



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0521 Panther Creek

Submitted by
BWR

to

Missouri Department of Natural Resources
Water Protection Program

Date received: July 11, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	PANTHER CREEK		
Missouri Water Body Identification (WBID) Number:	521		
8-digit HUC:	10280101	County:	CALDWELL
Upstream Legal Description (from Table H):	28,57N, 26W		
Downstream Legal Description (from Table H):	MOUTH		
Number of sites evaluated	3		
List all sites numbers, listed consequently upstream to downstream:	1, 2, 3		

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

II. Subsegmentation (fill this section out only in cases where subsegmentation is being proposed)

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Upstream Coordinates:		Downstream Coordinates:	
UTM X	Y	UTM X	Y
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± _____ Feet or ± _____ Meters		
PDOP		± _____ Feet or ± _____ Meters	

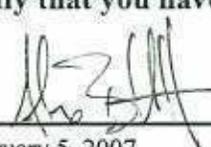
III. Discharger Facility Information (list all permitted dischargers on the stream)

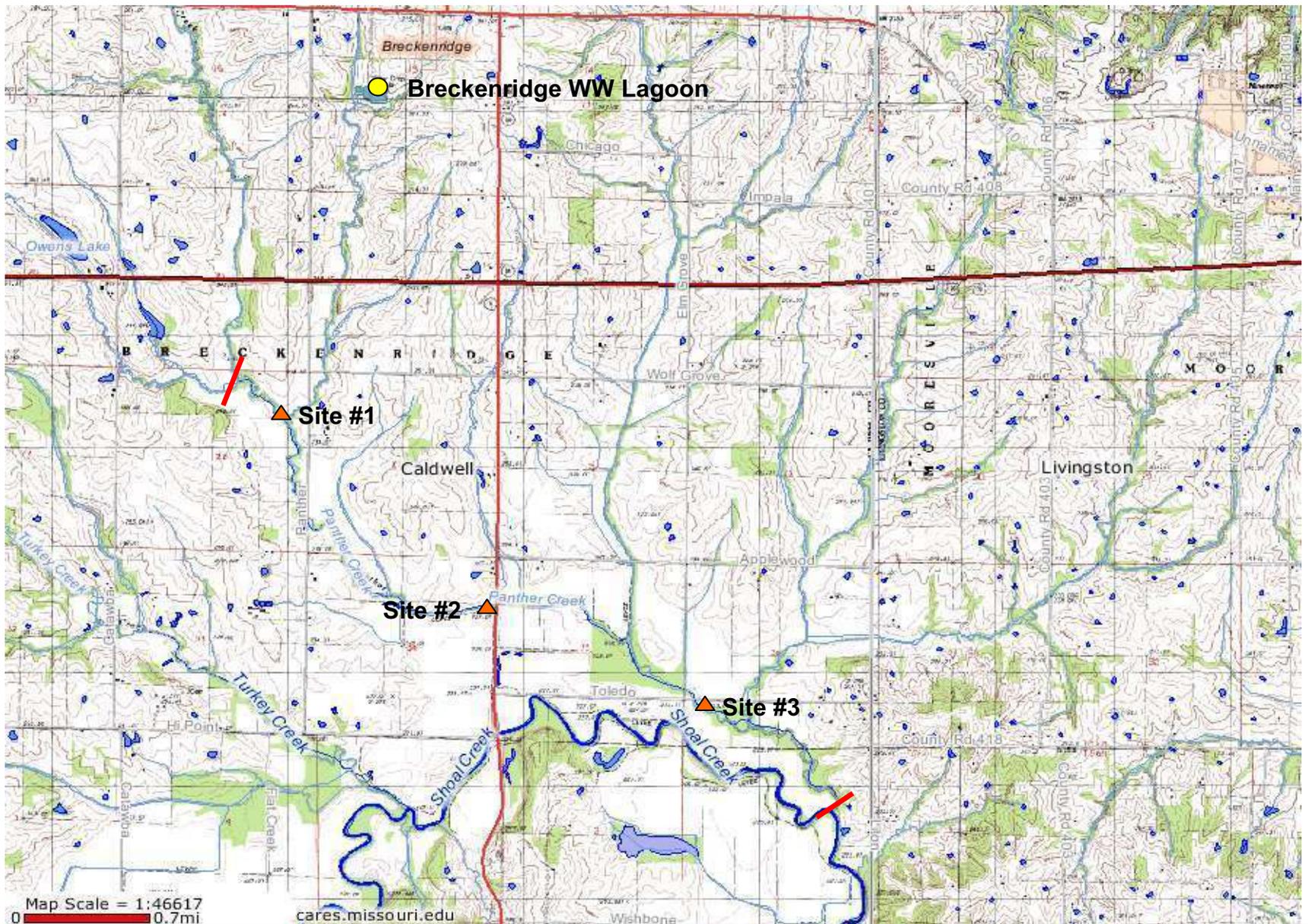
Discharger Facility Name(s):	BRECKENRIDGE WW LAGOON
Discharger Permit Number(s):	MO 8893891

