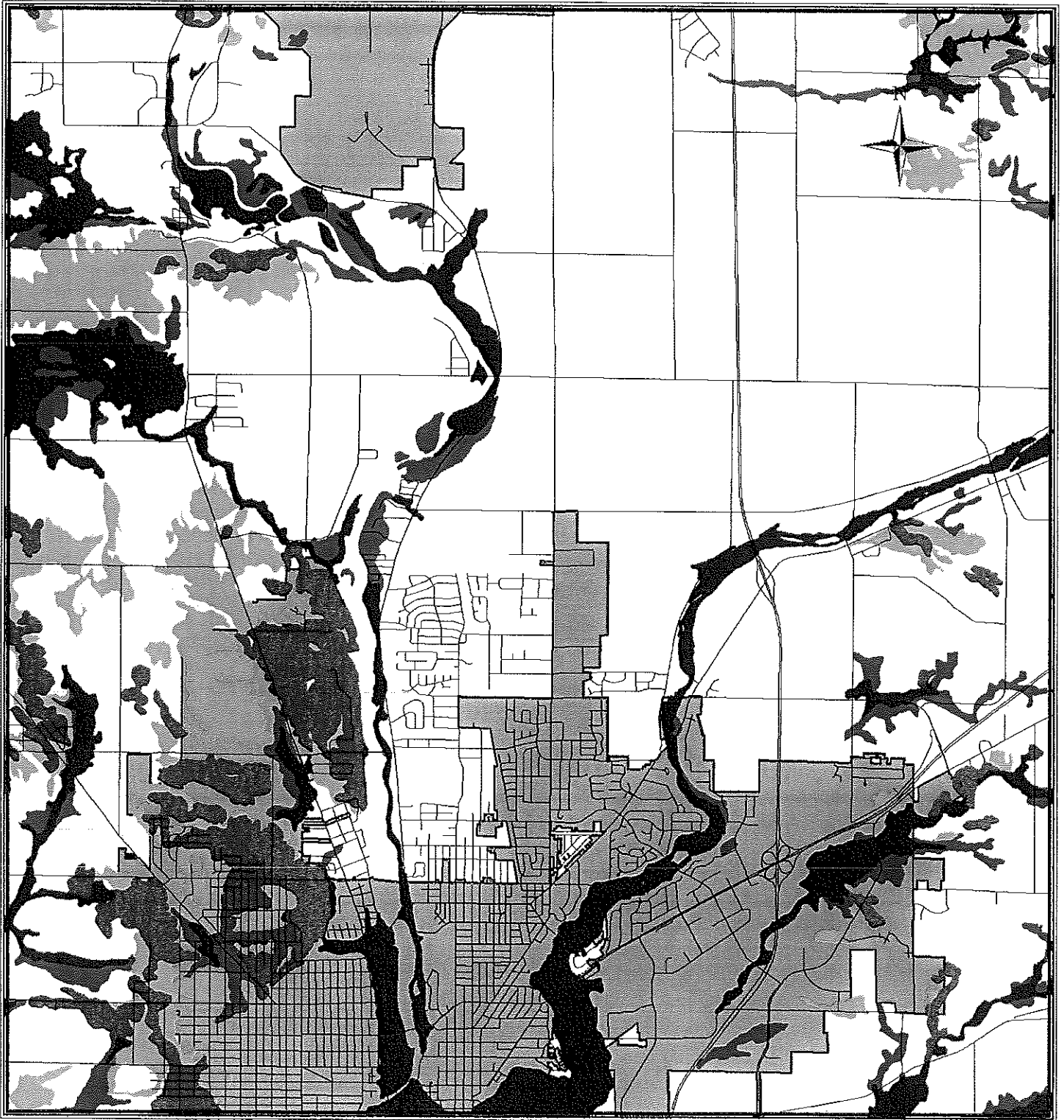
- coliform safe.AddressPts
- coliform unsafe.AddressPts

DISTRICT_I

- City of Beloit Sewer Service Area
- City of Janesville Sewer Service Area
- Town of Beloit Sewer Service Area



Greater Beloit Region High Bedrock & Groundwater Areas



- planning.PLANNING.Soils_Bedrock_20_or_Less
- planning.PLANNING.Soils_Bedrock_20_to_40
- planning.PLANNING.Soils_DepthGrndwtr_0_to_1
- planning.PLANNING.Soils_DepthGrndwtr_1_to_3





January 18, 2012

Richard Cannon
Rock County Planning and Development
51 S. Main Street
Janesville, WI 53545

Reference: Beloit-Clinton Water Quality Management Plan Amendment

Dear Mr. Cannon:

The City of Beloit is requesting an amendment to the *Beloit-Clinton Water Quality Management Plan*. Please consider this letter and attached exhibits the formal request to add acreage to and modify the boundaries of the City of Beloit Sewer Service Area.

The area requested is on Beloit's Northeast side, near the Beloit Memorial Hospital. Specifically, the area is comprised of existing lots on Huebbe Parkway and Claremont Drive just outside the current City of Beloit Sewer Service Area which are adjacent to an existing sanitary sewer. Please see Exhibit A for a map of the requested area. The total land area requested is 13.0 acres (0.02 Sq. Mi.).

This area is already served by existing City of Beloit 8-inch or 10-inch sanitary sewers. No construction is necessary to serve these parcels, and connection can be made at any time. The existing sanitary sewers were extended to serve other City of Beloit parcels in the past. Five of the 17 parcels are vacant residential lots, and the remaining 12 are single family homes.

The *Beloit-Clinton Water Quality Management Plan* lists six criteria for review of a proposed plan amendment. The following sections cover these six criteria and the City of Beloit Engineering staff evaluations as it relates to the proposed plan amendment.

- 1) Sewer Service can be provided in a cost effective manner. The land within the amendment area is currently outside the City of Beloit Sanitary Sewer Service Area boundary. An existing 8-inch sanitary sewer is in place along the Huebbe Parkway frontage of the 3 parcels shown in area 1 of the attached Exhibit A. An existing 10-inch sanitary sewer is in place along the Claremont Drive frontage of the 14 parcels shown in Area 2 of the attached Exhibit A. Since sanitary sewers already exist, the only cost is to connect the building plumbing to the sanitary sewer, which makes this alternative less costly than any other possible on-site alternative.

- 2) The receiving, collection and treatment facility can adequately transport and treat the waste water from the area and the amount of undeveloped land in the proposed area. The existing 8-inch sanitary sewer in Huebbe Parkway, the 10-inch sanitary sewer in Claremont Drive, and the downstream interceptor sewers are all sized to handle service areas several times greater than the area currently in the City of Beloit Sewer Service Area tributary to those sewers.

The City of Beloit Waste Water Treatment Facility is currently operating at average daily flows of between 4 MGD (million gallons per day) and 5 MGD. The plant is designed to handle up to 28 MGD peak flows. The highest peak flow in the last 5 years was approximately 14 MGD in April 2008. The addition of the proposed 17 parcels will be inconsequential to the plant capacity.

