Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1618 Lost Creek

Submitted by
MEC Water Resources

To
Missouri Department of Natural Resources
Water Protection Program

On
December 1, 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):	Lost CR
Missouri Water Body Identification (WBID) Number:	1618
8-digit HUC: 20080626	County: Warren
Upstream Legal Description (from Table H):	2, 46 N, 3W
Downstream Legal Description(from Table H):	15, 46N, 3W
Number of sites evaluated	3
List all sites numbers, listed consecutively upstream to downstream: Site 1 = Lost Creek Rd Site 3 = Lost Creek Rd. Site 2 = Lost Creek Rd	

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

Discharger Facility Name(s):	Turning Point
Discharger Permit Number(s):	MO 0126896

III. UAA Surveyor (please print legibly)

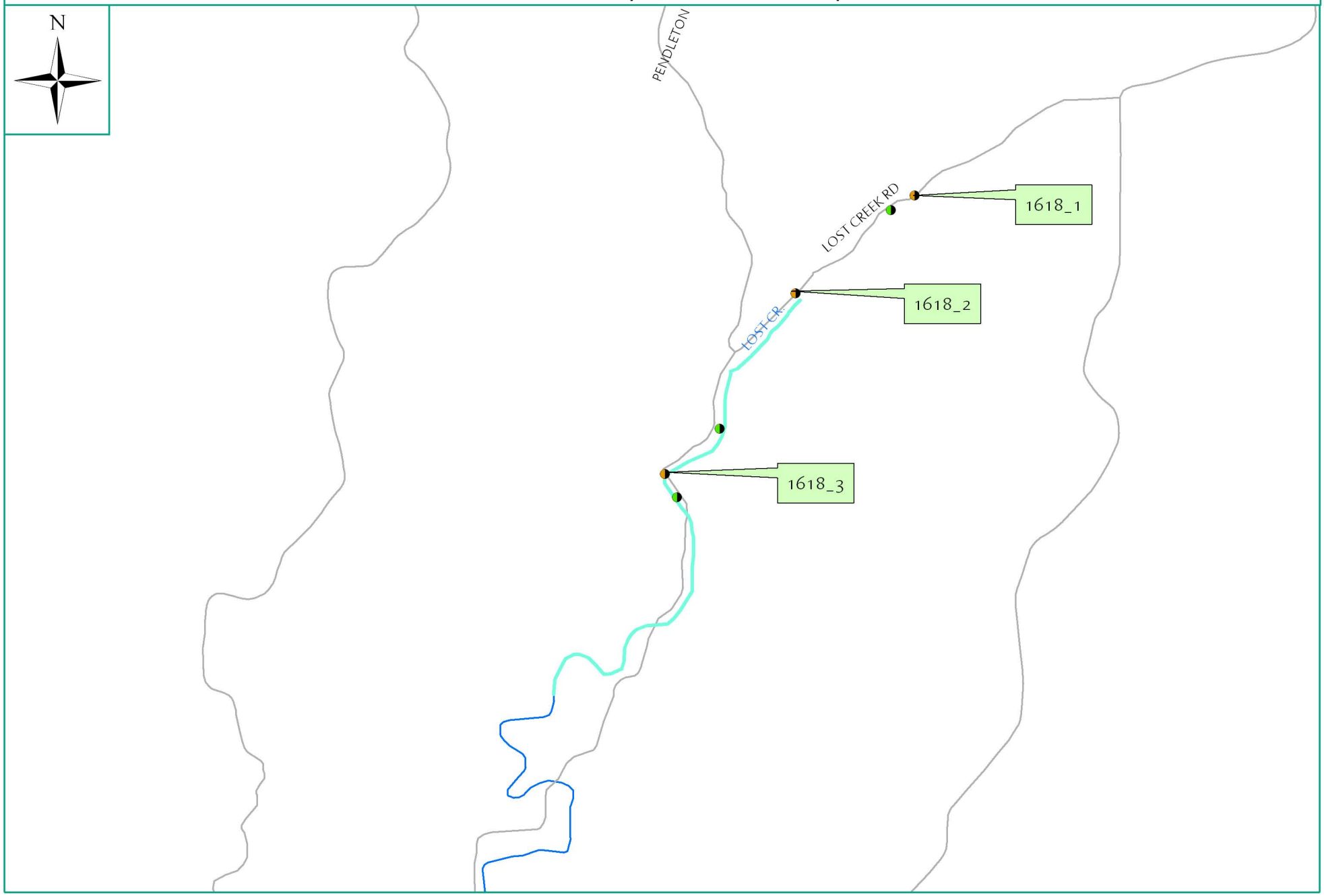
Name of Surveyor Renee Martin	Telephone Number: 573-875-7844
Organization/Employer: AE Solutions	
Position: Env. Specialist	

