

(Attach supporting data sheets)

**Use Designation Information – Required**

Water Body Name North Fork Eau Claire River	WBIC # 2145400	Date 02/17/2005
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Region: <input type="checkbox"/> NER <input checked="" type="checkbox"/> NOR <input type="checkbox"/> SCR <input type="checkbox"/> SER <input type="checkbox"/> WCR	Basin Upper Chippewa	County Taylor
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Quad Map Where Segment is Shown  
Lublin

Reference Site(s) (Attach use designation form for reference site/cond.)

Segment Description for Segment 1 of 2 (headwater = segment 1)

From: the entrance of effluent to the North Fork Eau Claire River	Latitude: DEG MIN SEC 45 04 29.9000 N
	Longitude: DEG MIN SEC Datum Used 090 43 03.2000 W NAD 83
upstream <u>2200</u> <input type="checkbox"/> mi., <input type="checkbox"/> km., <input checked="" type="checkbox"/> ft., <input type="checkbox"/> M.	Township Range <input type="checkbox"/> E Section ¼-Section ¼, ¼-Section 30 N 03 <input checked="" type="checkbox"/> W 14 NW NE

To: the Lublin wastewater lagoon outfall	Latitude: DEG MIN SEC 45 04 24.9000 N
	Longitude: DEG MIN SEC Datum Used 090 42 34.1000 W NAD 83
	Township Range <input type="checkbox"/> E Section ¼-Section ¼, ¼-Section 30 N 03 <input checked="" type="checkbox"/> W 23 NW NE

Attach site map and photos (prefer digital) showing stream segment and discharge point.	Use Designation Status: <input type="checkbox"/> New Use Designation (First Field Assessment) <input checked="" type="checkbox"/> Standards Review (Updating Previous Field Assessment) <input type="checkbox"/> Reference Site
Date Fieldwork Conducted/Completed 10/12/2004	

Current Codified Fish and Aquatic Life Use Designation: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)	<input type="checkbox"/> Default <input type="checkbox"/> Field Assessment – Date (mm/dd/yyyy): _____	Existing FAL Use Based on Current Data: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input checked="" type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)
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Recommended Attainable Use Designation: <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input checked="" type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Recommended Seasonal Use Designation(s): <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Effective Date: (mm/dd/yyyy) _____ to _____ _____ to _____ _____ to _____ _____ to _____
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Other Applicable Uses (as recognized by existing administrative rule): <input type="checkbox"/> Outstanding Resource Water <input type="checkbox"/> Exceptional Resource Water <input type="checkbox"/> Great Lakes System <input type="checkbox"/> Public Drinking Water Supply <input type="checkbox"/> Recreational Use <input type="checkbox"/> Wildlife	Community Types: <input type="checkbox"/> Class I Trout <input type="checkbox"/> Class II Trout <input type="checkbox"/> Class III Trout <input type="checkbox"/> Coldwater A <input type="checkbox"/> Coldwater B <input type="checkbox"/> Game Fish <input type="checkbox"/> Non-Game Fish <input type="checkbox"/> Macroinvertebrates <input type="checkbox"/> Endangered/Threatened Species <input type="checkbox"/> Intolerant Species <input type="checkbox"/> Coolwater <input type="checkbox"/> Tolerant Fish <input type="checkbox"/> Tolerant Macroinvertebrates
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# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Use Designation Information (continued)**

Basis for Use Designation Decision (List and briefly discuss key elements for the decision) – Use Attachment A, if necessary  
 This segment is a combination of: first - flow through a dry run (130 ft), second - diffuse flow through a wetland (1220 ft), third - flow through a pipe (850 ft). There is no potential for fish use. Very tolerant aquatic life (LAL) is the appropriate use designation.

**Discharger Information – Required**

Municipality/Company	WPDES Permit Number	Date Permit Issue	Permit Renewal
Lublin	0031917	06/06/2000	06/30/2005

Outfall Location  
 N45 04 24.9, W90 42 34.1

Contact Person	Contact Date(s)
Richard Pulcher	

Did a Representative Observe Field Assessment?     Yes     No

Representative	Telephone Number (include area code)

Comments about facility representative's observations, etc.

**Literature Review – Use Attachment B, if necessary**

1. Previous classification reports and use designations – cite here and attach  
 No designation is listed in NR104. A 05/25/1978 classification report makes a recommendation for a different flow path that was never used.

2. All previous studies and data associated with the water body that are applicable to use designation – cite here and attach

3. Is stream listed as trout water in Wisconsin Trout Streams?     Yes     No    If yes, cite here and attach a copy

4. Any other literature applicable to the fish and aquatic life use designation – cite here and attach

5. Summarize and interpret the literature available and how it relates to and supports the recommended use designation

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Field Assessment Data and Observations – Use Attachment C, if necessary**

Assessment Date (mm/dd/yyyy)	Additional Assessment Date(s):
10/12/2004	

<p><b>Stream Segment Physical/Chemical Data:</b></p> <p>Length _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> miles</p> <p>Avg. Width _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Max. Width _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Avg. Depth _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Max. Depth _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Gradient _____ Velocity _____</p>	<p><b>Substrate Material:</b></p> <p>Silt _____%      Organic _____%</p> <p>Rubble _____%      Gravel _____%</p> <p>Sand _____%      Other _____%</p> <hr/> <p>Stream Flow _____ cfs    <input type="checkbox"/> Measured    <input type="checkbox"/> Estimated</p> <p>At time of assessment, flow was:    <input type="checkbox"/> High    <input type="checkbox"/> Low    <input type="checkbox"/> Very Low</p> <p>7Q2 Flow _____ cfs</p> <p>7Q10 Flow _____ cfs</p>
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Stream Temperature \_\_\_\_\_ °C     Instantaneous     24-Hr. Maximum     24-hr. Avg.

