

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

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Revision date: 5/25/2004

Introduction to the Process Transparency Document

(For a full description of the process for assessing water quality in Minnesota under the Clean Water Act, see “Guidance Manual for Assessing the Quality of Minnesota Surface Waters”, MPCA, January, 2004.

This document is available from the MPCA or to read and download from the MPCA Web site at:

<http://www.pca.state.mn.us/publications/manuals/tmdl-guidancemanual04.pdf>)

In general, the assessment process compares monitoring data with applicable water quality standards by stream reach. The Professional Judgment Group is composed of assessment staff who know how the preliminary assessments were done, and monitoring staff who advise on the correct interpretation of monitoring data collected by them or their organization.

The stream assessment Process Transparency Document is designed to provide both a template for considering preliminary assessments at the major river basin Professional Judgment Group (PJG) meetings, and also to provide an enduring record of any special factors discussed or involved in making an assessment on a stream reach.

This document builds on two technical reports, a Data Summary Report and a Preliminary Assessment Report, which are produced in an automated manner using the assessment methodology described in the guidance document referenced above. Often, the application of the methodology produces an assessment that is reviewed without additional comment. When additional factors must be considered, or additional review is performed, or recommendations are made, these are noted on the Process Transparency Document, along with significant comments that reinforce or pertain to the assessment for the reach.

Use the “find” capability when using this document in electronic format to find a particular AUID or stream name. The order of the notes varies according to how they were used in the PJG meeting.

Abbreviation Key:

AUID	Assessment Unit Identification Code – incorporates the 8-digit HUC (ie. 07020001 517)
NS	Non-supporting
FS	Fully-supporting
PS	Partially-supporting
NA	Not Assessed
IAR	Integrated Assessment Reporting

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HUC NHD event Seg Miles Reach Name Reach Description
09020101 501 001 15.3 Bois De Sioux R Rabbit R to Otter Tail R
Aquatic life—preliminary assessment NS Final assessment NS Based on Biota & DO
AQL assessment quality (Excellent, good, fair, poor) Excellent
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) Y Which pollutants DO
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota, low DO
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota, low DO
Delisting status (if applicable) _____
IAR category 5
Additional Comments Mike Ell (ND)- IBI work in EPA Report; ND is listing this reach for fecal coliform/Aquatic Rec;

HUC NHD event Seg Miles Reach Name Reach Description
09020101 502 114 22.24 Rabbit R Wilkin City Line to Bois De Sioux R
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity, DO, and Biota
AQL assessment quality (Excellent, good, fair, poor) Excellent
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) Y Which pollutants Ammonia, Turbidity
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota, Ammonia, Turbidity
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota, Ammonia, Turbidity, DO
Delisting status (if applicable) recommend review of Ammonia listing
IAR category 5
Additional Comments _____

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HUC NHD event Seg Miles Reach Name Reach Description
09020102 501 003 18.96 Twelvemile Cr West Br Twelvemile Cr to Mustinka R
Aquatic life—preliminary assessment NS Final assessment NS Based on Biota
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020102 503 001 8.28 Mustinka R Unnamed Cr to Lk Traverse
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments Use class confirmed

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HUC NHD event Seg Miles Reach Name Reach Description
09020102 505 (retired) 010 34.99 Mustinka R Lightning Lk to Fivemile Cr

****reach split at use class change;**

HUC NHD event Seg Miles Reach Name Reach Description
09020102 517 30.22 Mustinka R Lightning Lk to Grant/Travers Co Line (2C portion)

****no data for this portion of the reach**

HUC NHD event Seg Miles Reach Name Reach Description
09020102 518 4.76 Mustinka R Grant/Traverse Co Ln (end 2C portion) to Fivemile Cr

Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity

AQL assessment quality (Excellent, good, fair, poor) Fair

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) N Which pollutants _____

2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity

Delisting status (if applicable) _____

IAR category 5

Additional Comments Use class confirmed.