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

Signed: Renee Martin **Date:** 10/01/07

RWC 10-16-07

Lost Creek (WBID 1618)



Upstream Boundary

Downstream Boundary

Miles

0 0.2 0.4 0.8 1.2 1.6 2

WBID # 1618

Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/01/07 17:00	Site Location Description (e.g., road crossing): Lost Creek Rd.
Personnel (Data Collectors): JH/JF	
Current Weather Conditions: clear	Facility Name: TURNING POINT
Weather Conditions for Past 10 days: CLEAR/RAINY	Permit Number: MO 0126896
Drought Conditions?: No drought ☑; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4294507	Northing (UTM Y): 0655791	Horizontal Accuracy: (EPE / FOM / PDOP) 28 ~~Meters~~ ft
Site 11	Easting (UTM X): 4294408	Northing (UTM Y): 0655633	Horizontal Accuracy: (EPE / FOM / PDOP) 28 ~~Meters~~ ft

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101_321	upstream	101_322	downstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1618
Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☒ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:

Comments:
none RH

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Camping Sites	☐ Rope swings
☐ RV / ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Livestock Watering

Comments / Other:
none

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

60 % Cobble	40 % Gravel	% Sand	% Silt	% 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: dry
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: dry
Bottom Deposit:	☐ Sludge	☒ Solids	☐ Fine sediments	☐ None	☒ Other: dry
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☒ Other: dry

*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.

WBID # 1618
Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Technician

RMC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1618 Site #: 1618_01 (WBID_Site#)

Estimated Channel Incision: 1.0 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4294507 UTM Y: 0655794 28
Horizontal Accuracy Estimate (GPS Data Quality): +/- (feet)

GPS Location (taken at transect 11):
UTM X: 4294408 UTM Y: 0655633 28
Horizontal Accuracy Estimate (GPS Data Quality): +/- (feet)

Average Stream Width: 6.0 (meters) Length of Survey Segment: 150 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JH/JF

Dissolved Oxygen

Date: 10/01/07 Time: 1700

Dissolved Oxygen: — (mg/L)

Dissolved Oxygen: — (% sat)

Specific Cond: — (µS/cm)

Water Temp.: — (°C)

