



Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 1679 Slaughter Branch

Submitted by

Pickett Ray and Silver

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 5, 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): Brushy Creek	
Missouri Waterbody Identification (WBID) Number: 1679 - Slaughter Branch	
8-digit HUC: 10300200	County: Franklin
Upstream Legal Description (from Table H): 43N, 02W, Section 4	
Downstream Legal Description (from Table H): Mouth	
Number of sites evaluated 3	
List all sites numbers, listed consequently upstream to downstream:	
1679 - 1, 1679 - 2, 1679 - 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. **Attached**

**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): Campbellton Elem. School
Discharger Permit Number(s): MO 0083780

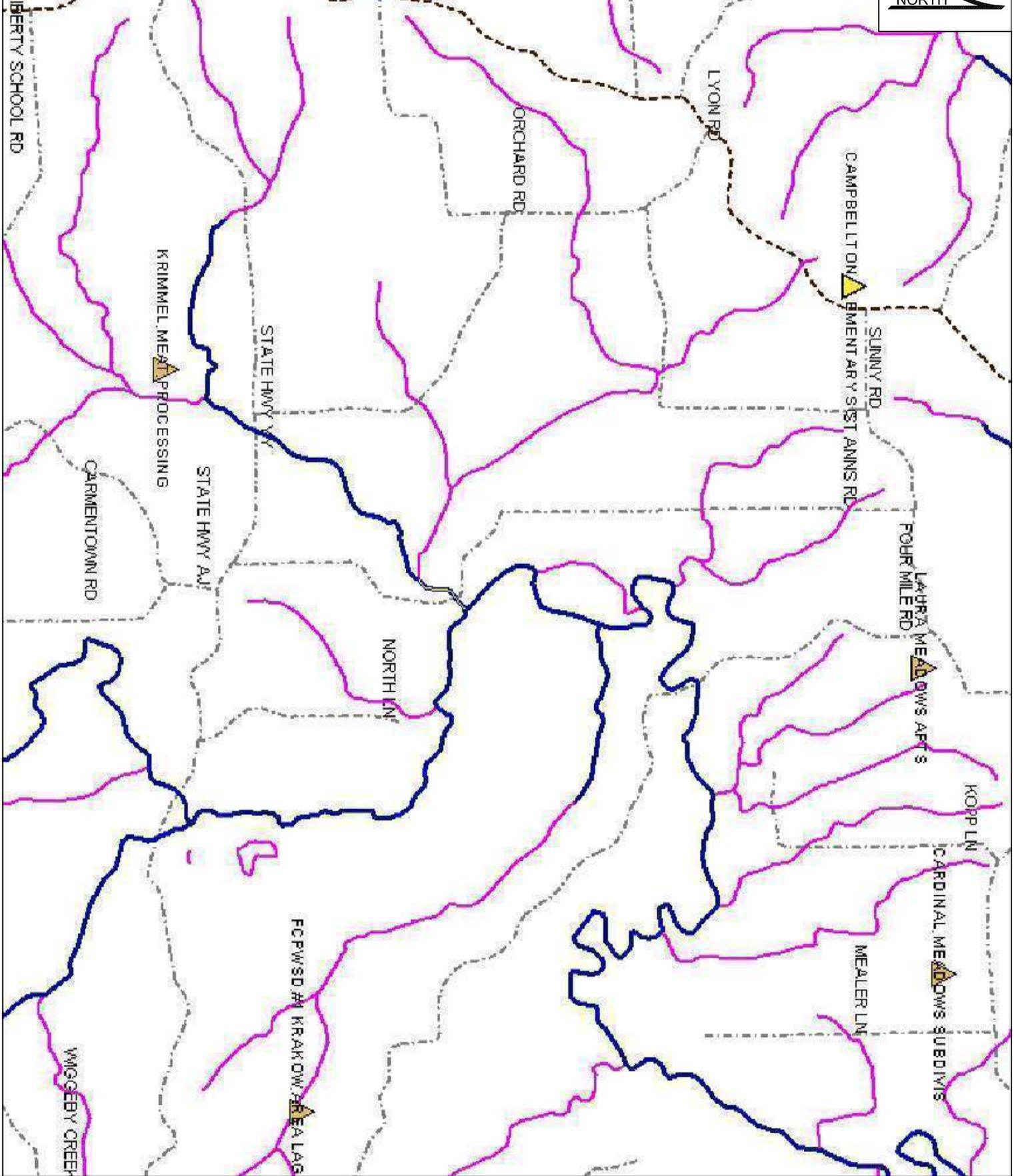
**IV. UAA Surveyor** (please print legibly)

