Use Attainability Analysis

for

WBID 0650 Upper Shoal Creek

Submitted by
Missouri Department of Natural Resources Staff

To
Missouri Department of Natural Resources
Water Protection Program

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JUL 12 2005
WATER PROTECTION PROGRAM

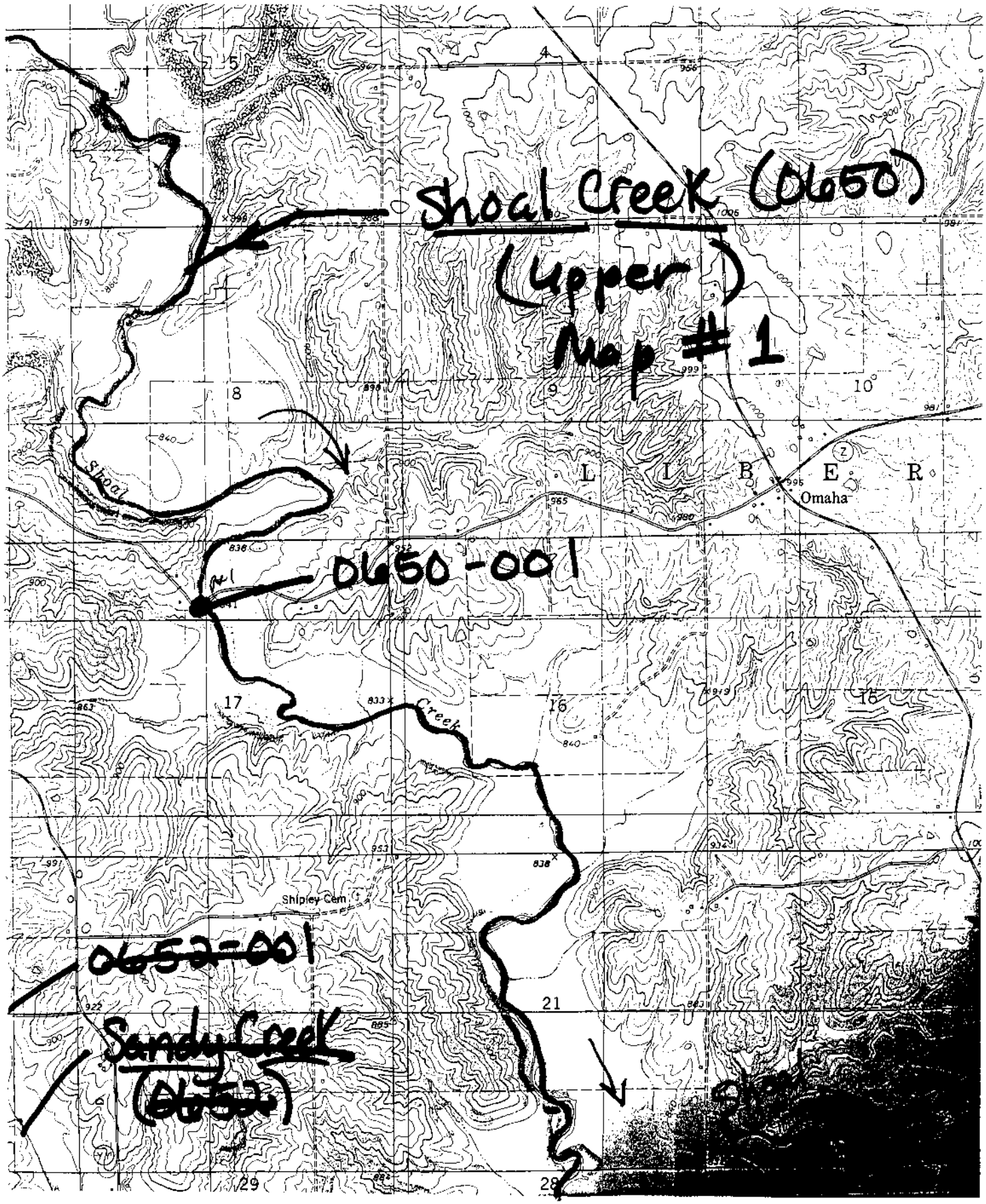
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