HUC NHD event Seg Miles Reach Name Reach Description
09020103 501 014 39.05 Otter Tail R Headwaters to Pine Lk

This assessment unit was retired after being split into 8 smaller assessment units (528-535) to properly reflect use class on each reach. July, 03.

Aquatic life—preliminary assessment NA Final assessment NA Based on _____

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA

1998 TMDL listing (Y/N) Y Which pollutants DO

2002 TMDL listing (Y/N) Y Which pollutants DO

2004 Impairment (4 or 5) (Y/N) Y Which pollutants DO

Delisting status (if applicable) **Recommend delist review of all 8 split reaches 528-535.**

Considered for delisting in 2002, there were still enough violations to list.

IAR category 5

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Additional Comments -532 and -535 assessed this cycle. See page 7.

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 502 101 8.2 Otter Tail R Breckenridge Lk to Bois de Sioux R

Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment PS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) Y Which pollutants Fecal coliform, Turbidity
2002 TMDL listing (Y/N) Y Which pollutants turbidity, fecal coliform
2004 Impairment (4 or 5) (Y/N) Y Which pollutants turbidity, fecal coliform
Delisting status (if applicable) recommend data review for delisting for FC
IAR category 5
Additional Comments USGS monitoring shows reduction in Fecal Coliform levels; local groups working on BMPs

HUC NHD event Seg Miles Reach Name Reach Description
09020103 503 701 2.5 Otter Tail R Pelican R to Dayton Hollow Reservoir

Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) Y Which pollutants Turbidity
2002 TMDL listing (Y/N) N Which pollutants Was delisted for turbidity
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) It was delisted for turbidity, no violations in later time period, one violation in earlier time period appeared to be an anomaly
IAR category 2
Additional Comments _____

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 504 301* 19.04 Otter Tail R JD #2 to Breckenridge Lk
Aquatic life—preliminary assessment NS Final assessment NS Based on Biota and Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota, turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments reach has been channelized and is observed to be impaired

HUC NHD event Seg Miles Reach Name Reach Description
09020103 506 301* 7.61 Otter Tail R Orwell dam to JD #2
Aquatic life—preliminary assessment PS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments 1/10 turbidity exceedances - dataset too small to confidently assess non-support for turbidity, recommend more sampling .

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 522 007 2.78 Ottertail R (Pine Lk) below Toad R**
(assessment reach 522 altered to 521 after PJG, but before Final Assessment, to reflect consistent use class)

09020103 521 007 2.78 Ottertail R Pine Lake to Rush Lake
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments Use class confirmed.

HUC NHD event Seg Miles Reach Name Reach Description
09020103 526 012* 8.09 Toad R Little Toad Lk to End trout stream portion
Aquatic life—preliminary assessment FS Final assessment NA Based on **Inadequate dataset**
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments Use class confirmed.

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 532 (split from 501) 014* 10.90 Otter tail R Rice Lk to Mud Lk**
Aquatic life—preliminary assessment PS Final assessment PS Based on Dissolved Oxygen
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions **Lg wetland influence with GW inflow**
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) _____ Which pollutants _____
2002 TMDL listing (Y/N) _____ Which pollutants _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants DO brought forward from “retired” AU 501
Delisting status (if applicable) Recommend review of DO listing carried forward from “parent” reach – if the low DO is wholly natural, appropriate IAR category would be 4d
IAR category 5
Additional Comments use class confirmed
****501 split to properly reflect use class differences within the original reach**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 535(split from 501) 014* 1.01 Otter Tail R Little Pine Lk to Pine Lk**
Aquatic life—preliminary assessment FS Final assessment FS
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) _____ Which pollutants _____
2002 TMDL listing (Y/N) _____ Which pollutants _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants DO brought forward from “retired” AU 501
Delisting status (if applicable) Recommend review of DO listing carried forward from “parent” reach
IAR category 5
Additional Comments Use class confirmed.
****501 split to properly reflect use class differences within the original reach.**

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 542 012* 9.74 Toad R Trout stream portion to Pine Lk
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments Use class confirmed.

