Recreational Use Attainability Analysis

Cover Sheet

Water Body Name: Lick Creek Ditch

Water Body Identification #: 2980

Completed UAA Checklist:

- G Pre-Field Preparatory Data Sheet
- G Maps with actual survey sites marked
- G Data Sheet A
- G Data Sheet B – 3 of 3 pages for each site
  - Number of Sites: ~~6~~ 7
- G Data Sheet C (if applicable)
  - Number of Interviews: 1
- G Photographs
  - Quantities
    - Upstream 6
    - Downstream 7
    - Other 14

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported in this UAA is true and accurate.

Signed: _____ Date: 07-05-06

Printed Name: CHAD E. BAMBOUR Telephone #: 410-356-8993

Organization: TETRA TECH INC. Position: SCIENTIST

Pre-Field Preparatory Data Sheet
for Recreational Use Stream Surveys

Water Body Name: (from USGS 7.5' quad) Lick Creek Ditch	
8-digit HUC: 08020203	Missouri Water Body Identification (WBID) #: 2980
County: Stoddard	
Upstream Legal Description: 36.90544, -89.98261	
Downstream Legal Description: 36.77643, -90.0804	
Discharger Facility Name(s): Dudley WWTF	
Discharger Permit Number(s): MO0102181	
Weather Conditions for Past 7 days: HOT, DRY	

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

WBID # 2980

Date: 07 / 05 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name:	Lick Creek Ditch
WBID #:	2980
Upstream Coordinates: (WGS 84, ddd.ddddd)	36.90540 , 089.98247
Downstream Coordinates: (WGS 84, ddd.ddddd)	36.77645 , 090.03043
Current Weather Conditions:	HOT, DRY
Number of Sites Evaluated:	6
Name(s) of Surveyor(s):	Chad Barbour John Roberts

WBID # 2980 Site # 857-D

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.77645 Longitude (ddd.dddd): 090 08043 ACC 30.6 FT	Arrival Time: 1100
Photo Ids: Upstream: 0340 Downstream: 0341	Other:

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

AT CR 624 ROAD CROSSING / INTERSECTION OF CR 624 & CR 64A

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: SURROUNDING AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☑ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ Other:				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

AGRICULTURE

WBID # 2980 Site # 857-D

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.26m 0.48m 0.44m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☑ Run	10m	8.2m	10m	0.39	0.48m
☐ Pool					
☑ Flow Present?	☑ Yes ☐ No		Velocity (ft/sec):	1m/3 sec.	

Downstream View Physical Dimensions: 0.30m 0.38m 0.35m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☑ Run	8m	6.4m	8m	0.34	0.38m
☐ Pool					
☑ Flow Present?	☑ Yes ☐ No		Velocity (ft/sec):	1m/3 sec.	

Substrate*: (These values should add up to 100%.)

20 % Cobble	% Gravel	70 % Sand	5 % Silt	5 % Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

SUBMERGED ALGAE ON ROCKS, 10% OF REACH AFFECTED.

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☑ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	☐ None	☑ Other: SAND
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # 2980 **Site #** 857-D

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

SIGHT RELOCATED DUE TO INACCESSIBILITY OF ORIGINAL LOCATION

WBID # 2980 Site # 853-D

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☑ Yes ☐ No
   If so, how long have you lived here? 1941

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☑ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☑ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

4. Additional Comments: RESIDENT STATED THAT EVER SINCE A DITCH WAS DUG NEARBY, THE LEVEL OF THE STREAM (DEPTH) HAS NEVER BEEN SUFFICIENT FOR FISHING. DITCH DUG APPROX 1976.