Name of Surveyor Robin Reymond	Telephone Number: 636-397-1211
Organization/Employer: Pickett, Ray & Silver, Inc.	
Position: Field Team Leader	

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

Signed: Robin ReymondDate: 5/7/07

NORTH



### PICKETT RAY & SILVER

Civil Engineers Land Surveyors Natural Resources

Address: 333 Mid Rivers Mall Drive  
 St. Peters, Missouri 63376

Phone: (636) 397-1211  
 Fax: (636) 397-1104  
 Website: www.prs3.com

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WBID #: 1679  
 Name: Slaughter Branch  
 County: Franklin  
 GIS Map



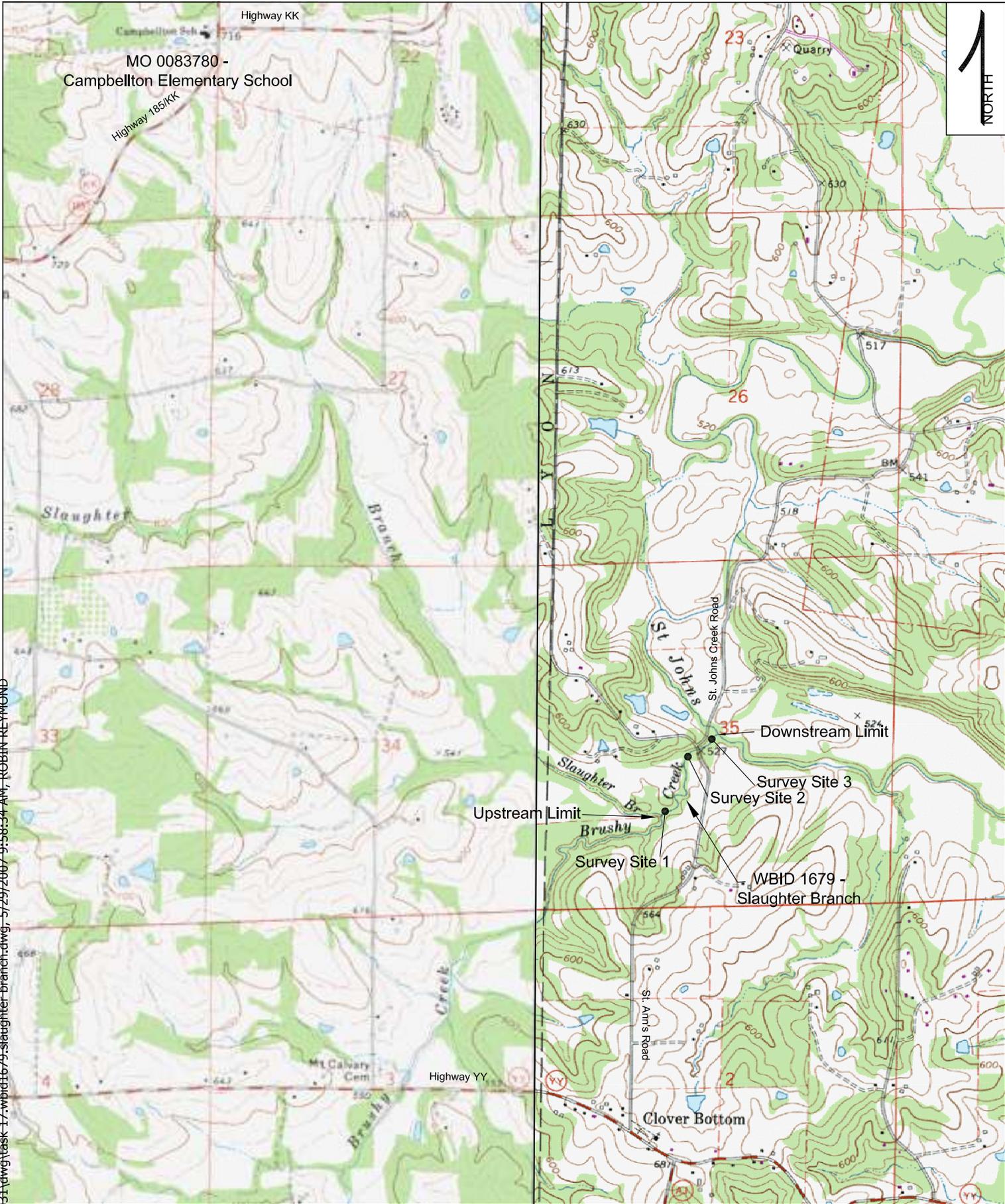
GRAPHIC SCALE

Not to Scale

PRS Job Number: 07031.MODN.00E

Drawn By: RLR Date: 05-29-07

Checked By: JCV Date: 05-29-07



\\server\prj\Projects\07031\dwg\task-17-wbid1679-slaughter-branch.dwg, 5/29/2007 9:58:54 AM, ROBIN REYMOND

MO 0083780 -  
Campbellton Elementary School



Upstream Limit

Downstream Limit

Survey Site 1

Survey Site 2

Survey Site 3

WBID 1679 -  
Slaughter Branch

**PICKETT RAY & SILVER**

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Address: 333 Mid Rivers Mall Drive  
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WBID #: 1679  
Name: Slaughter Branch  
County: Franklin  
USGS Location Map



GRAPHIC SCALE  
Not to Scale

PRS Job Number: 07031.MODN.00E  
Drawn By: RLR Date: 05-29-07  
Checked By: JCV Date: 05-29-07

WBID# 1679  
 Site# 1

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

Date & Time: 5/7/07 - 3:46 p.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): PRS RR/MC	Just downstream of confluence Slaughter/Brush near intersection of St. Anns Rd. & St. Johns Creek Rd.
Current Weather Conditions: sunny 80°F	Facility Name: Campbellton Elem. School
Weather Conditions for Past 10 days: rain	Permit Number: MO 0083780
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: 664125.973m		Y: 4264954.001m	
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 Correction with	X
Real Time Differential Processing		Post Processing	
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters	
EPE	± _____ Feet or ± _____ Meters		
PDOP	5.1		

**Photos:**

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<b>See Attached Photos</b>					

**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 <i>Data Sheet D- Recreational Use Interview</i> 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 type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Comments:				

**Indications of Human Use\*:** (attach photos)

<input 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 checked="" type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments:					

\* Page Two – Data Sheet B for WBID # 1679-1 :

**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)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view?  Yes  No

Approximate percentage of channel features for entire segment site

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 30%					
RUN 40%					
POOL 30%					

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

30 % Cobble	25 % Gravel	15 % Sand	15 % Silt	% Mud/Clay	15 % Bedrock
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Aquatic Vegetation\*: (Note amount of vegetation or algal growth at the assessment site)

Small patches of bur reed

Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other: cow urine
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: slight brown - green
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: Robin Reymond Date of Survey: 5/7/07

