Use Attainability Analysis

for

WBID 0327 Third Fork Platte River

Submitted by
Tetra Tech, Inc

To
Missouri Department of Natural Resources
Water Protection Program

RECEIVED
APR 06 2005
WATER PROTECTION PROGRAM

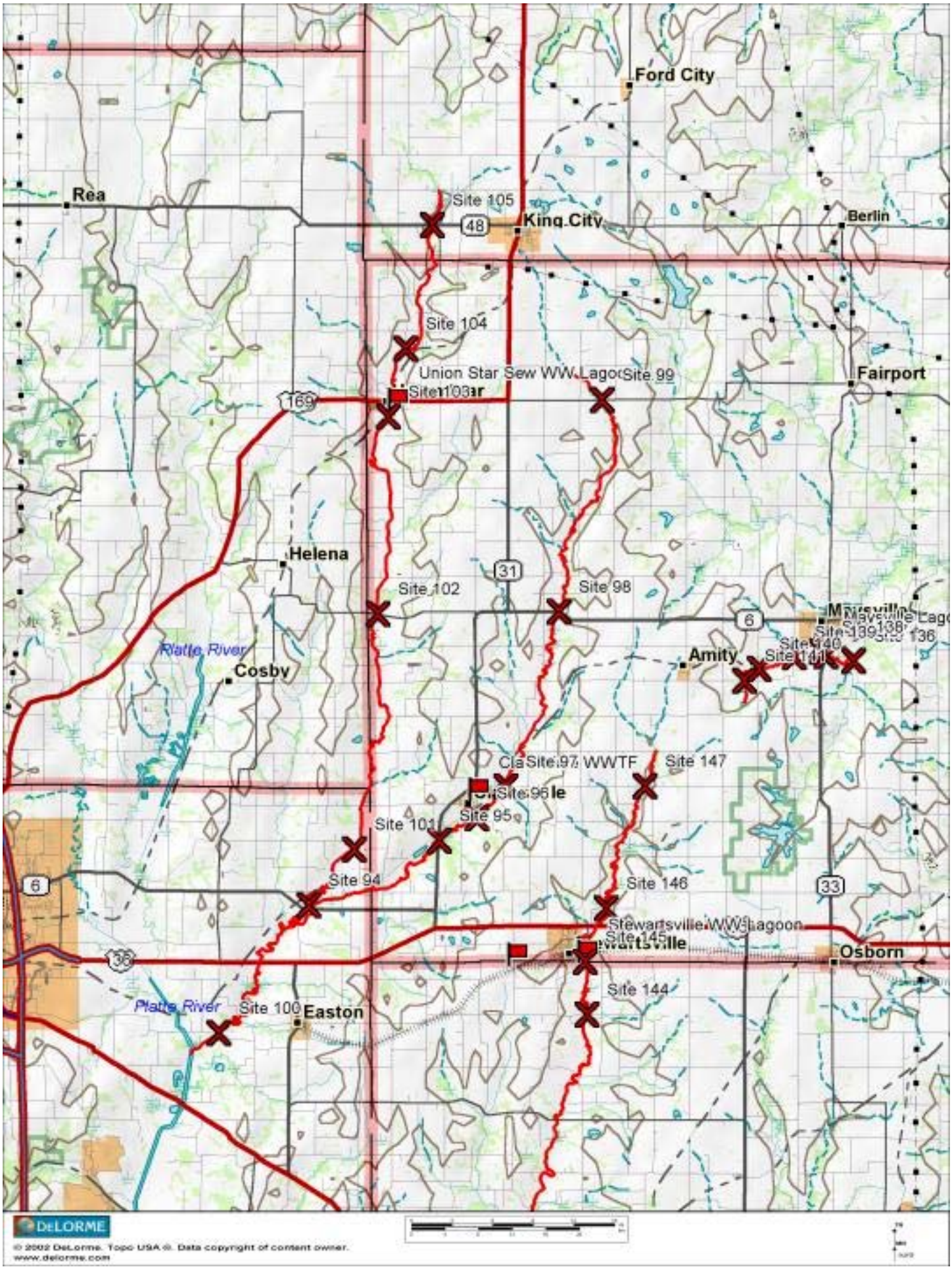
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: (from USGS 7.5' quad)	THIRD FORK PLATTE RIVER (100-105)
8-digit HUC:	10240012
Missouri WBID #:	0327
County:	CLINTON
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)	40.05375 -094.56980
Downstream Coordinates: (UGS 84, ddd.ddddd)	39.71814 -094.68419
Discharger Facility Name(s):	UNION STAR SEW WW LAGOON
Discharger Permit Number(s):	MO-0096202
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	ADAM RETTIG, 410-356-8993
Organization:	TETRA TECH INC.
Position:	