IV. UAA Surveyor (please print legibly)

Name of Surveyor	ALEX BARTLETT	Telephone Number:	816.363.2696
Organization/Employer:	BWR CORP.		
Position:	ENVIRONMENTAL SCIENTIST		

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed:  Date: 6/15/07
 February 5, 2007 Page 22



Panther Creek
WBID #521



WBID# 521
 Site# 1

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>6/15/07 1400</u>	Site Location Description (e.g., road crossing): <u>BRIDGE CROSSING @ PANTHER RD.</u>
Personnel (Data Collectors): <u>BARTLETT & LUNT</u>	Facility Name: <u>BRECKENRIDGE WW LAGOON</u>
Current Weather Conditions: <u>PARTLY CLOUDY 80°</u>	Permit Number: <u>MO 009381</u>
Weather Conditions for Past 10 days: <u>FAIR</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)	
Site GPS Coordinates: UTM X: <u>39.71803</u>	Y: <u>093.81559</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	
FOM ± _____ Meters	Interpolation Data Quality
EPE ± _____ Feet or ± _____ Meters	
PDOP	
Source Map Scale: 1:24,000 1:100,000 Other _____	
± _____ Feet or ± _____ Meters	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>521-3,4</u>	<u>TRAN J-K</u>	<u>521-1,2</u>	<u>TRAN B-A</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

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 checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<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"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: PANTHER RD.

910 CHANNEL FEATURES

Run - 50
RIFLE -
Pool - 50

* Page Two - Data Sheet B for WBID # 521 : SITE # 1
Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

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

% Cobble	% Gravel	<u>40</u> % Sand	<u>60</u> % Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

NONE OBSERVED

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>BROWN TURBID</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [Signature] Date of Survey: 6/15/07

Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	wetted width	< 0.1			
	2.5 m	< 0.1		1	Channel Feature:
		0.1		2	RUN
		0.1		3	
	measurements	0.1		4	Dissolved Oxygen:
	0.25 m	0.1		5	
	apart	0.2		6	9.01
		0.2		7	ppm
		0.2		8	%
		< 0.1		9	
Transect B	wetted width	< 0.1		10	
	2.0 m	< 0.1		11	
		< 0.1		12	Channel Feature:
		< 0.1		13	RUN
	measurements	< 0.1		14	
	0.20 m	< 0.1		15	Dissolved Oxygen:
	apart	0.1		16	
		0.1		17	8.94
		0.1		18	ppm
		0.1		19	%
Transect C	wetted width	< 0.1		20	
	2.0 m	0.1		21	
		0.2		22	
		0.2		23	Channel Feature:
	measurements	0.2		24	RUN
	0.28 m	0.2		25	
	apart	0.2		26	Dissolved Oxygen:
		0.2			
		0.1			8.87
		0.1			ppm