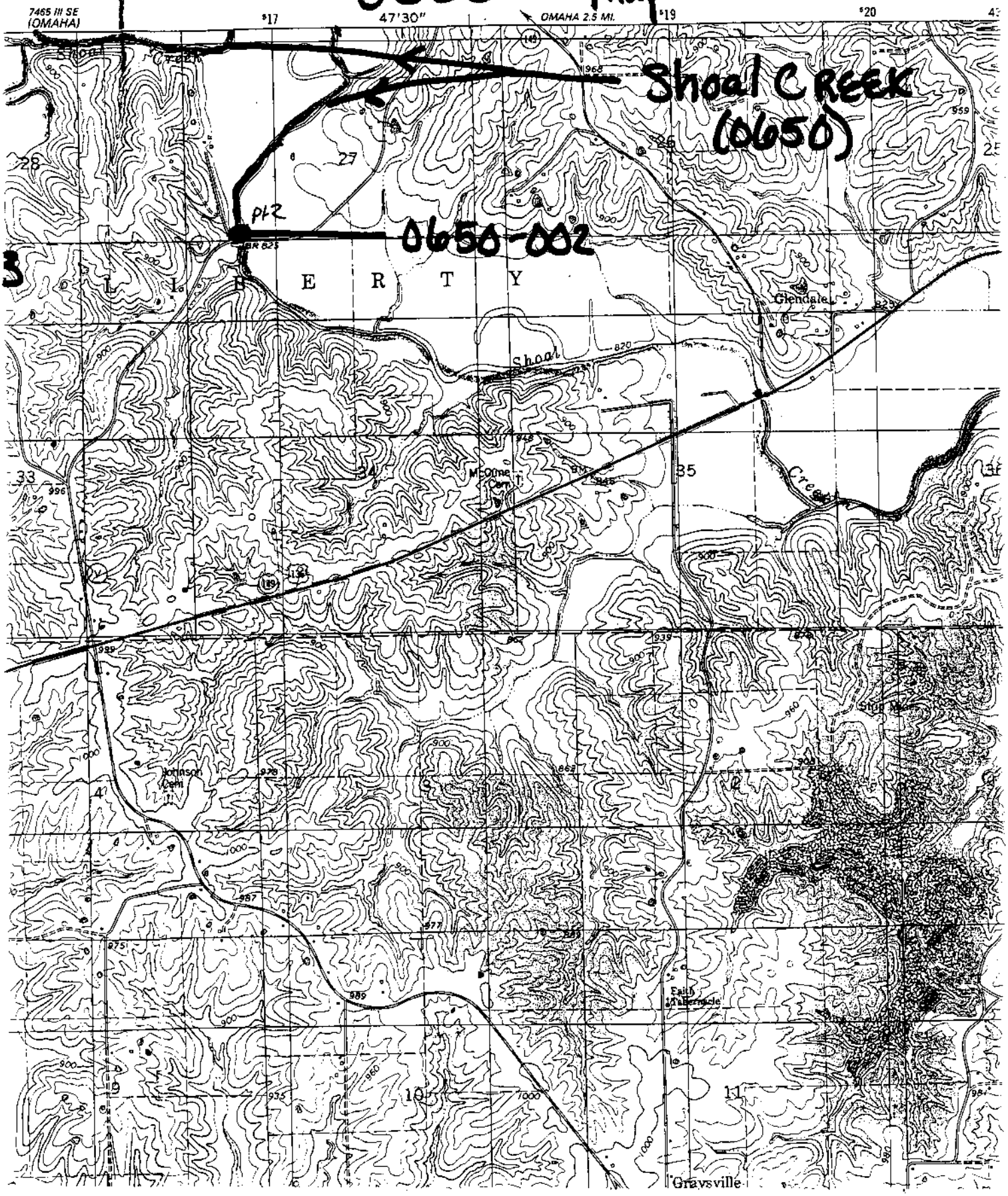
Water Body Name (from USGS 7.5' quad):	Shoal Creek (Upper)
8-digit HUC:	10280201
Missouri WBID #:	0650
County:	Putnam
Upstream Legal Description:	NW1/4, SW1/4, Sec. 5, T 66N, R 17W
Downstream Legal Description:	NE1/4, SW1/4, Sec. 27, T66N, R17W
Upstream Coordinates:	40.52779N / 92.83525 FOM 11.9 Feet
Downstream Coordinates:	40.49039N / 92.801528W FOM 13 ft
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	2 (2 up stream) (1 down stream) (3 total)
Name of Surveyor and Telephone Number:	Dave Dowdy 660-385-7996
Organization:	SWCP
Position:	Soil Scientist III