HUC NHD event Seg Miles Reach Name Reach Description
09020103 543 na 3.43 Campbell Cr Campbell Lk to Floyd Lk
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 544 na 0.05 Unnamed Cr Floyd Lk to Little Floyd Lk No Data ???

Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 545 na 10.98 Pelican R Headwaters to Detroit Lk

Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

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HUC	NHD event	Seg	Miles	Reach Name	Reach Description
09020103	546	na	1.07	CD 14	St. Clair Lk to Pelican R
Aquatic life—preliminary assessment _____ Final assessment <u>NA</u> Based on _____					
AQL assessment quality (Excellent, good, fair, poor) _____					
Factors used, please describe					
A. Timing of exceedances _____					
B. Magnitude of exceedances _____					
C. Seasonality of exceedances _____					
D. Naturally occurring conditions _____					
E. Combination of narrative and numeric standards _____					
F. Known point and nonpoint influences in the watershed _____					
G. Additional data _____					
Aquatic recreation use—preliminary assessment _____ Final assessment <u>NA</u> _____					
AR assessment quality (Excellent, good, fair, poor) _____					
Fish consumption use <u>NA</u> _____					
1998 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2002 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____					
Delisting status (if applicable) _____					
IAR category _____					
Additional Comments Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.					

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
09020103	547	na	0.17	Pelican R	Detroit Lk to CD 14
Aquatic life—preliminary assessment _____ Final assessment <u>NA</u> Based on _____					
AQL assessment quality (Excellent, good, fair, poor) _____					
Factors used, please describe					
A. Timing of exceedances _____					
B. Magnitude of exceedances _____					
C. Seasonality of exceedances _____					
D. Naturally occurring conditions _____					
E. Combination of narrative and numeric standards _____					
F. Known point and nonpoint influences in the watershed _____					
G. Additional data _____					
Aquatic recreation use—preliminary assessment _____ Final assessment <u>NA</u> _____					
AR assessment quality (Excellent, good, fair, poor) _____					
Fish consumption use <u>NA</u> _____					
1998 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2002 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____					
Delisting status (if applicable) _____					
IAR category _____					
Additional Comments Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.					

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 550 na 0.45 Pelican R Muskrat Lk to Lk Sallie
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 551 na 2.76 Sucker Cr Headwaters to Detroit Lk
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 553 na 0.23 Pelican R Lk Sallie to Lk Melissa

Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 555 na 0.09 Pelican R Lk Melissa to Mill Pond

Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 556 na 0.31 Unnamed Cr Lind Lk to Lk Melissa
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 557 na 3.55 Unnamed Cr (Campbell Cr) Headwaters to Campbell Lk
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

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HUC NHD event Seg Miles Reach Name Reach Description
09020103 559 na 3.55 Unnamed Cr (Campbell Cr) Headwaters to Campbell Lk
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020103 902 na na Unnamed Cr (Dead Lake Outlet) Dead Lk to Toad R
Aquatic life—preliminary assessment FS Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **This site was sampled as part of the USGS NAWQA study, which is not long term study. Dataset is inadequate for assessment. The USGS site is called "Toad River" because it is downstream on a Toad R "dis-tributary" that flows through Dead Lake.**

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HUC NHD event Reach Name Reach Description
09020103 903 Unnamed Cr(Little Floyd Lk) Little Floyd Lk to Unnamed Cr (Pelican R)
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Dataset includes only measures to compare to ecoregion criteria, not WQ Standards. These provide supporting information, but are not used alone to assess streams.**

HUC NHD event Seg Miles Reach Name Reach Description
09020104 501 006 20.36 Whiskey Cr Headwaters to Red R
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) _____ Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Turbidity
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments Use class confirmed