DRY

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.89	0.00	0.92	0.00	0.72	0.00	0.65	0.00	0.87	0.00	0.90	0.00	0.58	0.00	0.30	0.00	0.15	0.00	0.65	0.00	0.82	0.00
2	1.79	|	1.83	|	1.44	|	1.30	|	1.74	|	1.80	|	1.16	|	0.60	|	0.30	|	1.30	|	1.64	|
3	2.69	|	2.75	|	2.16	|	1.95	|	2.61	|	2.70	|	1.74	|	0.90	|	0.45	|	1.95	|	2.46	|
4	3.58	|	3.66	|	2.88	|	2.60	|	3.48	|	3.60	|	2.32	|	1.20	|	0.60	|	2.60	|	3.28	|
5	4.48	|	4.58	|	3.60	|	3.25	|	4.35	|	4.50	|	2.90	|	1.50	|	0.75	|	3.25	|	4.10	|
6	5.37	|	5.49	|	4.32	|	3.90	|	5.22	|	5.40	|	3.48	|	1.80	|	0.90	|	3.90	|	4.92	|
7	6.27	|	6.41	|	5.04	|	4.55	|	6.09	|	6.30	|	4.06	|	2.10	|	1.05	|	4.55	|	5.74	|
8	7.16	|	7.32	|	5.76	|	5.20	|	6.96	|	7.20	|	4.64	|	2.40	|	1.20	|	5.20	|	6.56	|
9	8.06	|	8.24	|	6.48	|	5.85	|	7.83	|	8.10	|	5.22	|	2.70	|	1.35	|	5.85	|	7.38	|
Right Bank	8.95	0	9.15	0	7.20	0	6.50	0	8.70	0	9.00	0	5.80	0	3.00	0	1.50	0	6.50	0	8.20	0
Feature Type (riffle, run, or pool)	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

RHC 10-16-07

Signed: [signature] Date: 10/01/07

WBID # 1618
Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization
(must be completed for each site)

Date & Time: 10/01/07 17:15	Site Location Description (e.g., road crossing): Lost Creek Rd.
Personnel (Data Collectors): JH/JF	
Current Weather Conditions: Clear	Facility Name: TURNING POINT
Weather Conditions for Past 10 days: CLEAR/RAIN	Permit Number: MO 0126896
Drought Conditions?: No drought ☑; Phase I □; Phase II □; Phase III □; Phase IV □; Unknown □	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4293838	Northing (UTM Y): 0654980	Horizontal Accuracy: (EPE / FOM / PDOP) 26 ~~Meters~~ JF ft
Site 11	Easting (UTM X): 4292911	Northing (UTM Y): 0654941	Horizontal Accuracy: (EPE / FOM / PDOP) 27 ~~Meters~~ JF ft

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101_323	downstream	101_324	Upstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1618
Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☒ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:
Comments:				

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Camping Sites	☐ Rope swings
☐ RV / ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Livestock Watering
Comments / Other: none				

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

70 % Cobble	30 % Gravel	% Sand	% Silt	% 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: DRY
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Dry
Bottom Deposit:	☐ Sludge	☒ Solids	☐ Fine sediments	☐ None	☒ Other: DRY
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☒ Other: DRY

*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.

WBID # 1618
Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Tech.

RWC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1618 Site #: 1618-02
(WBID_Site#)

Estimated Channel Incision: 0.5 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4293838 UTM Y: 0654980
Horizontal Accuracy Estimate (GPS Data Quality): +/- 26 (feet)

GPS Location (taken at transect 11):
UTM X: 4292911 UTM Y: 0654461
Horizontal Accuracy Estimate (GPS Data Quality): +/- 27 (feet)

Average Stream Width: 4.5 (meters) Length of Survey Segment: 150 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JH / JF

Dissolved Oxygen

Date: ~~10/01/07~~ 10/01/07 RH Time: 1715

Dissolved Oxygen: — (mg/L)

Dissolved Oxygen: — (% sat)

Specific Cond: — (µS/cm)

Water Temp.: — (°C)

DRY

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.52	0.00	0.31	0.00	0.41	0.00	0.50	0.00	0.45	0.00	0.21	0.00	0.37	0.00	0.15	0.00	0.16	0.00	0.19	0.00	0.13	0.00
2	1.05		0.62		0.82		1.00		0.90		0.42		0.75		0.30		0.32		0.38		0.26	
3	1.58		0.93		1.23		1.50		1.35		0.63		1.13		0.45		0.48		0.57		0.39	
4	2.10		1.24		1.64		2.00		1.80		0.84		1.50		0.60		0.64		0.76		0.52	
5	2.63		1.55		2.05		2.50		2.25		1.05		1.88		0.75		0.81		0.96		0.65	
6	3.15		1.84		2.46		3.00		2.70		1.26		2.25		0.90		0.97		1.15		0.78	
7	3.68		2.17		2.87		3.50		3.15		1.47		2.63		1.05		1.13		1.34		0.91	
8	4.20		2.48		3.28		4.00		3.60		1.68		3.00		1.20		1.29		1.53		1.04	
9	4.73	—	2.79	—	3.69	—	4.50	—	4.05		1.89	—	3.38	—	1.35	—	1.45	—	1.72	—	1.17	—
Right Bank	5.25	0	3.10	0	4.1	0	5.0	0	4.5	0	2.1	0	3.75	0	1.5	0	1.61	0	1.91	0	1.3	0
Feature Type (riffle, run, or pool)	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

