Use Attainability Analysis

for

WBID 0505 Wamsley Creek

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)	WAMSLEY CREEK: 130-135
8-digit HUC:	10280101
Missouri WBID #:	0505
County:	NODAWAY
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)	39.82513 -094.23454 Acc: 24 ft.
Downstream Coordinates: (UGS 84, ddd.ddddd)	39.81889 -094.27105 Acc: 24 ft.
Discharger Facility Name(s):	ROCKWOOD CREEK MH VILLAGE
Discharger Permit Number(s):	MO-0123960
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	CHAD BARDOUN; 410-356-8993
Organization:	TETRA TECH INC.
Position:	ASSOCIATE SCIENTIST

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:** 03-29-05

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 #: 130	Site Location Description: HALF MILE DOWN UNNAMED ROAD OFF OF ~~SMITH~~ CED RD. IRWIN
Site GPS Coordinates: N 39.81839 W094.27105 Acc: 24.3 Ft	
Date & Time: 03-16-05 ; 1810	Facility Name: ROCKWOOD CREEK, MH VILLAGE
Personnel: CHAD BARBOUR, JEDANY ROBEEN	Permit Number:
Current Weather Conditions: 45°F, SUNNY	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1594B	Downstream: 1595B	Other:

Uses Observed*:

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

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, FOREST	

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.

JTR - 03-16-05

Page Two – Data Sheet B for WBID # 130 **:**

Stream Morphology:

Upstream View Physical Dimensions: 0.13, 0.21, 0.22, 0.22, 0.23m

☐ 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): 7.0m	Length (ft): 20m	Avg. Depth (ft): 0.20m	Max. Depth (ft): 0.23m
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions: 0.13, 0.30, 0.20, 0.21, 0.20m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft): 7.3m	Length (ft): 20m	Avg. Depth (ft): 0.21m	Max. Depth (ft): 0.30m
☑ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

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

% Cobble	% Gravel	90 % Sand	% Silt	10 % 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.

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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:** 03-16-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JTR- 03-16-05

CO

130
WAMSLEY CR.
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WAMSLEY CR.
D

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 #: 131		Site Location Description: STREAM CROSSING AT IRWIN RD.
Site GPS Coordinates: N39.81992 W094.26203 Acc: 20.5 ft		
Date & Time: 03-16-05 : 1800		Facility Name: ROCKWOOD CREEK MH VILLAGE
Personnel: CHAD BARBOUR, JEREMY MOBEEN		Permit Number:
Current Weather Conditions: 43°F, CLEAR		Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1597 D	Downstream: 1596 D	Other:

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.).

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	

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)

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JTR-03-16-05

Page Two – Data Sheet B for WBID # 131 **:**

Stream Morphology:

Upstream View Physical Dimensions: 0.20, 0.30, 0.40, 0.40, 0.30 m

☐ 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): 4.8 m	Length (ft): 20 m	Avg. Depth (ft): 0.32 m	Max. Depth (ft): 0.40 m
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions: 0.04, 0.10, 0.21, 0.14, 0.03 m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 3.6 m	Length (ft): 30 m	Avg. Depth (ft): 0.10 m	Max. Depth (ft): 0.21 m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=17s; 4m=18s; 4m=16s	

Flow = 0.24 m/s

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

% Cobble	5	% Gravel	10	% Sand	% Silt	5	% 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.

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Signed: [signature] **Date:** 03-16-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

131
WAMSLEY CR.
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WAMSLEY CR.
D

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 #: 132-RELOCATED		Site Location Description: *-SITE RELOCATED; COULD NOT ACCESS; PRIVATE PROPERTY COULD NOT LOCATE LANDOWNER
Site GPS Coordinates:		
Date & Time: 03-16-07 1655		Facility Name:
Personnel: CHAD BARBOUR, JEREMY ROBEEN		Permit Number:
Current Weather Conditions: 50° F, SUNNY		Weather Conditions for Past 7 days:
Photo Ids: Upstream:	Downstream:	Other:

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.)

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)

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CCO

Page Two – Data Sheet B for WBID #_____:

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):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Flow	Present? ☐ Yes ☐ No		Estimated (ft^3/sec):	

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):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Flow	Present? ☐ Yes ☐ No		Estimated (ft^3/sec):	

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

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

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

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.

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Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

STR - 03-16-05

CB

*-SITE RELOCATED DUE TO INACCESSIBILITY OF ORIGINAL SITE LOCATION.

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 #: 132-ALTERNATE SITE LOCATION		Site Location Description: 200M WEST OF SE HAMMS RD CROSSING.
Site GPS Coordinates: N39.81763 W094.24764 Acc. 20 Ft.		
Date & Time: 03-16-05, 1700		Facility Name: ROCKWOOD CREEK MH VILLAGE
Personnel: CHAD BARBOUR, JEMAMY RUBEN		Permit Number:
Current Weather Conditions: 50°F, SUNNY		Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1593 B	Downstream: 1592 B	Other:

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☑ Wading CD	☐ 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.)
SMALL WATERFALL AT LOCATION.