- 3) Amendment is consistent with the policies and goals of the *Beloit-Clinton Water Quality Management Plan*. The proposed amendment is consistent with the stated goal of providing cost effective sewer service while identifying and protecting environmentally sensitive areas. The proposed amendment area is located approximately ½ mile from the Turtle Creek, which is designated an Area of Special Natural Resource Interest and an Exceptional Resource Water by the Wisconsin Department of Natural Resources.
- 4) Conformance with local and county plans and zoning. The proposed amendment area is existing conforming single family residential development, and meets all current zoning requirements for Rock County and the Town of Turtle, and is also consistent with adjacent City of Beloit zoning.
- 5) No significant adverse water quality and / or environmental impact associated with providing sewer service to the area. The proposed amendment area is adjacent to existing sanitary sewers with adequate capacity to provide service, so there are no environmental impacts associated with construction. Other existing on-site systems in the immediate area adjacent to and within the proposed amendment area have failed recently, and additional failed systems can be expected in the future. The environmental impact of a sanitary collection system with a modern treatment facility is significantly less than anything possible with any on site system.
- 6) Proposed amendment to the service area does not exceed the total projected sewer service area acreage requirement as defined in the plan. The total land area requested to be added into Beloit's Sewer Service Area is 13.0 acres. We are requesting an expansion of the total Beloit Sewer Service Area for the 13.0 acres, bringing the total service area from 12,319.95 acres (19.25 Sq. Mi.) to 12,332.95 acres (19.27 Sq. Mi.).

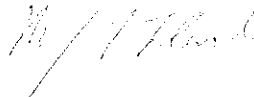
Since the proposed amendment is to add already developed land to the service area, not undeveloped land, the Plan requirement that an equal amount of undeveloped land be removed from the service area does not apply in this case. Also, the last update to the *Beloit-Clinton Water Quality Management Plan* was in January of 1998. It is now 13 years old and overdue for a full update by more than 8 years. Planning and coordination has begun to update the Plan, but an update is still at least a year away. The criteria used

to determine the existing plan area was from the 1990 Census data, which is now over 20 years old and does not accurately reflect the current conditions or treatment facility capabilities.

Based on the current excess treatment plant capacity, the existence of sanitary sewers in the proposed amendment area, and the obsolescence of the 1998 *Beloit-Clinton Water Quality Management Plan Update*, the City of Beloit's engineering judgment is that the proposed amendment meets the requirements for granting the Amendment, and that the increase in the total plan area is insignificant when measured against the environmental protection provided by the proposed amendment.

Based on the above six criteria, the City concludes that the proposed plan amendment will not result in any adverse water quality impacts, and that the amendment is consistent with the provisions of the *Beloit-Clinton Water Quality Management Plan*. Please forward this request to the Beloit-Clinton Area Policy Committee and the Wisconsin Department of Natural Resources for review and approval.

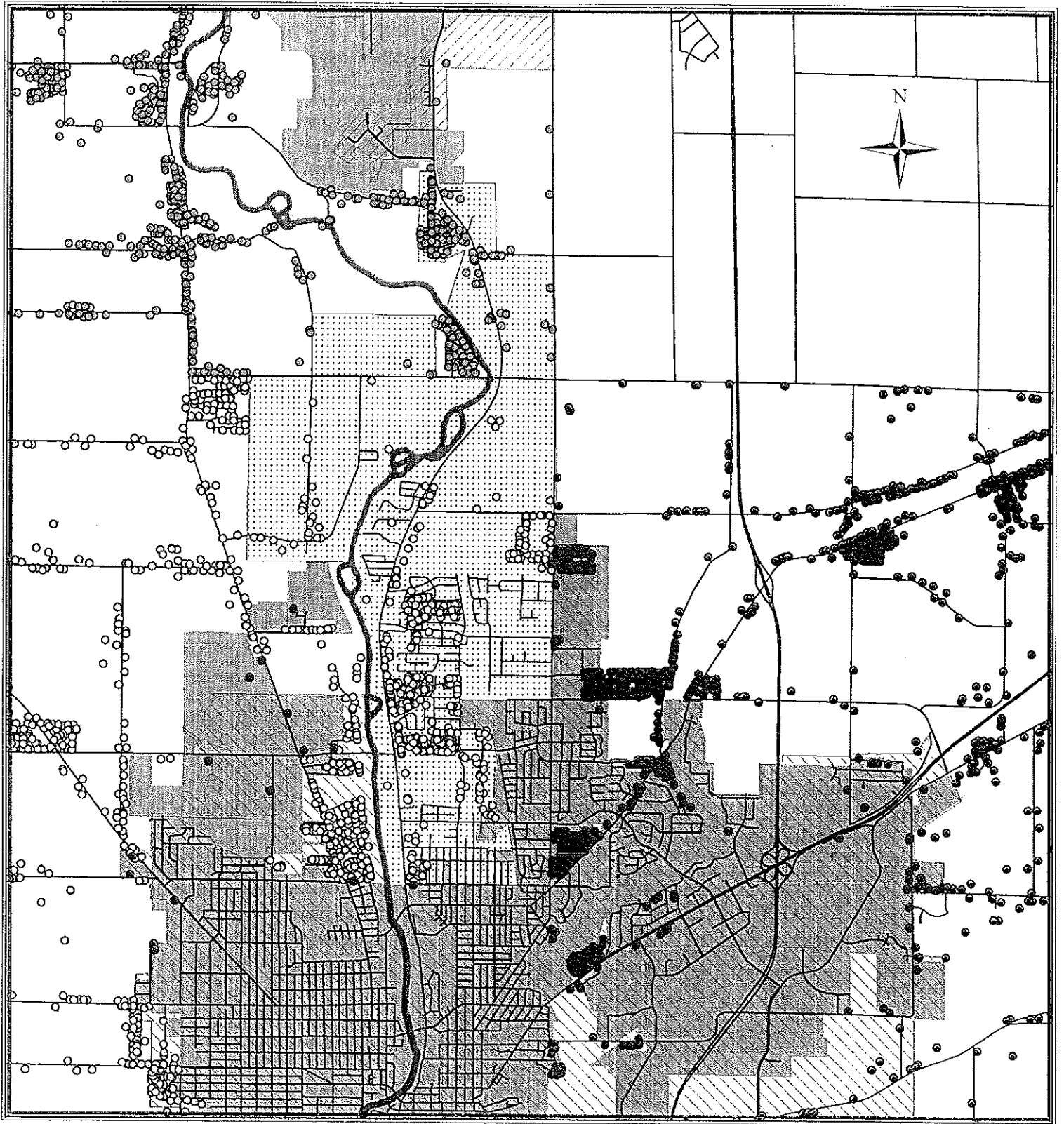
Sincerely,

A handwritten signature in cursive script, appearing to read "M. F. Flesch".

Michael F. Flesch, P.E.
City Engineer

cc: Larry N. Arft, City Manager

Beloit Region Sewer Service Areas & Private Onsite Wastewater Treatment Systems (POWTS)



- City of Beloit POWTS
- Town of Turtle POWTS
- Town of Rock POWTS
- Town of Beloit POWTS



City of Beloit Sewer Service Area



City of Janesville Sewer Service Area



Town of Beloit Sewer Service Area





AGENDA

**Rock County Planning, Economic & Community Development Agency –
Technical Advisory Committee Meeting - City of Beloit and Town of Beloit
Areawide Water Quality Management Plans Update**

May 23, 2012 – 4:00 p.m.