Dissolved Oxygen (Instantaneous) \_\_\_\_\_ mg/L    Time of Day \_\_\_\_:\_\_\_\_     am     pm

Minimum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L    Time of Day \_\_\_\_:\_\_\_\_     am     pm

Maximum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L    Time of Day \_\_\_\_:\_\_\_\_     am     pm

Method of Analysis:     Meter     Modified Winkler Method

<p><b>Effluent Flow:</b></p> <p>Daily Average _____ cfs    <input type="checkbox"/> Measured    <input type="checkbox"/> Estimated</p> <p>Design Flow _____ cfs    (Convert MGD to cfs by multiplying by 1.55)</p>	<p><b>Chemical Data Collected:</b>    (STORET # _____ )</p> <p><input type="checkbox"/> Ammonia    <input type="checkbox"/> Pesticides    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Atrazine    <input type="checkbox"/> Phosphorus    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Bacteria    <input type="checkbox"/> Metals    <input type="checkbox"/> Other: _____</p>
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**Brief Interpretation/Comments:**

This segment is a combination of: first - flow through a dry run (130 ft), second - diffuse flow through a wetland (1220 ft), third - flow through a pipe (850 ft). There is no potential for fish use.

**Habitat – Use Attachment D, if necessary**

Procedure:     Guidelines For Evaluating Fish Habitat in Wisconsin Streams (Simonson, Lyons and Kanehl, 1994)

Development and Evaluation of a Habitat Rating System For Low Gradient Wisconsin Streams

Other – Describe: \_\_\_\_\_

Habitat Rating – Attach Habitat Rating Forms:     Excellent     Good     Fair     Poor

Significant Problems Affecting Use Attainment:

Low-flow     Sedimentation     Bank Erosion     Ditching     Fish Cover     Depth

Other – Describe: \_\_\_\_\_

Observations About Habitat Quality:

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Biological Data – Fish data is required**

Fish:

Sampling Date (mm/dd/yyyy) \_\_\_\_\_

Species List and IBI Forms:     Attached to Report     Not Applicable

Survey Location(s) \_\_\_\_\_

Distance Sampled \_\_\_\_\_  feet     meters     miles

Sampling Gear:     Backpack Shocker     Other – Describe: \_\_\_\_\_

Number of Species Collected \_\_\_\_\_      Total Number of Fish Collected \_\_\_\_\_

Number of Intolerant Species \_\_\_\_\_      % Intolerant Species \_\_\_\_\_

Endangered or Other Special Category Species Collected:

Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____

IBI Score \_\_\_\_\_      Rating \_\_\_\_\_

Macroinvertebrates:

Sampling Date (mm/dd/yyyy) \_\_\_\_\_       HBI       FBI

Survey Location(s) \_\_\_\_\_

Sampling Procedure \_\_\_\_\_

Less than 100 organisms were found – List Dominant Genera, etc.:

Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____

More than 100 organisms found – Attach taxonomy bench sheet or other analyses

Other Biological Data/Observations – Use Attachment E, if necessary

Interpretations Based on Existing Fish and Aquatic Life Community – Use Attachment F, if necessary

This segment is a combination of: first - flow through a dry run (130 ft), second - diffuse flow through a wetland (1220 ft), third - flow through a pipe (850 ft). There is no potential for fish use. The channelized dry run and piped sections are dry most of the year and can't support a macroinvertebrate community.

**WATERSHED DATA AND OBSERVATIONS – Optional (Please answer to the best of your ability. Estimates are acceptable.)**

Approximate Area \_\_\_\_\_  Acres     Square Miles

Land Use:    Crop Land \_\_\_\_\_%      Pasture \_\_\_\_\_%      Forest \_\_\_\_\_%

                  Grass Land \_\_\_\_\_%      Urban \_\_\_\_\_%      Wetland \_\_\_\_\_%

Number of Feedlots/Barn Yards Near Stream \_\_\_\_\_

Other Nonpoint Sources \_\_\_\_\_

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**WATERSHED DATA AND OBSERVATIONS** (continued) – Use Attachment G, if necessary

Is this watershed currently or proposed to receive nonpoint source management under a State, Federal or local organization?

No     Yes    List Date(s) (mm/dd/yyyy) \_\_\_\_\_

Explain \_\_\_\_\_

Discuss nonpoint source impacts and controllability, and nonpoint relationship to fish and aquatic life existing and attainable uses. Include factors such as bank erosion, land cover/use near stream, gully erosion, barnyards, etc. (attach additional sheets if required):

**VTAL/TFAL Justification** – Required – Use Attachment H, if necessary

**Note:** This section must be completed when the use designation is tolerant fish and aquatic life (formerly LFF) or very tolerant aquatic life (formerly LAL)

Recommended Attainable Use Designation:     TFAL     VTAL

**Tolerant Fish and Aquatic Life and Very Tolerant Aquatic Life use designations (LFF & LAL) are not defined as full fish and aquatic life uses. However, these uses are in most cases the best use that can be attained by these resources due to habitat or water quality limitations. A designated use recommendation into one of these sub-categories must be based on one or more of the following factors (sec. 283.15, Stats.). Check all that apply to this use designation and provide a brief description of the situation:**

- a. Naturally occurring pollutant concentrations prevent the attainment of a full fish and aquatic life community.
- b. Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of a full fish and aquatic life community, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating water conservation requirements.
- c. Human caused conditions or sources of pollution prevent the attainment of a full fish and aquatic life community and cannot be remedied or would cause more environmental damage to correct than to leave in place.
- d. Dams, diversions or other types of hydrologic modifications preclude the attainment of a full fish and aquatic life community, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of a full fish and aquatic life community.
- e. Physical conditions related to the natural features of the water body, such as the lack of proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of a full fish and aquatic life community.

