

Professional judgement group transparency form for assessed streams

HUC NHD event Seg Miles Reach Name Reach Description
04010101 501 012 31.1 Pigeon R South Fowl Lk to Pigeon Bay
Aquatic life—preliminary assessment FS Final assessment FS
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 Very little human influence, State Park area
G. Additional data Jesse A. checked with the Indian Band to see if they have additional data. There was no response to requests for data
Swimming use—preliminary assessment NA Final assessment NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
Additional Comments Although there were only 9 observations of conventional pollutants and 9 observations of unionized ammonia, that is enough to assess this reach as fully supporting.

HUC NHD event Seg Miles Reach Name Reach Description
04010101 502 015 13.1 Brule R Greenwood R to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
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 _____
Swimming use—preliminary assessment FS Final assessment FS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Keep on list for mercury
Additional Comments One of the most pristine streams on the North Shore

HUC NHD event Seg Miles Reach Name Reach Description
04010101 503 027 17.3 Cascade R Cascade Lk to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
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 Jesse had summarized data collected by EPA in 1998. Raw data is not yet available.
Swimming use—preliminary assessment NA Final assessment NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
Additional Comments Although there were only 8 or 9 observations at MPCA site, summary of 1998 EPA data supports assessment. Summary shows average unionized ammonia of .011.

HUC NHD event Seg Miles Reach Name Reach Description
04010101 504 030 8.1 Poplar R Mistletoe Cr to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS

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 Jesse had summary of 1998 EPA data, raw data not yet available

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments Summary of 1998 EPA data shows ave. turbidity of 16.69, standard is 10

HUC NHD event Seg Miles Reach Name Reach Description
04010101 508 050 12.1 Baptism R West Br Baptism R to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS

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 Little influence, State Park area

G. Additional data Summary of 1998 EPA data shows low turbidity, mean=0.86.

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 501 009 22.3 Beaver R Headwaters to Lk Superior
Aquatic life—preliminary assessment NS Final assessment PS Based on high pH

Factors used, please describe

- A. Timing of exceedances Lead data suggesting non-support was collected before use of clean metals techniques
- 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 _____

Swimming use—preliminary assessment FS Final assessment FS

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

2002 TMDL listing (Y/N) Y Which pollutants Mercury, keep on list for turbidity until delisting decision is made

Additional Comments The few lead values from 1996 (when use of clean techniques started) were low. PH violations do not result in TMDL listing. Consider delisting for turbidity.

HUC NHD event Seg Miles Reach Name Reach Description
04010102 502 010 22.8 Gooseberry R Headwaters to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
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 Little influence, State Park
G. Additional data _____
Swimming use—preliminary assessment NA Final assessment NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
Additional Comments *Although there were only 9 observations, there is no conflicting knowledge to suggest problems.*

HUC NHD event Seg Miles Reach Name Reach Description
04010102 503 011 16.5 Stewart R Headwaters to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
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 _____
Swimming use—preliminary assessment NA Final assessment NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
Additional Comments *Reach name in STORET needs to be changed to Stewart River.*

HUC NHD event Seg Miles Reach Name Reach Description
04010102 504 012 23.5 Knife R Headwaters to Lk Superior
Aquatic life—preliminary assessment NS Final assessment NS *Based on turbidity, high pH, temperature*
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances low pH violations not much below the standard, 6.3 compared to 6.5
C. Seasonality of exceedances _____
D. Naturally occurring conditions Some natural conditions affect turbidity
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Some land use conditions affect turbidity
G. Additional data Year 2000 temperature data shows 28% of hours over 68 degrees F., causing thermal stress for brook trout.
Swimming use—preliminary assessment PS-Step 1 _____ Final assessment FS
1998 TMDL listing (Y/N) Y Which pollutants Mercury, turbidity
2002 TMDL listing (Y/N) Y Which pollutants Turbidity, temperature, keep mercury
Additional Comments *The low pH violations were at a different station, different time period than the high pH violations. The high pH violations were in more recent years.*

HUC NHD event Seg Miles Reach Name Reach Description
04010102 505 013 17.8 Big Sucker Cr Paradise Lk to Lk Superior
Aquatic life—preliminary assessment PS Final assessment FS

Factors used, please describe

- A. Timing of exceedances _____
B. Magnitude of exceedances low pH violations close to standard, 6.3 compared to 6.5
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 may also be temperature data, raw data not readily available.