Room N-1/N-2 (5th Floor) – Rock County Courthouse
51 S. Main Street, Janesville

THIS IS NOT A PUBLIC HEARING

- 1) Approval of Agenda
- 2) Approval of Minutes from April 25, 2012 Meeting
- 3) Citizen Participation and Committee Communications and Announcements
- 4) INFORMATION ITEM: Data Inventory
 - a. Growth and Development
 - b. Future Land Use
- 5) General Comment and Discussion
- 6) Wrap Up and Next Steps
- 7) Adjournment

NOTE: It is possible that members of and possibly a quorum of other governmental bodies of Rock County may be in attendance at the above-stated meeting to gather information; any governmental body at the above-stated meeting will take no formal action.

City of Beloit and Town of Beloit
Area Wide Water Quality Management Plan Updates
(Meeting Minutes from May 23rd, 2012)

The third meeting for the Technical Advisory Committee (TAC) of the City of Beloit and Town of Beloit Area Wide Water Quality Management Plans Update effort was called to order at 4:00 PM on Wednesday May 23rd, 2012.

Those present included:

Roger Anclam – Town of Turtle
Brian Wilson – Town of Beloit
Howard Hemmer – Town of Beloit
Mark Gunn – Town of Rock
Frank McKearn – Batterman Engineering (for Town of Beloit)
Harry Mathos – City of Beloit
Amy Schmidt – Wisconsin Department of Natural Resources
Tim Banwell – Rock County Health Department
Matt Wesson – Rock County Health Department
Wade Thompson – Rock County Planning
Paul Benjamin – Rock County Planning
Rich Cannon – Rock County Planning

Paul Benjamin opened the meeting by asking for a motion to approve the meeting agenda. Brian Wilson so moved. A second was made and the meeting agenda was unanimously approved. Roger Anclam moved to approve the minutes from the TAC meeting No.2 (April 25th, 2012). A second was made and the previous meeting minutes were unanimously approved.

A call was made for citizen participation and there was none.

Announcements: Wade Thompson is leaving the Rock County Planning Agency but will remain a member of the study team.

A discussion regarding when the next TAC meeting will be scheduled took place. The next meeting will take place on August 22nd, 2012 at 2:00 PM.

Prior to this TAC meeting a Steering Committee meeting took place with members of the City of Beloit staff, Town of Turtle administration, Town of Beloit administration, and the Rock County Planning Agency. All in attendance agreed that the steering committee format was productive in that participants are able to share comments and insight in a more casual setting as compared to the open public format. Members attending agreed that this format should continue to take place prior to regularly scheduled TAC meetings.

Wade Thompson presented an update on the plan's working data and what will come next in terms of future planning study needs.

Wade reiterated the area wide population growth has been “slow”, particularly in the later stages of the last decade and the early portion of this decade. He also mentioned that the State of Wisconsin’s Department of Administration (DOA) was a credible and reliable source for estimating population projections however, they differ in some cases significantly from the populations projections founds in the various municipal Comprehensive Plan documents recently produced for the State of Wisconsin’s “Smart Growth Planning” initiative.

Wade went on to mention that DOA projected population growth in the next two decades is projected to be “slow to moderate”.

Frank McKearn asked if the TAC would be adopting one set of numbers versus another since there are differences between projections. “Yes” was the answer. Wade then mentioned that a formal set of population projections would be adopted later in this meeting.

Frank McKearn mentioned that the “flat” or no growth projection approach not be heavily relied upon because in his experience communities that took this approach were constantly reacting to even slight increases in population as opposed to having a plan in place that was able to better manage any increases since an amount of increase was already “built in” to the plan document.

Wade asked Amy Schmidt about the 5-year interim updates to the overall plan. If necessary changes to the initial population data set chosen by the TAC at this time could be revisited upon the 5-year incremental updates, or the amendment process. In addition a suitable amendment process should be spelled out by the TAC and agreed upon at this stage of the planning process that can be used over the 20-year horizon period.

Frank McKearn asked if revising sewer service boundaries was an assumption or a requirement. A discussion relative to population growth and service area boundaries ensued.

Roger Anclam commented that the Town of Turtle was “encouraged” to plan for “more” growth in their recent Comprehensive Plan, meaning the town assumed more development, more population and more overall growth than he expects. He added the Town of Turtle is not going to “encourage growth” He didn’t expect that the town’s growth would match the projection documented in their Comprehensive Plan.

Mark Gunn stated he thought growth, and possibly the need to modify service boundaries would take place where sewer infrastructure is already in the ground and that is most likely the leading indicator where growth will occur.

Wade Thompson presented a series of maps were presented:

- 1) Base Map – city and town boundaries, land use boundaries, SSA (town and city), private on-site septic, suitability for private on-site septic, environmentally sensitive areas, protected land, agricultural uses, and woodlands.

- 2) Future Land Use – City of Beloit
- 3) Future Land Use – Town of Beloit
- 4) Future Land Use – Town of Rock
- 5) Future Land Use – Town of Turtle

A brief discussion ensued:

Roger Anclam stated that the Town of Turtle was in the process of making modifications to their future land uses, which meant in general there would be less projected rural residential area showing and more agricultural areas on the up-coming revised edition.

Howard Hemmer mentioned the Town of Beloit hasn't experienced much growth during the last planning period in terms of sewer system users coming on-line over time, and that certain developments that had been planned at one time never were realized.

It was agreed that each community would have to go through the exercise of making adjustments on their respective land use maps taking into consideration any known or anticipated changes. This will be used in the future sewer system plan.

Mark Gunn suggested that he is unable to foresee any major development changing the boundaries as they are already shown.

Homework assignment:

Take base map back to respective communities and study existing base map and determine if any modifications and/or revisions are necessary. Where do you see these boundaries potentially being revised?

Harry Mathos had several questions concerning the existing sewer system components as shown on the maps presented. He suggested that he would ask his staff members about the various items.

Wade Thompson set a time frame of two weeks to work on the assigned examination date of two weeks

A call was made to move the meeting adjourn. Roger Anclam moved to adjourn the meeting. A second was made and the motion was unanimously passed. The meeting was adjourned at 5:10 PM.

These meeting minutes reflect the discussion and activity that took place at the third Technical Advisory Committee meeting for the City of Beloit and Town of Beloit Area Wide Water Quality Management Plan Updates held on Wednesday May 23rd, 2012.

Respectfully submitted by Rich Cannon, Rock County Planning on August 20th, 2012.