Organization: Pickett, Ray & Silver, Inc. Position: \_\_\_\_\_

### Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1679</u> Site #: <u>1</u>  Weather Conditions: _____  GPS Location: _____ UTM X: <u>664125.973m</u> UTM Y: <u>4264954.001m</u> Horizontal Accuracy Estimate (GPS Data Quality): <u>+/- N/A</u> (feet)      PDOP: <u>5.1</u>  Average Stream Width: <u>4.3</u> (meters)      Length of Survey Segment: <u>150</u> (meters)  Field Staff: <u>PRS - RR/MC</u>	<b style="text-align: center;">Dissolved Oxygen</b>  Dissolved Oxygen: <u>11.56</u> (mg/L)  Dissolved Oxygen: _____ (% sat)  Specific Cond: _____ (µS/cm)  Water Temperature: <u>23.3</u> (°C)
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Transect Cross-Section																						
	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0	.10	0	0.10	0	.10	0	.11	0	.10	0	.10	0	.23	0	.13	0	.10	0	.10	0	.10
2	.2	.10	.35	.11	.45	.19	.27	.16	.58	.19	.48	.22	.68	.51	.35	.29	.45	.11	.4	.23	.45	.14
3	.4	.15	.7	.10	.9	.15	.54	.20	1.16	.32	.96	.32	1.36	.60	.7	.51	.9	.14	.8	.42	.9	.16
4	.6	.12	1.05	.10	1.35	.15	.81	.24	1.74	.38	1.44	.41	2.04	.70	1.05	.67	1.35	.15	1.2	.64	1.35	.21
5	.8	.10	1.4	.10	1.8	.15	1.08	.31	2.32	.43	1.92	.42	2.72	.72	1.4	.53	1.8	.21	1.6	.82	1.8	.23
6	1.0	.12	1.75	.14	2.25	.13	1.35	.20	2.9	.49	2.4	.41	3.4	.64	1.75	.42	2.25	.36	2.0	.84	2.25	.23
7	1.2	.15	2.1	.18	2.7	.15	1.62	.10	3.48	.40	2.88	.35	4.08	.46	2.1	.32	2.7	.30	2.4	.74	2.7	.24
8	1.4	.18	2.45	.20	3.15	.15	1.89	.09	4.06	.38	3.36	.31	4.76	.30	2.45	.20	3.15	.22	2.8	.62	3.15	.20
9	1.6	.17	2.8	.14	3.6	.13	2.16	.09	4.64	.39	3.84	.20	5.44	.20	2.8	.15	3.6	.18	3.2	.50	3.6	.18
10	1.8	.10	3.15	.10	4.05	.14	2.43	.10	5.22	.42	4.32	.10	6.12	.10	3.15	.10	4.05	.10	3.6	.26	4.05	.15
11	2.0	.10	3.5	.10	4.5	.15	2.7	.10	5.8	.40	4.75	.10	6.75	.10	3.5	.10	4.5	.10	4.0	.32	4.5	.10
<b>Width/Median Depth</b>	<b>2.7</b>	<b>0.12</b>	<b>3.5</b>	<b>.10</b>	<b>5.0</b>	<b>0.15</b>	<b>2.7</b>	<b>0.11</b>	<b>5.8</b>	<b>0.39</b>	<b>4.75</b>	<b>0.31</b>	<b>6.75</b>	<b>0.46</b>	<b>3.5</b>	<b>0.29</b>	<b>4.5</b>	<b>0.15</b>	<b>4.0</b>	<b>0.50</b>	<b>4.5</b>	<b>0.18</b>
<b>Feature Type (riffle, run, or pool)</b>	<b>Riffle</b>		<b>Riffle</b>		<b>Run</b>		<b>Run</b>		<b>Pool</b>		<b>Run</b>		<b>Pool</b>		<b>Run</b>		<b>Riffle</b>		<b>Pool</b>		<b>Run</b>	

**Notes:** Transects will be measured beginning on left descending bank and finishing on right descending bank.  
GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Robin Reymond      Date: 5/7/07

WBID# 1679  
 Site# 2

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

Date & Time: 5/7/07 - 3:00 p.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): PRS RR/MC	St. Ann's Rd. bridge
Current Weather Conditions: sunny 80°F	Facility Name: Campbellton Elem. School
Weather Conditions for Past 10 days: rain	Permit Number: MO 0083780
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: 664173.454m		Y: 4265240.639m	
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 Correction with	X
Real Time Differential Processing		Post Processing	
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters	
EPE	± _____ Feet or ± _____ Meters		
PDOP	3.5		