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HUC NHD event Seg Miles Reach Name Reach Description
09020104 502 102 21.51 Red R Fargo/Moorhead dam A to Sheyenne R (ND)
Aquatic life—preliminary assessment NA Final assessment NA Based on
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data data from ND TMDL study was not include due to time constraints – no affect on listing
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Ammonia, Fecal
2002 TMDL listing (Y/N) Y Which pollutants Unionized ammonia, fecal coliform
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury & PCB, Unionized ammonia, fecal coliform
Delisting status (if applicable) _____
IAR category 5
Additional Comments TMDL listed also for North Dakota. Swimming went from NS to PS because of loss of data. Metals monitoring does not use clean techniques, but is generally not contaminated. However, be wary of zinc values. Mike Ell (ND) – weekly FC collected for TMDL continue to show impairment

HUC NHD event Seg Miles Reach Name Reach Description
09020104 503 105 24.99 Red R Breckenridge dam to Whiskey Cr
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Excellent
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data There are more ND data, but not accessed within assessment timeframe.
Aquatic recreation use—preliminary assessment PS Final assessment FS with 2nd step
AR assessment quality (Excellent, good, fair, poor) Fair
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Turbidity, FCA Mercury, PCB
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, FCA Mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, FCA Mercury, PCB
Delisting status (if applicable) _____
IAR category 5
Additional Comments Mike Ell considers it to be reference site. North Dakota says PS for fecal coliform. (2002 notes)

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HUC NHD event Seg Miles Reach Name Reach Description
09020104 504 202 3.11 Red R Fargo/Moorhead dam 1 to dam A

Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data ND has add'l FC data which was not used due to time constraints

Aquatic recreation use—preliminary assessment PS Final assessment PS
AR assessment quality (Excellent, good, fair, poor) Fair
Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Turbidity, fecal coliform
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, fecal coliform
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury & PCB, Turbidity, fecal coliform
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020106 501 001 45.08 Buffalo R South Br Buffalo R to Red R

Aquatic life—preliminary assessment FS Final assessment FS Based on Biota
AQL assessment quality (Excellent, good, fair, poor) good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA

1998 TMDL listing (Y/N) Y Which pollutants Turbidity
2002 TMDL listing (Y/N) Y Which pollutants Turbidity
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments current dataset does not include turbidity measures

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HUC NHD event Seg Miles Reach Name Reach Description
09020106 502 108 12.83 Stony Cr Hay Cr to South Br Buffalo R
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data There appears to be no new data in 2004 _____
Aquatic recreation use—preliminary assessment _____ Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) Y Which pollutants Turbidity _____
2002 TMDL listing (Y/N) Y Which pollutants Turbidity _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity _____
Delisting status (if applicable) _____

HUC NHD event Seg Miles Reach Name Reach Description
09020106 503 002 16.28 S Br Buffalo R Stony Cr to Buffalo R
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data There appears to be no new data in 2004 _____
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments _____

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HUC NHD event Seg Miles Reach Name Reach Description
09020106 504 003 10.4 S Br Buffalo R Whiskey Cr to Stony Cr
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data There appears to be no new data in 2004
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020106 505 004 16.58 S Br Buffalo R Deerhorn Cr to Whiskey Cr
Aquatic life—preliminary assessment NS Final assessment NS Based on Biota
AQL assessment quality (Excellent, good, fair, poor) **Good**
Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota
Delisting status (if applicable) _____
IAR category 5
Additional Comments Downstream of bad biology, need more monitoring. Very few fish and very few species.

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HUC NHD event Seg Miles Reach Name Reach Description
09020106 506 009 69.49 Buffalo R Headwaters to South Br Buffalo R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 5
Additional Comments Degradation is downstream of Buffalo River State Park.