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, FOREST	

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)

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JTR-03-16-05

CD

Page Two – Data Sheet B for WBID # 132-ALTERNATE **:**

Stream Morphology:

Upstream View Physical Dimensions: 0.10, 0.10, 0.04, 0.10, 0.05m

☐ 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): 10.5m	Length (ft): 20m	Avg. Depth (ft): 0.08m	Max. Depth (ft): 0.10m
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions: 0.30, 0.24, 0.20, 0.20, 0.13m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 5m	Length (ft): 20m	Avg. Depth (ft): 0.21m	Max. Depth (ft): 0.30m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=35s; 4m=42s; ~~3~~ 4m=39s	

Flow= 0.10 m/s

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

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

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

ALGAE PRESENT ON BEDROCK

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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Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

03-16-05

CO

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WAMSLEY CR.
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WAMSLEY CR.
D

Page Two – Data Sheet B for WBID # 135 **:**

Stream Morphology:

Upstream View Physical Dimensions: 0.10, 0.20, 0.14, 0.10, 0.04 m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 2m	Length (ft): 20m	Avg. Depth (ft): 0.12m	Max. Depth (ft): 0.20m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=20s; 4m=25s; 4m=21s	

FLOW = 0.18 m/s

Downstream View Physical Dimensions: 0.13, 0.50, 0.40, 0.80, 0.30 m

☐ 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): 6.8m	Length (ft): 20m	Avg. Depth (ft): 0.43m	Max. Depth (ft): 0.80m
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

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

% Cobble	5	% Gravel	75	% Sand	% Silt	20	% 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: SAND
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

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

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Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JTR - 03-16-05

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 #: 133	Site Location Description: AT S.E. HARRIS RD. CROSSING
Site GPS Coordinates: N39.81806 W094.24480 Acc: 9.8 Ft.	
Date & Time: 03-16-05 1645	Facility Name: ROCKWOOD CREEK MH VILLAGE
Personnel: CHAD BARBOUR, JERAMY ROBEON	Permit Number:
Current Weather Conditions: 50°F, SUNNY	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1590 B / Downstream: 1591 B	Other:

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.)

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	

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)

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JTR 03-16-05

CB

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WAMSLEY CR.
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WAMSLEY CR.
D

*- SITE RELOCATED DUE INACCESSIBILITY OF ORIGINAL LOCATION. CCD

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 #: 134 - ALTERNATE SITE LOCATION		Site Location Description: 200M WEST OF SE HAMMJ RD CROSSING
Site GPS Coordinates: N39.81793 W094.24400 Acc:20.3ft		
Date & Time: 03-16-05, 1630		Facility Name: ROCKWOOD CREEK, MH VILLAGE
Personnel: CHAD BARBOUR, JEREMY ROBERN		Permit Number:
Current Weather Conditions: 50°F, SUNNY		Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1589 B	Downstream: 1583 B	Other:

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.)
VERY SHALLOW STREAM.

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	

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)

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JTR - 03-16-05

CCD

Page Two – Data Sheet B for WBID # 134 ALTERNATE SITE LOCATION.

Stream Morphology:

Upstream View Physical Dimensions: 0.1m, 0.1m, 0.02m, 0.02m, 0.02m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 3.2m	Length (ft): 20m	Avg. Depth (ft): 0.05m	Max. Depth (ft): 0.1m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=15s; 4m=14s; 4m=15s	

FLOW = 0.27 m/s

Downstream View Physical Dimensions: 0.03, 0.04, 0.10, 0.10, 0.06m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 3m	Length (ft): 20m	Avg. Depth (ft): 0.07m	Max. Depth (ft): 0.10m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=13s; 4m=15s; 4m=14s	

FLOW = 0.29 m/s

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

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	5	70		25	

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: SAND
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ Other:

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

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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:** 03-16-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JTR - 03 - 16 - 05

CJ

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 #: 134 - RELOCATED		Site Location Description: * SITE MOVED, COULD NOT ACCESS PRIVATE PROPERTY. LAND OWNER COULD NOT BE FOUND.
Site GPS Coordinates:		
Date & Time: 03-16-05: 1615		Facility Name: ROCKWOOD CREEK, MH VILLAGE
Personnel: CHAD BARBOUR, JEREMY ROBERN		Permit Number:
Current Weather Conditions: 50°F, SUNNY		Weather Conditions for Past 7 days:
Photo Ids: Upstream:	Downstream:	Other:

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.)

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.

JJR- 03-16-05

CW

Page Two – Data Sheet B for WBID # 134-RELOCATED

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):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Flow	Present? ☐ Yes ☐ No		Estimated (ft^3/sec):	

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):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Flow	Present? ☐ Yes ☐ No		Estimated (ft^3/sec):	

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

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

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

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.