Description:

This segment is a combination of: first - flow through a dry run (130 ft), second - diffuse flow through a wetland (1220 ft), third - flow through a pipe (850 ft). There is no potential for fish use. The channelized dry run and piped sections are dry most of the year and can't support a macroinvertebrate community. Very tolerant aquatic life (LAL) is the appropriate use designation.

**Prepared By**

Preparer Signature	Printed Name	Date Prepared
	Craig Roesler	02/17/2005

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Author and Peer Review**

The author should submit a peer-reviewed report to Watershed Program Coordinator for review and approval.

Submitted By	Date
Peer Reviewed By	Date

**Approval Signatures**

Review, approval, and signature by the Watershed Program Coordinator (Expert), Regional Water Leader (or designee) as well as the Water Quality Standards Section Chief (or designee) is required.

Printed Name of Watershed Program Coordinator (Expert)	Watershed Program Coordinator (Expert) Signature	Date
Printed Name of Regional Water Leader (or designee)	Regional Water Leader (or designee) Signature	Date
Printed Name of Water Quality Standards Section Chief (or designee)	Water Quality Standards Section Chief (or designee) Signature	Date

**Final Report Distribution List**

Once the Use Designation Report has been approved by the Water Quality Standards Section Chief (or designee), the report can be distributed to the appropriate individuals, as listed below. Please indicate below individuals who should be copied on final report distribution. It should be noted that the classification recommendation in the report does not become official until it is approved by the Natural Resources Board and adopted into Wisconsin Administrative Code.

Facility Contact \_\_\_\_\_

Basin Engineer \_\_\_\_\_

Basin Planner \_\_\_\_\_

Effluent Limits Calculator \_\_\_\_\_

Endangered Resources \_\_\_\_\_  
(when T&E Species Present)

Other Interested Parties:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Attach supporting data sheets)

**Use Designation Information – Required**

Water Body Name North Fork Eau Claire River	WBIC # 2145400	Date 02/17/2005
Region: <input type="checkbox"/> NER <input checked="" type="checkbox"/> NOR <input type="checkbox"/> SCR <input type="checkbox"/> SER <input type="checkbox"/> WCR	Basin Upper Chippewa	County Taylor

Quad Map Where Segment is Shown

Lublin

Reference Site(s) (Attach use designation form for reference site/cond.)

Segment Description for Segment 2 of 2 (headwater = segment 1)

From: the CTH A crossing of the North Fork Eau Claire River  upstream <u>11405</u> <input type="checkbox"/> mi., <input type="checkbox"/> km., <input checked="" type="checkbox"/> ft., <input type="checkbox"/> M.	Latitude: DEG MIN SEC <u>45</u> <u>03</u> <u>37.6000</u> N
	Longitude: DEG MIN SEC Datum Used <u>090</u> <u>43</u> <u>09.1000</u> W NAD 83
	Township Range <input type="checkbox"/> E Section $\frac{1}{4}$ -Section $\frac{1}{4}$ , $\frac{1}{4}$ -Section <u>30</u> N <u>03</u> <input checked="" type="checkbox"/> W <u>23</u> SW SW
To: the entrance of Lublin wastewater lagoon effluent to the North Fork Eau Claire River	Latitude: DEG MIN SEC <u>45</u> <u>04</u> <u>29.9000</u> N
	Longitude: DEG MIN SEC Datum Used <u>090</u> <u>43</u> <u>03.2000</u> W NAD 83
	Township Range <input type="checkbox"/> E Section $\frac{1}{4}$ -Section $\frac{1}{4}$ , $\frac{1}{4}$ -Section <u>30</u> N <u>03</u> <input checked="" type="checkbox"/> W <u>14</u> SW SW

Attach site map and photos (prefer digital) showing stream segment and discharge point.	Use Designation Status: <input type="checkbox"/> New Use Designation (First Field Assessment) <input checked="" type="checkbox"/> Standards Review (Updating Previous Field Assessment) <input type="checkbox"/> Reference Site
Date Fieldwork Conducted/Completed 10/12/2004	

Current Codified Fish and Aquatic Life Use Designation: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)	<input checked="" type="checkbox"/> Default <input type="checkbox"/> Field Assessment – Date (mm/dd/yyyy): _____	Existing FAL Use Based on Current Data: <input type="checkbox"/> Coldwater Community <input type="checkbox"/> Warmwater Sport Fish Community <input checked="" type="checkbox"/> Warmwater Forage Fish Community <input type="checkbox"/> Tolerant Fish and Aquatic Life Community (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life Community (LAL)
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Recommended Attainable Use Designation: <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input checked="" type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Recommended Seasonal Use Designation(s): <input type="checkbox"/> Coldwater A (Coldwater) <input type="checkbox"/> Coldwater B (Coldwater) <input type="checkbox"/> Diverse Fish and Aquatic Life <input type="checkbox"/> Tolerant Fish and Aquatic Life (LFF) <input type="checkbox"/> Very Tolerant Aquatic Life (LAL)	Effective Date: (mm/dd/yyyy) _____ to _____ _____ to _____ _____ to _____ _____ to _____
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Other Applicable Uses (as recognized by existing administrative rule): <input type="checkbox"/> Outstanding Resource Water <input type="checkbox"/> Exceptional Resource Water <input type="checkbox"/> Great Lakes System <input type="checkbox"/> Public Drinking Water Supply <input type="checkbox"/> Recreational Use <input type="checkbox"/> Wildlife	Community Types: <input type="checkbox"/> Class I Trout <input type="checkbox"/> Class II Trout <input type="checkbox"/> Class III Trout <input type="checkbox"/> Coldwater A <input type="checkbox"/> Coldwater B <input type="checkbox"/> Game Fish <input checked="" type="checkbox"/> Non-Game Fish <input type="checkbox"/> Macroinvertebrates <input type="checkbox"/> Endangered/Threatened Species <input type="checkbox"/> Intolerant Species <input type="checkbox"/> Coolwater <input type="checkbox"/> Tolerant Fish <input type="checkbox"/> Tolerant Macroinvertebrates
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# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Use Designation Information (continued)**