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

Signed: Adam Rettig **Date:** 3/29/05


Ford City
Rea
Site 105
48
King City
Berlin
Site 104
Union Star Sew WW Lagoon
Site 99
Fairport
169
Helena
31
Site 102
Site 98
6
Platte River
Cosby
Amity
Site 97 WWTF
Site 147
Site 96
Site 95
Site 101
Site 94
Site 146
33
Stewartsville WW Lagoon
Osborn
36
Site 144
Platte River
Site 100
Easton
DeLORME
© 2002 DeLorme. Topo USA ®. Data copyright of content owner.
www.delorme.com

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

(Acc. 36ft.)

Missouri WBID #: 100	Site Location Description:
Site GPS Coordinates: 39.71814/-094.68419	@ DOUBLE BRIDGE ON SE KEMMER RD.
Date & Time: 3-16-05/4:30pm	Facility Name: ~~[illegible]~~ WWTP UNION STAR WW LAGOON
Personnel: AVR; AMG	Permit Number:
Current Weather Conditions: Sunny; 50's	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 99 or 1633 C	Downstream: 98 or 1632 C, Other: 97 or 163K, FIRE PIT

Uses Observed*:

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

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

- Fishing line hanging from bridge.
- FOOT PRINTS AND FIRE PIT ON BANK
-

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:	

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: Loitering				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Ann Marie Goetze 3-16-05

AR

Page Two – Data Sheet B for WBID # 100 :

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 12 m	Length (ft): 20m	Avg. Depth (ft): 1.5m est.	Max. Depth (ft): >1.7m est.
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AMC 0.01 m/s est.	

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 22m	Length (ft): 20m	Avg. Depth (ft): 2m	Max. Depth (ft): >2.5m est.
☒ Flow	Present? ☒ Yes ☐ No NA AMC		Estimated (~~ft³/sec~~): AMC 0.01 m/s est.	

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

10 % Cobble	% Gravel	30 % Sand	% Silt	60 % Mud/Clay	% Bedrock

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

NA

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:

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: Adam Netts **Date:** 3/16/05

Organization: TE-BLS Position: SCI. I.

A. Marie Goetzl 3-16-05

MISSOURI RECREATIONAL USE STREAM SURVEY FIELD AUDIT CHECKLIST

Evaluation Date: 03-17-05		
Audit Team Member(s):		
Name	**Organization**	**Phone**
CHAD BARBOUR	TETRA TECH INC.	410 356-8993
JEREMY RUSSELL	TETRA TECH EMI	
Site ID: 101	Stream Name:	
Field Team Members		
1 ADAM RETTIG	3	5
2 ANN MARIE GOETZE	4	6
Other Observers Present During Evaluation:		
Name	**Organization**	**Phone**

AUDIT CHECKLIST

GPS used to obtain fix at or near site?	(Y)	N	N/A
GPS data recorded on field form?	(Y)	N	N/A
Photographs of site taken (if appropriate)?	(Y)	N	N/A
Placard with site ID printed on it is the first photograph?	(Y)	N	N/A
Picture file number recorded on Field Form?	(Y)	N	N/A
Mean channel width at X-site determined based on measurement?	(Y)	N	N/A
Area around site inspected for evidence of primary contact recreational and other human uses?	(Y)	N	N/A
Pictures of evidence of uses taken?	(Y)	N	N/A
Picture file number recorded on field forms?	(Y)	N	N/A
Measured upstream channel width at representative transect?	(Y)	N	N/A
Measured downstream channel width at representative transect?	(Y)	N	N/A
Measured average depth in upstream portion of the site?	(Y)	N	N/A
Measured maximum depth in downstream portion of the site?	(Y)	N	N/A
Was a reasonable effort made to locate deepest point at each site?	(Y)	N	N/A
Velocity measured in the upstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	(Y)	N	N/A
Velocity measured in the downstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	(Y)	N	N/A
Does auditors assessment of substrate types and proportions at the site agree with that of the field team?	(Y)	N	N/A
Were interviews conducted with available residents?	Y	N	(N/A)
Are the field sheets filled out completely and signed at the end of the site assessment?	(Y)	N	N/A
Did the field team QC officer inspect the field forms for completion prior to leaving the site?	(Y)	N	N/A
Overall, were the field sampling protocols followed correctly?	(Y)	N	N/A