HUC NHD event Seg Miles Reach Name Reach Description
09020106 509 007* 5.91 Whiskey Cr End Class 2C to SouthBr Buffalo R
Aquatic life—preliminary assessment NS Final assessment NS Based on Biota
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Biota
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

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NHD event Seg Miles Reach Name Reach Description
09020106 519 None 9.12 Hay Cr Unnamed Cr to Spring Cr Whiskey Cr
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020107 501 009 22.39 Red R Buffalo R to Elm R (ND)
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment PS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Fecal, Turbidity
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, fecal coliform, mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury & PCB, Fecal, Turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

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HUC NHD event Seg Miles Reach Name Reach Description
09020107 509 007* 9.65 Twin Lake Cr Sargent Lk to Wild Rice R
Aquatic life—preliminary assessment _____ Final assessment **NA** Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____ Appears to be no new data _____
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) **N** Which pollutants _____
2002 TMDL listing (Y/N) **N** Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **insufficient data to assess**

HUC NHD event Seg Miles Reach Name Reach Description
09020107 519 015* 8.15 Marsh Cr Blair Lk to Beaulieu Lk
Aquatic life—preliminary assessment _____ Final assessment **NA** Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____ Appears to be no new data _____
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) **N** Which pollutants _____
2002 TMDL listing (Y/N) **N** Which pollutants _____
2004 Impairment (4 or 5) (Y/N) _____ Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments **insufficient data to assess**

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HUC NHD event Seg Miles Reach Name Reach Description
09020107 502 002 22.77 Red R Wild Rice R to Goose R (ND)
Aquatic life—preliminary assessment PS Final assessment FS Based on current dataset,
which does not include turbidity -
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Turbidity, Mercury, PCB
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, Mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, Mercury, PCB
Delisting status (if applicable) _____
IAR category 5
Additional Comments **All 3 DO exceedances occurred during 9 days of peak flooding in 1993, so considered anomalous for application of assessment methodology.**

HUC NHD event Seg Miles Reach Name Reach Description
09020107 503 010 51.07 Marsh R Headwaters to Red R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments _____

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HUC NHD event Seg Miles Reach Name Reach Description
09020107 505 001 0.88 Red R Goose R (ND) to Marsh R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) _____ Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury & PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury & PCB
Delisting status (if applicable) _____
IAR category 5
Additional Comments - _____

HUC NHD event Seg Miles Reach Name Reach Description
09020108 501 001 30.58 Wild Rice R South Br Wild Rice R to Red R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

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HUC	NHD event	Seg	Miles	Reach Name	Reach Description
09020108	502	002	56.8	South Br Wild Rice R	Otto Lk to Wild Rice R
Aquatic life—preliminary assessment <u>FS</u> Final assessment <u>FS</u> Based on _____					
AQL assessment quality (Excellent, good, fair, poor) <u>Good</u>					
Factors used, please describe					
A. Timing of exceedances _____					
B. Magnitude of exceedances _____					
C. Seasonality of exceedances _____					
D. Naturally occurring conditions _____					
E. Combination of narrative and numeric standards _____					
F. Known point and nonpoint influences in the watershed _____					
G. Additional data _____					
Aquatic recreation use—preliminary assessment <u>NA</u> Final assessment _____					
AR assessment quality (Excellent, good, fair, poor) _____					
Fish consumption use <u>NA</u>					
1998 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2002 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2004 Impairment (4 or 5) (Y/N) <u>N</u> Which pollutants _____					
Delisting status (if applicable) _____					
IAR category <u>2</u>					
Additional Comments _____					

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
09020108	503	003	44.58	Wild Rice R	Marsh Cr to South Br Wild Rice R
Aquatic life—preliminary assessment <u>FS</u> Final assessment <u>FS</u> Based on _____					
AQL assessment quality (Excellent, good, fair, poor) <u>Good</u>					
Factors used, please describe					
A. Timing of exceedances _____					
B. Magnitude of exceedances _____					
C. Seasonality of exceedances _____					
D. Naturally occurring conditions _____					
E. Combination of narrative and numeric standards _____					
F. Known point and nonpoint influences in the watershed _____					
G. Additional data _____					
Aquatic recreation use—preliminary assessment <u>NA</u> Final assessment <u>NA</u>					
AR assessment quality (Excellent, good, fair, poor) _____					
Fish consumption use <u>NA</u>					
1998 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2002 TMDL listing (Y/N) <u>N</u> Which pollutants _____					
2004 Impairment (4 or 5) (Y/N) <u>N</u> Which pollutants _____					
Delisting status (if applicable) _____					
IAR category <u>2</u>					
Additional Comments _____					