Basis for Use Designation Decision (List and briefly discuss key elements for the decision) – Use Attachment A, if necessary  
 Stream contained a non-game fish community with 79% of individuals not tolerant to low dissolved oxygen concentrations.

**Discharger Information – Required**

Municipality/Company	WPDES Permit Number	Date Permit Issue	Permit Renewal
Lublin	0031917	06/06/2000	06/30/2005

Outfall Location

N45 04 24.9, W90 42 34.1

Contact Person	Contact Date(s)
Richard Pulcher	

Did a Representative Observe Field Assessment?     Yes     No

Representative	Telephone Number (include area code)

Comments about facility representative's observations, etc.

**Literature Review – Use Attachment B, if necessary**

1. Previous classification reports and use designations – cite here and attach

May 25, 1978 classification report recommended that the stream meet fish and aquatic life criteria.

2. All previous studies and data associated with the water body that are applicable to use designation – cite here and attach

Flow reports for river include: Aug. and Sept. 1976 = zero, 05/03/1978 = 1cfs, 08/01/1988 = zero (standing pools with minnows), mean monthly flows estimated from 0.8 to 2.3cfs in spring and 0.1 to 0.2cfs in fall. 05/30/1985 = 0.1cfs (lots of minnows). 09/29/1980 = 5.3cfs. 09/29/1980 macroinvertebrate sample had HBI of 2.3. 05/25/1995 macroinvertebrate sample had HBI of 6.5.

3. Is stream listed as trout water in Wisconsin Trout Streams?     Yes     No    If yes, cite here and attach a copy

4. Any other literature applicable to the fish and aquatic life use designation – cite here and attach

5. Summarize and interpret the literature available and how it relates to and supports the recommended use designation

# Fish and Aquatic Life Use Designation Summary

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Water Body Name North Fork Eau Claire River	WBIC # 2145400	Date 02/17/2005
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**Field Assessment Data and Observations – Use Attachment C, if necessary**

Assessment Date (mm/dd/yyyy) 10/12/2004	Additional Assessment Date(s):
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<p><b>Stream Segment Physical/Chemical Data:</b></p> <p>Length <u>280</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> miles</p> <p>Avg. Width <u>7</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Max. Width _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Avg. Depth <u>0.4</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Max. Depth _____ <input type="checkbox"/> feet <input type="checkbox"/> meters</p> <p>Gradient _____ Velocity _____</p>	<p><b>Substrate Material:</b></p> <p>Silt <u>10</u> %      Organic _____ %</p> <p>Rubble <u>30</u> %      Gravel <u>30</u> %</p> <p>Sand <u>30</u> %      Other _____ %</p> <hr/> <p>Stream Flow <u>0.04</u> cfs <input type="checkbox"/> Measured <input checked="" type="checkbox"/> Estimated</p> <p>At time of assessment, flow was: <input type="checkbox"/> High <input checked="" type="checkbox"/> Low <input type="checkbox"/> Very Low</p> <p>7Q2 Flow <u>0</u> cfs</p> <p>7Q10 Flow <u>0</u> cfs</p>
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Stream Temperature \_\_\_\_\_ °C  Instantaneous  24-Hr. Maximum  24-hr. Avg.

Dissolved Oxygen (Instantaneous) \_\_\_\_\_ mg/L Time of Day \_\_\_\_\_:\_\_\_\_\_  am  pm

Minimum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L Time of Day \_\_\_\_\_:\_\_\_\_\_  am  pm

Maximum Dissolved Oxygen Recorded \_\_\_\_\_ mg/L Time of Day \_\_\_\_\_:\_\_\_\_\_  am  pm

Method of Analysis:  Meter  Modified Winkler Method

<p><b>Effluent Flow:</b></p> <p>Daily Average _____ cfs <input type="checkbox"/> Measured <input type="checkbox"/> Estimated</p> <p>Design Flow _____ cfs (Convert MGD to cfs by multiplying by 1.55)</p>	<p><b>Chemical Data Collected:</b> (STORET # _____ )</p> <p><input type="checkbox"/> Ammonia    <input type="checkbox"/> Pesticides    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Atrazine    <input type="checkbox"/> Phosphorus    <input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Bacteria    <input type="checkbox"/> Metals    <input type="checkbox"/> Other: _____</p>
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Brief Interpretation/Comments:

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**Habitat – Use Attachment D, if necessary**

Procedure:  Guidelines For Evaluating Fish Habitat in Wisconsin Streams (Simonson, Lyons and Kanehl, 1994)

Development and Evaluation of a Habitat Rating System For Low Gradient Wisconsin Streams

Other – Describe: \_\_\_\_\_

Habitat Rating – Attach Habitat Rating Forms:  Excellent  Good  Fair  Poor

Significant Problems Affecting Use Attainment:

Low-flow     Sedimentation     Bank Erosion     Ditching     Fish Cover     Depth

Other – Describe: \_\_\_\_\_

Observations About Habitat Quality:

Stream has fair riffle/pool/run structure with adequate habitat for a non-game fish population.