**Photos:**

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<b>See Attached Photos</b>					

**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 checked="" type="checkbox"/> Fishing	<input 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 <i>Data Sheet D- Recreational Use Interview</i> 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 type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Comments:				

**Indications of Human Use\*:** (attach photos)

<input 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 checked="" type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments:					

\* Page Two – Data Sheet B for WBID # 1679-2 :

**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

Approximate percentage of channel features for entire segment site  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 100%					
POOL					

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

% Cobble	% Gravel	% Sand	75	% Silt	25	% Mud/Clay	% Bedrock
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Aquatic Vegetation\*: (Note amount of vegetation or algal growth at the assessment site)

none
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Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other: cow urine
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: murky
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: Robin Reymond Date of Survey: 5/7/07

Organization: Pickett, Ray & Silver, Inc. Position: Field Team Leader

### Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1679</u> Site #: <u>2</u> Weather Conditions: <u>sunny 80°F</u> GPS Location: _____ UTM X: <u>664173.454m</u> UTM Y: <u>4265240.639</u> Horizontal Accuracy Estimate (GPS Data Quality): <u>+/- N/A</u> (feet)      PDOP: <u>3.5</u> Average Stream Width: <u>9.7</u> (meters)      Length of Survey Segment: <u>195</u> (meters) Field Staff: <u>PRS - RR/MC</u>	<b>Dissolved Oxygen</b> Dissolved Oxygen: <u>11.29</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>23.0</u> (°C)
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Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
1	0	.11	>1	>1	0	.22	0	.15	0	.20	0	.36	0	.45	0	.23	>1	>1	>1	>1		
2	.58	.43	>1	>1	1	.43	1	.40	1	.41	1	.53	1	.70	.9	.89	>1	>1	>1	>1		
3	1.16	.56	>1	>1	2	.52	2	.52	2	.50	2	.53	2	.60	1.8	.91	>1	>1	>1	>1		
4	1.74	.52	>1	>1	3	.74	3	.70	3	.52	3	.62	3	.63	2.7	.80	>1	>1	>1	>1		
5	2.32	.42	>1	>1	4	.94	4	.82	4	.53	4	.64	4	.70	3.6	.78	>1	>1	>1	>1		
6	2.9	.40	>1	>1	5	.75	5	.83	5	.60	5	.60	5	.74	4.5	.72	>1	>1	>1	>1		
7	3.48	.36	>1	>1	6	.72	6	.66	6	.63	6	.52	6	.80	5.4	.70	>1	>1	>1	>1		
8	4.06	.35	>1	>1	7	.63	7	.52	7	.53	7	.55	7	.80	6.3	.65	>1	>1	>1	>1		
9	4.64	.34	>1	>1	8	.46	8	.48	8	.46	8	.57	8	.91	7.2	.70	>1	>1	>1	>1		
10	5.22	.23	>1	>1	9	.23	9	.31	9	.12	9	.65	9	.82	8.1	.55	>1	>1	>1	>1		
11	5.8	.10			10	.10	10	.14	10	.10	10	.50	10	.42	9.0	.54						
<b>Width/Median Depth</b>	5.8	0.36	13	-	11	-	10	0.52	10	0.52	10	0.50	10	0.55	10	0.70	9	0.70	9	-	9	-
<b>Feature Type (riffle, run, or pool)</b>	Run		Run																			

**Notes:** Transects will be measured beginning on left descending bank and finishing on right descending bank.  
 GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Robin Reymond      Date: 5/7/07

