

Use Attainability Analysis

for

WBID 1719 Joachim Creek (P)

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Date Received: October 31, 2006

Field Data Sheets for Recreational Use Stream Surveys

RECEIVED

OCT 9 7 2006

Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

Water Body Name (from USGS 7.5' quad): Joachim Creek
8-digit HUC: 07140101
Missouri WBID #: 1719
County: Jefferson County
Upstream Legal Description: T39N R5E Sec. 31 NE 1/4 NW 1/4
Downstream Legal Description: T41N R6E Sec. 29 NE 1/4 NE 1/4
Upstream Coordinates: UTM: Easting - 0718147 Northing - 4215041
Downstream Coordinates: UTM Easting - 0730174 Northing - 4237982
Discharger Facility Name(s): n/a
Discharger Permit Number(s): n/a
Number of Sites Evaluated: Sites 1 - 3
Name of Surveyor and Telephone Number: Joe Twellman (314)-416-2960
Organization: MDNR/FSD/SLRO
Position: Environmental Specialist

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

Signed:  Date: 10/13/06

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 1	Site Location Description: NW 1/4 NE 1/4 SEC 31 T39N R5E		
Site GPS Coordinates: UTM Easting - 0718147 UTM Northing - 4215041 → 38.056845 - 90.513603			
Date & Time: 10:00 10/5/06	Facility Name: N/A Hwy V i Papin Rd		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 1	Downstream: WBD 1719 Site 1a	Other:	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				
NONE				

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Beer Can	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> 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.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: 1719 Site 1

Stream Morphology: *At start of WBID 1719*
Downstream View Physical Dimensions:

Riffle	Width (ft): 13	Length (ft): 6	Avg. Depth (ft): .25	Max. Depth (ft): .27
Run	Width (ft): 43	Length (ft): 76	Avg. Depth (ft): .7	Max. Depth (ft): 1.4
Pool	Width (ft): 24	Length (ft): 30	Avg. Depth (ft): .8	Max. Depth (ft): 1.7
Flow Present?	XXX Yes	No	Estimated (ft ³ /sec): N/A	

View Physical Dimensions:

X Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
X Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
X Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow Present?	<u>Yes</u>	No	Estimated (ft ³ /sec): N/A	

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

7 % Cobble	8 % Gravel	5 % Sand	5 % Silt	0 % Mud/Clay	75 % Bedrock
------------	------------	----------	----------	--------------	--------------

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

20% vegetation <i>on substrate</i>

Water Characteristics*: (Mark all that apply.)

Odor:	Sewage	Musky	Chemical	<u>None XXX</u>	Other:
Color:	<u>Clear XXX</u>	Green	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	<u>Fine sediments XXX</u>	None	Other:
Surface Deposit:	Oil	Scum	Foam	<u>None XXX</u>	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: *MTA* Date: 10/13/06

Organization: MDNR/FSD/SLRO

Position: Environmental Specialist

WBID 1719 -01 - Downstream



WBID 1719 -01 - Upstream



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 2	Site Location Description: NW 1/4 NW 1/4 SEC 30 T39N R5E		
Site GPS Coordinates: UTM Easting - 0716675 UTM Northing - 4217042 → 38.075217 -90.529760			
Date & Time: 10:45 10/5/06	Facility Name: N/A Hwy V; Saddle Creek Rd		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 2	Downstream: WBD1719 Site 2	Other: WBE1719 Site 2a	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				
NONE				

Surrounding Conditions*:

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: None	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Water crossing : Upstream Dredging (Pictures WBE1719 Site 2a & 2b)				

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.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: 1719 Site 2

Stream Morphology:

Upstream View Physical Dimensions:

Riffle	Width (ft):	23	Length (ft):	80	Avg. Depth (ft):	.2	Max. Depth (ft):	.25
Run	Width (ft):	13	Length (ft):	8	Avg. Depth (ft):	.25	Max. Depth (ft):	.33
Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Flow	Present?	XXX Yes	No		Estimated (ft ³ /sec):	N/A		

Downstream View Physical Dimensions:

Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Run	Width (ft):	57	Length (ft):	30	Avg. Depth (ft):	.2	Max. Depth (ft):	.25
Pool	Width (ft):	32	Length (ft):	37	Avg. Depth (ft):	.5	Max. Depth (ft):	.55
Flow	Present?	XXX Yes	No		Estimated (ft ³ /sec):	N/A		

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

10% Cobble	5 % Gravel	0 % Sand	5 % Silt	0 % Mud/Clay	80 % Bedrock
------------	------------	----------	----------	--------------	--------------

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

10%

Water Characteristics*: (Mark all that apply.)