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Biological Data – Fish data is required**

Fish:

Sampling Date (mm/dd/yyyy) 10/12/2004

Species List and IBI Forms:  Attached to Report  Not Applicable

Survey Location(s) \_\_\_\_\_

Distance Sampled 280  feet  meters  miles

Sampling Gear:  Backpack Shocker  Other – Describe: \_\_\_\_\_

Number of Species Collected 9 Total Number of Fish Collected 144

Number of Intolerant Species \_\_\_\_\_ % Intolerant Species \_\_\_\_\_

Endangered or Other Special Category Species Collected:

Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____
Species _____	No. of Individuals Collected _____

IBI Score \_\_\_\_\_ Rating \_\_\_\_\_

Macroinvertebrates:

Sampling Date (mm/dd/yyyy) \_\_\_\_\_  HBI  FBI

Survey Location(s) \_\_\_\_\_

Sampling Procedure \_\_\_\_\_

Less than 100 organisms were found – List Dominant Genera, etc.:

Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____
Genus _____	Number Found _____	HBI Score _____

More than 100 organisms found – Attach taxonomy bench sheet or other analyses

Other Biological Data/Observations – Use Attachment E, if necessary

09/29/1980 macroinvertebrate sample in middle of segment had HBI of 2.3. 05/25/1995 macroinvertebrate sample just below outfall had HBI of 6.5 (beaver dams were present upstream at the time).

Interpretations Based on Existing Fish and Aquatic Life Community – Use Attachment F, if necessary

Stream contained a non-game fish community with 79% of individuals not tolerant to low dissolved oxygen concentrations.

**WATERSHED DATA AND OBSERVATIONS – Optional (Please answer to the best of your ability. Estimates are acceptable.)**

Approximate Area \_\_\_\_\_  Acres  Square Miles

Land Use: Crop Land \_\_\_\_\_% Pasture \_\_\_\_\_% Forest \_\_\_\_\_%

Grass Land \_\_\_\_\_% Urban \_\_\_\_\_% Wetland \_\_\_\_\_%

Number of Feedlots/Barn Yards Near Stream \_\_\_\_\_

Other Nonpoint Sources \_\_\_\_\_

# Fish and Aquatic Life Use Designation Summary

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Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**WATERSHED DATA AND OBSERVATIONS** (continued) – Use Attachment G, if necessary

Is this watershed currently or proposed to receive nonpoint source management under a State, Federal or local organization?

No     Yes    List Date(s) (mm/dd/yyyy) \_\_\_\_\_

Explain \_\_\_\_\_

Discuss nonpoint source impacts and controllability, and nonpoint relationship to fish and aquatic life existing and attainable uses. Include factors such as bank erosion, land cover/use near stream, gully erosion, barnyards, etc. (attach additional sheets if required):

**VTAL/TFAL Justification** – Required – Use Attachment H, if necessary

**Note:** This section must be completed when the use designation is tolerant fish and aquatic life (formerly LFF) or very tolerant aquatic life (formerly LAL)

Recommended Attainable Use Designation:     TFAL     VTAL

**Tolerant Fish and Aquatic Life and Very Tolerant Aquatic Life use designations (LFF & LAL) are not defined as full fish and aquatic life uses. However, these uses are in most cases the best use that can be attained by these resources due to habitat or water quality limitations. A designated use recommendation into one of these sub-categories must be based on one or more of the following factors (sec. 283.15, Stats.). Check all that apply to this use designation and provide a brief description of the situation:**

- a. Naturally occurring pollutant concentrations prevent the attainment of a full fish and aquatic life community.
- b. Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of a full fish and aquatic life community, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating water conservation requirements.
- c. Human caused conditions or sources of pollution prevent the attainment of a full fish and aquatic life community and cannot be remedied or would cause more environmental damage to correct than to leave in place.
- d. Dams, diversions or other types of hydrologic modifications preclude the attainment of a full fish and aquatic life community, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of a full fish and aquatic life community.
- e. Physical conditions related to the natural features of the water body, such as the lack of proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of a full fish and aquatic life community.

Description:

<b>Prepared By</b>		
Preparer Signature	Printed Name	Date Prepared
	Craig Roesler	02/17/2005

# Fish and Aquatic Life Use Designation Summary

Form 3200-121 (12/04)

Page 6 of 6

Water Body Name	WBIC #	Date
North Fork Eau Claire River	2145400	02/17/2005

**Author and Peer Review**

The author should submit a peer-reviewed report to Watershed Program Coordinator for review and approval.

Submitted By	Date
Peer Reviewed By	Date

**Approval Signatures**

Review, approval, and signature by the Watershed Program Coordinator (Expert), Regional Water Leader (or designee) as well as the Water Quality Standards Section Chief (or designee) is required.

Printed Name of Watershed Program Coordinator (Expert)	Watershed Program Coordinator (Expert) Signature	Date
Printed Name of Regional Water Leader (or designee)	Regional Water Leader (or designee) Signature	Date
Printed Name of Water Quality Standards Section Chief (or designee)	Water Quality Standards Section Chief (or designee) Signature	Date

**Final Report Distribution List**

Once the Use Designation Report has been approved by the Water Quality Standards Section Chief (or designee), the report can be distributed to the appropriate individuals, as listed below. Please indicate below individuals who should be copied on final report distribution. It should be noted that the classification recommendation in the report does not become official until it is approved by the Natural Resources Board and adopted into Wisconsin Administrative Code.