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

Signed: A. Marshaus **Date:** 7-7-05


Shoal Creek (0650)
(Upper)
Map # 1
0650-001
Shoal
Creek
L I B E R
Omaha
Shipley Cem
~~0653-001~~
~~Sandy Creek~~
~~(0653)~~

Shoal Cr. (upper)
0650 Map #2



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Dave Dowdy & Amber Marshaus

Missouri WBID #: 0650-1	Site Location Description: Shoal Creek (Upper)
Site GPS Coordinates: 40.52779N/92.83525W	
Date & Time: 7-6-01 @ 3:30P	Facility Name:
Personnel: DD, AM Hi=Mid 80's	Permit Number:
Current Weather Conditions: Hot, Humid, Pt. Cloudy	Weather Conditions for Past 7 days: Some Rain, Hot, Humid
Photo Ids: Upstream: 0650U1 / Downstream: 0650D1	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 (foot path)	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☒ Other: Somewhat ~~wooded~~ wooded around banks	

Evidence of Human Use*:

☒ Roads Bridge (gravel Rd in Omaha, MO)	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Firework trash / ~~possible~~				

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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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two – WBID # 0650: -01 Dm

Run #2
W: 50
L: 25
Average Depth: 3'
max Depth: 4'

Stream Morphology:

Upstream View Physical Dimensions:

☒ Riffle	Width (ft): 20	Length (ft): 30	Avg. Depth (ft): <0.1	Max. Depth (ft): 0.5
☒ Run	Width (ft): 35	Length (ft): 45	Avg. Depth (ft): 3.5	Max. Depth (ft): 4
☐ 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): 6	Length (ft): 18	Avg. Depth (ft): 1/2'	Max. Depth (ft): 1'
☒ Run	Width (ft): 35	Length (ft): 35	Avg. Depth (ft): 2	Max. Depth (ft): 4
☒ Pool	Width (ft): Na	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec):	

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

5 % Cobble	15 % Gravel	40 % Sand	40 % Silt	% Mud/Clay	% Bedrock

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

Hydric Vegetation, wooded w/ Aquatic trees (on bank)
5% algae in channel

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Clear to light Green
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: A. Marshall **Date:** 7-7-05

Organization: SWCP **Position:** SSI

0650_001_US

0650_001_DS

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Dave Dowdy & Amber Marshaus

Missouri WBID #: 0650 (last point)	Site Location Description: Shoal Creek (Upper)
Site GPS Coordinates: 40.49039N 92.8015W	
Date & Time: 7-6-05 @ 4:20p	Facility Name:
Personnel: DD, AM	Permit Number:
Current Weather Conditions: mid 80's clear humid	Weather Conditions for Past 7 days: some rain, hot humid
Photo Ids: Upstream 065042 / Downstream: 065042	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*: Hwy / State after maintenance

☒ Roads bridge	☐ 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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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two – WBID # 0650-02

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 35	Length (ft): 85	Avg. Depth (ft): 3	Max. Depth (ft): 4
☐ 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): 35	Length (ft): 150	Avg. Depth (ft): 1.5	Max. Depth (ft): 3
☐ 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
	5	60	35		

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

Hydric Plants & grasses & trees along banks
<1% algae in channel

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Clear to lt. green
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: A. Marshall **Date:** 7/7/05

Organization: SWCP Position: SSI

0650_002_US

0650_002_DS