City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie: Population and Housing Trends and Projections: 1980 - 2030

1a. Municipal Population Trends: 1980 - 2010

	1980 DOA Est.	1980 Census	1990 DOA Est.	1990 Census	2000 DOA Est.	2000 Census	2010 DOA Est.	2010 Census	Change: 1980- 2010 Census	Average Difference Between Census and DOA Est.
City of Beloit	35,171	35,207	34,714	35,573	36,217	35,775	37,000	36,966	1,759	-445
Town of Beloit	7,974	8,382	7,204	6,778	7,271	7,038	7,522	7,662	-720	216
Town of Turtle	2,440	2,703	2,653	2,458	2,507	2,444	2,444	2,388	-315	9
Town of Rock	3,166	3,399	3,394	3,172	3,109	3,338	3,265	3,196	-203	-223
Town of LaPrairie	961	1,099	969	943	925	929	887	834	-265	-103

1b. Region Population Trends: 1980 - 2010

	1980 DOA Est.	1980 Census	1990 DOA Est.	1990 Census	2000 DOA Est.	2000 Census	2010 DOA Est.	2010 Census	Change: 1980- 2010 Census	Average Difference Between Census and DOA Est.
City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie	49,712	50,790	48,934	48,924	50,029	49,524	51,118	51,046	256	-123
City of Beloit and Towns of Beloit and Turtle	45,585	46,292	44,571	44,809	45,995	45,257	46,966	47,016	724	-64

1c. Region Population Projections: 2015 - 2030

	2015 DOA Est.	2020 DOA Est.	2025 DOA Est.	2030 DOA Est.	Change: 2015-2030 DOA Est.
City of Beloit	36,957	37,355	37,619	37,729	772
Town of Beloit	7,364	7,386	7,383	7,349	-15
Town of Turtle	2,396	2,370	2,333	2,288	-108
Town of Rock	3,408	3,436	3,450	3,450	42
Town of LaPrairie	853	828	800	769	-84

1d. Region Population Projections: 2015 - 2030

	2015 DOA Est.	2020 DOA Est.	2025 DOA Est.	2030 DOA Est.	Change: 2015- 2030 DOA Est.
City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie	50,978	51,375	51,585	51,585	607
City of Beloit and Towns of Beloit and Turtle	46,717	47,111	47,335	47,366	649

Source: Wisconsin Department of Administration (DOA) Demographic Services Center: 2012

1e. Municipal Housing Units Trend: 1980 - 2010

	1980 Census	1990 Census	2000 Census	2010 Census	Change: 1980 - 2010 Census
City of Beloit	13,415	14,033	14,253	15,177	1,762
Town of Beloit	3,057	2,613	2,938	3,307	250
Town of Turtle	912	916	1,010	1,002	90
Town of Rock	1,050	1,155	1,360	1,346	296
Town of La Prairie	358	325	362	354	-4

1f. Region Housing Units Trend: 1980 – 2010

	1980 Census	1990 Census	2000 Census	2010 Census	Change: 1980 - 2010 Census
City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie	18,792	19,042	19,923	21,186	2,394
City of Beloit and Towns of Beloit and Turtle	17,384	17,562	18,201	19,486	2,102

**Town of Beloit Wastewater Treatment Plant
3629 S. Walters Road
Beloit, WI 53511**

Plant #1 - 350,000 Gallons - Built in 1969
 Plant #2 - 650,000 Gallons - Built in 1979
 Sludge Storage - 750,000 Gallons - Built in 2003

LIFT STATION INVENTORY

Station #	Serial #	Year Installed or Replaced	Make	Location	H.P.	G.P.M. per pump	# Pumps	Intial Costs	2010 Replacement values
1	09-5351	1969	Smith-Loveless	3444 Riverside Dr.	15	900	2	\$ 55,241.00	\$ 225,000.00
2	08-5352	1969	Smith-Loveless	4065 Riverside Dr.	2	250	2	\$ 29,304.00	\$ 150,000.00
3	475-A	1969	USEMCO	3070 Riverside Dr.	15	750	2	\$ 38,993.00	\$ 225,000.00
4	08-6111	1970	Smith-Loveless	150 Yost Dr.	3	200	2	\$ 30,845.00	\$ 150,000.00
5	08-7034D	1972	Smith-Loveless	2442 Riverside Dr.	10	600	2	\$ 44,270.00	\$ 175,000.00
6	08-7035D	1972	Smith-Loveless	2350 Riverside Dr.	3	300	2	\$ 40,095.00	\$ 150,000.00
7	15-1124E	1971	Smith-Loveless	431 Woodland Dr.	2	100	2	\$ 18,450.00	\$ 47,000.00
8	16-1251F	1971	Smith-Loveless	2615 Riverside Dr.	2	100	2	\$ 11,436.00	\$ 47,000.00
9	16-08202-G	2006	Smith-Loveless	2050 Riverside Dr.	2	100	2	\$ 17,800.00	\$ 47,000.00
10	08-7685	1983	Smith-Loveless	2900 Kind Dr.	3	200	2		\$ 253,000.00
11	10-7205-F	1999	Smith-Loveless	3629 Walters Rd.	15	450	2		

Updated 1-10-2012

MONTHLY AVERAGES

Averages taken from DMRs

Month	Average Flow MGD	Monthly MGD	BOD INF mg/L	Inf BOD Pounds per Day	BOD EFF mg/L	Suspended Solids INF mg/L	Inf S.S. Pounds per Day	Suspended Solids EFF mg/L	PHOS. mg/L	Ammonia Nitrogen
2001	0.373	11.345	243	767	7.0	245	782.7	4	NA	NA
2002	0.393	11.866	320	1049	7.0	341	1123.9	4	NA	NA
2003	0.376	11.381	322	1008	16.0	258	807.5	5	NA	NA
2004	0.414	12.420	251	867	10.0	260	892.2	7.0	0.90	NA
2005	0.415	12.646	247	854	9.8	246	1152.2	6.8	0.94	NA
2006	0.438	13.333	232	846	7.5	199	727.8	5.2	0.80	NA
2007	0.477	14.504	198	781	5.5	213	841.8	5.4	0.77	NA
2008	0.632	19.265	169	863	7.1	165	851.7	7.2	0.80	1.33
2009	0.555	16.853	199	906	9.6	187	841.0	7.6	0.83	1.42
2010	0.511	15.552	231	979	7.0	223	946.3	8.1	0.83	1.07
2011	0.478	14.340	237	937	7.5	253	994.4	8.2	0.85	1.27
2012										
Total	5.062	153.505	2648	9855	94.0	2590	9962	68.5	6.720	5.090
Average	0.5	13.955	241	895.9	8.5	235	905.6	6.2	0.840	1.27