Contact Information (if willing to provide):

Name: NORMIS TEMPLES

Address: 624A DUDLEY, MO 63936

Telephone #: 573-624-4827

WBID # 2980 Site # 857

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.78876 Longitude (ddd.dddd): 090.07988 Acc: 19.7 FT	Arrival Time: 1145
Photo Ids: Upstream: ~~0341~~ CEB 06-29-06 UPSTREAM PHOTO MISSING Downstream: 0342	Other: 0345 - FOOT PATH 0343 - FIRE PIT 0344 - FISHING STICKS

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

PARK IN FIELD BEHIND RICELAND MILL. WALK 0.34 MILES EAST.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Evidence of Human Use*:

☐ Roads	☑ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☑ Camping Sites	☑ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☑ Other: FISHING ROD STICKS; SEE PHOTO 0344, FIRE PIT - SEE PHOTO 0343, FOOT PATH - SEE PHOTO 0345				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

AGRICULTURE - DRAINAGE FROM AG FIELDS SURROUNDING STREAM

QC'd
06/16/2006

WBID # 2980 Site # 857

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: * ESTIMATED DUE TO DEPTH

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	50m	* 28m	50m	1.5 *	* >2.0m
☐ Flow	Present? ☐ Yes ☑ No		Velocity (ft/sec):		

Downstream View Physical Dimensions: 0.20, 0.25, 0.27m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☑ Run	5m	2.8m	5m	0.24	0.27m
☐ Pool					
☑ Flow	Present? ☑ Yes ☐ No		Velocity (ft/sec):	1m/3s	

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	95 % Sand	5 % Silt	% Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ATTACHED SUBMERGED ALGAE; 10% OF STREAM AFFECTED

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☑ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	☐ None	☑ Other: SAND
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

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WBID # 2980 Site # 857

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

UPSTREAM PORTION TOO DEEP TO MEASURE, ESTIMATED.

WBID # 2980 Site # 857

Date: 06/16/2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

4. Additional Comments: _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #:

WBID # 2980 Site # 858

Date: 06/16/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.78986 Longitude (ddd.dddd): 090.07.986 ALT: 213 FT.	Arrival Time: 1216
Photo Ids: Upstream: 0346 Downstream: 0347 Other: 0350 - TREE 0352 - DISCHARGE 0348 - DISCHARGE PIPE 0349 - ALGAE PIPE (U/S)	

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

Park in field behind Riceland Mill, walk 0.34 miles East

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☑ Other: NONE				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

3 DISCHARGE PIPES WITHIN SEGMENT. - SEE PHOTOS 0348 & 0352

QC: 06/16/2006

WBID # 2980 Site # 858

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.32m 0.41m 0.10m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☑ Run	13m	15m	13m	0.28	0.41m
☐ Pool					
☑ Flow Present? ☑ Yes ☐ No			Velocity (ft/sec):	1m/8sec.	

Downstream View Physical Dimensions: 0.46m 0.98m 0.99m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	3m	11.2m	3m	0.81	0.99m
☑ Flow Present? ☑ Yes ☐ No			Velocity (ft/sec):	1m/5sec.	

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	100 % Sand	% Silt	% Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

EXTENSIVE ALGAL GROWTH THROUGHOUT - BOTH SUBMERGED AND FLOATING; 85% OF STREAM AFFECTED; SEE PHOTO 0349

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☑ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☑ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

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WBID # 2980 Site # 858

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

None

WBID # 2980 Site # 858

Date: 06/16/2006

None

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

4. Additional Comments: _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #:

WBID # 2980 Site # 859

Date: 06/16/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.74078 Longitude (ddd.dddd): 090.07992 Acc: 27.3Ft.		Arrival Time: 1250
Photo Ids: Upstream: 0353	Downstream: 0354	Other: 0365 - ALGAE

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

Park in Field behind Riceland Mill, walk 0.34 miles East, WALK upstream 150m.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ Other: NONE				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

AGRICULTURE: AG. DRAINAGE FROM SURROUNDING FIELDS

QC: [signature]

06/16/2006

WBID # 2980 Site # 859

Date: 06/16/2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.35, 0.30, 0.50m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	12m	14.4	12m	0.38	0.50
☐ Flow Present? ☑ Yes ☐ No			Velocity (ft/sec):	1m = 1s	