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature] Date: 6/15/07
 Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
D	1 wetted width	<0.1			
	2 1.5 m	<0.1		1	Channel Feature:
	3	<0.1		2	RUN
	4 measurements	0.1		3	
	5 0.15 m	0.1		4	Dissolved Oxygen:
	6 apart	0.1		5	
	7	0.1		6	9.09 ppm
	8	0.1		7	ppm %
	9	<0.1		8	
	10	<0.1		9	
E	1 wetted width	<0.1		10	
	2 3.0 m	<0.1		11	Channel Feature:
	3	0.1		12	RUN
	4 measurements	<0.1		13	
	5 0.30 m	0.1		14	Dissolved Oxygen:
	6 apart	0.1		15	
	7	0.1		16	8.99 ppm
	8	0.1		17	ppm %
	9	0.1		18	
	10	0.1		19	
F	1 wetted width	0.1		20	
	2 2.2 m	0.1		21	Channel Feature:
	3	0.2		22	RUN
	4 measurements	0.2		23	
	5 0.22 m	0.2		24	Dissolved Oxygen:
	6 apart	0.2		25	
	7	0.2		26	8.84 ppm
	8	0.1			ppm %
	9	0.1		n	
	10	0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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Signed: [Signature] Date: 6/15/07
 Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	<0.1			
	<u>3.3 m</u>	<0.1		1	Channel Feature:
		0.1		2	Pool
	measurements	0.2		3	
	<u>0.33 m</u>	0.2		4	Dissolved Oxygen:
	apart	0.3		5	
		0.3		6	<u>8.51</u> ppm
		0.2		7	%
		0.1		8	
		<0.1		9	
Transect H	wetted width	0.1		10	
	<u>4.5 m</u>	0.2		11	
		0.5		12	Channel Feature:
	measurements	0.5		13	Pool
	<u>0.45 m</u>	0.5		14	
	apart	0.4		15	Dissolved Oxygen:
		0.3		16	<u>8.75</u> ppm
		0.2		17	%
		0.1		18	
		<0.1		19	
Transect I	wetted width	0.1		20	
	<u>5.0 m</u>	0.2		21	
		0.5		22	Channel Feature:
	measurements	0.5		23	Pool
	<u>0.50 m</u>	0.6		24	
	apart	0.2		25	Dissolved Oxygen:
		0.2		26	<u>8.91</u> ppm
		0.1		n	%
		<0.1			
		<0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature] Date: 6/15/07
 Organization: ZWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 1

Transsect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	0.1			
	<u>3.3 m</u>	0.1		1	Channel Feature :
		0.2		2	Pool
				3	
	measurements	0.1		4	Dissolved Oxygen
	<u>0.33 m</u>	0.1		5	
	apart	0.1		6	8.66 ppm
		0.1		7	
		<0.1		8	
		<0.1		9	
2		<0.1		10	
				11	
	wetted width	0.1		12	Channel Feature :
	<u>2.0 m</u>	0.2		13	POOL
		0.3		14	
	measurements	0.4		15	Dissolved Oxygen :
	<u>0.80 m</u>	0.5		16	
	apart	0.5		17	8.64 ppm
		0.6		18	
		0.6		19	
3		0.5		20	
		0.2		21	
	wetted width			22	
	<u> </u> m			23	Channel Feature :
				24	
	measurements			25	
	<u> </u> m			26	Dissolved Oxygen
	apart			.	
				.	
				.	
			n		

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature] Date: 6/15/07
 Organization: ZWR CORP. Position: ENV. SCI.

February 5, 2007

WBID# 521
 Site# 2

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>6/15/07 1445</u>	Site Location Description (e.g., road crossing): <u>BRIDGE CROSSING @ HWY A</u>
Personnel (Data Collectors): <u>BARTLETT & LUNT</u>	Facility Name: <u>BRECKENRIDGE WW LAGOON</u>
Current Weather Conditions: <u>PARTLY CLOUDY, 25°</u>	Permit Number: <u>MO0093891</u>
Weather Conditions for Past 10 days: <u>FAIR</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS

Site GPS Coordinates: UTM X: 39,70942 Y: 093,79623 (FROM BRIDGE)

HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)

Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE

GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± _____ Feet or ± _____ Meters	± _____ Feet or ± _____ Meters	
PDOP			

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>521-7,8</u>	<u>TRAN J-K</u>	<u>521-5,6</u>	<u>TRAN B-A</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

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 checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<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"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: HWY A

* Page Two - Data Sheet B for WBID # 521 : SITE # 2

RUN - 20
RIFLE -
Pool - 80

Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

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

% Cobble	% Gravel	10% Sand	70% Silt	20% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

NONE OBSERVED

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: BROWN, TURBID
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [Signature] Date of Survey: 6/15/07
Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
A	wetted width	20.1			
	20.0 m	20.1		1	Channel Feature:
		0.1		2	RUN
	measurements	0.1		3	
	0.20 m	0.1		4	Dissolved Oxygen
	apart	0.2		5	
		0.2		6	9.36
		0.1		7	ppm
		0.1		8	7
		20.1		9	
B	wetted width	0.1		10	
	4.2 m	0.1		11	
		0.1		12	Channel Feature:
	measurements	0.2		13	POOL
	0.42 m	0.2		14	
	apart	0.1		15	Dissolved Oxygen:
		0.1		16	
		0.1		17	8.95
		0.2		18	ppm
		0.2		19	7
C	wetted width	20.1		20	
	4.0 m	0.1		21	
		0.2		22	Channel Feature:
	measurements	0.4		23	POOL
	0.40 m	0.4		24	
	apart	0.3		25	Dissolved Oxygen
		0.3		26	
		0.3		.	8.44
		0.2		.	ppm
		0.1		n	7