Average Daily Design Flow - 1.000 MGD

Average Daily Design BOD Loading - 1,677 ppd

Average Daily Design SS Loading - 1,973 ppd

Average Design Population - 6,000

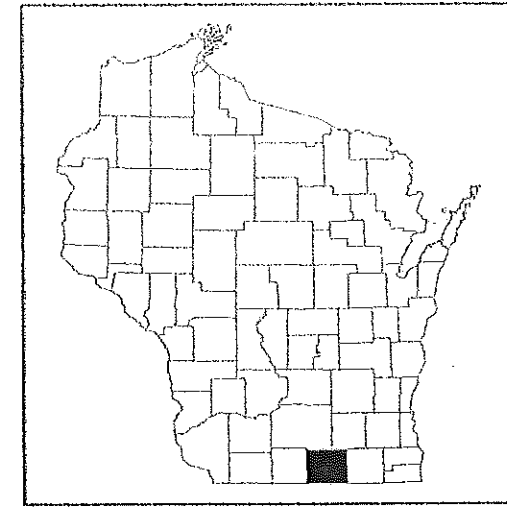
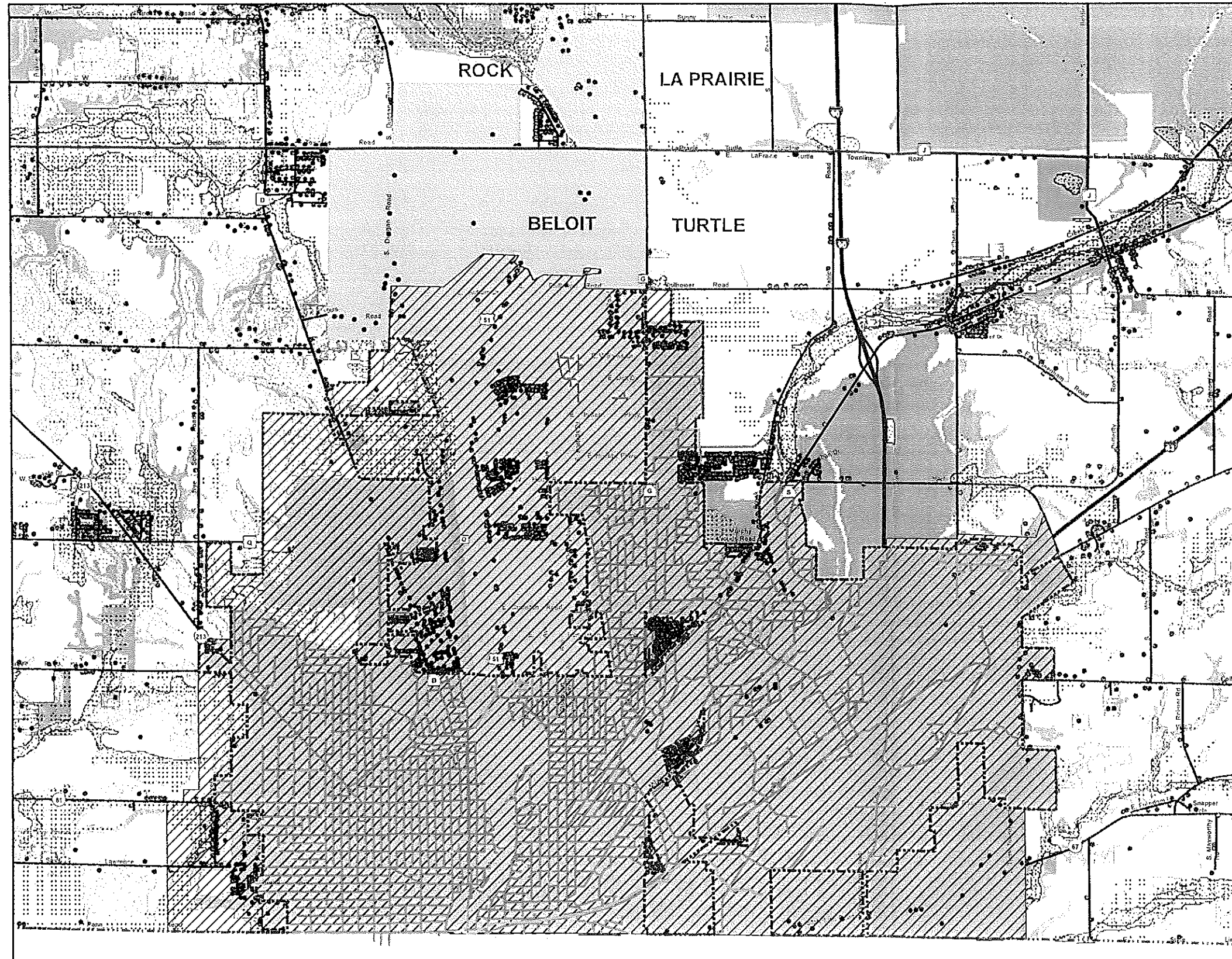
POPULATION

	1970 Census	1980 DOA Est.	1980 Census	1990 DOA Est.	1990 Census	2000 DOA Est.	2000 Census	2010 DOA Est.	2010 Census	Change: 1970-2010 Census	Average Difference Between Census and DOA Est.
City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie	51,579	49,712	50,790	48,934	48,922	50,029	49,524	51,118	51,046	533	417
City of Beloit and Towns of Beloit and Turtle	47,443	45,585	46,292	44,571	44,807	45,995	45,257	46,966	47,016	427	433

	2015 City and Towns Est.	2015 DOA Est.	2020 City and Towns Est.	2020 DOA Est.	2025 City and Towns Est.	2025 DOA Est.	2030 City and Towns Est.	2030 DOA Est.	Change: 2015 - 2030 City and Towns Est.	Average Difference Between City and Towns Est. and DOA Est.
City of Beloit and Towns of Beloit, Turtle, Rock, and LaPrairie	55,282	50,953	58,835	51,375	62,650	51,585	66,939	51,585	11,657	9,552
City of Beloit and Towns of Beloit and Turtle	50,936	46,717	54,446	47,111	58,220	47,335	62,469	47,366	11,533	9,386

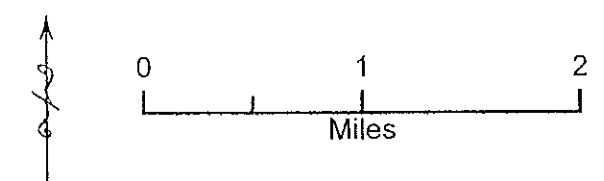
Basemap II

City of Beloit - Town of Beloit Areawide Water Quality Management Plans Update



Rock County, Wisconsin (5/23/2012)

- City and Town boundaries
- City of Beloit existing lands and future land use boundary
- Town of Beloit Sewer Service Area
- City of Beloit Sewer Service Area
- City of Beloit Pressure Main
- City of Beloit Gravity Main
- Private Onsite Wastewater Treatment System (POWTS)
- POWTS Suitability - Not Suitable
- POWTS Suitability - Alternative Above Ground
- Roads
- Surface water
- Environmentally Sensitive Areas**
 - Bedrock within 20" of surface
 - Slope (12% or greater)
 - Hydric soil
 - Natural area
 - Potential groundwater protection area
 - FEMA floodplains
 - Surface water and 75-foot buffer
 - WDNR wetlands
- Protected Land
- Productive Agricultural Soils and/or Lands
- Woodlands