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This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020301 501 004 8.01 Red R Cole Cr (ND) to Red Lake R
Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment PS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury, PCB
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, FCA Mercury & PCB
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020301 504 203 2.14 Red R Red Lk R to Grand Forks dam
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Noted to be as turbid as upstream and downstream, but no turbidity data
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury, PCB
2002 TMDL listing (Y/N) Y Which pollutants Mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury & PCB
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020303 501 003 30.52 Red Lake R Burnham Cr to Unnamed Cr

Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments **Only 11 datapoints for FC**

HUC NHD event Seg Miles Reach Name Reach Description
09020303 503 001 1.88 Red Lake R Unnamed Cr to Red R

Aquatic life—preliminary assessment NS Final assessment NS Based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020303 504 013 21.22 Red Lake R Unnamed Cr to Clearwater R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020303 506 107 20.54 Red Lake R Crookston Dam to Burnman Cr (Class 1C, 2Bd, 3B)
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020303 507 017 34.53 Black R Headwaters to Red Lake R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020303 508 015 66.05 Red Lake R Headwaters to Thief R Headwaters to Red
Aquatic life—preliminary assessment FS Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments Only 12 datapoints taken too close in time to consider independently; Use class confirmed.

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 501 001 7.19 Clearwater R Lower Badger Cr to Red Lk R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Excellent
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 502 002 11.9 Lower Badger Cr CD 14 to Clearwater R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 504 009* 10.33 Poplar R Hwy 59 to Lost R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 505 010 2.43 Lost R Hill R to Poplar R
Aquatic life—preliminary assessment FS ? Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments 0/7 unionized ammonia in dataset; inadequate for assessment

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 507 112 40.1 Lost R Anderson Lk to Hill R
Aquatic life—preliminary assessment PS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Monitoring site is right in Oklee
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Fecal coliform
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Fecal coliform
Delisting status (if applicable) _____
IAR category 5
Additional Comments **Continue to trust USGS recent data and positive fish IBI.**

HUC NHD event Seg Miles Reach Name Reach Description
09020305 508 NA 0.37 CD 57 Unnamed Ditch to Clearwater R
Aquatic life—preliminary assessment _____ Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data There appears to be no new data
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Low DO
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Low DO
Delisting status (if applicable) _____
IAR category 5
Additional Comments This data is from CWP project.

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 509 NA 4.82 Walker Bk Walker Bk Lk to Clearwater R

Aquatic life—preliminary assessment FS? Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Low DO _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Low DO _____
Delisting status (if applicable) _____
IAR category 5 _____
Additional Comments Data is all from 1992-1993 _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 510 013 58 Clearwater R Ruffy Bk to Lost R

Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Fair _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment FS Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS _____
1998 TMDL listing (Y/N) Y Which pollutants Mercury _____
2002 TMDL listing (Y/N) Y Which pollutants Low DO, fecal coliform, mercury _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Low DO, fecal coliform, FCA Mercury _____
Delisting status (if applicable) no new FC data except in Winter , which is not used for swimming assessments; Consider delisting for DO. _____
IAR category 5 _____
Additional Comments 2004— past listing for FC was reviewed and confirmed _____

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 511 007 11.63 Clearwater R Lost R to Beau Gerlot Cr

Aquatic life—preliminary assessment FS Final assessment NA Based on inadequate dataset

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury

2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 512 212 8.43 Lost R Pine Lk to Anderson Lk

Aquatic life—preliminary assessment FS? Final assessment NA Based on inadequate dataset