Downstream View Physical Dimensions: 0.32, 0.25, 0.29m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	20m	14.4	20m	0.29	0.29
☑ Flow Present? ☑ Yes ☐ No			Velocity (ft/sec):	1m = 9s	

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	95 % Sand	5 % Silt	% Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

EXTENSIVE ALGAL GROWTH THROUGHOUT / SUBMERGED AND FLOATING : SEE PHOTO
75% OF STREAM AFFECTED : SEE PHOTOS 0353-0355

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☑ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☑ Other: SAND
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☑ Other: ALGAE

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WBID # 2980 Site # 859

Date: 06/16/2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

None

WBID # 2980 Site # 859

Date: 06/16/2006

None

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____
     _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____
     _____

4. Additional Comments: _____
   _____
   _____
   _____
   _____
   _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #:

WBID # 2980 Site # 860

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.80007 Longitude (ddd.dddd): 090.07459 Acc 20FT	Arrival Time: 1430
Photo Ids: Upstream: 0356 Downstream: 0359 Other: 0361 - TRAIL 0357 - DRAINAGE PIPE 0358 - ALGAE 0360 - BAIT CUPS (FISHING)	

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

AT ROUTE 60 CROSSING, APPROX. 7 MILES WEST OF DEXTER, MO

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☑ Roads	☑ Foot paths/prints*	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☑ Fishing Tackle**
☐ Other:	*- SEE PHOTO 0361		**- EMPTY BAIT CUPS; SEE PHOTO 0360	

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

AGRICULTURE, AGRICULTURE DISCHARGES FROM SURROUNDING FIELDS.

QC: [signature]

06/16/2006

WBID # 2980 **Site #** 860

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.33, 0.20, 0.25 m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☑ Run	35m	12.6	35m	0.26	0.33m
☐ Pool					
☑ Flow	Present? ☑ Yes ☐ No		Velocity (ft/sec): 1m = 6s		

Downstream View Physical Dimensions: * ESTIMATED DUE TO DEPTH

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	50m	* 17.0	50m	* >1.0m	* >1.0m
~~☑~~ Flow	Present? ☐ Yes ☑ No		Velocity (ft/sec):		

2x 06/16/2006

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
10	10	80			

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

EXTENSIVE ALGAL GROWTH THROUGHOUT; 75 % OF STREAM AFFECTED.
SEE PHOTOS 0356, 0358, 0359

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☑ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☑ Other: SAND
Surface Deposit:	☐ Oil	☑ Scum	☑ Foam	☐ None	☐ Other:

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # 2980 **Site #** 860

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

NONE

WBID # 2980 **Site #** 860

Date: 06 / 16 / 2016

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____
     _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____
     _____

4. Additional Comments: _____
   _____
   _____
   _____
   _____
   _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #:

WBID # 2980 **Site #** 861

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.89567 Longitude (ddd.dddd): 640.07762 ACC. 39.6FT.	Arrival Time: 1530
Photo Ids: Upstream: 0362 Downstream: 0363	Other: 0364 - ALGAE

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

CR 271 ROAD CROSSING

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slopes	☑ Other: AGRICULTURE	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☑ Other: NONE - AREA VERY RURAL				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

AGRICULTURE / AG DISCHARGE FROM SURROUNDING FIELDS.

QL: [signature]
06/16/2006

WBID # 2980 Site # 861

Date: 06 / 16 / 2004

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.15, 0.20, 0.16

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	10m	1.8m	10m	0.17	0.20
☐ Flow Present? ☐ Yes ☑ No			Velocity (ft/sec):		

Downstream View Physical Dimensions: 0.20, 0.19, 0.20

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	10m	2.3	10m	0.20	0.20
☐ Flow Present? ☐ Yes ☑ No			Velocity (ft/sec):		

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	50 % Silt	50 % Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

EXTENSIVE ALGAL GROWTH THROUGHOUT; WATER VERY STAGNANT; 85 % OF STREAM AFFECTED
SEE PHOTOS 0362 - 0364

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☐ None	☑ Other: ORGANICS
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: BROWN
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☑ Other: ALGAL

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WBID # 2980 **Site #** 861

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

NONE

WBID # 2180 **Site #** 861

Date: 06 / 16 / 2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

4. Additional Comments: _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #:

WBID # 2980 **Site #** 862

Date: 06 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd): 36.90540 Longitude (ddd.dddd): 089.98247 ACC: 26.2 FT.	Arrival Time: 1615
Photo Ids: Upstream: 0365 Downstream: 0366	Other: 0367 - TRASH

Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.)