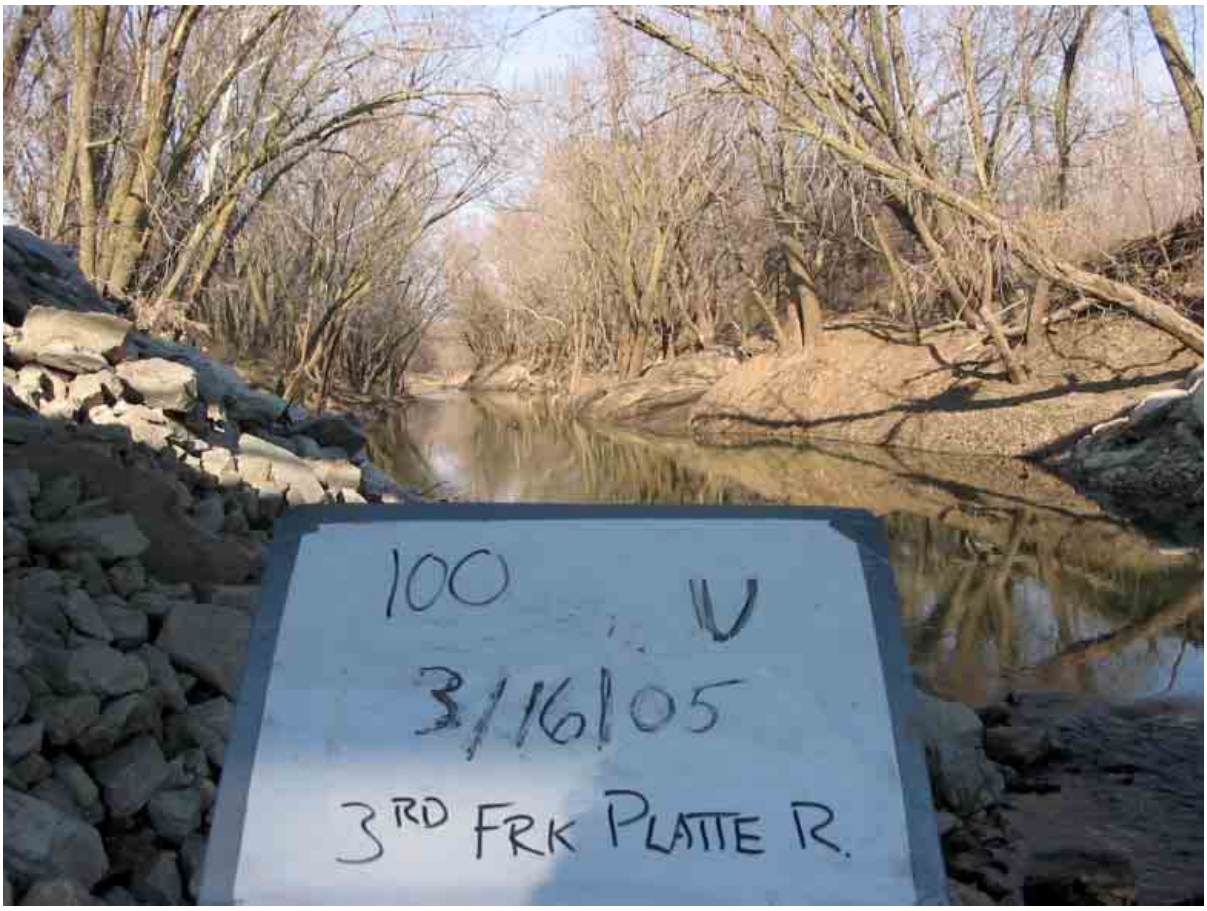
SIGNATURES

[signature] 03-17-05

Evaluator Date

[signature] 3/17/05

Team Representative Date


100 U
3/16/05
3RD FRK PLATTE R.

100 D
3/16/05
3RD FRK PLATTE R.

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

Missouri WBID #: 101	Site Location Description: @ BRIDGE W/ICE (P) CROSSES
Site GPS Coordinates: 37.81254 / -094.60736	
Date & Time: 3-17-05 / 8:00am	Facility Name: UNION STAR SEWAGE LAGOON
Personnel: AVK, AMG	Permit Number:
Current Weather Conditions: Sunny, windy, 40's	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1637 1636 1640 1640DC	Downstream: 1637 1641 1641C / Other:

Uses Observed*:

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

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

~~Assumed activities based on conditions & location~~ AR

* DEAD DOG UNDER BRIDGE.