Facility Contact \_\_\_\_\_

Basin Engineer \_\_\_\_\_

Basin Planner \_\_\_\_\_

Effluent Limits Calculator \_\_\_\_\_

Endangered Resources (when T&E Species Present) \_\_\_\_\_

Other Interested Parties:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**2004 MONITORING DATA BELOW THE LUBLIN  
WASTEWATER LAGOON OUTFALL**

The path of the Lublin wastewater lagoon effluent was examined on October 12, 2004. Discharge was occurring at the time. The outfall is located about 380 feet west of the lagoons at N45° 04' 24.9", W90° 42' 34.1" (see figure 1). Effluent flows through a small natural drainageway for 130 feet. The drainageway is normally dry except during effluent discharge. Effluent then enters a wetland with some reed canary grass and cattails initially and then becoming an alder swamp. Flow through the wetland is diffuse. Drainage from this wetland collects in a culvert passing under Burma Drive (site 1, figure 1; N45° 04' 29.4", W90° 42' 51.5"). Drainage then enters a buried pipe that follows the road ditch and terminates at the North Fork of the Eau Claire River (site 2; N45° 04' 29.9", W90° 43' 03.2").

The fish community in a 280 foot segment of the river just upstream of the entrance of effluent was assessed with a backpack shocker (site 2 to 3; N45° 04' 29.9", W90° 43' 03.2" to N45° 04' 31.4", W90° 43' 01.1"). Flow was estimated at 0.04 cfs. The channel averaged 7 feet wide and 5 inches deep. Substrate was mostly sand, gravel and cobble/rubble with some silt. Fish species found and number of each were:

<u>Species</u>	<u>Number</u>
white sucker	31
creek chub	28
pearl dace	18
brassy minnow	16
brook stickleback	16
central mudminnow	14
northern redbelly dace	12
finescale dace	8
blacknose dace	1

no. of species = 9

total no. of fish = 144

percent of non-game fish not tolerant to low D.O. = 79%

It was also noticed that a significant flow of water entered the river just downstream of the effluent pipe. The flow was estimated at 0.5 cfs. The flow was coming from the northwest and followed the south side of Burma Road before reaching the river. There does not appear to be a large enough drainage area to supply this amount of flow and its source is undetermined.

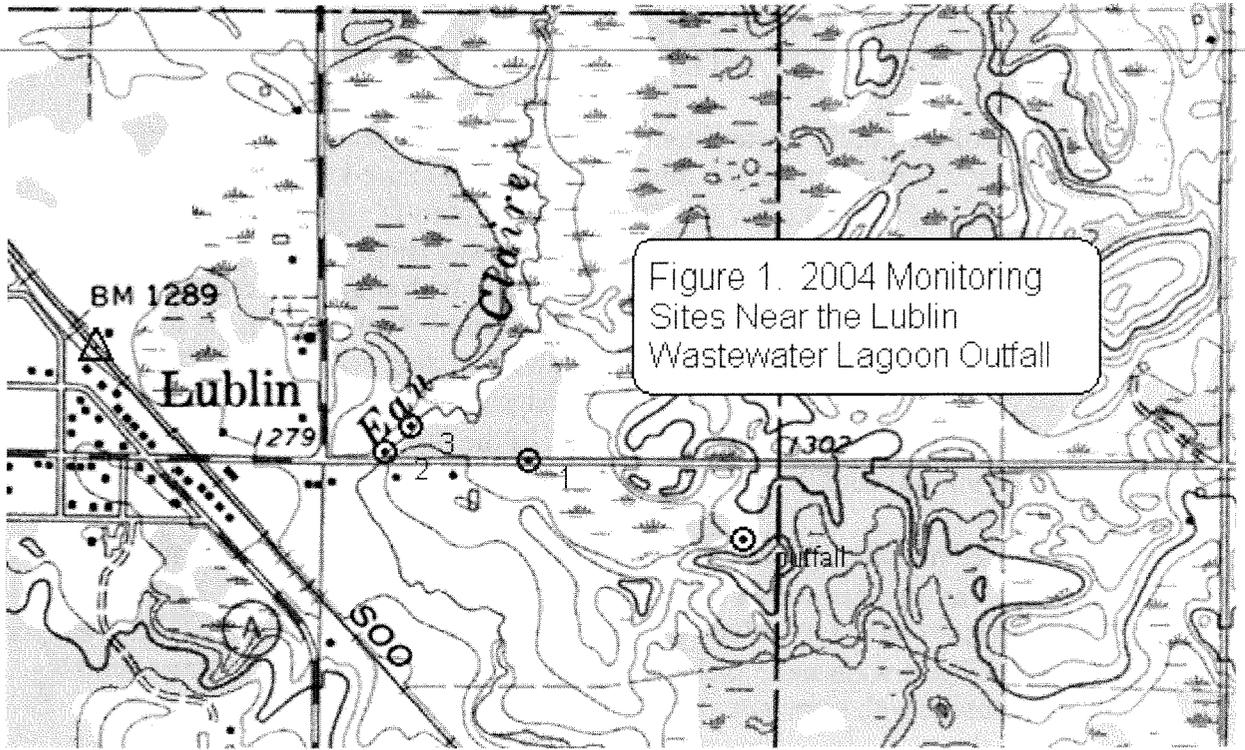


Figure 1. 2004 Monitoring Sites Near the Lublin Wastewater Lagoon Outfall

Region NOR County Taylor Report Date 5/1978 Classification LAL  
 Water Body: Eau Claire R., N. Fork, Trib to  
 Discharger: Lublin WWTP