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) N Which pollutants _____

2004 Impairment (4 or 5) (Y/N) N Which pollutants _____

Delisting status (if applicable) _____

IAR category _____

Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 513 014 20.95 Ruffy Bk Headwaters to Clearwater R
Aquatic life—preliminary assessment FS ? Final assessment NA Based on inadequate dataset
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category _____
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 514 015 16.74 Clearwater R Clearwater Lk to Ruffy Bk
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS _____
1998 TMDL listing (Y/N) Y Which pollutants Mercury _____
2002 TMDL listing (Y/N) Y Which pollutants FCA Mercury _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury _____
Delisting status (if applicable) _____
IAR category 5 _____
Additional Comments _____

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 516 015* 18 Clearwater R Trout stream portion to Clearwater Lk
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment FS Final assessment PS
AR assessment quality (Excellent, good, fair, poor) Fair
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Fecal coliform , mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Fecal Coliform, FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments TMDL in process.

HUC NHD event Seg Miles Reach Name Reach Description
09020305 517 015* 29.49 Clearwater R Headwaters to trout stream portion
Aquatic life—preliminary assessment FS Final assessment NA Based on _____
AQL assessment quality (Excellent, good, fair, poor) Fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally **occurring** conditions DO, ground water discharge to wetland; wetland influence to river
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Heavily influenced by ground water, leads to low DO. Bagley WWTP has been upgraded and doing improved stormwater management.
G. Additional data _____
Aquatic recreation use—preliminary assessment FS Final assessment FS
AR assessment quality (Excellent, good, fair, poor) Fair
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments Conflicting information – low DO dataset conflicts with FS in other parameters.

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020305 518 009* 34.82 Poplar R Spring Lk to Hwy 59
Aquatic life—preliminary assessment FS ? Final assessment NA Based on inadequate dataset
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed partially ground water driven - Low DO
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Low DO _____
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Low DO _____
Delisting status (if applicable) _____
IAR category 5 _____
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020305 539 011* 28.06 Hill R Hill River Lk to Lost R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA _____
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2 _____
Additional Comments _____

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020309 501 001 9.11 Snake R Middle R to Red R

Aquatic life—preliminary assessment NS Final assessment NS Based on **Turbidity & Dissolved Oxygen**
AQL assessment quality (Excellent, good, fair, poor) Fair

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Low DO, turbidity
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Low DO, turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020309 503 003 15.37 Snake R CD 7 to CD 3

Aquatic life—preliminary assessment NS Final assessment NS Based on **Impaired Biota and DO**
AQL assessment quality (Excellent, good, fair, poor) Excellent

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants **Impaired Biota**
2004 Impairment (4 or 5) (Y/N) Y Which pollutants **Impaired Biota, Dissolved Oxygen**
Delisting status (if applicable) _____
IAR category 5
Additional Comments **Channel modification is a factor here and low DO during stagnant flow**

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020309 504 007 22.85 Snake R South Br Snake R to CD 7

Aquatic life—preliminary assessment NS Final assessment NS Based on **Impaired Biota**

AQL assessment quality (Excellent, good, fair, poor) **Good**

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment **NA** Final assessment **NA**

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use **NA**

1998 TMDL listing (Y/N) **N** Which pollutants _____

2002 TMDL listing (Y/N) **Y** Which pollutants **Impaired Biota**

2004 Impairment (4 or 5) (Y/N) **Y** Which pollutants **Impaired Biota**

Delisting status (if applicable) _____

IAR category **5**

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020309 505 011 88.93 Middle R Headwaters to Snake R

Aquatic life—preliminary assessment NS Final assessment **FS** Based on **Biota**

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment **NA** Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use **NA**