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments Name of reach needs to be corrected in STORET.

HUC NHD event Seg Miles Reach Name Reach Description
04010102 506 014 11.9 French R. Headwaters to Lk Superior
Aquatic life—preliminary assessment PS Final assessment FS

Factors used, please describe

- A. Timing of exceedances _____
B. Magnitude of exceedances low pH violations close to standard, 6.4 compared to 6.5
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 _____

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 507 015 20.5 Lester R Headwaters to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS

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 _____

Swimming use—preliminary assessment FS Final assessment FS

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

2002 TMDL listing (Y/N) Y Which pollutants Keep on list for mercury, turbidity

Additional Comments There is no reason to believe there has been improvement. There is known to be turbidity in the lower portion of this stream, although recent data does not reflect this.

HUC NHD event Seg Miles Reach Name Reach Description
04010102 511 115 2.1 Amity Cr Tributary to Lester R
Aquatic life—preliminary assessment FS Final assessment NA

Factors used, please describe

- A. Timing of exceedances Metals data shows no problems, but is older data, no conventional data
- 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 _____

Swimming use—preliminary assessment PS-Step 1 Final assessment FS

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
040100102 513 206 12.2 Silver Cr Headwaters to Lk Superior
Aquatic life—preliminary assessment NS Final assessment NA

Factors used, please describe

- A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques, no conventional data
- 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 _____

Swimming use—preliminary assessment NA Final assessment NA

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 514 306 8.7 Encampment R Headwaters to Lk Superior
Aquatic life—preliminary assessment FS Final assessment NA

Factors used, please describe

- A. Timing of exceedances Metals data shows no problems, but is older data, no conventional data
- 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 1998 EPA data shows one high TSS value

Swimming use—preliminary assessment NA Final assessment NA

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 515 406 6.3 Crow Cr Headwaters to Lk Superior
Aquatic life—preliminary assessment ___FS___ Final assessment ___NA___

Factors used, please describe

- A. Timing of exceedances ___ *Metals data shows no problems, but is older data, no conventional data*
- 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 _____

Swimming use—preliminary assessment ___NA___ Final assessment ___NA___

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 517 104 1.0 Little Sucker R Headwaters to Lk Superior
Aquatic life—preliminary assessment ___NS___ Final assessment ___NA___

Factors used, please describe

- A. Timing of exceedances ___ *Metals data suggesting non-support was collected before use of clean metals techniques*
- 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 _____

Swimming use—preliminary assessment ___NA___ Final assessment ___NA___

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010102 518 106 1.0 Pete's Cr Headwaters to Lk Superior
Aquatic life—preliminary assessment ___NS___ Final assessment ___NA___

Factors used, please describe

- A. Timing of exceedances ___ *Metals data suggesting non-support was collected before use of clean metals techniques*
- 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 _____

Swimming use—preliminary assessment ___NA___ Final assessment ___NA___

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 501 003 4.8 St.Louis Bay Pokegama R to Lk Superior

Aquatic life—preliminary assessment NS Final assessment FS

Factors used, please describe

A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques

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 Newer metals data show full support

Swimming use—preliminary assessment PS- Step 1 Final assessment FS

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

2002 TMDL listing (Y/N) Y Which pollutants Toxics from harbor toxics study, mercury

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 502 006 9.3 St.Louis R Mission Cr to Pokegama R

Aquatic life—preliminary assessment NS Final assessment FS

Factors used, please describe

A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances low pH violations close to standard, 6.3 compared to 6.5

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 is no more recent metals data

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 503 013 9.5 St.Louis R Cloquet R to Pine R

Aquatic life—preliminary assessment FS Final assessment FS

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 New metals data also shows support

Swimming use—preliminary assessment FS Final assessment FS

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

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

Additional Comments _____

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010201	506	017	18.5	St.Louis R	East Savanna R to Artichoke R

Aquatic life—preliminary assessment NS Final assessment PS based on low pH
 Factors used, please describe
 A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques
 B. Magnitude of exceedances _____
 C. Seasonality of exceedances _____
 D. Naturally occurring conditions pH mostly natural _____
 E. Combination of narrative and numeric standards _____
 F. Known point and nonpoint influences in the watershed _____

