Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0142 South Fork Salt River

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):	South Fork Salt River
Missouri Water Body Identification (WBID) Number:	0142
8-digit HUC: 07110006	County: Audrain
Upstream Legal Description (from Table H):	5, 49N, 4W
Downstream Legal Description(from Table H):	Audrain County Line
Number of sites evaluated	18
List all sites numbers, listed consecutively upstream to downstream:	1, 2, 3, 4, 5, 6, 7, 8, ~~19~~, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

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

Discharger Facility Name(s):	Lance L Cox
Discharger Permit Number(s):	MO0106542

III. UAA Surveyor (please print legibly)

Name of Surveyor James VeVerka, SC, TA	Telephone Number: (573) 443-4100
Organization/Employer: MEC-Water Resources	
Position: Water Quality Scientist	

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

Signed: _____ **Date:** 9/12/07

RUC 10-18-07

WBID # 142

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/12/07 11:07	Site Location Description (e.g., road crossing): South off CR 384
Personnel (Data Collectors): JV, SC, TA	
Current Weather Conditions: Clear, 73°F Calm	Facility Name:
Weather Conditions for Past 10 days: Clear, Spotty Rain	Permit Number:
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): 4354229	Northing (UTM Y): 15S 0603535	Horizontal Accuracy: (EPE / FOM / PDOP) 5.1 Meters
Site 11	Easting (UTM X): 4354135	Northing (UTM Y): 15S 0603416	Horizontal Accuracy: (EPE / FOM / PDOP) 5.6 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0001	142_1US	0002	142_1DNS	0003	142_1 Dry Transect 5
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0004	142_1 Dry transect #3				
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 # 142

Site # 1

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: Commercial

Comments: forested riparian

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 observed

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

10 % Cobble	20 % Gravel	65 % Sand	5 % Silt	% Mud/Clay	% Bedrock

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

Smartweed, sycamore, willow, abundant algae & periphyton growth

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: leaf mats
Surface Deposit:	☐ Oil	☒ Scum	☐ Foam	☐ None	☒ Other: algae

*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 # 142

Site # 1

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.)

Intermittent flow, 2 transects were dry, ~~low - no flow~~ SV
No flow present, pooling

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

RMC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 09/12/07

Organization: MEC Water Resources Position: Water Quality Scientist

Data Sheet B
Revised: September 4, 2007

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 142 Site #: 142 1 (WBID_Site#)

Estimated Channel Incision: 3V ~~1.20~~ 0.50 (m) (height between low bank width and water)

GPS Location (taken at transect 1): 3V 5.1 meters avc

UTM X: 4354229 UTM Y: 15 S 0603535

Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~17.0~~ (feet)

GPS Location (taken at transect 11): 5.6 meters avc

UTM X: 4354135 UTM Y: 15 S 0603416

Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~18.6~~ (feet)

Average Stream Width: 3V ~~10~~ 8 meter (meters)

(To determne Length of Reach)

Length of Survey Segment: ~~200~~ 160 meters (meters) 3V

(20x average stream width)

Field Staff: JV, SC, TA

Dissolved Oxygen

Date: 09/12/07 Time: 11:03

Dissolved Oxygen: 5.75 (mg/L)

Dissolved Oxygen: 60.4 (% sat)

Specific Cond: 290.2 (µS/cm)

Water Temp.: 18.4 (°C)

Sonde calibrated in lab @ 8:35,

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	~~0.64~~ ~~0.60~~	0.08	~~1.12~~ ~~1.20~~	0.23	Transect		~~1.06~~ ~~1.00~~	0.51	Dry		~~0.35~~ ~~0.30~~	0.11	~~0.57~~ ~~0.33~~	0.03	~~0.52~~ ~~0.50~~	0.08	0.89	0.23	~~0.55~~ ~~0.50~~	0.06	0.49	0.03
2	3V 1.38	0.18	3V 2.24	0.41	Dry		3V 2.12	0.39	Transect		3V 0.70	0.25	3V 1.14	0.06	3V 1.04	0.16	1.78	0.29	3V 1.06	0.13	0.98	0.08
3	1.92	0.18	3.36	0.58			3.18	0.20			1.05	0.40	1.71	0.17	1.56	0.20	2.67	0.28	1.59	0.15	1.47	0.10
4	2.56	0.23	4.48	0.66			4.24	0.00			1.40	0.41	2.28	0.24	2.08	0.24	3.56	0.20	2.12	0.19	1.96	0.16
5	3.20	0.29	5.60	0.71			5.30	0.00			1.75	0.44	2.85	0.34	2.60	0.27	4.45	0.09	2.65	0.20	2.45	0.20
6	3.84	0.34	6.72	0.60			6.36	0.00			2.10	0.42	3.42	0.41	3.12	0.30	5.34	0.12	3.18	0.20	2.94	0.23
7	4.48	0.30	7.84	0.30			7.42	0.05			2.45	0.41	3.99	0.43	3.64	0.29	6.23	0.19	3.71	0.19	3.43	0.31
8	5.12	0.31	8.96	0.08			8.48	0.13			2.80	0.39	4.56	0.51	4.16	0.24	7.12	0.29	4.24	0.20	3.92	0.32
9	5.76	0.25	10.08	0.08			9.54	0.15			3.15	0.27	5.13	0.37	4.68	0.17	8.01	0.25	4.77	0.18	4.41	0.01
Right Bank	6.40	0	11.28	0		0	10.6	0		0	3.5	0	5.7	0	5.2	0	8.90	0	5.3	0	4.90	0
Feature Type (riffle, run, or pool)	Run		Run		Dry		Run		Dry		Run		Run		Run		Run		Run		Run	

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.