If stream is classified as Limited Forage Fish (LFF) or Limited Aquatic Life (LAL), check any of the following Use Attainability Analysis factors that are identified in the classification report:

- Naturally occurring pollutant concentrations prevent the attainment of use
- Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met
- Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place
- Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or operate such modification in a way that would result in the attainment of the use
- Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses
- Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact

**Supporting Evidence in the report (include comments on how complete/thorough data is)**

- Biological Data (fish/invert)
- Chemical Data (temp, D.O., etc.)
- Physical Data (flow, depth, etc.)
- Habitat Description
- Site Description/Map
- Other: photos (aerial)

**Historical Reports in file:**

5/1978 - A. Behmcke

**Additional Comments/How to improve report:**

- LAL by 'default' b/c of diffuse SW & wetland designation

## CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: May 25, 1978

File Ref: 3200

To: Central Office - Madison

(DAVE HEISER)

From: A. A. Oehmcke

DNR

JUN 9 1978

Subject: Surface Water Classification (NR 104), Lublin, Taylor County

Lublin plans to construct a three cell wastewater treatment lagoon to be operated on a fill and draw basis. The lagoon will be located in the NW $\frac{1}{4}$  NE $\frac{1}{4}$ , Section 23, T30N, R3W.

The lagoon will discharge to a natural drainageway that is usually dry except in times of runoff. The drainageway leads to a beaver flowage on the North Fork of the Eau Claire River (see attached map). If the beaver dam were abandoned, the lagoon effluent would go to a wetland area and then to the North Fork of the Eau Claire River.

The North Fork of the Eau Claire River originates as an intermittent outlet from two small lakes in the NW $\frac{1}{4}$  of Section 12, T30N, R3W, approximately 2.5 miles north northeast of the lagoon site. In August and September, 1976, zero flow was observed down into Section 27, south of Lublin. On May 3, 1978, flow just east of Lublin was estimated at one cubic foot per second. The river has been found to contain smallmouth bass, panfish and minnows in Taylor County. In Clark County and probably into Taylor County, the Eau Claire River is a very important muskellunge spawning area in the spring. The stream bank is mostly pasture or marsh. Much instream cattle watering takes place resulting in little bank cover and stream bank erosion.

Aerial photos of the site are attached.

RECOMMENDATION

The natural drainageway (diffused surface water) and the beaver flowage (wetland) shall be classified as marginal surface waters.

The North Fork of the Eau Claire River shall meet fish and aquatic life criteria. Attention is directed to NR 104.02(4)(c)3 concerning instream dissolved oxygen and ammonia nitrogen criteria, particularly during spring draw down.

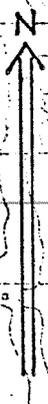
TS:mm

cc: P. J. Gottwald

Stuart Hagen - Eau Claire

→ J. Mc KERSIE

Attachments



St Stanislaus  
Cem

BM 1289

Lublin

St Marys  
Cem

PROPOSED  
LAGOONS

BEAVER  
FLOWAGE (APPROXIMATE)