Odor:	Sewage	Musky	Chemical	None XXX	Other:
Color:	Clear XXX	Green	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	Fine sediments XXX	None	Other:
Surface Deposit:	Oil	Scum	Foam	None XXX	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: Date: 10/13/06

Organization: MDNR/FSD/SLRO

Position: Environmental Specialist

WBID 1719 -02 - Downstream



WBID 1719 -02 - Upstream



Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 3	Site Location Description: NW 1/4 NE 1/4 SEC24 T39N R4E		
Site GPS Coordinates: UTM Easting - 0716460 UTM Northing - 4217834 → 38.082399 -90.531969			
Date & Time: 11:30 10/5/06	Facility Name: N/A <i>Harbin Rd bridge Crossing</i>		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 3	Downstream: WBD1719 Site 3b	Other:	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

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

NONE

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Roadside Cattle	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> 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.

WBID 1719 -03 - Downstream



WBID 1719 -03 - Upstream

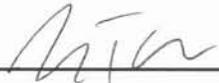


Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad): Joachim Creek
8-digit HUC: 07140101
Missouri WBID #: 1719
County: Jefferson County
Upstream Legal Description: T39N R5E Sec. 31 NE 1/4 NW 1/4
Downstream Legal Description: T41N R6E Sec. 29 NE 1/4 NE 1/4
Upstream Coordinates: UTM: Easting - 0718147 Northing - 4215041
Downstream Coordinates: UTM Easting - 0730174 Northing - 4237982
Discharger Facility Name(s): n/a
Discharger Permit Number(s): n/a
Number of Sites Evaluated: Sites 4 - 6
Name of Surveyor and Telephone Number: Joe Twellman (314)-416-2960
Organization: MDNR/FSD/SLRO
Position: Environmental Specialist

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

Signed:  Date: 10/13/06

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 4	Site Location Description: SE 1/4 SE 1/4 SEC 3 T39N R4E		
Site GPS Coordinates: UTM Easting - 0713900 UTM Northing - 4222340 → 38.123583 -90.559783			
Date & Time: 12:00 10/5/06	Facility Name: N/A Walther Park		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 4	Downstream: WBD1719 Site 4	Other: WBE1719 Site 4	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				
NONE				

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

<input checked="" type="checkbox"/> City/county parks	<input checked="" type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input checked="" type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Park	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input checked="" type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input checked="" type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Playground, Pavilion, Baseball Field, Port-a-potty				

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.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: 1719 Site 4

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): 60	Length (ft): 250	Avg. Depth (ft): 4	Max. Depth (ft): 5.5
Flow	Present?	XXX Yes	No	Estimated (ft ³ /sec): N/A

Downstream View Physical Dimensions: (Upstream and Downstream Pool were same pool)

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): 60	Length (ft): 150	Avg. Depth (ft): 4	Max. Depth (ft): 5.5
Flow	Present?	XXX Yes	No	Estimated (ft ³ /sec): N/A

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

10% Cobble	10 % Gravel	2.5 % Sand	2.5 % Silt	0 % Mud/Clay	75 % Bedrock
------------	-------------	------------	------------	--------------	--------------

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

Yes 10% filamentous algae on surface, 30% algae on substrate, 2% aquatic plants

Water Characteristics*: (Mark all that apply.)

Odor:	Sewage	Musky	Chemical	None XXX	Other:
Color:	Clear	Green XXX	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	Fine sediments XXX	None	Other: Algae
Surface Deposit:	Oil	Scum	Foam	None XXX	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: NTW Date: 10/13/06

Organization: MDNR/FSD/SLRO

Position: Environmental Specialist

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 5	Site Location Description: SE 1/4 SW 1/4 SEC 25 T39N R4E		
Site GPS Coordinates: UTM Easting - 0714534 UTM Northing - 4223606 → 38.134832 - 90.552176			
Date & Time: 14:00 10/5/06	Facility Name: N/A Kelley St bridge @ depot		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 5	Downstream: WBD1719 Site 5	Other:	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

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

NONE

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: NONE	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input checked="" type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input checked="" type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Diaper, Bed				

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.