CR 231 ROAD CROSSING

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE - BOTH SIDES OF STREAM.	

Human Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Evidence of Human Use*:

☑ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ Other:				

Sources of Pollution: (e.g., trash dumping, tires, drainages, discharges, etc.)

TRASH IN STREAM, SEE PHOTO 0367

QL: [signature]

06/16/2006

WBID # 2180 Site # 862

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions: 0.48m 0.38m 0.40m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☑ Pool	8m	7.8m	8m	0.42	0.48 m
☑ Flow	Present? ☐ Yes ☑ No		Velocity (ft/sec):		

Downstream View Physical Dimensions: 0.56m 0.57m 0.64m

	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
☐ Riffle					
☐ Run					
☐ Pool	9m	16.5m	9m	059	0.64m
☑ Flow	Present? ☐ Yes ☑ No		Velocity (ft/sec):		

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
10	90				

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

SMALL AMOUNT OF ALGAE ON BOTTOM; 50% OF BOTTOM AFFECTED.

Water Characteristics*: (Mark all that apply.)

Odor:	☑ Sewage	☐ Musky	☐ Chemical	☐ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: brown turbid
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☑ Other: Sand
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # 2980 **Site #** 862

Date: 06 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).

NONE

WBID # 2986 **Site #** 862

Date: 06 / 16 / 2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area? ☐ Yes ☐ No
   If so, how long have you lived here? _____

2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often do you use it for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

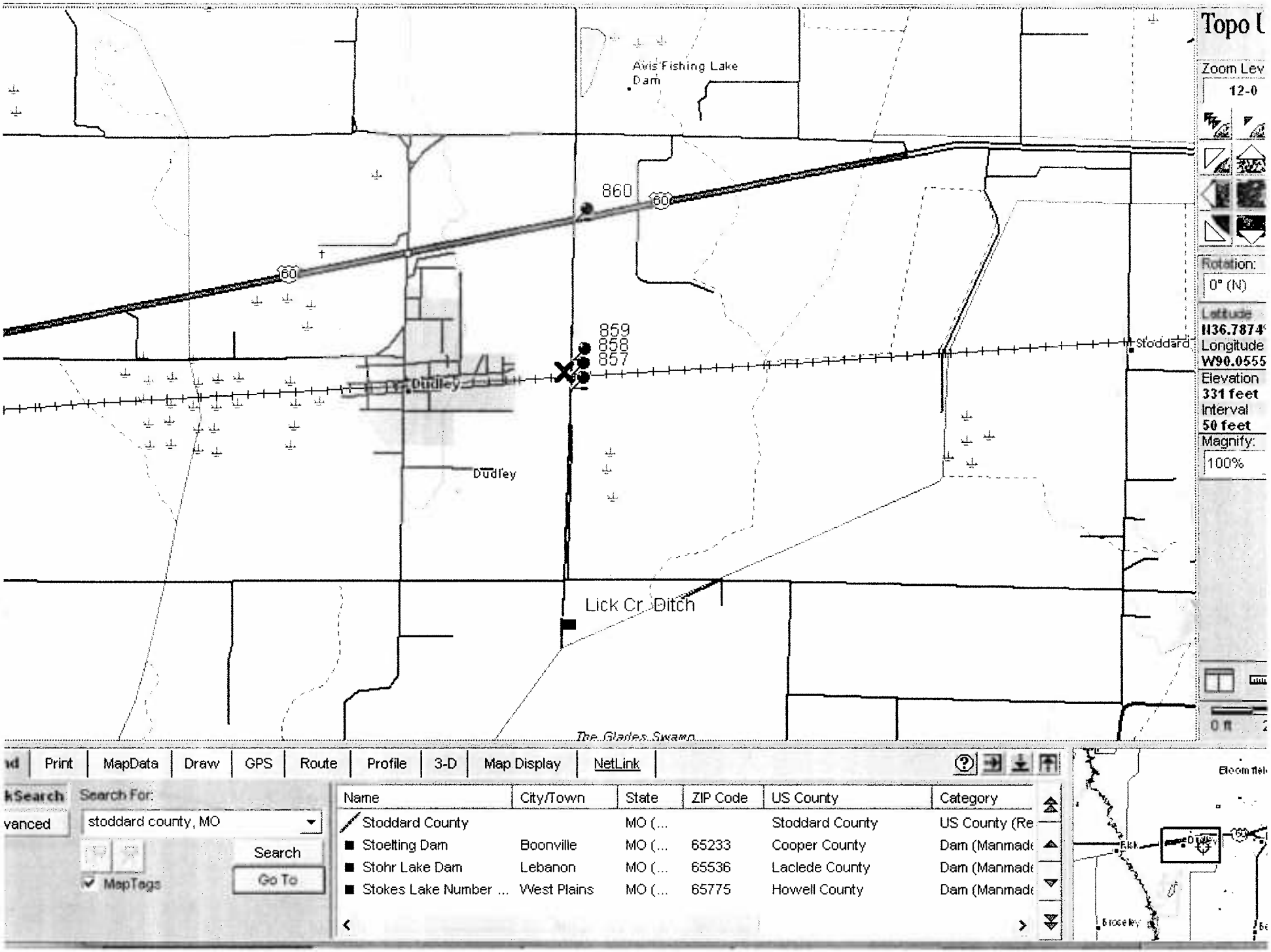
3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No
   If so, please check ALL that apply:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:

   How often have you observed it being used for recreation?
   - G More than 5 times per year
   - G 1 – 5 times per year
   - G Less than 1 time per year – please describe: _____

4. Additional Comments: _____

Contact Information (if willing to provide):
Name:
Address:
Telephone #: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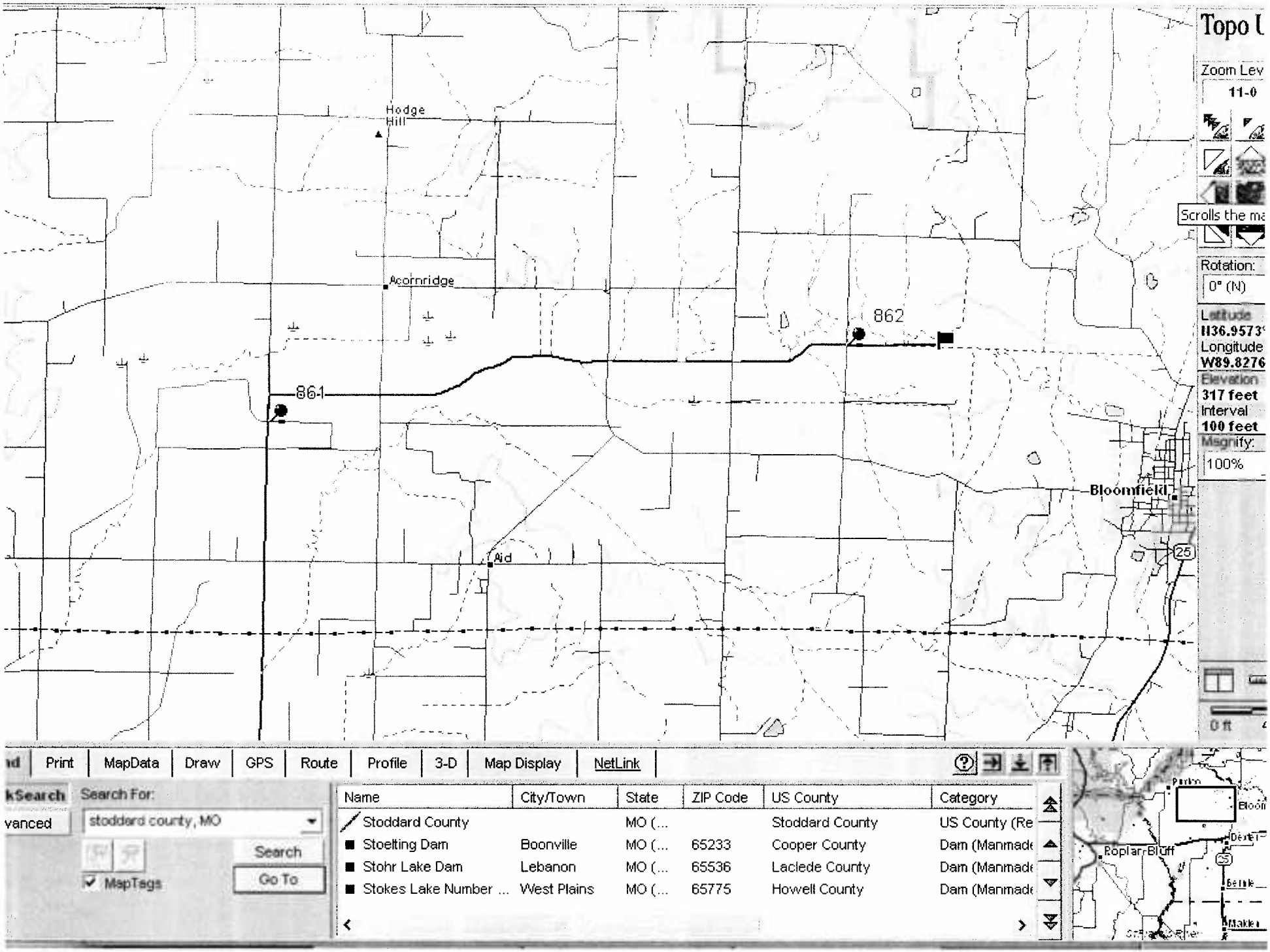
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Cooper County
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Lebanon
MO (...
65536
Laclede County
Dam (Manmade
Stokes Lake Number ...
West Plains
MO (...
65775
Howell County
Dam (Manmade
Poplar Bluff

WBID# 2980

Site# 857-D Photo ID# 0340, Upstream

Site# 857-D Photo ID# 0341, Downstream

Site# 857 Photo ID# 0342, Downstream

Site# 857 Photo ID# 0343, Fire pit

WBID# 2980

Site# 857 Photo ID# 0344, Fishing

Site# 857 Photo ID# 0345, Footpath

Site# 858 Photo ID# 0346, Upstream

Site# 858 Photo ID# 0347, Downstream

WBID# 2980

Site# 858 Photo ID# 0348, Discharge pipe

Site# 858 Photo ID# 0349, Algae

Site# 858 Photo ID# 0350, Tire

Site# 858 Photo ID# 0352, Discharge pipe

WBID# 2980

Site# 859 Photo ID# 0353, Upstream

Site# 859 Photo ID# 0354, Downstream

Site# 859 Photo ID# 0355, Algae

Site# 860 Photo ID# 0356, Upstream

WBID# 2980

Site# 860 Photo ID# 0359, Downstream

Site# 860 Photo ID# 0357, Drainage pipe

Site# 860 Photo ID# 0358, Algae

Site# 860 Photo ID# 0360, Bait cups

WBID# 2980

Site# 860 Photo ID# 0361, Trail

Site# 861 Photo ID# 0362, Upstream

Site# 861 Photo ID# 0363, Downstream

Site# 861 Photo ID# 0364, Algae

WBID# 2980

Site# 862 Photo ID# 0365, Upstream

Site# 862 Photo ID# 0366, Downstream

Site# 862 Photo ID# 0367, Trash