1998 TMDL listing (Y/N) **N** Which pollutants _____

2002 TMDL listing (Y/N) **N** Which pollutants _____

2004 Impairment (4 or 5) (Y/N) **N** Which pollutants _____

Delisting status (if applicable) _____

IAR category **2**

Additional Comments **1 NS IBI discounted because of water level conditions at time of sampling; 2 later fish collections on the reach yielded FS IBI**

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020309 506 009 29.16 Snake R Headwaters to Snake R South Br
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020311 501 002 2.82 Red R Pembina R (ND) to Canadian Border
Aquatic life—preliminary assessment NA Final assessment FS* Based on current dataset
AQL assessment quality (Excellent, good, fair, poor) fair
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Known to be turbid, but no recent data
G. Additional data ND data for sites 380005 & 384157 used in summary form; due to time constraints, secondary unionized ammonia review was not conducted. No problems are anticipated.
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury, PCB
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, mercury, PCB
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Turbidity, mercury, PCB
Delisting status (if applicable) Turbidity (keep on the list until new data shows it is OK)
IAR category _____
Additional Comments North Dakota says threatened for aquatic life based on toxics, fully supporting for swimming. This segment includes both USGS site 05102490 and ND site 38005. Arsenic shows no exceedances of aquatic life standard. *while the current dataset before the PJG shows full support, the past listing of NS for turbidity must be carried forward in impaired water list.

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Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020311 503 207 33.19 Tamarac R Florian Park Reservoir to Stephen dam
Aquatic life—preliminary assessment NS Final assessment NS Based on Impaired

Biota

AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA _____

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota _____

2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota _____

Delisting status (if applicable) _____

IAR category _____

Additional Comments Probably due to habitat _____

HUC NHD event Seg Miles Reach Name Reach Description
09020312 501 003 20.59 Two Rivers Middle Br Two R to North Br Two R
Aquatic life—preliminary assessment PS Final assessment FS Based on _____

AQL assessment quality (Excellent, good, fair, poor) Fair

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NS Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA _____

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) N Which pollutants _____

2004 Impairment (4 or 5) (Y/N) N Which pollutants _____

Delisting status (if applicable) _____

IAR category 2 _____

Additional Comments 5/40 turbidity exceedences are close to listing threshold and exceedence threshold. TSS values are relatively low. Since the local monitoring project is expected to continue, disregarding turbidity until more data is collected by next round of assessments.

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Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020312 502 204 32.96 Two R, South Br Lk Bronson to Middle Br Two R
Aquatic life—preliminary assessment FS Final assessment FS Based on _____
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment (4 or 5) (Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020312 503 005 26.03 Middle Br Two Rivers Headwaters to South Br Two R
Aquatic life—preliminary assessment NS Final assessment NS Based on Impaired Biota
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota
2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota
Delisting status (if applicable) _____
IAR category 5
Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020312 504 007 39.31 North Br Two Rivers Headwaters to Little Joe R
Aquatic life—preliminary assessment NS Final assessment NS Based on Impaired

Biota

AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota

2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
09020312 506 504 24.89 Two R, South Br Unnamed Ditch to Lateral Ditch #2
Aquatic life—preliminary assessment NS Final assessment NS Based on Impaired

Biota

AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment _____

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) Y Which pollutants Impaired Biota

2004 Impairment (4 or 5) (Y/N) Y Which pollutants Impaired Biota

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

2004 Assessment - Red River Basin

Professional judgment group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information

Revision date: 5/25/2004

HUC NHD event Seg Miles Reach Name Reach Description
09020314 501 002 49.53 Roseau R Hay Cr to Canada Border

Aquatic life—preliminary assessment PS Final assessment NS Based on _____
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions Possibly partially naturally low DO, hydrology has been altered
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants DO, mercury
2002 TMDL listing (Y/N) Y Which pollutants low DO, mercury
2004 Impairment (4 or 5) (Y/N) Y Which pollutants low DO, FCA Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments IBI for RRV Site in NMW - don't use biology data. Only 8 fecal coliform observations. Project to reestablish natural hydrology in Hay Ck for WQ improvement.