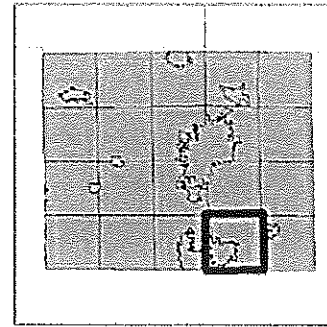
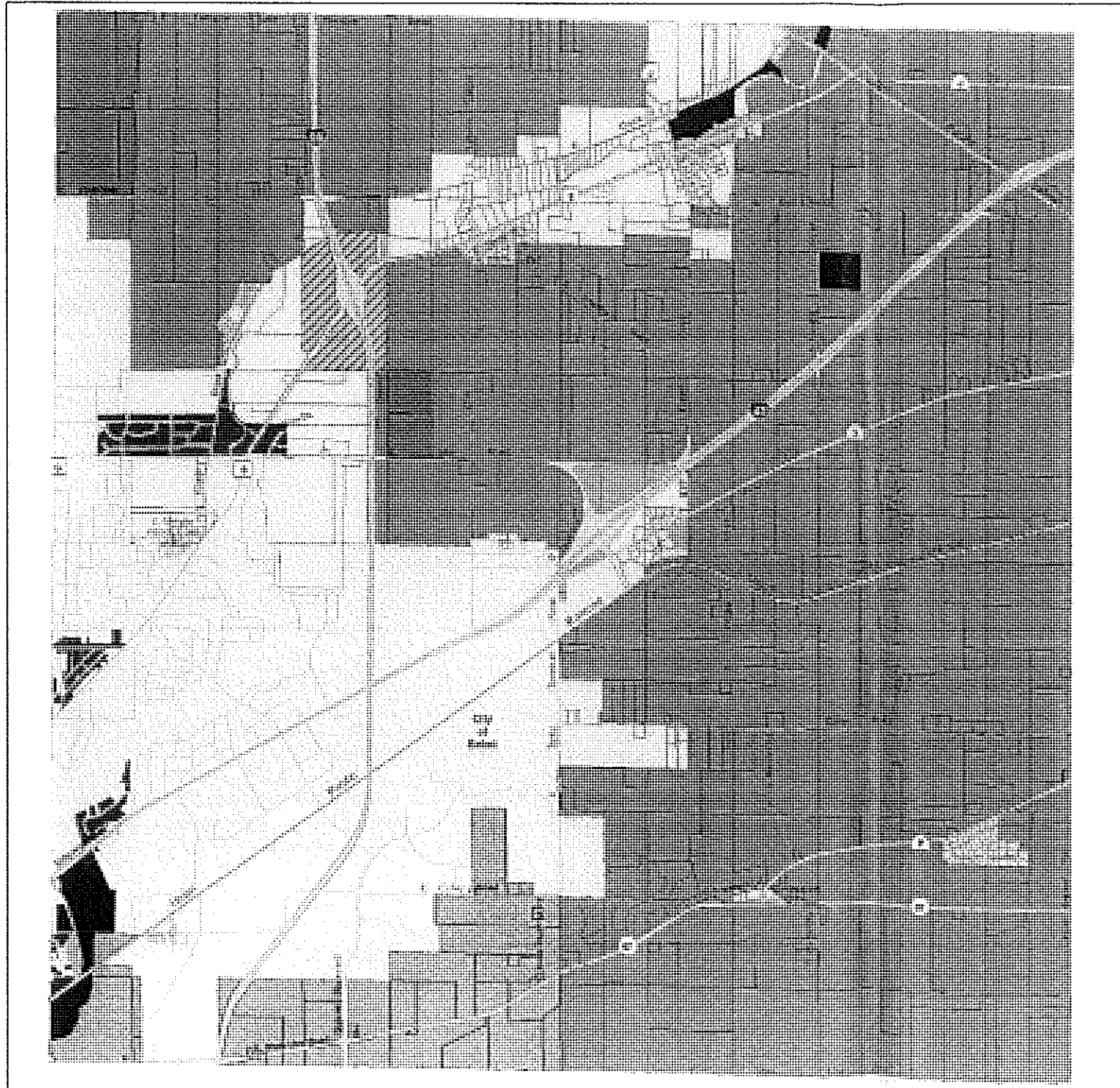


Data Sources: Rock County Planning and Development

Rock County Geographic Information Systems (GIS)
 Planning, Economic and Community
 Development Agency
 51 S Main St, Janesville, WI 53545
 (TEL) 608-757-5587, (FAX) 608-757-5586
 email: Planning@co.rock.wi.us

Duplication of this map is prohibited without written consent of the Rock County Planning, Economic and Community Development Agency. The data in this map was compiled using the Rock County Coordinate System. All graphic and attribute information is based on the Rock County Coordinate system. This map is not intended to be a substitute for an actual field survey and is an advisory reference only.

Land Use Plan



Town of Turtle
Rock County, Wisconsin
02/26/2009

Future Land Use

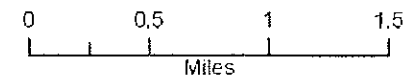
- Urban Expansion
- Agriculture
- Urban Residential
- Rural Residential
- Park/Open Space
- Industrial
- Town Center: Mixed Use
- Commercial
- Commercial Highway
- Special Purpose
- Right of Way

Town Boundary Lines

Railroads

Roads

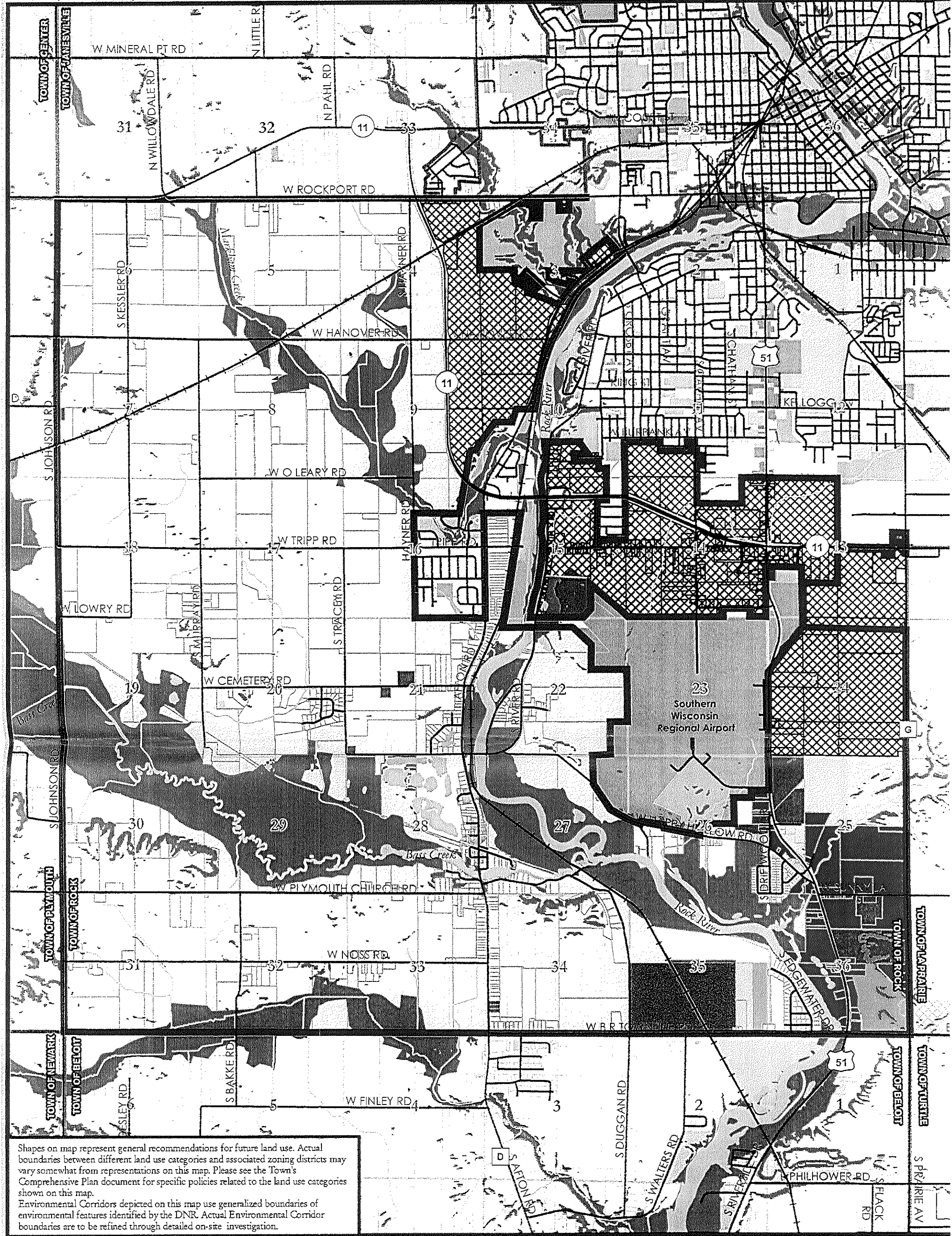
- Local Roads
- Interstate
- Highway
- County