avc 10-3-07

Signed: [signature] Date: 9/12/07

WBID # 142

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/12/07 12:20	Site Location Description (e.g., road crossing): Bridge off CRD 335
Personnel (Data Collectors): JV, TA, SC	
Current Weather Conditions: Clear, 75°F, Calm	Facility Name:
Weather Conditions for Past 10 days: Clear, Sporadic Rain	Permit Number:
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): 4353585	Northing (UTM Y): 15S 0606644	Horizontal Accuracy: (EPE / FOM / PDOP) 8.1 Meters
Site 11	Easting (UTM X): 4353594	Northing (UTM Y): 15S 0606858	Horizontal Accuracy: (EPE / FOM / PDOP) 10.8 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0005	142-2US	0006	142-2DNS	0007	142-2ATV@tran 11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0008	ATV Trail above tran 1	0009	0		
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 # 142

Site # 2

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: Wooded/forested Riparian surrounding immediate stream area

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: Photo taken

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

~~10~~ 5 % Cobble 3V	~~10~~ 5 % Gravel 3V	85 % Sand	5 % Silt	% Mud/Clay	% Bedrock

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

Smartweed, Carrex spp or Sedge, grasses, ~~Elm, Maple~~ 3V, algae and periphyton common, duckweed

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: Leaf mats
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

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WBID # _____

Site # _____

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)
Pool	~ 200m	~15 m	~~10~~ 50 m	~ 0.65	~1.00m

Comments: (Please record any additional comments here.)

Photographed ATV tracks @ just before transect 1 and @ transect 11

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

AKC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/12/07

Organization: MEC Water Res. Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 142 Site #: 142_2 (WBID_Site#)

Estimated Channel Incision: 1.25 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4353585 UTM Y: 15 S 0600644
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~26.8~~ (feet) QAC 8.1 meters

GPS Location (taken at transect 11):
UTM X: 4353594 UTM Y: 15 S 0600858
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~35.7~~ (feet) QAC 10.8 meters

Average Stream Width: 12 (meters) Length of Survey Segment: 240 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, TA, SC

Dissolved Oxygen

Date: 09/12/07 Time: 12:20

Dissolved Oxygen: 7.62 (mg/L)

Dissolved Oxygen: 87.5 (% sat)

Specific Cond: 1141 (µS/cm)

Water Temp.: 21.8 (°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	0.65	0.02	0.96	0.16	1.64 ~~1.60~~ JV	0.20	0.98	0.05	1.40	0.16	1.20	0.16	0.91	0.09	0.82	0.03	0.87	0.05	1.47	0.36	1.75	0.69
2	1.30	0.05	1.92	0.27	3.28	0.16	1.96	0.08	2.80	0.31	2.40	0.23	1.82	0.04	1.64	0.07	1.74	0.17	2.94	0.70	3.50 JV ~~0.02~~	>1.60
3	1.95	0.06	2.88	0.26	4.92	0.16	2.94	0.10	4.20	0.41	3.60	0.24	2.73	0.07	2.46 ~~3.64~~ JV	0.09	2.61	0.23	4.41	0.95	5.25	0.99
4	2.60	0.08	3.84	0.26	6.56	0.29	3.92	0.16	5.60	0.45	4.80	0.23	3.64	0.02	3.28	0.15	3.48	0.19	5.88	0.99	7.00	0.99
5	3.25	0.06	4.80	0.25	8.20	0.30	4.90	0.13	7.00	0.51	6.00	0.26	4.55	0.00	4.10	0.30	4.35	0.12	7.35	0.79	8.75	0.95
6	3.90	0.06	5.76	0.21	9.84	0.30	5.88	0.06	8.40	0.55	7.20	0.26	5.46	0.04	4.92	0.29	5.22	0.12	8.82	0.75	10.50	0.93
7	4.55	0.07	6.72	0.18	11.48	0.37	6.86	0.09	9.80	0.42	8.40	0.28	6.37	0.19	5.74	0.19	6.09	0.15	10.29	0.67	12.25	0.76
8	5.20	0.07	7.68	0.18	13.12	0.34	7.84	0.15	11.20	0.28	9.60	0.24	7.28	0.33	6.56	0.13	6.96	0.10	11.76	0.55	14.00	0.63
9	5.85	0.06	8.64	0.13	14.76	0.31	8.82	0.08	12.60	0.08	10.80	0.13	8.19	0.28	7.38	0.06	7.83	0.06	13.23	0.32	15.75	0.40
Right Bank	6.50	0	~~9.60~~ JV 9.65	0	16.40	0	9.80	0	14.00	0	12.00	0	9.10	0	8.20	0	8.70	0	14.70	0	17.50	0
Feature Type (riffle, run, or pool)	riffle		run		run		~~riffle~~ ~~run~~		run		run		riffle		run		run		Pool		Pool	

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 10-3-07

Signed: [signature] Date: 9/12/07

WBID # 142

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/12/07 , 13:46	Site Location Description (e.g., road crossing): DNS off CRD 364
Personnel (Data Collectors): JU/SC/TA	
Current Weather Conditions: Clear, 75°F	Facility Name:
Weather Conditions for Past 10 days: Clear, spotty Rain	Permit Number:
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): 4350245	Northing (UTM Y): 15S 0599369	Horizontal Accuracy: (EPE / FOM / PDOP) 5.9 Meters
Site 11	Easting (UTM X): 4350445	Northing (UTM Y): 15S 0599285	Horizontal Accuracy: (EPE / FOM / PDOP) 18.1 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0009	142_3US	0010	142_3DNS	0011	Fishing line @ tran 2
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0012	Beercans @ tran2	0013	Rope swing @ tran 7	0015 ~~0014~~	Foot path @ tran 9 ~~Rock Bluff @ tran 9~~
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0016	Rock Bluff @ tran 9				

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 # 142

Site # 3

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: Rock Bluffs present

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: Fishing snag @ transect 2 photo taken, Beer cans @ tran photos taken Rope swing @ tran 7, foot path @ tran 9, Rock Bluff @ tran 9 Cattle upstream of transect 1

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

10 % Cobble	10 % Gravel	60 % Sand	5 % Silt	— % Mud/Clay	15 % Bedrock

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

smartweed, grasses, duckweed, periphyton and algae common

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

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WBID # 142

Site # 3

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)
Rock Bluff for jumping	~250.0	~23.0	250 ~~m~~ SV	~0.75	~1.00

Comments: (Please record any additional comments here.)