WBID# 1679  
 Site# 3

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

Date & Time: 5/7/07 - 2:46 p.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): PRS RR/MC	at conf. w/St. Johns Creek
Current Weather Conditions: sunny 80°F	Facility Name: Campbellton Elem. School
Weather Conditions for Past 10 days: rain	Permit Number: MO 0083780
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: 664253.787m		Y: 4265261.902m	
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 Correction with	X
Real Time Differential Processing		Post Processing	
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters	
EPE	± _____ Feet or ± _____ Meters		
PDOP	4.4		

**Photos:**

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<b>See Attached Photos</b>					

**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 checked="" type="checkbox"/> Fishing	<input 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 <i>Data Sheet D- Recreational Use Interview</i> 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 type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Comments:				

**Indications of Human Use\*:** (attach photos)

<input 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 checked="" type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments:					

\* Page Two – Data Sheet B for WBID # 1679-3 :

**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

Approximate percentage of channel features for entire segment site  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 100%					
POOL					

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

% Cobble	% Gravel	% Sand	75	% Silt	25	% Mud/Clay	% Bedrock
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Aquatic Vegetation\*: (Note amount of vegetation or algal growth at the assessment site)

none

Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other: cow urine
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: murky
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: Robin Reymond Date of Survey: 5/7/07

Organization: Pickett, Ray & Silver, Inc. Position: \_\_\_\_\_

### Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1679</u> Site #: <u>3</u> Weather Conditions: <u>sunny 80°F</u> GPS Location: <u>664253.787m</u> UTM Y: <u>4265261.902m</u> UTM X: _____      UTM Y: _____ Horizontal Accuracy Estimate (GPS Data Quality): <u>+/- N/A</u> (feet)      PDOP: <u>4.4</u> Average Stream Width: <u>8.4</u> (meters)      Length of Survey Segment: <u>175</u> (meters) Field Staff: <u>PRS - RR/MC</u>	<b style="text-align: center;">Dissolved Oxygen</b> Dissolved Oxygen: <u>11.48</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>23.2</u> (°C)
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Transect Cross-Section																						
	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)																				
1	>1	0	.19	0	.20	0	.17	0	.13	0	.10	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
2	>1	.75	.35	.75	.38	.75	.33	.7	.21	.75	.25	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
3	>1	1.5	.50	1.5	.50	1.5	.43	1.4	.28	1.5	.35	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
4	>1	2.25	.60	2.25	.62	2.25	.48	2.1	.32	2.25	.43	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
5	>1	3.0	.62	3.0	.73	3.0	.64	2.8	.45	3.0	.48	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
6	>1	3.75	.72	3.75	.82	3.75	.72	3.5	.54	3.75	.54	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
7	>1	4.50	.84	4.5	.91	4.5	.79	4.2	.59	4.5	.62	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
8	>1	5.25	.82	5.25	.91	5.25	.78	4.9	.60	5.25	.71	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
9	>1	6.0	.80	6.0	.70	6.0	.73	5.6	.44	6.0	.68	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
10	>1	6.75	.69	6.75	.61	6.75	.64	6.3	.15	6.75	.44	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1	>1
11		7.5	.33	7.5	.32	7.5	.60	7.0	.13	7.5	.44											
<b>Width/Median Depth</b>	7.5	-	7.5	0.62	7.5	.62	7.5	.64	7.0	0.32	7.5	0.44	9	-	9	-	9	-	10.5	-	10.5	-
<b>Feature Type</b> (riffle, run, or pool)	Run																					

**Notes:** Transects will be measured beginning on left descending bank and finishing on right descending bank.  
 GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Robin Reymond      Date: 5/7/07

**WBID# 1679**



**Site# 1 Photo ID# Transect 1, Upstream**



**Site# 1 Photo ID# Transect 1, Downstream**



**Site# 2 Photo ID# Transect 1, Upstream**



**Site# 2 Photo ID# Transect 1, Downstream**

**WBID# 1679**



**Site# 3 Photo ID# Transect 1, Upstream**



**Site#3 Photo ID# Transect 1, Downstream**



**Site# 3 Photo ID# Transect 1, Facing right descending bank**



**Site# 3 Photo ID# Transect 10, Downstream**