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: DEAD ANIMALS	

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:				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

DC: A Marie Hulter 3-16-05 AMG

3-17-05

AR

Page Two – Data Sheet B for WBID # 101 :

Yes 3m
Yes 3m
Yes 3m

Stream Morphology:

Upstream View Physical Dimensions: .15, .1, .1, .15, .18

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
☒ Run	Width (ft): 7m	Length (ft): 20m	Avg. Depth (ft): 0.14m	Max. Depth (ft): 0.28m	
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Amt	0.5 m/s	

Downstream View Physical Dimensions: .2, .1, .05, .1, .1, .15

12s 12s 3m 3m 3m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
☒ Run	Width (ft): 10.5m	Length (ft): 20m	Avg. Depth (ft): 0.12m	Max. Depth (ft): 0.22m	
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Amt	0.26 m/s	

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

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
20	90				

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

None

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: ~~Amt~~

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: Adam Matty **Date:** 3/17/05

Organization: TE-BLT Position: SCI

Ann Marie Matter 3-17-05

AR

101 U
3/17/05
3RD FRK PLATTE R.

101 D
3/17/05
3RD FRK PLATTE R.

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

(Acc. 26ft)

Missouri WBID #: 102	Site Location Description: @ BRIDGE ON V.
Site GPS Coordinates: 39.89209/-094.59898	
Date & Time: 3-17-05 / 9:15am	Facility Name: UNION STAR INN LAGOON
Personnel: AVK, AML	Permit Number:
Current Weather Conditions: Sunny, 40J	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 111 or 1645C Downstream: 110 or 1644C	Other: 112 or 1646C = TRAP FOUND 1646C

Uses Observed*:

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

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

~~Assumed activities based on location & conditions.~~ AR

~~However~~, trap was found. (See photo).

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:	

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:				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

[signature] 3-17-05

AR

Page Two – Data Sheet B for WBID # 102 **:**

1m 8s
1m 8s
1m 9s

Stream Morphology:

Upstream View Physical Dimensions: .45, .4, .3, .2, .1

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 10 m	Length (ft): 20m	Avg. Depth (ft): 0.29m	Max. Depth (ft): 0.5m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~: AMG 0.12m/s	

Downstream View Physical Dimensions: .1, .25, .25, .3, .25, .2 1m 1m 12s 11s 1m 12s

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 11m	Length (ft): 20m	Avg. Depth (ft): 0.23m	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~: AMG 0.09m/s	

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

% Cobble	% Gravel	20 % Sand	% Silt	80 % Mud/Clay	% Bedrock

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

None

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:

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: [signature] **Date:** 3/17/05

Organization: Tt. Dr **Position:** Sci. 2.

[signature] 3-17-05

AR

102 U
3/17/05
3RD FRK PLATTE R.

102 D
3/17/05
3RD FRK PLATTE R.

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

(Ad 2 of)

Missouri WBID #: 103	Site Location Description: @ BRIDGE ON 163 NEAR UNION STAR
Site GPS Coordinates: 39.98084/-094.59071	
Date & Time: 3-17-05/	Facility Name: UNION STAR WWLAGOON
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: SUNNY; WINDY	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 114 or 1648C Downstream: 113 or 1647C	Other: 116 OR 1650C = BANK POLE FOR FISHING

Uses Observed*: 1651C ~~1652C~~ AVR 115 SAME 117 = POSTED SIGN

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

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

BANK POLE FOUND ON BANKS = CURRENT FISHING ACTIVITIES

ALL OTHER ACTIVITIES ASSUMED BASED ON LOCATION + COND.