RHC 10-16-07

Signed: [signature] Date: 10/01/07

WBID # 1618
Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization
(must be completed for each site)

Date & Time: 10/01/07 17:25	Site Location Description (e.g., road crossing): Lost Creek Rd
Personnel (Data Collectors): JH/JF	
Current Weather Conditions: Clear	Facility Name: TURNING POINT
Weather Conditions for Past 10 days: CLEAR/RAINY	Permit Number: MO 0124896
Drought Conditions?: No drought ☑; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): 4292601	Northing (UTM Y): 0054088	Horizontal Accuracy: (EPE / FOM / PDOP)	26	~~Meters~~ JF ft
Site 11	Easting (UTM X): 4292443	Northing (UTM Y): 0054168	Horizontal Accuracy: (EPE / FOM / PDOP)	24	~~Meters~~ JF ft

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101-325	upstream	101-326	downstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1618
Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☒ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:

Comments:

~~none~~ RH
10/01/07

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Camping Sites	☐ Rope swings
☐ RV / ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Livestock Watering

Comments / Other:

none

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

~~70~~ RH 60 % Cobble	30 % Gravel	10 % Sand	% Silt	% Mud/Clay	% Bedrock

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

algae

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:

*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.

WBID # 1618

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Technician

AWC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1618 Site #: 1618_03 (WBID_Site#)

Estimated Channel Incision: 0.3 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4292601 UTM Y: 0654088
Horizontal Accuracy Estimate (GPS Data Quality): +/- 26 (feet)

GPS Location (taken at transect 11):
UTM X: 4292443 UTM Y: 0654168
Horizontal Accuracy Estimate (GPS Data Quality): +/- 24 (feet)

Average Stream Width: 3.2 (meters) (To determne Length of Reach)

Length of Survey Segment: 150 (meters) (20x average stream width)

Field Staff: JH/JF

Dissolved Oxygen

Date: 10/01/07 Time: 1725

Dissolved Oxygen: 4.77 (mg/L)

Dissolved Oxygen: 54.2 (% sat)

Specific Cond: 411.5 (µS/cm)

Water Temp.: 21.6 (°C)

Transect Cross Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1.08	0.21	0.65	0.18	0.51	0.00	0.78	0.14	0.20	DRY	0.18	DRY	0.43	DRY	0.50	DRY	0.39	DRY	0.26	DRY	0.48	DRY
2	2.16	0.25	1.30	0.35	1.02	|	1.57	0.50	0.40	|	0.36	|	0.86	|	1.00	|	0.78	|	0.52	|	0.96	|
3	3.24	0.35	1.95	0.22	1.53	|	2.36	0.80	0.60	|	0.54	|	1.29	|	1.50	|	1.17	|	0.78	|	1.44	|
4	4.32	0.52	2.60	0.20	2.04	|	3.14	0.88	0.80	|	0.72	|	1.72	|	2.00	|	1.56	|	1.04	|	1.92	|
5	5.40	0.60	3.25	0.30	2.55	|	3.93	1.00	1.00	|	0.90	|	2.15	|	2.50	|	1.95	|	1.30	|	2.40	|
6	6.48	0.78	3.90	0.24	3.06	|	4.71	0.75	1.20	|	1.08	|	2.58	|	3.00	|	2.34	|	1.56	|	2.88	|
7	7.56	0.60	4.55	0.15	3.57	|	5.50	0.29	1.40	|	1.26	|	3.01	|	3.50	|	2.73	|	1.82	|	3.36	|
8	8.64	0.29	5.20	0.08	4.08	|	6.28	0.22	1.60	|	1.44	|	3.44	|	4.00	|	3.12	|	2.08	|	3.84	|
9	9.72	0.20	5.85	0.04	4.59	—	7.07	0.19	1.80	|	1.62	|	3.87	|	4.50	|	3.51	|	2.34	|	4.32	|
Right Bank	10.80	0	6.50	0	5.10	0	7.85	0	2.00	0	1.80	0	4.30	0	5.00	0	3.90	0	2.60	0	4.80	0
Feature Type (riffle, run, or pool)	pool		pool		dry		pool		dry		dry		dry		dry		dry		dry		dry	