Observed cattle wading above transect 1, at tran 9 were rock Bluff that looked high enough for jumping

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

anc 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/12/07

Organization: MEC Water Resources Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142_3
(WBID_Site#)

Estimated Channel Incision: 1.00 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4350245 UTM Y: 1550599309
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~19.4~~ (feet) RHC 5.9 meters

GPS Location (taken at transect 11):
UTM X: 4350445 UTM Y: 1550599285
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~59.4~~ (feet) RHC 18.1 meters

Average Stream Width: 15 (meters) Length of Survey Segment: 250 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, SC, TA

Dissolved Oxygen

Date: 09/12/07 Time: 13:46

Dissolved Oxygen: 6.94 (mg/L)

Dissolved Oxygen: 80.4 (% sat)

Specific Cond: 1333 (µS/cm)

Water Temp.: 22.3 (°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	JV ~~0.90~~ 0.91	0.25	1.95	0.18	~~1.12~~ 1.12 JV	0.12	~~1.30~~ 1.31 JV	0.06	~~1.80~~ 1.84 JV	0.07	1.89	0.05	~~1.90~~ 1.93 JV	0.27	~~2.00~~ 2.05 JV	0.24	2.36	0.65	~~1.90~~ 1.92 JV	0.60	~~2.20~~ 2.23	0.63
2	1.82	0.45	3.90	0.21	3.44	0.20	2.62	0.24	3.68	0.03	3.78	0.21	3.86	0.38	4.10	0.46	4.72	0.90	3.84	0.59	4.46	0.89
3	2.73	0.56	5.85	0.29	5.16	0.26	3.93	0.40	JV ~~5.56~~ 5.52	0.10	5.67	0.36	5.79	0.59	6.15	0.94	7.08	0.67	5.76	0.97	6.69	0.93
4	3.64	0.60	7.80	0.42	6.88	0.32	5.24	0.53	JV ~~7.20~~ 7.36	0.30	7.56	0.56	7.72	0.90	8.20	>1.00	9.44	0.81	7.68	0.92	8.92	0.91
5	4.55	0.59	9.75	0.52	8.60	0.44	6.55	0.67	JV ~~11.04~~ 9.20	0.44	9.45	0.87	9.65	>1.00	10.25	0.96	11.80	0.85	9.60	0.84	11.15	0.90
6	5.46	0.55	11.70	0.72	10.32	0.53	7.86	0.72	~~12.88~~ 11.04	0.58	11.34	JV ~~0.~~ >1.00	11.58	>1.00	12.30	0.93	14.16	0.69	11.52	0.67	13.38	0.86
7	6.37	0.42	13.65	0.74	12.04	0.62	9.17	0.70	~~14.72~~ 12.88	0.67	13.23	>1.00	13.51	>1.00	14.35	0.76	16.52	0.70	13.44	0.48	15.61	0.79
8	7.28	0.32	15.60	0.65	13.76	0.63	10.48	0.61	JV ~~16.56~~ 14.72	0.65	15.12	0.71	15.44	0.80	16.40	0.66	18.88	0.65	15.36	0.36	17.84	0.46
9	8.19	0.25	17.55	0.40	15.48	0.51	11.74	0.42	16.56	0.52	17.01	0.43	17.37	0.36	18.45	0.63	21.24	0.58	17.28	0.19	20.07	0.25
Right Bank	9.10	0	19.50	0	17.20	0	13.10	0	18.40	0	18.90	0	19.30	0	20.50	0	23.60	0	19.20	0	22.30	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Run		Run		~~Pool~~ JV Run		Run		Run	

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 10-3-07

Signed: [signature] Date: 9/12/07

WBID # 0142
Site # 4

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 09/12/07 15:44	Site Location Description (e.g., road crossing): DNS of CRD 350
Personnel (Data Collectors): JV, SC, JA	
Current Weather Conditions: Clear, 78°F	Facility Name:
Weather Conditions for Past 10 days: Clear, Spotty Rain	Permit Number:
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): 4347285	Northing (UTM Y): 155 0598512	Horizontal Accuracy: (EPE / FOM / PDOP) 4.8 Meters
Site 11	Easting (UTM X): 4347503	Northing (UTM Y): 155 0598584	Horizontal Accuracy: (EPE / FOM / PDOP) 6.4 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0017	0142-4DNS	0018	0142-4US	0019	0142-4 fishing hobbies
Photo ID#	**Photo Purpose**	**Photo ID#**	**Photo Purpose**	**Photo ID#**	**Photo Purpose**
0020	0142-4 fire pit	0021	0142-4 foot Path		
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 # 0142
Site # ~~II~~ ~~B~~ 4 3V

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:				

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

10 % Cobble	20 % Gravel	~~30~~ 40 % Sand 3V	5 % Silt	5 % Mud/Clay	20 % Bedrock

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

Smartweed, grasses, duckweed, moderate algal and periphyton growth
Willow

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown, turbid
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☒ Other: leaf mats
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 # 0142
Site # 4

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.