G. Additional data No new metals data _____
 Swimming use—preliminary assessment FS Final assessment FS _____
 1998 TMDL listing (Y/N) N Which pollutants _____
 2002 TMDL listing (Y/N) N Which pollutants _____
 Additional Comments pH mostly natural --peat bogs

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010201	511	031	19.2	St.Louis R	Embarrass R to Two R

Aquatic life—preliminary assessment FS Final assessment FS
 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 _____
 Swimming use—preliminary assessment FS Final assessment FS _____
 1998 TMDL listing (Y/N) N Which pollutants _____
 2002 TMDL listing (Y/N) N Which pollutants _____
 Additional Comments _____

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010201	513	109	2.1	St.Louis R	Fond du Lac dam to Mission Cr

Aquatic life—preliminary assessment NS Final assessment FS
 Factors used, please describe
 A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques
 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 New data for metals shows support
 Swimming use—preliminary assessment FS Final assessment FS _____
 1998 TMDL listing (Y/N) Y Which pollutants Mercury _____
 2002 TMDL listing (Y/N) Y Which pollutants Mercury _____
 Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 514 111 0.8 St.Louis R Thomson Reservoir (09-0001)
Aquatic life—preliminary assessment ___NS___ Final assessment ___FS___

Factors used, please describe

A. Timing of exceedances ___ *Metals data suggesting non-support was collected before use of clean metals techniques* _____

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 _____

Swimming use—preliminary assessment ___FS___ Final assessment ___FS___

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

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

Additional Comments ___ *Fully supporting reflects water column status. Sediments are contaminated.* _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 515 211 2.8 St.Louis R Scanlon Dam to Thomson Reservoir
Aquatic life—preliminary assessment ___NS___ Final assessment ___FS___

Factors used, please describe

A. Timing of exceedances ___ *Metals data suggesting non-support was collected before use of clean metals techniques* _____

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 _____

Swimming use—preliminary assessment ___FS___ Final assessment ___FS___

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

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

Additional Comments _____

HUC NHD event Seg Miles Reach Name Reach Description
04010201 516 311 1.6 St.Louis R Potlatch dam to Scanlon Dam
Aquatic life—preliminary assessment ___NS___ Final assessment ___PS___ based on low pH

Factors used, please describe

A. Timing of exceedances ___ *Metals data suggesting non-support was collected before use of clean metals techniques* _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions ___ *low pH may be due to natural causes* _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Swimming use—preliminary assessment ___FS___ Final assessment ___FS___

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

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

Additional Comments ___ *low pH may be due to natural causes, may not be* _____

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010201	517	511	6.2	St.Louis R	Pine R to Knife Dam

Aquatic life—preliminary assessment NS Final assessment PS *due to low pH*
 Factors used, please describe
 A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques
 B. Magnitude of exceedances _____
 C. Seasonality of exceedances _____
 D. Naturally occurring conditions low pH due partly to natural causes
 E. Combination of narrative and numeric standards _____
 F. Known point and nonpoint influences in the watershed _____

G. Additional data _____
 Swimming use—preliminary assessment FS Final assessment FS
 1998 TMDL listing (Y/N) N Which pollutants _____
 2002 TMDL listing (Y/N) N Which pollutants _____
 Additional Comments low pH due partly to natural causes

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010202	501	001	17.7	Cloquet R	Us-kab-wan-ka R to St.Louis River

Aquatic life—preliminary assessment NS Final assessment PS *due to low pH*
 Factors used, please describe
 A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques
 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 _____
 Swimming use—preliminary assessment FS Final assessment FS
 1998 TMDL listing (Y/N) N Which pollutants _____
 2002 TMDL listing (Y/N) N Which pollutants _____
 Additional Comments low pH may be partly due to natural causes

HUC	NHD event	Seg	Miles	Reach Name	Reach Description
04010301	501	215	2.3	Unnamed Cr	Tributary to Skunk Cr

Aquatic life—preliminary assessment NS Final assessment NA
 Factors used, please describe
 A. Timing of exceedances Metals data suggesting non-support was collected before use of clean metals techniques
 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 _____
 Swimming use—preliminary assessment NA Final assessment NA
 1998 TMDL listing (Y/N) N Which pollutants _____
 2002 TMDL listing (Y/N) N Which pollutants _____
 Additional Comments _____