Use of any of the maps is prohibited without written consent of the Rock County Planning, Economic and Community Development Agency. The data on this map was compiled using the Rock County Coordinate System. All map data and all data not indicated as the Rock County Coordinate System are not intended to be a substitute for an actual field survey and/or an approved reference.

Rock County Geographic Information Systems (GIS)
 Planning, Economic and Community
 Development Agency
 21 S. Main St., Appleton, WI 54912
 TEL: 920.733.1992 FAX: 920.733.1992
 email: Planning@co.rock.wi.us

Data Sources: Rock County Planning and Development Agency

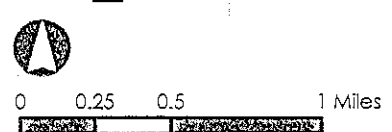


Shapes on map represent general recommendations for future land use. Actual boundaries between different land use categories and associated zoning districts may vary somewhat from representations on this map. Please see the Town's Comprehensive Plan document for specific policies related to the land use categories shown on this map. Environmental Corridors depicted on this map use generalized boundaries of environmental features identified by the DNR. Actual Environmental Corridor boundaries are to be refined through detailed on-site investigation.

- Roads
- +— Railroads
- ▭ Town of Rock Boundary
- ▭ Other Municipalities
- ▭ Parcels
- ▭ Surface Water

- Future Land Use Categories**
- ▭ Agricultural Preservation Area
 - ▭ Environmental Corridor
 - ▭ Urban Agricultural Transition Area
- Rural and Environmental**
- ▭ Single Family-Exurban
 - ▭ Single Family-Urban
 - ▭ Two Family/Townhouse
 - ▭ Mixed Residential

- Non-Residential**
- ▭ Local Commercial
 - ▭ Large Scale Commercial
 - ▭ Light Industrial
 - ▭ General Industrial
 - ▭ Institutional & Airport

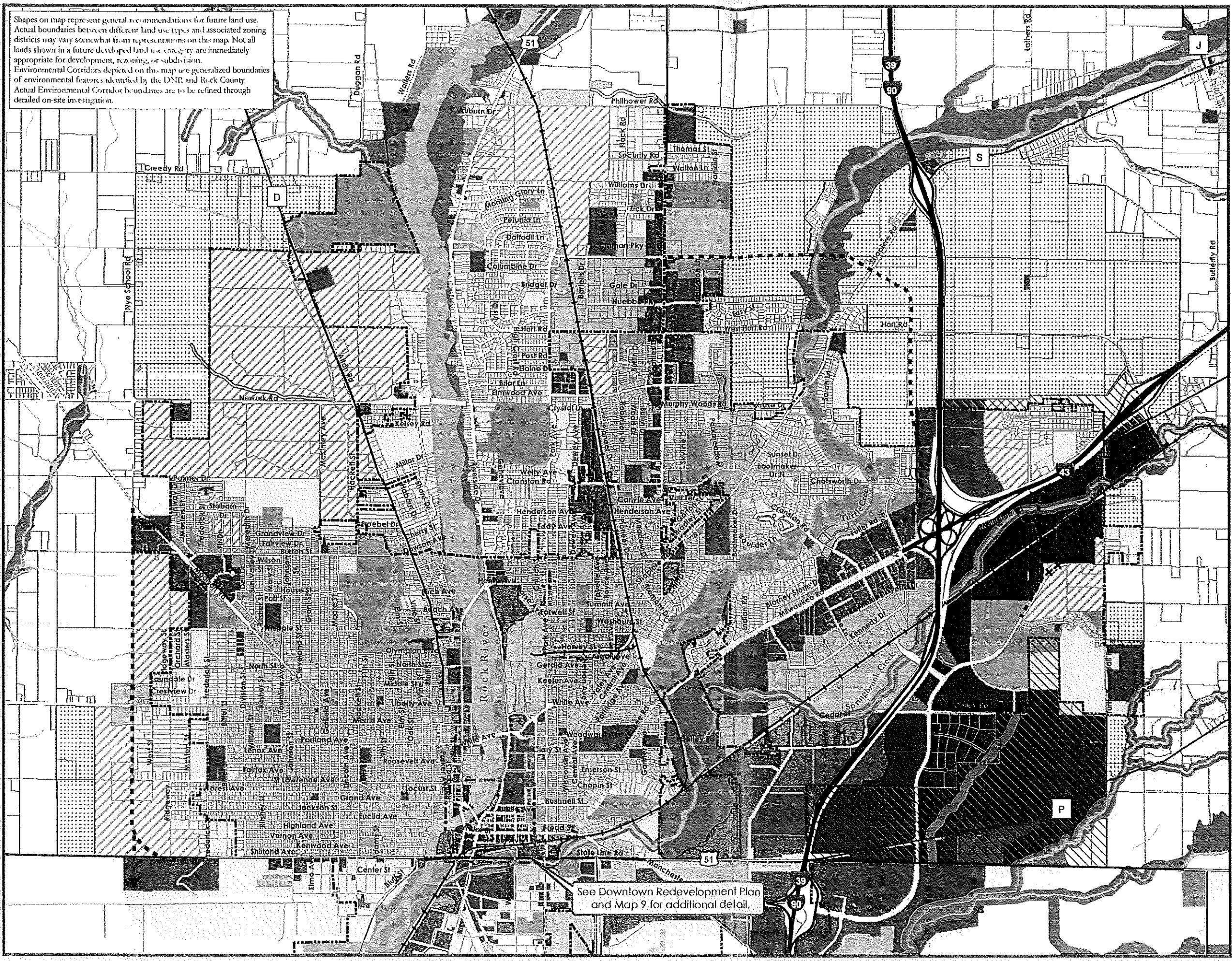


Date: July 7, 2008
 Sources: City of Beloit,
 City of Janesville,
 Rock County

**Town of Rock
 Comprehensive Plan**

**Map 5:
 Future Land Use**

Shapes on map represent general recommendations for future land use. Actual boundaries between different land use types and associated zoning districts may vary somewhat from representations on this map. Not all lands shown in a future developed land use category are immediately appropriate for development, rezoning, or subdivision. Environmental Corridors depicted on this map use generalized boundaries of environmental features identified by the DNR and Rock County. Actual Environmental Corridor boundaries are to be refined through detailed on-site investigation.