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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: 6/15/07
 Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
D	1 wetted width	<0.1			
	2 <u>4.8 m</u>	0.1		1	Channel Feature:
	3	0.2		2	POOL
	4	0.2		3	
	5 measurements	0.2		4	Dissolved Oxygen
	6 <u>0.48 m</u>	0.2		5	
	7 apart	0.2		6	<u>8.76</u> ppm
	8	0.2		7	<u>7</u>
	9	0.1		8	
	10	<0.1		9	
E	1 wetted width	<0.1		10	
	2 <u>2.0 m</u>	<0.1		11	
	3	0.1		12	Channel Feature:
	4	0.1		13	RUN
	5 measurements	0.1		14	
	6 <u>0.70 m</u>	0.2		15	Dissolved Oxygen:
	7 apart	0.2		16	<u>8.40</u> ppm
	8	0.1		17	<u>7</u>
	9	0.1		18	
	10	<0.1		19	
F	1 wetted width	<0.1		20	
	2 <u>5.0 m</u>	<0.1		21	
	3	0.1		22	Channel Feature:
	4	0.1		23	POOL
	5 measurements	0.1		24	
	6 <u>0.50 m</u>	0.1		25	Dissolved Oxygen:
	7 apart	0.2		26	<u>8.48</u> ppm
	8	0.1		.	<u>7</u>
	9	0.1		.	
	10	0.1		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR CORP.

Position: ENV SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 2

Transsect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
G	wetted width	< 0.1			
	1.5 m	< 0.1		1	Channel Feature:
		< 0.1		2	RUN
	measurements	0.1		3	
	0.15 m	0.2		4	Dissolved Oxygen:
	apart	0.2		5	
		0.3		6	2.17
		0.3		7	ppm
		0.7		8	%
		0.1		9	
H	wetted width	0.1		10	
	2.0 m	0.2		11	
		0.2		12	Channel Feature:
	measurements	0.2		13	POOL
	0.30 m	0.2		14	
	apart	0.2		15	Dissolved Oxygen:
		0.2		16	
		0.2		17	8.22
		0.2		18	ppm
		0.1		19	%
I	wetted width	0.1		20	
	2.4 m	< 0.1		21	
		0.2		22	
	measurements	0.3		23	Channel Feature:
	0.24 m	0.2		24	POOL
	apart	0.2		25	
		0.2		26	Dissolved Oxygen:
		0.2		.	
		0.1		.	8.13
		0.1		.	ppm

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR Corp.

Position: ENV. SCIENTIST

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 7

Transsect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
J	1 wetted width	0.1			
	2 <u>2.0 m</u>	0.4		1	Channel Feature:
	3	0.4		2	Pool
	4 measurements	0.3		3	
	5 <u>0.20 m</u>	0.3		4	Dissolved Oxygen:
	6 apart	0.2		5	
	7	0.2		6	8.07 ppm
	8	0.1		7	ppm
	9	0.1		8	7
	10	0.1		9	
K	1 wetted width	0.1		10	
	2 <u>4.7 m</u>	0.2		11	
	3	0.3		12	Channel Feature:
	4 measurements	0.3		13	Pool
	5 <u>0.47 m</u>	0.2		14	
	6 apart	0.2		15	Dissolved Oxygen:
	7	0.4		16	
	8	0.3		17	8.19 ppm
	9	0.3		18	ppm
	10	0.2		19	7
L	1 wetted width			20	
	2 <u> </u> m			21	
	3			22	
	4 measurements			23	Channel Feature:
	5 <u> </u> m			24	
	6 apart			25	Dissolved Oxygen:
	7			26	
	8			.	ppm
	9			.	7
	10			n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR CORP.

Position: ENV. SCI.