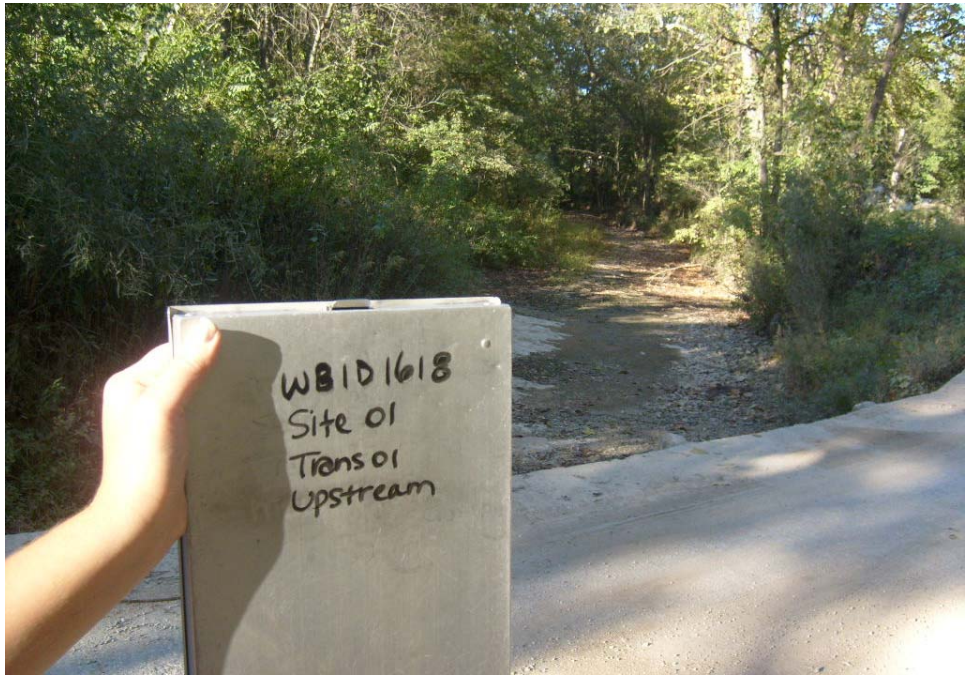
Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