ANC 10-3-07

Surveyor's Signature: _____ Date of Survey: 9/12/07

Organization: MEC Water Resources Position: Water Quality Scientist

Data Sheet B
Revised: September 4, 2007

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142-4 (WBID_Site#)

Estimated Channel Incision: 1.00 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4347285 UTM Y: 155 0598512
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~15.9~~ (feet) 4.8 meters

GPS Location (taken at transect 11):
UTM X: 4347503 UTM Y: 155 0598584
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~21.3~~ (feet) 6.4 meters

Average Stream Width: 15 (meters) Length of Survey Segment: 250 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, TA, SC

Dissolved Oxygen

Date: 09/12/07 Time: 15:44

Dissolved Oxygen: 5.45 (mg/L)

Dissolved Oxygen: 62.3 (% sat)

Specific Cond: 1359 (µS/cm)

Water Temp.: 21.1 (°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	1.83 ~~1.90~~	0.39	2.60	0.24	0.88	0.08	1.30	0.08	0.74 ~~0.70~~	0.23	0.56 ~~0.58~~	0.09	0.49	0.05	0.83 ~~0.80~~	0.13	1.08	0.12	0.75	0.06	1.60	0.10
2	3.86	0.68	5.20	0.44	1.76	0.14	2.60	0.02	1.48	0.27	1.12	0.09	0.98	0.06	1.66	0.14	2.16	0.19	1.50	0.05	3.20	0.15
3	5.79	0.83	7.80	0.60	2.64	0.28	3.90	0.00	2.22	0.40	1.68	0.12	1.47	0.12	2.49	0.24	3.24	0.19	2.25	0.10	4.80	0.21
4	7.72	0.79	10.40	0.65	3.52	0.34	5.20	0.03	2.96	0.38	2.24	0.01	1.96	0.21	3.32	0.34	4.32	0.32	3.00	0.21	6.40	0.31
5	9.65	0.81	13.00	0.81	4.40	0.29	6.50	0.03	3.70	0.40	2.80	0.13	2.45	0.23	4.15	0.51	5.40	0.42	3.75	0.25	8.00	0.41
6	11.58	0.93	15.60	0.97	5.28	0.00	7.80	0.07	4.44 ~~4.40~~	0.34	3.36	0.15	2.94	0.32	4.98	0.46	6.48	0.52	4.50	0.28	9.60	0.41
7	13.51	0.81	18.20	>1.00	6.16	0.04	9.10	0.09	5.18	0.30	3.92	0.00	3.43	0.28	5.81	0.33	7.56	0.50	5.25	0.32	11.20	0.38
8	15.44	0.77	20.80	0.96	7.04	0.07	10.40	0.00	5.92	0.32	4.48	0.04	3.92	0.25	6.64	0.24	8.64	0.44	6.00	0.37	12.80	0.34
9	17.37 ~~14.~~	0.71	23.40	0.65	7.92	0.65	11.70	0.03	6.66	0.15	5.04	0.00	4.41	0.17	7.47	0.16	9.72	0.43	6.75	0.33	14.40	0.29
Right Bank	19.30	0	26.00	0	8.80	0	13.00	0	7.40	0	5.60	0	4.90	0	8.30	0	10.80	0	7.50	0	16.00	0
Feature Type (riffle, run, or pool)	Pool		Pool		Run		Riffle		Run		Run		Run		Run		Run		Run		Run	

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.

AUC 10-3-07

Signed: [signature] Date: 9/12/07

WBID # 0142

Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/12/07 17:11	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): JV, JC, TA	Intersection of CRD 350 & 347
Current Weather Conditions: Clear, 72°F, Calm	Facility Name:
Weather Conditions for Past 10 days: Clear, sloppy rain	Permit Number:
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): 4347553	Northing (UTM 15 S Y): 0597799	Horizontal Accuracy: (EPE / FOM / PDOP) 5.6 Meters
Site 11	Easting (UTM X): 4347473	Northing (UTM 15 S Y): 0598075	Horizontal Accuracy: (EPE / FOM / PDOP) 25.5 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0022	0142_5US	0023	0142_5DNS	0024	0142-5 Roadaccess
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0025	0142_5Roadaccess	0026	0142-5 Tent		
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 # 0142

Site # 5

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: Riparian Zone on RDB, ~~S~~ 15 + meters, LDC ~20 m Riparian then gravel road CRD 350 (Parallels 0142)

unsure of what this means

SC 10/10/07

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

☒ Roads	☐ Foot paths/prints	☐ Dock/platform	☒ Campi
☐ RV / ATV Tracks	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing ng

Comments / Other: Tent observed near transect 1 (Phototaken),

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

5 % Cobble	5 % Gravel	~~50~~ 40 % Sand	10 % Silt	~~30~~ 40 % Mud/Clay	~~NA~~ % Bedrock

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

Smartweed, grasses, duckweed, abundant periphyton growth

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☒ Other: leaf mats
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 # 0142

Site # 05

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.)

Large gravel/sand bar at transect 7 covered with vegetation. Transect 10 Stagnet Pool ~~with~~ JV covered with duckweed

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

AMC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 09/12/07

Organization: MEC Water Resources Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142-05
(WBID_Site#)

Estimated Channel Incision: 1.00 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4347553 UTM Y: 155 0597799
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~18.6~~ (feet) RUC 5.6 meters

GPS Location (taken at transect 11):
UTM X: 4347473 UTM Y: 155 0598075 RUC 25.5 meters
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~83.7~~ (feet) (Best Reading) SV

Average Stream Width: 20 (meters) Length of Survey Segment: 400 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, TA, SC

Dissolved Oxygen

Date: 09/12/07 Time: 17:11

Dissolved Oxygen: ~~4.58~~ 4.58 SV (mg/L)

Dissolved Oxygen: 52.2 (% sat)

Specific Cond: 1195 (µS/cm)

Water Temp.: 21.2 (°C)