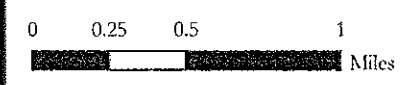


- Municipal Boundaries
- City of Beloit/Town of Turtle Boundary Adjustment Area
- Interstate Highway
- County Highways
- Existing Roads
- Potential Future Major Collector/Arterial Roads
- Railroads
- Surface Water

- Future Land Use Categories**
- Agricultural
 - Single-Family Residential - Exurban
 - Single-Family Residential - Urban
 - Two-family/Townhouse Residential
 - Mixed Residential
 - Planned Neighborhood*
 - Office
 - Planned Mixed Use
 - Neighborhood Commercial
 - Community Commercial
 - Downtown
 - Business Park
 - General Industrial
 - Institutional & Community Services
 - Environmental Corridor
 - Parks and Open Spaces
 - Long Range Urban Growth Area
 - Right-of-Way

*"Planned Neighborhoods" should include a mix of the following:

1. Single Family - Urban (predominate land use)		
2. Two-family/Townhouse		
3. Mixed Residential		
4. Institutional and Community Services	7	1 2
5. Office	6	5 4
6. Neighborhood Commercial		
7. Parks and Open Space		



Date: March 17, 2008
Source: City of Beloit, Rock County

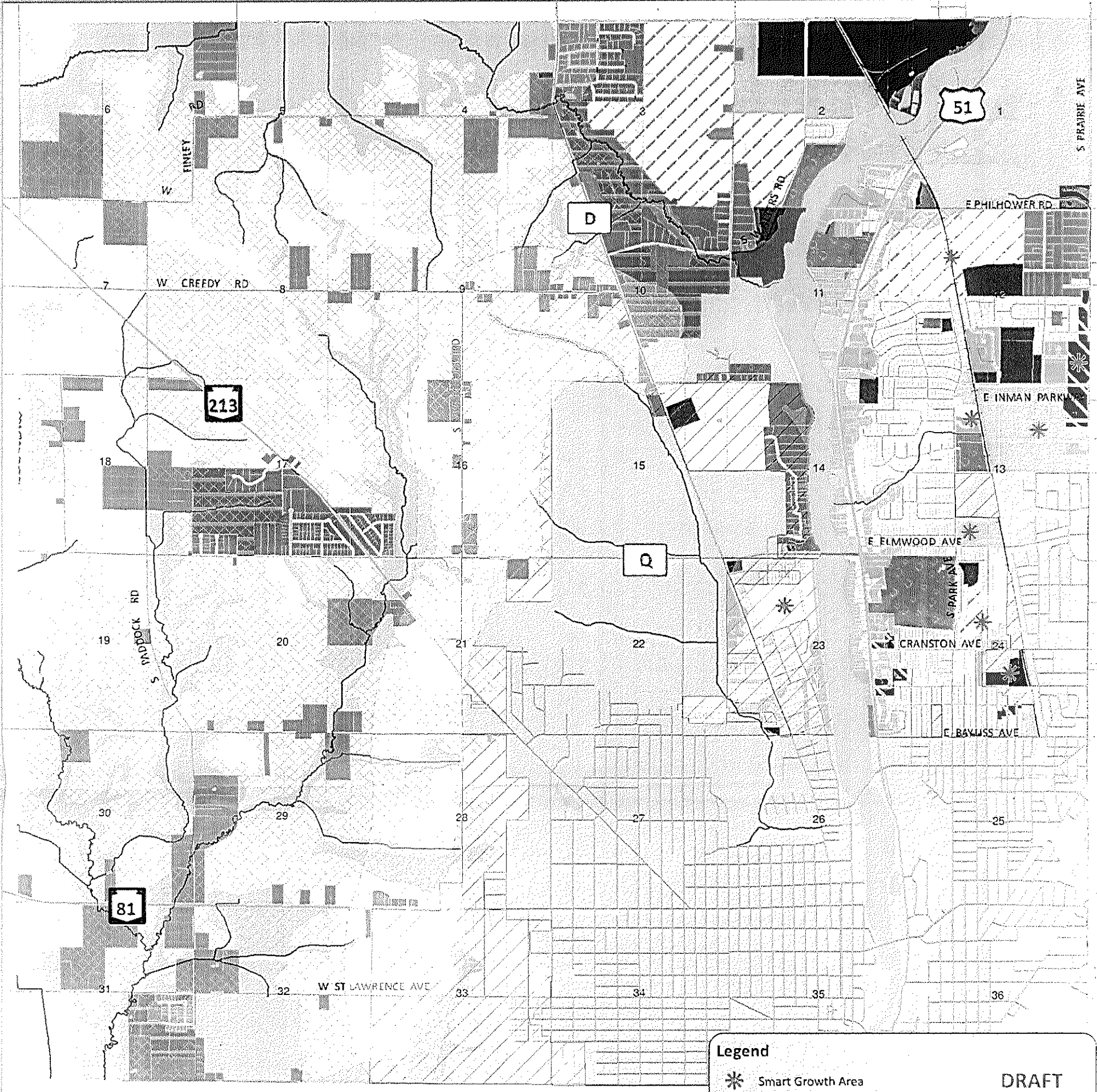


**City of Beloit
Comprehensive Plan**

**Map 10:
Future Land Use**

Revised 4/16/10

MAP 5-2: PLANNED LAND USE



Legend

* Smart Growth Area

Planned Land Use

- Natural, Agricultural, and Cultural Resource Preservation
- Very Low Density Agricultural/Rural Residential
- Exurban Residential Subdivisions
- Conservation/Cluster Subdivision (Rural)
- Parks, Open Space, Recreational Areas
- Urban One- and Two-Family Residential
- Urban Moderate Density Residential
- Traditional Neighborhood Development
- Urban Mixed-Use Development
- Local Commercial
- Community Commercial
- Urban Technology, Business, or Industry Campus
- High-Value Industrial
- Community-Based Institutional
- Right-of-Way
- Environmental Corridor
- Rivers, Ponds, and Lakes
- Streams, Creeks, and Brooks
- Productive Agricultural Soils
- Proposed Community Separation Zone
- Priority Boundary Rationalization/Cooperative Planning Area
- City of Beloit

DRAFT

1 inch equals 3,200 feet

TOWN OF BELOIT
COMPREHENSIVE PLAN

APPROVED BY THE TOWN OF BELOIT PLAN COMMISSION
WITH PROFESSIONAL PLANNING ASSISTANCE BY

BASE DATA PROVIDED BY: ROCK COUNTY GIS - 2008;
WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS (WISLR) - 2008;
CITY OF BELOIT - 2008; STATELINE AREA TRANSPORTATION SYSTEM (SLATS) - 2004, 2008



engineers surveyors planners

IN EVERY CASE, DETAILED SITE ANALYSIS, PLANNING, AND DESIGN
WILL BE NECESSARY TO IMPLEMENT THE RECOMMENDATIONS FOUND ON THIS PLAN.
THIS IS NOT AN OFFICIAL ZONING MAP.