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID #: 1719 Site 5

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): 85	Length (ft): 120	Avg. Depth (ft): 6	Max. Depth (ft): 8
Flow	Present?	XXX Yes	No	Estimated (ft ³ /sec): N/A

Downstream View Physical Dimensions: (Upstream and Downstream Pool were same pool)

Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft): 86	Length (ft): 31	Avg. Depth (ft): 1	Max. Depth (ft): 1.5
Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	XXX Yes	No	Estimated (ft ³ /sec): N/A

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

10% Cobble	5 % Gravel	2.5 % Sand	2.5 % Silt	0 % Mud/Clay	80 % Bedrock
------------	------------	------------	------------	--------------	--------------

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

Yes 30% algae on substrate

Water Characteristics*: (Mark all that apply.)

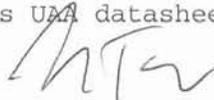
Odor:	Sewage	Musky	Chemical	None XXX	Other:
Color:	Clear	Green XXX	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	Fine sediments XXX	None	Other: Algae
Surface Deposit:	Oil XXX	Scum	Foam	None	Other:

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:



Date: 10/13/06

Organization: MDNR/FSD/SLRO

Position: Environmental Specialist

Field Data Sheet for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri WBID #: 1719 Site 6	Site Location Description: SW 1/4 NE 1/4 SEC 35 T40N R4E		
Site GPS Coordinates: UTM Easting - 0715128 UTM Northing - 4226508 → 38.160822 -90.544528			
Date & Time: 15:15 10/5/06	Facility Name: N/A DeSoto WWTF		
Personnel: Bean, Hessel, Onion, & Twellman	Permit Number: N/A		
Current Weather Conditions: Cloudy	Weather Conditions for Past 7 days: Dry		
Photo Ids: Upstream: WBU1719 Site 6	Downstream: WBD1719 Site 6	Other:	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				
Outfall for DeSoto Treatment Plant				

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Treatment Plant	

Evidence of Human Use*:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input checked="" type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Treatment Plant				

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.

WBID 1719 -04 -



WBID 1719 -05 - Downstream



WBID 1719 -05 - Upstream



WBID 1719 -06 - Downstream



WBID 1719 -06 - Upstream



WBID 1719 -07 - Downstream



WBID 1719 -07 - Upstream



WBID 1719 -08 - Downstream



WBID 1719 -08 - Upstream



WBID 1719 -09 - Downstream



WBID 1719 -09 - Upstream



WBID 1719 -10 - Downstream



WBID 1719 -10 - Upstream



WBID 1719 -11 - Downstream



WBID 1719 -11 - Upstream



WBID 1719 -12 - Downstream



WBID 1719 -12 - Upstream



WBID 1719 -13- Downstream



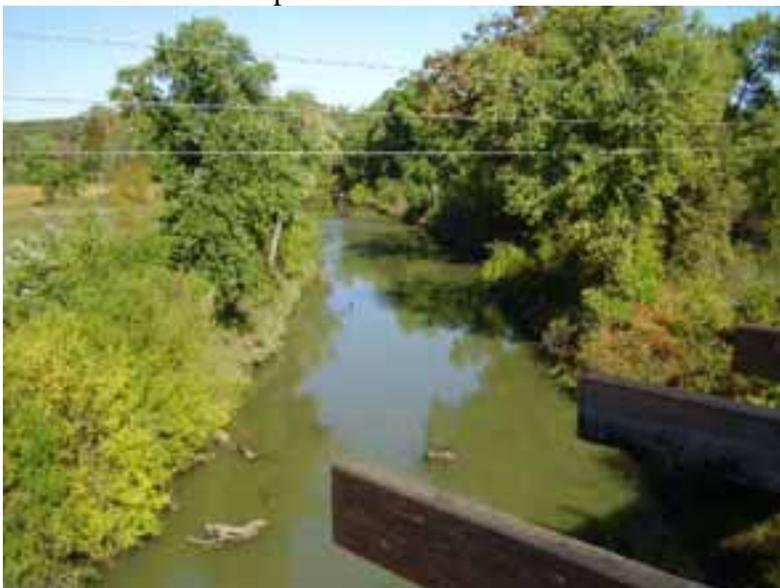
WBID 1719 -13 - Upstream



WBID 1719 -14 - Downstream



WBID 1719 -14 - Upstream



WBID 1719 -15 - Downstream



WBID 1719 -15 - Upstream



WBID 1719 -16 - Downstream



WBID 1719 -16- Upstream



WBID 1719 -17 - Downstream



WBID 1719 -17 - Upstream



WBID 1719 -18 - Downstream



WBID 1719 -18 - Upstream