Max Length of survey 350m, 35m increments

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	1.39	0.00	~~2.71~~ 2.71	0.46	~~2.41~~ 2.40	0.30	~~1.67~~ 1.60	0.09	~~3.09~~ 3.00	0.08	~~2.65~~ 2.60	0.32	0.45	0.13	~~1.91~~ 1.70	0.54	~~1.62~~ 1.60	0.39	~~2.87~~ 2.30	0.34	1.28	0.42
2	2.78	0.65	5.42	0.55	4.82	0.48	3.34	0.42	6.18 SV	0.13	4.10	0.31	0.90	0.51	3.42	0.69	3.24	0.51	4.74 SV	0.04	2.56	0.46
3	4.17	0.06	8.13	0.46	7.23	0.68	5.01	0.60	9.27	0.05	6.15	0.33	1.35	0.47	5.13	0.72	4.86	0.52	7.11	0.00	3.84	0.60
4	5.56	0.08	10.84	0.66	9.64	0.85	6.68	0.71	12.36	0.09	8.20	0.27	1.80	0.44	6.84	0.60	6.48	0.40	9.48	0.63	5.12	0.68
5	6.95	0.09	13.55	0.69	12.05	0.91	8.35	0.80	15.45	0.20	10.25	0.42	2.25	0.39	8.55	0.54	8.10	0.36 SV	11.85	0.72	6.40	0.64
6	8.34	0.02	16.26	0.53	14.46	0.82	10.02	0.90	18.54	0.43	12.30	0.46	2.70	0.26	10.26	0.54	9.72	0.41	14.22	0.68	7.68	0.53
7	9.73	0.01	18.97	0.52	16.87	0.68	11.69	0.87	21.63	0.58	14.35	0.43	3.15	0.16	11.97	0.55	11.34	0.37	16.59	0.56	8.96	0.66
8	11.12	0.00	21.68	0.50	19.28	0.59	13.36	0.73	24.72	0.68	16.40	0.47	3.60	0.08	13.68	0.79	12.96	0.32	18.96	0.99	10.24	0.82
9	12.51	0.01	24.39	0.34	21.69	0.44	15.03	0.62	27.81	0.71	18.35	0.37	4.05	0.07	15.39	0.66	14.58	0.21	21.33	0.89	11.53	0.88
Right Bank	13.90	0	27.10	0	24.10	0	16.7	0	30.90	0	20.50	0	4.50	0	17.10	0	16.20	0	23.7	0	12.80	0
Feature Type (riffle, run, or pool)	Riffle		Run		Run		Run		Run		Run		Run		Run		Run		Pool		Run	

(Narrow) RUC 10-3-07

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.

Signed: Randy Crawford for Jon SV Date: 10-3-07

WBID # 0142

Site # 6

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/13/07 10:40	Site Location Description (e.g., road crossing): Bridge @ CR 353
Personnel (Data Collectors): JU, SC, TA	
Current Weather Conditions: Clear, 75°F	Facility Name:
Weather Conditions for Past 10 days: Clear, Spotty Rain	Permit Number:
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): 4345885	Northing (UTM Y): 15S 0596961.30 0596661	Horizontal Accuracy: (EPE / FOM / PDOP) 9.3 Meters
Site 11	Easting (UTM X): 4345796	Northing (UTM Y): 15S 0597142	Horizontal Accuracy: (EPE / FOM / PDOP) 9.0 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
142_6_1025	DNS.	142_6_1026	U.S.	142_6_1027	Trat line
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 # 0142
Site # 6

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: See Comments

Comments: Wooded Riparian 15 m RDS Bank then row crop

Does "RDS" mean Right Down-stream"? ↑ SC 10/10/07

Evidence of Human Use*: (Attach photos and reference in "Pho

☐ Roads	☐ Foot paths/prints	☐ Do	s	☐ Rope swings
☐ RV / ATV Tracks	☐ Fire pit/ring	☐ NP	e	☐ Livestock Watering

Comments / Other: Trot line on log

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

— % Cobble	5 % Gravel	70 % Sand	10 % Silt	15 % Mud/Clay	— % Bedrock

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

Smartweed, grasses, duckweed, algae abundant

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown Turbid
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 # 0142

Site # 6

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.)

Powerline crossing near transect 1

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

MRC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/13/07

Organization: MEC Water Resources Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142-6
(WBID_Site#)

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4345885 UTM Y: 15 S ~~0596661~~ 0596961 JC
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~30.7~~ (feet) QAC 9.3 Meters

GPS Location (taken at transect 11):
UTM X: 4345796 UTM Y: 15S 0597142
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~29.6~~ (feet) QAC 9.0 meters

Average Stream Width: 25 (meters) Length of Survey Segment: 560 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, SG, TA

Dissolved Oxygen

Date: 09/13/07 Time: 10:40

Dissolved Oxygen: 6.27 (mg/L)

Dissolved Oxygen: 67.6 (% sat)

Specific Cond: 1179 (µS/cm)

Water Temp.: 20.3 (°C)