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Signed: [signature] **Date:** 03-16-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JTR 03-16-05

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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 #: 135		Site Location Description: AT ROUTE EE CROSSING
Site GPS Coordinates: N 39.82513 W094.23454 Acc 29.5 ft		
Date & Time: 03-16-05, 1550		Facility Name: ROCKWOOD CREEK, MH VILLAGE
Personnel: CHAD BARBOUR, JEREMY ROGERS		Permit Number:
Current Weather Conditions: 48°F, SUNNY		Weather Conditions for Past 7 days:
Photo Ids: Upstream: 1586 B	Downstream: 1587 B	Other:

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.)
~~STREAM~~ DRY

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: AGRICULTURAL, RESIDENTIAL	

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)

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JTR - 03/16/05

CCD

Page Two – Data Sheet B for WBID # 135 **:**

Stream Morphology:

Upstream View Physical Dimensions: 0.12, 0.04, 0, 0.20m 0.20m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 7m	Length (ft): 20m	Avg. Depth (ft): 0.11m	Max. Depth (ft): 0.20m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=23s; 4m=26s; 4m=23s	

Flow = 0.16m/s

Downstream View Physical Dimensions: 0.1, 0.22, 0.20, 0.14, 0.12m

☐ 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): 3m	Length (ft): 20m	Avg. Depth (ft): 0.16m	Max. Depth (ft): 0.22m
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

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

5	% Cobble	15	% Gravel	70	% Sand	5	% Silt	% Mud/Clay	% Bedrock

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

ALGAE GROWING THROUGHOUT.

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.

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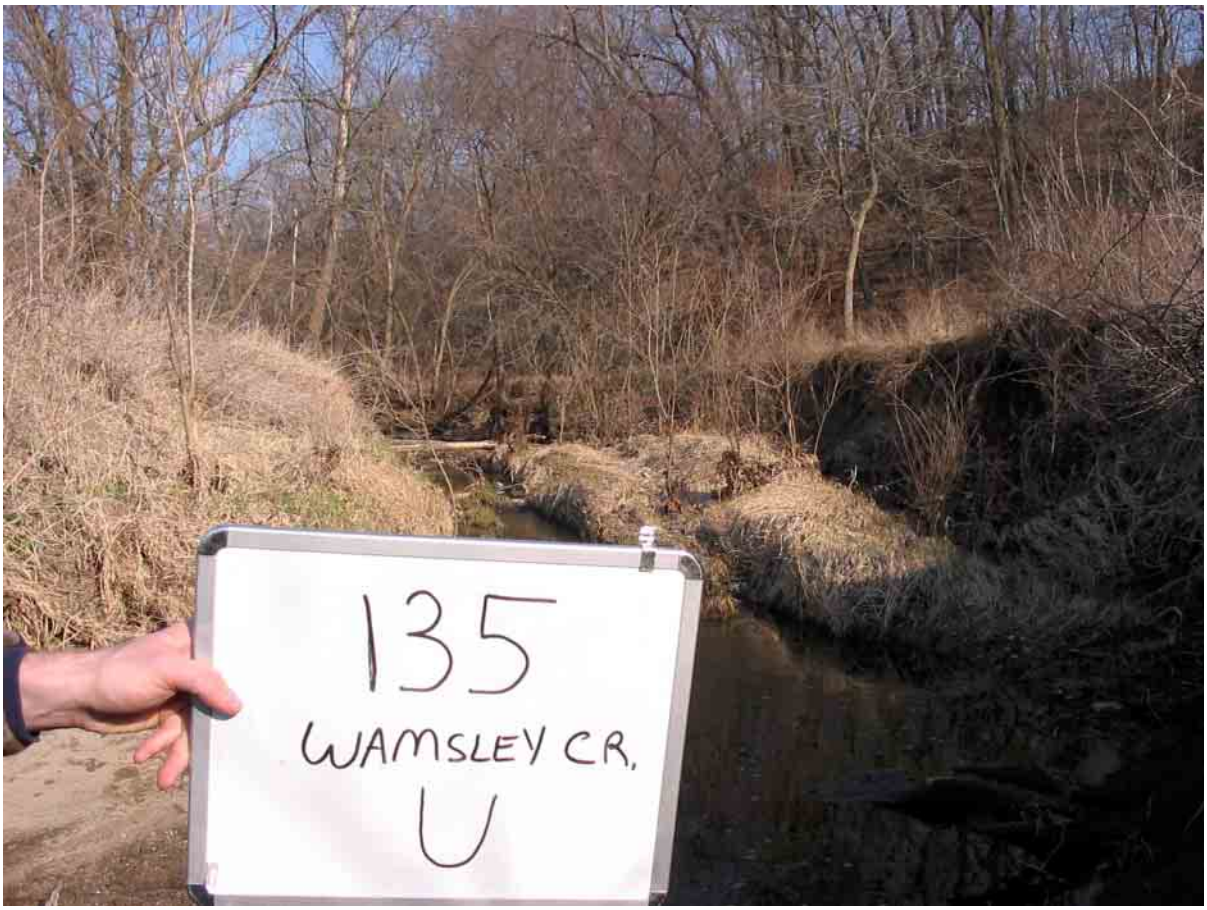
Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

TTR 03-16-05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