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:	

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:				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

[signature] 3-17-05

AR

Page Two – Data Sheet B for WBID # 103 :

Stream Morphology:

Upstream View Physical Dimensions: .1, .2, .35, .35, .2, .2

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft): ~~10m~~ Amb	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 10m	Length (ft): 20m	Avg. Depth (ft): 0.23m	Max. Depth (ft): 0.35m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): NA - Too Slow	

Downstream View Physical Dimensions: .1, .4, .6, .3, .3

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 12m	Length (ft): 20m	Avg. Depth (ft): 0.34m	Max. Depth (ft): 0.7m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): NA - Too Slow ≈ 0.01m/s	

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

% Cobble	% Gravel	40 % Sand	% Silt	60 % Mud/Clay	% Bedrock

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

None

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:

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: [signature] **Date:** 3/17/05

Organization: TE - Det Position: Sec. I

[signature] 3-17-05

103 U
3/17/05
3RD FRK PLATTE R.

103 D
3/17/05
3RD FRK PLATTE R.

POSTED
NO TRESPASSING
NO DUMPING
ORDER OF CITY OF
UNION STAR

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 104		Site Location Description: @ BRIDGE ABOVE NW PEASOT RD CROSSED	
Site GPS Coordinates: 40.009816/-094.57549			
Date & Time: 3-17-05/10:20am		Facility Name: UNION STAR NW LAGOON	
Personnel: AVR, AMC		Permit Number:	
Current Weather Conditions: SUNNY, WARM, 40S		Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 120 on 1654C	Downstream: 119 & 1653C	Other: 118 on 1652 = SKINNED CARCASES 1652C	

Uses Observed*:

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

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

~~Assumed activities based on location & conditions~~ AR

TRAPPING = APPEARANCE OF SKINNED CARCASES WAS UNDER BRIDGE

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:	

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: DEAD ANIMALS				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

3-17-05

AR

Page Two – Data Sheet B for WBID # 104 **:**

Stream Morphology:

Upstream View Physical Dimensions: .5, .5, .1, .4, .15

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 5m	Length (ft): 20m	Avg. Depth (ft): 0.33m	Max. Depth (ft): 0.5m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft³/sec): NA Too Slow	

Downstream View Physical Dimensions: .1, .2, .25, .15, .05 1m 1m 4s 1m 5s 6s

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 4m	Length (ft): 20m	Avg. Depth (ft): 0.15m	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Same 0.2 m/s	

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

20 % Cobble	% Gravel	% Sand	% Silt	80 % Mud/Clay	% Bedrock

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

~~None~~ Same Some green algae

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:

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: [signature] **Date:** 3/17/05

Organization: FE - DEP Position: JCI. I.

[signature] 3-17-05

104 U
3/17/05
3RD FRK PLATTE R. -

104 D
3/17/05
3RD FRK PLATTE R. -

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 105	Site Location Description: @ BRIDGE WHERE 48 CROSSES, W OF KEYS CITY
Site GPS Coordinates: 40.05375/-094.56980 (ACC. 53FT.)	
Date & Time: 3-17-05/	Facility Name: UNION STAR WMA LAKE
Personnel: AVR, AME	Permit Number:
Current Weather Conditions: SUNNY, WINDY	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 124 OR 1655C / Downstream: 122 OR 1656C	Other: 124 OR 1655C - HERD AND UPSTREAM VIEW. 123 OR 1657C ALGAE

Uses Observed*:

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

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

ASSUMED ACTIVITIES BASED ON CONDITIONS AND LOCATION.

+ LAND OWNER (HERB) SAID GRAND KIDS COME OUT AND PLAY IN H2O.

ALGAE ON ROCKS; LANDOWNER OWNED FARM ON N SIDE OF 48.

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:	

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: MEN WORKING W/ LARGE EQUIPMENT.				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

QC: Anne Marie Hahn 3-17-05

AR

Page Two – Data Sheet B for WBID # 105 :

Stream Morphology:

Upstream View Physical Dimensions: .1, .2, .2, .2, .2

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 7m	Length (ft): 20m	Avg. Depth (ft): 0.18m	Max. Depth (ft): 0.3m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft³/sec): Too slow to measure	

Downstream View Physical Dimensions: .1, .2, .19, .05, .03 1m 1m 1m 5s, 4s, 7s

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 2.5m	Length (ft): 20m	Avg. Depth (ft): 0.11m	Max. Depth (ft): 0.2m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Amt 0.19 m/s	

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

100 % Cobble	% Gravel	% Sand	% Silt	40 % Mud/Clay	% Bedrock

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

Grass and algae.

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:

Comments: Please attach additional comments (including information from interviews) to this form.

*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 effect another use.

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

Signed: [signature] **Date:** 3/17/05

Organization: Tt - BLT Position: Sci. I

[signature] 3-17-05

AR

105 D
3/17/05
3RD FRK PLATTE R.