PIPELINE

SCALE 1:24,000

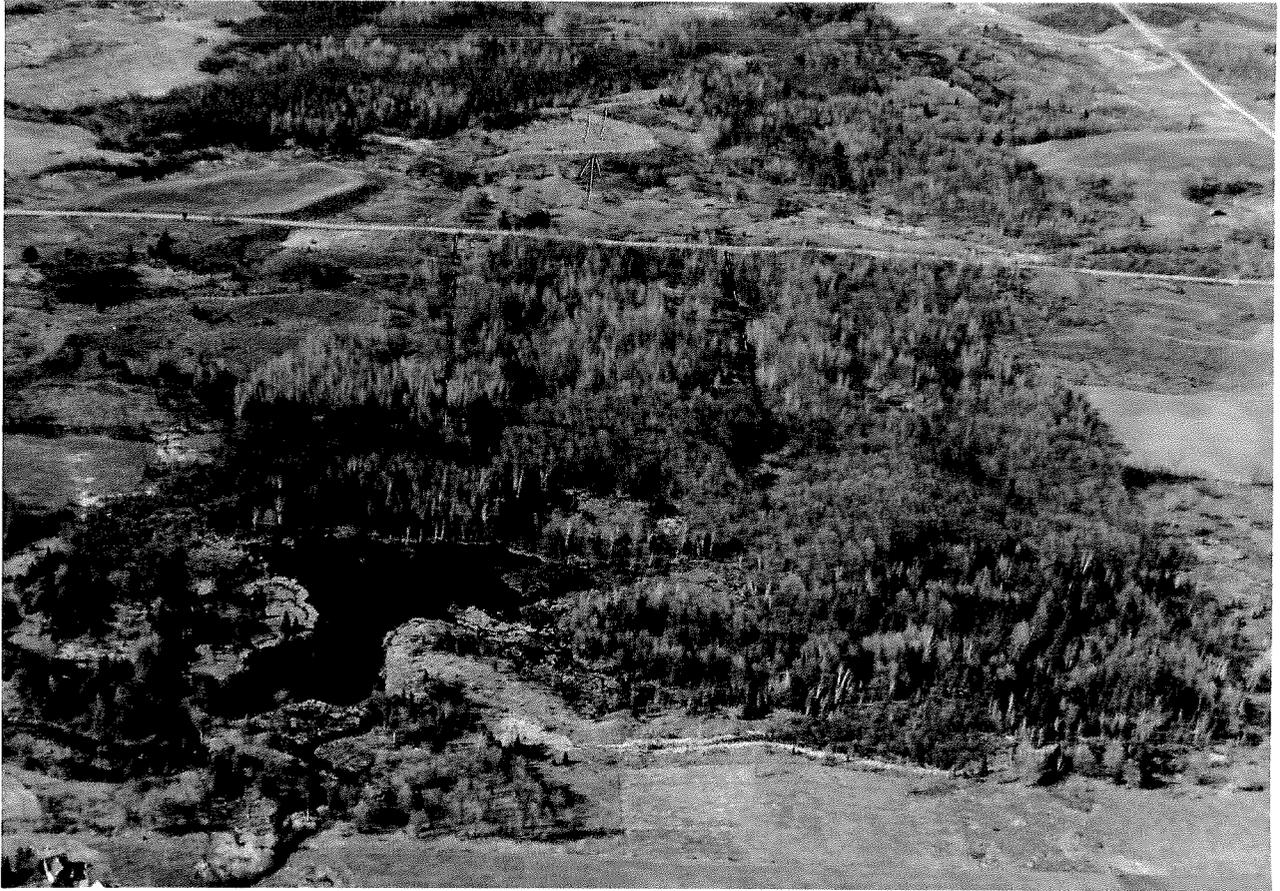
T. 30N, R. 3W



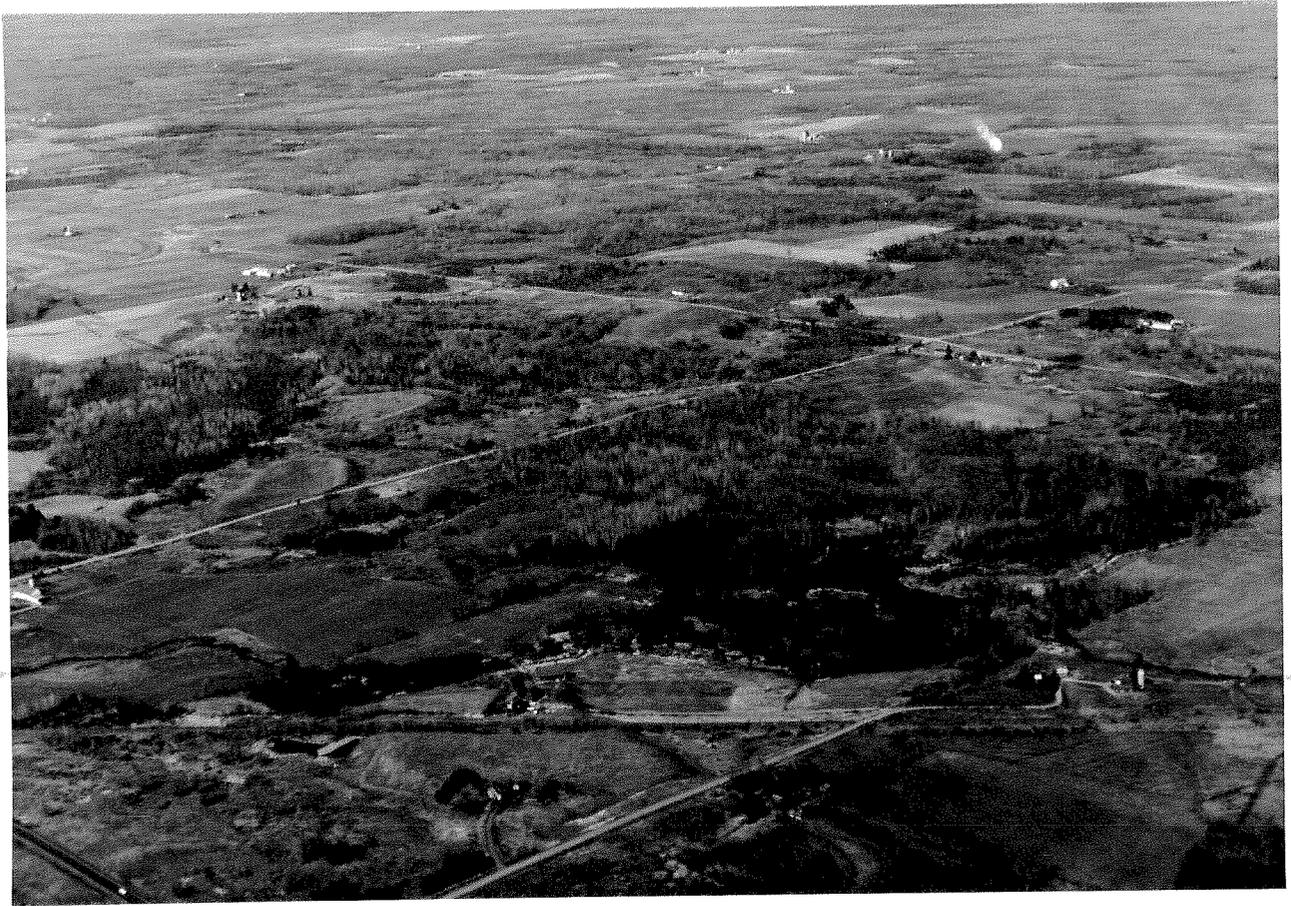
State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Anthony S. Earl  
Secretary

BOX 7921  
MADISON, WISCONSIN 53707



PROPOSED LAGOON SITE (DRAWN IN ---)  
EFFLUENT TO NE CORNER OF BEAVER FLOWAGE  
MAY 4, 1978



N. FK. Eau Claire R. & Beaver Flowage  
Proposed Lublin Lagoon Site  
May 4, 1978

Date: *May 4, 1978*

File Ref:

From:

Subject: *N. FK. Eau Claire R. & Beaver Flowage*