February 5, 2007

WBID# 521
 Site# 3

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>6/15/07 1530</u>	Site Location Description (e.g., road crossing): <u>BRIDGE CROSSING @ TO LEDO RD. (DOWN)</u>
Personnel (Data Collectors): <u>BARTLETT & WNT</u>	Facility Name: <u>BRECKENRIDGE WW LAGOON</u>
Current Weather Conditions: <u>PARTLY CLOUDY 85°</u>	Permit Number: <u>MO0093891</u>
Weather Conditions for Past 10 days: <u>FAIR</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)

Site GPS Coordinates: UTM X: 39.70111 Y: 093.77534

HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)

Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE

GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± _____ Feet or ± _____ Meters	± _____ Feet or ± _____ Meters	
PDOP			

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>521-9,10</u>	<u>TRAN B-A</u>	<u>521-11,12</u>	<u>TRAN J-K</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

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 checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<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"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: TOLEDO ROAD

90 CHANNEL FEATURES

• Page Two – Data Sheet B for WBID # 521 : SITE # 3

Run - 60
Riffle - 5
Pool - 35

Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No
If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

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

<u>5</u> % Cobble	<u>5</u> % Gravel	<u>20</u> % Sand	<u>70</u> % Silt	% Mud/Clay	% Bedro
-------------------	-------------------	------------------	------------------	------------	---------

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

NONE OBSERVED

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>BROWN, TURBID</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [Signature] Date of Survey: 6/15/07
Organization: BWR CORP. Position: ENV. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	<0.1			
	2 4.3 m	<0.1		1	Channel Feature:
	3			2	RUN
	4 measurements	0.1		3	
	5 0.43 m	0.2		4	Dissolved Oxygen:
	6 apart	0.2		5	
	7	0.2		6	7.98
	8	0.2		7	ppm
	9	0.1		8	%
	10	0.1		9	
Transect B	1 wetted width	<0.1			
	2 5.0 m	0.1		12	Channel Feature:
	3	0.1		13	RUN
	4 measurements	0.1		14	
	5 0.50 m	0.1		15	Dissolved Oxygen:
	6 apart	<0.1		16	
	7	0.1		17	8.18
	8	0.1		18	ppm
	9	0.1		19	%
	10	0.1		20	
Transect C	1 wetted width	0.1			
	2 0.2 m	0.1		23	Channel Feature:
	3	0.1		24	RUN
	4 measurements	0.1		25	
	5 0.62 m	0.1		26	Dissolved Oxygen:
	6 apart	0.1			
	7	0.1			8.21
	8	0.1			ppm
	9	<0.1		n	%
	10	0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR CORP.

Position: ENV. SCIENTIST

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
D	wetted width	0.1			
	<u>4.3 m</u>	0.1		1	Channel Feature:
		0.2		2	RUN
		0.2		3	
	measurements	0.2		4	Dissolved Oxygen
	<u>0.43 m</u>	0.2		5	
	apart	0.2		6	7.94 ppm
		0.2		7	
		0.1		8	
		0.1		9	
E	wetted width	0.1		10	
	<u>2.0 m</u>	0.2		11	
		0.2		12	Channel Feature:
		0.2		13	RUN
	measurements	0.2		14	
	<u>0.20 m</u>	0.2		15	Dissolved Oxygen:
	apart	0.1		16	
		0.1		17	8.04 ppm
		0.1		18	
		<0.1		19	
F	wetted width	0.2		20	
	<u>5.5 m</u>	0.4		21	
		0.4		22	
		0.4		23	Channel Feature:
	measurements	0.5		24	Pool
	<u>0.55 m</u>	0.4		25	
	apart	0.5		26	Dissolved Oxygen
		0.5		.	
		0.5		.	7.51 ppm
		0.4		.	
	0.2		n		

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 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR CORP.

Position: ENV. SCI.

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 3

Transsect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
G	wetted width	0.2			
	<u>7.0 m</u>	0.3		1	Channel Feature:
		0.5		2	POOL
	measurements	0.6		3	
	<u>0.70 m</u>	0.7		4	Dissolved Oxygen
	apart	0.7		5	
		0.8		6	<u>7.72</u> ppm
		0.6		7	<u>7</u>
		0.9		8	
		0.4		9	
H	wetted width	0.8		10	
	<u>4.1 m</u>	0.8		11	
		0.6		12	Channel Feature:
	measurements	0.6		13	POOL
	<u>0.110 m</u>	0.5		14	
	apart	0.4		15	Dissolved Oxygen:
		0.4		16	<u>8.04</u> ppm
		0.5		17	<u>7</u>
		0.3		18	
		0.3		19	
I	wetted width	0.1		20	
	<u>2.0 m</u>	0.1		21	
		0.1		22	
	measurements	0.1		23	Channel Feature:
	<u>0.20 m</u>	0.1		24	RIFPLE IS
	apart	0.1		25	POOL 75 RUN 10
		0.1		26	Dissolved Oxygen
		0.1		.	<u>7.89</u> ppm
		0.1		.	<u>7</u>
		0.1		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature]

Date: 6/15/07

Organization: BWR CORP.