Transect was completed up to 350m maximum length

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 ~~Distance~~ (m)	02 ~~Depth~~ Distance (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	1.60	0.64	0.46	2.00	2.40	0.78	2.08	0.90	2.40	0.33	2.48	0.44	2.10	0.45	1.80	0.32	1.66	0.19	0.76	0.08	1.85	0.13
2	3.20	0.70	0.70	4.00	4.80	>1.00	4.16	>1.00	4.80	0.52	4.96	0.86	4.20	0.86	3.60	0.54	3.32	0.28	1.52	0.08	3.77	0.24
3	4.80	0.82	>1.00	6.00	7.20	>1.00	6.24	0.92	7.20	0.74	7.44	1.00	6.30	0.79	5.40	0.59	4.98	0.35	2.28	0.19	5.55	0.32
4	6.40	>1.00	>1.00	8.00	9.60	>1.00	8.32	0.96	9.60	0.96	9.92	0.96	8.40	0.85	7.20	0.62	6.64	0.37	3.04	0.25	7.40	0.33
5	8.00	>1.00	>1.00	10.00	12.00	>1.00	10.40	0.95	12.00	>1.00	12.40	>1.00	10.50	~~0.~~ >1.00 JV	9.00	0.68	8.30	0.43	3.80	0.18	9.25	0.38
6	9.60	>1.00	>1.00	12.00	14.40	>1.00	12.48	0.86	14.40	0.94	14.88	>1.00	12.60	0.88	10.80	0.71	9.96	0.39	4.56	0.17	11.10	0.47
7	11.20	>1.00	0.98	14.00	16.80	0.94	14.56	0.94	16.80	0.89	17.36	0.80	14.70	0.69	12.60	0.67	11.62	0.28	5.32	0.18	12.95	0.41
8	12.80	0.58	0.70	16.00	19.20	0.84	16.64	0.83	19.20	~~0.90~~ 0.99 JV	19.84	0.65	16.80	0.55	14.40	0.60	13.28	0.27	6.08	0.16	14.80	0.31
9	14.40	0.20	0.44	18.00	21.60	0.56	18.72	0.81	21.60	0.76	22.32	0.60	18.90	0.49	16.20	0.56	14.94	0.26	6.84	0.04	16.65	0.32
Right Bank	16.00	0	~~20.00~~ 19.80	~~20.00~~ 0	24.00	0	26.80	0	24.00	0	24.80	0	21.10	0	18.00	0	16.60	0	7.60	0	~~18.~~ 18.50	0
Feature Type (riffle, run, or pool)	Pool		Pool		Run		Run		Run		Run		Run		Run		Run		Riffle		Run	

QAC 10-3-07

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 by 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.

Signed: [signature] for James V Date: 10-3-07

WBID # 0142

Site # 7

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/13/07 12:24	Site Location Description (e.g., road crossing): off of CRD 355, near Sunrise Christian church
Personnel (Data Collectors): JV, TA, SC	
Current Weather Conditions: Clear 75°F Breezy	Facility Name:
Weather Conditions for Past 10 days: Clear, Spotty Rain	Permit Number:
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): 4344808	Northing (UTM Y): 0595598 (15S)	Horizontal Accuracy: (EPE / FOM / PDOP) 14.0 ~~Meters~~ ft (JV) (Nac) 4.3 m
Site 11	Easting (UTM X): 4344980	Northing (UTM Y): 0595778 (15S)	Horizontal Accuracy: (EPE / FOM / PDOP) 22.2 ~~Meters~~ ft (JV) (Nac) 6.8 m

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-7-1028	DNS	142-7-1029	U.S.	142-7-1030	Pool @ tran 8
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 # 0142

Site # 7

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: Church

Comments: Riparian forest both banks

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 observed

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

~~20~~ 10 % Cobble	20 % Gravel	50 % Sand	10 % Silt	10 % Mud/Clay	— % Bedrock

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

Smartweed, grasses, duckweed, periphyton growth is abundant

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: leaf mat ~~periphyton~~ SV
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 # 0142
Site # 7

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.)

Photographed pool @ transect 8

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

RWC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/13/07

Organization: MEC Water Resources Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142_7
(WBID_Site#)

Estimated Channel Incision: 0.50 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4344808 UTM Y: 15 S 0595598
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~14.0~~ (feet) avg 4.3 meters

GPS Location (taken at transect 11):
UTM X: 4344996 UTM Y: 15S 0595778
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~22.2~~ (feet) avg 6.8 meters

Average Stream Width: 15 m (meters) Length of Survey Segment: 300 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JV, SC, TA

Dissolved Oxygen

Date: 09/13/07 Time: 12:24

Dissolved Oxygen: 7.62 (mg/L)

Dissolved Oxygen: 88.1 (% sat)

Specific Cond: 1592 (µS/cm)

Water Temp.: 21.7 (°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
1.06 JV	~~1.86~~ 1.60	0.08	1.68	0.26	1.93	0.29	1.60	0.55	1.42	0.42	2.03	0.51	2.43	0.32	2.23	0.56	2.69	0.69	1.67	0.15	2.53	0.81
2.12 JV 1	~~3.48~~ 3.20	0.24	3.36	0.33	3.86	0.42	3.20	0.61	2.84	0.63	4.06	0.46	4.86	0.58	4.46	>1.00	5.38	0.36	3.34	0.28	5.06	0.80
3.18 JV 2	~~4.80~~ 4.80	0.36	5.04	0.39	5.79	0.66	4.80	0.89	4.26	0.55	6.09	0.54	7.29	0.45	6.69	>1.00	8.07	0.32	5.01	0.32	7.59	0.66
4.24 JV 3	~~5.60~~ 5.50	0.38	6.72	0.55	7.72	0.72	6.40	0.91	5.68	0.60	8.12	0.60	9.72	0.40	8.92	>1.00	10.76	0.47	6.68	0.29	10.12	0.60
5.30 JV 4	~~6.36~~ 6.36	0.34	8.40	0.47	9.65	0.78	8.00	0.89	7.10	0.62	10.15	0.48	12.15	0.34	11.15	>1.00	13.45	0.47	8.35	0.31	12.65	0.42
6.36 JV 5	~~7.42~~ 7.42	0.41	10.08	0.47	11.58	0.68	9.60	0.70	8.52	0.61	12.18	0.92	14.58	0.32	13.38	0.59	16.14	0.36	10.02	0.27	15.18	0.37
7.42 JV 6	~~8.48~~ 8.48	0.37	11.76	0.28	13.51	0.61	11.20	0.52	9.94	0.47	14.21	0.55	17.01	0.25	15.61	0.30	18.83	0.31	11.69	0.07	17.71	0.65
8	~~9.54~~ 9.45	0.29	13.44	0.17	15.44	0.42	12.80	0.33	11.36	0.43	16.24	0.38	19.44	0.12	17.84	0.17	21.52	0.09	13.36	0.00	20.24	0.66
9.54 JV 9	~~10.60~~ 10.50	0.09	15.12	0.10	17.37	0.25	14.40	0.15	12.78	0.23	18.27	0.16	21.87	0.07	20.07	0.15	24.21	0.10	15.03	0.05	22.77	0.33
10.60 JV		0	16.80	0	19.35	0	16.00	0	14.20	0	20.30	0	24.30	0	22.30	0	26.90	0	16.75	0	25.30	0
Right Bank																						
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		~~Pool~~ Run		Pool		Run		Run		Run	