QAC 10-16-07

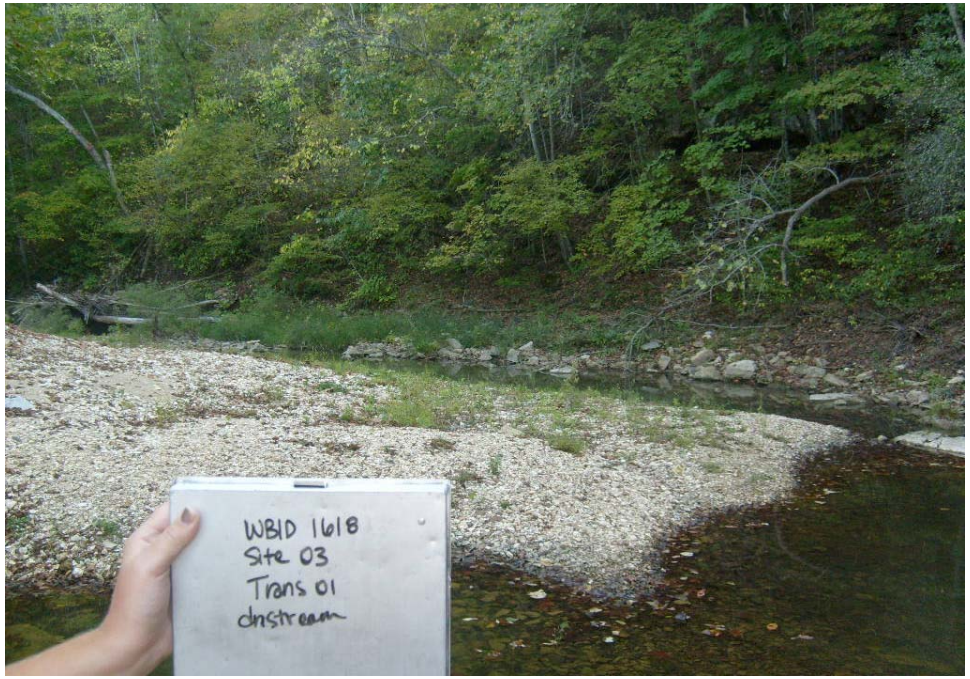
Signed: [signature] Date: 10/01/07

WBID 1618
Site 01
Trans 01
dnstream

WBID 1618
Site 02
Trans 01
upstream


WBID 1618
Site 01
Trans 01
Upstream

WBID 1618
Site 02
Trans 01
dnstream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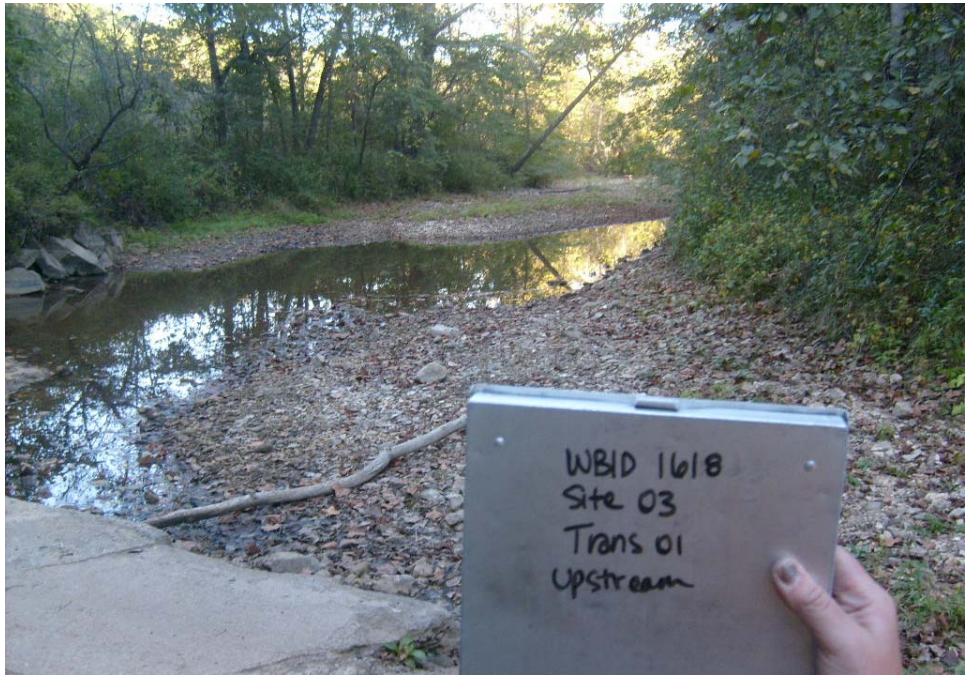
Site 03
Trans 01
dnstream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Site 03
Trans 01
Upstream