Position: ENV. Sci.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 521

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	< 0.1			
	2.5 m	< 0.1		1	Channel Feature:
		< 0.1		2	RIFFLE 20
	measurements	< 0.1		3	POOL 80
	0.25 m	< 0.1		4	Dissolved Oxygen
	apart	< 0.1		5	
		< 0.1		6	8.13 ppm
		< 0.1		7	
		< 0.1		8	
		< 0.1		9	
ranked 1	wetted width	< 0.1		10	
	3.8 m	0.1		11	
		0.2		12	Channel Feature:
	measurements	0.3		13	RUN
	0.38 m	0.4		14	
	apart	0.5		15	Dissolved Oxygen:
		0.5		16	
		0.6		17	7.95 ppm
		0.6		18	
		0.5		19	
Transect	wetted width			20	
	_____ m			21	
				22	
	measurements			23	Channel Feature:
	_____ m			24	
	apart			25	Dissolved Oxygen
				26	
				.	
				.	
				n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: [Signature] Date: 6/15/07
 Organization: RWR Corp. Position: ENV. SCIENT.



Downstream (Site 1) of Panther Creek



Downstream (Site 1) of Panther Creek



Downstream (Site 1) of Panther Creek



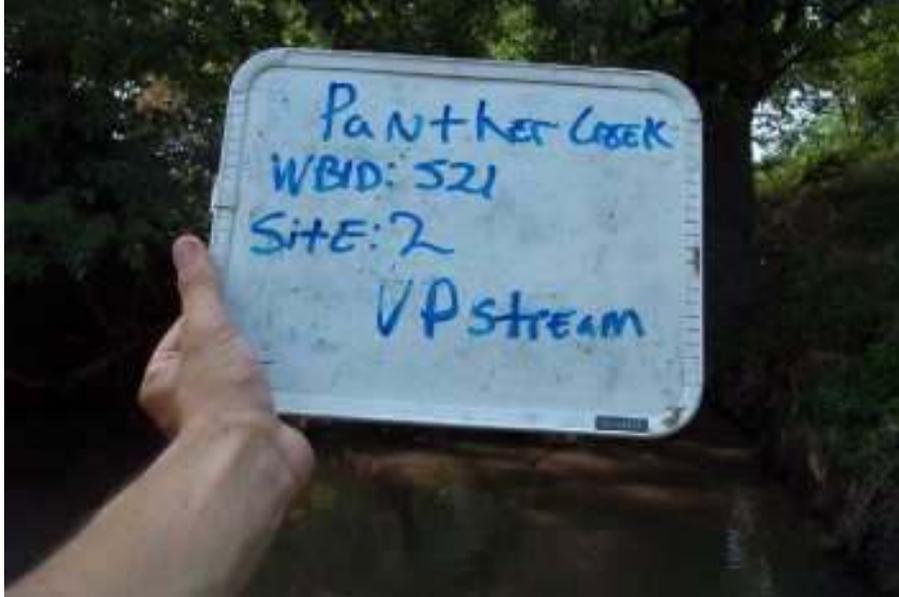
Downstream (Site 1) of Panther Creek



Downstream (Site 2) of Panther Creek



Downstream (Site 2) of Panther Creek



Upstream (Site 2) of Panther Creek



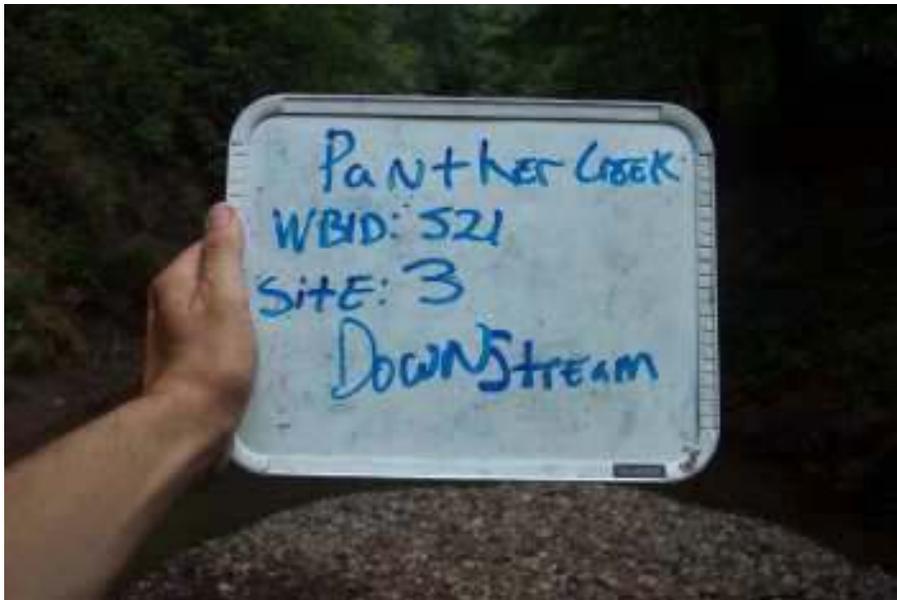
Upstream (Site 2) of Panther Creek



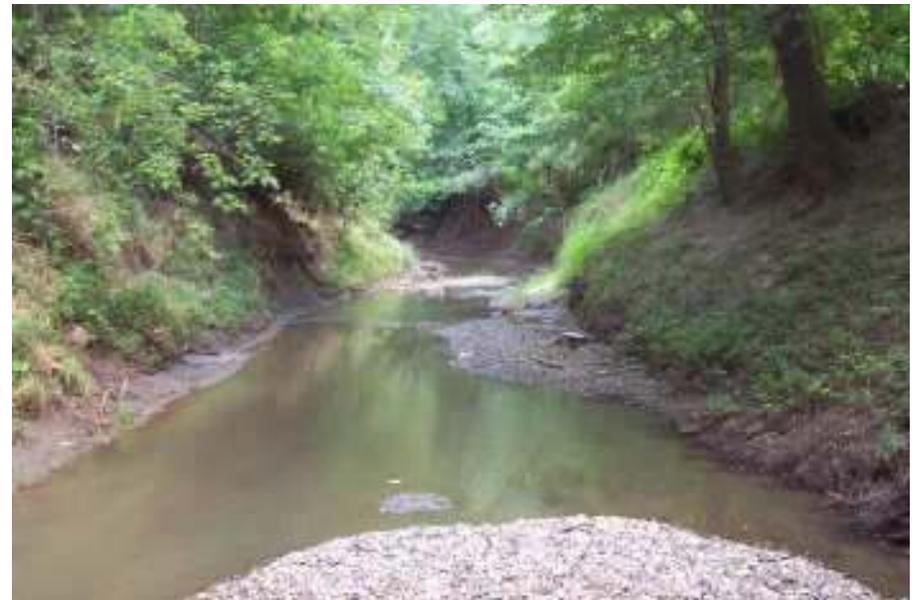
Upstream (Site 3) of Panther Creek



Upstream (Site 3) of Panther Creek



Downstream (Site 3) of Panther Creek



Downstream (Site 3) of Panther Creek

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name Panther Creek (WBID # 521)

I. Introduction

Date & Time (include AM or PM): May 8th, 2007 16:30

Interviewed: In person By phone By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) owns the surrounding land for this segment of Panther Creek

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer) _____, and I am collecting information on how people use _____ (name of the stream) _____."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

Yes No If yes, list contact information for the interviewee below:

Legal name: David Greenwood

Current mailing address: 5640 NE Panther Rd Breckenridge, MO 64625

Daytime phone number: ()

E-mail address (optional):

2.a.) Do you live in this area? Yes No

If yes, how many years?

2.b.) If you don't live nearby, are you still familiar with this stream? Yes No R/L

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

Yes No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Review Mr. unit

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List: *Swimming for Fish Boat*

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? *Mr. GREENWOOD swims for fishing boat about 2 times a year. He does not have a set schedule for when & where he uses Panther Creek.*

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). *Mr. Greenwood owns the surrounding land around Panther Creek 1st area runs along Panther Road. 2nd area south of Toledo Rd. Refer to Map.*

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No

If yes, proceed to #2.
If no, proceed to, "IV. Anecdotal Use?"

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List: _____

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? *Again, No set Time*
& location, HE USUALLY SEE LOCALS IN PATHER CREEK
TWO TIME A YEAR

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). *REFER TO PART II QUESTION 4b.*

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List:

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? REFER TO THE ABOVE QUESTION FOR ANSWERS/REMARKS.

2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol).