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 JV
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.

avg 10-3-07

Signed: [signature] Date: 9/13/07

WBID # 0142
Site # 8

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 09/13/07 14:02	Site Location Description (e.g., road crossing): Off CRD 355
Personnel (Data Collectors): JV, TA, SC	
Current Weather Conditions: Clear 80°F Breezy	Facility Name:
Weather Conditions for Past 10 days: Clear, Spotty Rain	Permit Number:
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): 4343443	Northing (UTM 15S Y): 0595666	Horizontal Accuracy: (EPE / FOM / PDOP) 18.5 ~~Meters~~ ft 5.6m
Site 11	Easting (UTM X): 4343692	Northing (UTM 15S Y): 0595623	Horizontal Accuracy: (EPE / FOM / PDOP) 18.5 ~~Meters~~ ft 5.6m

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
142_8_1031	U.S.	142_8_1032	D.N.S.	142_8_1033	riffle @ tran 3
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
142_8_1034	Road access				
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 # 142
Site # 8

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: Road access (Photos taken)				

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

10 % Cobble	20 % Gravel	50 % Sand	5 % Silt	5 % Mud/Clay	10 % Bedrock

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

Smartweed, duckweed, carrex spp. algae and periphyton common grasses

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown, turbid
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☒ Other: Leaf mats
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 # 0142
Site # 8

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)
NA					

Comments: (Please record any additional comments here.)

NA

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

RuC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/13/07

Organization: MEC Water Resources Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 142-8 (WBID_Site#)

Estimated Channel Incision: 6.56 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4343443 UTM Y: 15S 0595666
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~18.5~~ (feet) AVG 5.6 m

GPS Location (taken at transect 11):
UTM X: 4343692 UTM Y: 15S 0595623
Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~18.5~~ (feet) AVG 5.6 m

Average Stream Width: 20 (meters) Length of Survey Segment: 400 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: SV, TA, SC

Dissolved Oxygen

Date: 09/13/07 Time: 14:02

Dissolved Oxygen: 4.90 (mg/L)

Dissolved Oxygen: 55.1 (% sat)

Specific Cond: 1720 (µS/cm)

Water Temp.: 20.0 (°C)

Length of survey maxium at 350 m

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	1.90	0.33	1.95	0.38	0.75	0.02	0.58	0.03	0.88	0.17	SV 1.92	0.38	1.98	0.34	2.23	0.47	2.14	0.51	2.12	0.52	2.31	0.56
2	3.80	0.61	3.90	0.52	1.50	0.02	1.16	0.15	1.76	0.30	3.84	0.60	3.96	0.75	4.46	0.64	4.28	0.66	4.24	0.55	4.62	0.59
3	5.70	0.71	5.85	0.78	2.25	0.00	1.74	0.06	2.64	0.24	5.76	0.62	5.94	0.93	6.69	0.66	6.42	0.69	6.36	0.70	6.93	0.66
4	7.60	0.95	7.80	0.87	3.00	0.05	2.32	0.17	3.52	0.21	7.68	0.65	7.92	1.00	8.92	0.73	8.56	0.86	8.48	0.83	9.24	0.67
5	9.50	0.97	9.75	0.75	3.75	0.10	2.90	0.19	4.40	0.14	9.60	0.49	9.90	0.87	11.15	0.81	10.70	0.91	10.60	0.89	11.55	0.69
6	11.40	0.94	11.70	0.43	4.50	0.13	3.48	0.15	5.28	0.18	11.52	0.44	11.88	0.76	13.38	0.79	12.84	0.89	12.72	0.79	13.86	0.69
7	13.30	0.93	13.65	0.42	5.25	0.12	4.06	0.08	6.16	0.15	13.44	0.37	13.86	0.68	15.61	0.89	14.98	0.89	14.84	0.72	16.17	0.65
8	15.20	0.86	15.60	0.32	6.00	0.07	4.64	0.07	7.04	0.08	15.36	0.38	15.84	0.55	17.84	0.81	17.12	0.83	16.96	0.40	18.48	0.64
9	17.10	0.48	17.55	0.24	6.75	0.04	5.22	0.03	7.92	0.06	17.28	0.48	17.82	0.65	20.07	0.77	19.26	0.27	19.88	0.37	20.79	0.83
Right Bank	19.00	0	~~19.30~~ 19.50	0	7.50	0	5.80	0	8.80	0	19.20	0	19.80	0	22.30	0	21.40	0	21.20	0	23.16	0
Feature Type (riffle, run, or pool)	Run		Run		Riffle		Riffle		Run		Run		Run		Run		Run		Run		Run	

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.