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: Panther Creek rarely goes dry during the summer. Mr. Greenwood mentions to watch out for Copperhead snakes

2.) From the Interviewer: South on State Hwy A off of Hwy 311 is closed due to flooding 6/05/07

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

Yes No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: Ryan M. Lunt

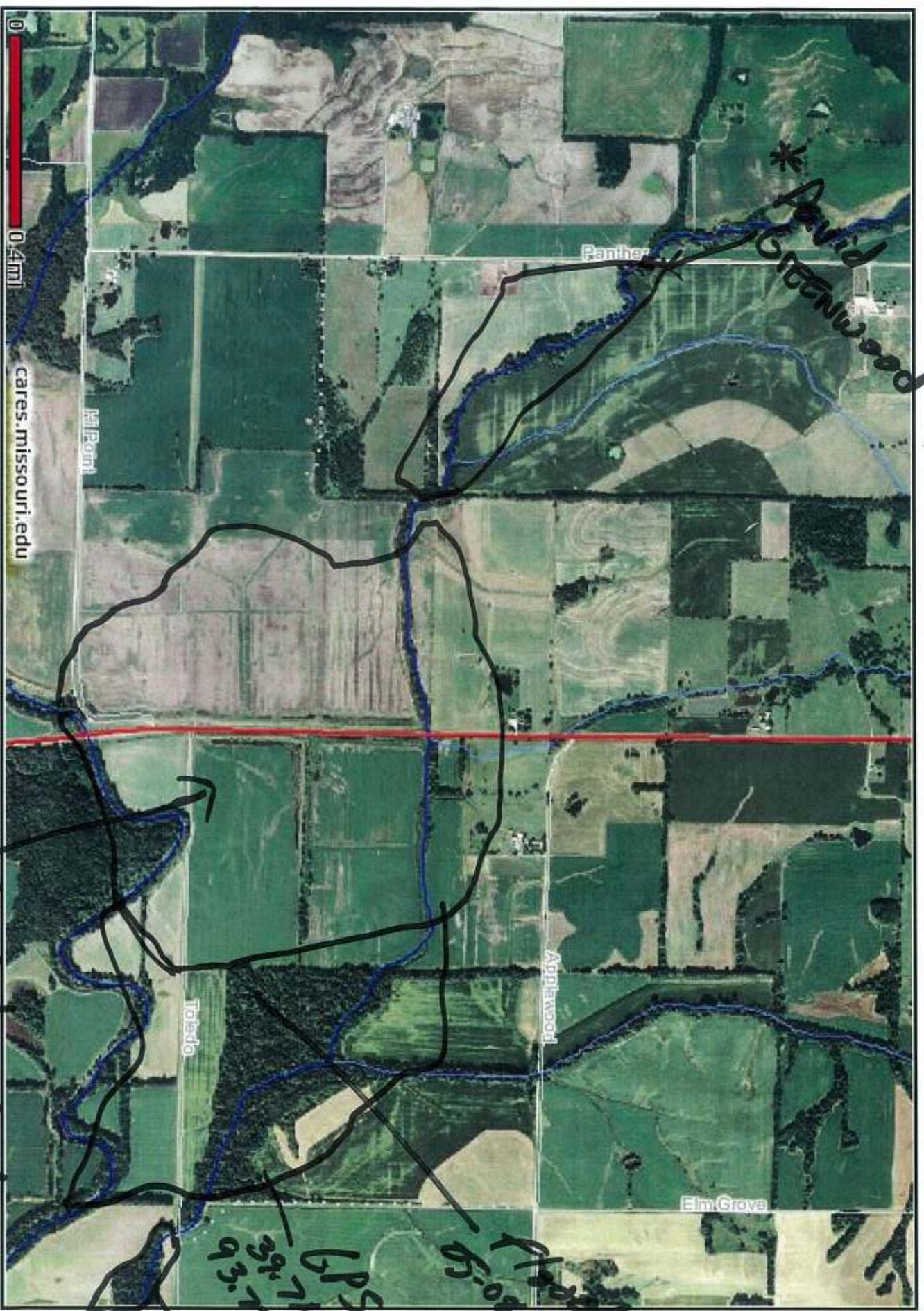
Printed Name: Ryan M. Lunt

Employer (where applicable): SEAVUE ENVIRONMENTAL TECHNOLOGIES

Interviewer's phone #: _____ E-mail: _____

* David uses these sections for swimming trough bars

Panther Creek



0 0.4mi cares.missouri.edu

Flooded 05/08/07

Flooded 05-08-07

05-08-07
05-08-07
05-08-07
05-08-07

David