10-3-07

Signed: [signature] Date: 9/13/07

WBID # 0142

Site # 9

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 09/13/07 15:35	Site Location Description (e.g., road crossing): Bridge off CRD 353 Down Stream
Personnel (Data Collectors): JV, SC, TA	
Current Weather Conditions: Clear 80°F Light Breeze	Facility Name:
Weather Conditions for Past 10 days: Clear, spotty rain	Permit Number:
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): 4342217	Northing (UTM Y): 15S 0596691	Horizontal Accuracy: (EPE / FOM / PDOP) 152 ~~Meters~~ JV ft (Heavy Canopy) 0.4 46.3M
Site 11	Easting (UTM X): 4342476	Northing (UTM Y): 15S 0596671	Horizontal Accuracy: (EPE / FOM / PDOP) 22.4 ~~Meters~~ ft 0.4 6.8M

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
142-9-1035	U. S.	142-9-1036	D.N.S.	142-9-1037	Riffle DN.S. of tran 5 @ tran 6
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
142-9-1038	split channel by gravel bar @ tran 9 /sand	142-9-1039	Pool @ tran 10		
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 # _____

Site # _____

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: Very steep banks				

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 observed

Substrate*: (These values should add up to 10

10 % Cobble	10 % Gra	0 % Silt	50 % Mud/Clay	— % Bedrock	

40

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

Smartweed, grasses, algal growth abundant, duckweed, periphyton observed on cobble

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☐ None	☒ Other: Hydrogen Sulfide
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown, Turbid
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☒ Other: Woody debris
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 # 6142
Site # 9

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)
NA					

Comments: (Please record any additional comments here.)

NA

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

BWC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/15/07

Organization: MEC Water Res. Position: Water Quality Scientist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 0142 Site #: 0142-9 (WBID_Site#)

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location (taken at transect 1):

UTM X: 4342217 UTM Y: 15S 0596691 ac 46.3M

Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~152~~ (feet) (heavy canopy)

GPS Location (taken at transect 11):

UTM X: 4342476 UTM Y: 15S 0596671 ac 6.8M

Horizontal Accuracy Estimate (GPS Data Quality): +/- ~~22.4~~ (feet)

Average Stream Width: 25 (meters) Length of Survey Segment: 500 (meters)

(To determne Length of Reach) (20x average stream width)

Field Staff: SV, SC, TA

Dissolved Oxygen

Date: 09/13/07 Time: 15:35

Dissolved Oxygen: 4.46 (mg/L)

Dissolved Oxygen: 50.8 (% sat)

Specific Cond: 1986 (µS/cm)

Water Temp.: 19.7 (°C)

Completed 350 meter length maxium

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	2.02	0.72	1.95	0.63	1.76	0.56	0.58	~~0.80~~ 0.02	1.61	0.29	1.39	0.18	0.78	0.06	2.05	0.09	1.14	0.00	3.27	0.40	2.50	0.55
2	4.04	0.76	3.90	0.76	3.52	0.56	1.16	0.04	3.22	0.30	0.78	0.17	1.56	0.13	4.10	0.08	2.28	0.09	6.54	0.01	5.00	0.47
3	6.06	0.77	5.85	0.93	5.28	0.51	1.74	0.07	4.83	0.36	1.17	0.19	2.34	0.19	6.15	0.09	3.42	0.00	9.81	0.01	7.50	0.37
4	8.08	0.80	7.80	0.91	7.04	~~0.56~~ 0.56	2.32	0.09	6.44	0.38	1.56	0.17	~~3.12~~ 3.12	0.20	8.20	0.08	4.56	0.00	13.08	0.60	10.00	0.70
5	10.10	0.86	9.75	0.98	8.80	0.71	2.90	0.13	8.05	0.51	1.95	0.20	~~4.68~~ 3.90	0.12	10.25	0.15	5.70	0.00	16.35	0.43	12.50	0.82
6	12.12	0.78	11.70	0.97	10.56	0.79	3.48	0.23	9.66	0.64	2.34	0.20	~~5.46~~ 4.68	0.15	12.30	0.29	6.84	0.00	19.62	0.64	15.00	0.99
7	14.14	0.65	13.65	0.76	12.33	0.77	4.06	0.16	11.27	0.67	2.73	0.24	~~6.24~~ 5.46	0.07	14.35	0.33	7.98	0.00	22.89	0.71	17.50	>1.00
8	16.16	0.59	15.60	0.45	14.08	0.71	4.64	0.20	12.88	0.67	3.12	0.17	~~7.02~~ 6.24	0.08	16.40	0.34	9.12	0.00	26.16	0.66	20.00	0.94
9	18.18	0.51	17.55	0.39	15.84	0.51	5.22	0.20	14.49	0.22	3.51	0.12	7.02	0.03	18.45	0.36	10.26	0.16	29.43	0.72	22.50	0.62
Right Bank	20.20	0	19.50	0	17.60	0	5.80	0	16.10	0	3.90	0	7.80	0	20.50	0	11.40	0	32.70	0	25.00	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Riffle		Run		Riffle		Run		Run		Riffle		Pool		Pool	

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.

ac 10-3-07

Signed: [signature] Date: 9/13/07

WBID # 0142 ~~0145-7A~~
Site # 10

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 9/19/07 8:07	Site Location Description (e.g., road crossing): Bridge @ Route 5
Personnel (Data Collectors): JV/TA	
Current Weather Conditions: Clear, calm, 70°F	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
Drought Conditions?: No drought □; Phase I □; Phase II □; Phase III □; Phase IV □; Unknown □	

5.94 meters

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4338281	Northing (UTM Y): 0597284 (55)	Horizontal Accuracy: (EPE / FOM / PDOP) ~~17.5 Meters~~ TA ~~ft~~
Site 11	Easting (UTM X): 4338354	Northing (UTM Y): 0597166 (55)	Horizontal Accuracy: (EPE / FOM / PDOP) ~~23.6 Meters~~ TA ~~ft.~~

7.19 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-B-1050 10 TA	Upstream	0142-B-1051 10 TA	downstream	0142-B-1052 10 TA	Riffle - transect 10
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.)

None Observed

WBID # 0142
Site # 10

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: Mowing near bridge

Comments: Wooded Riparian

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 Observed

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

% Cobble	% Gravel	90 % Sand	5 % Silt	5 % Mud/Clay	% Bedrock

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

Duckweed, 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: Woody Debris / Leaf Litter
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 # 0142
Site # 10

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

Anc 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~10~~ ORC 0142-10

Estimated Channel Incision: 0 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4338281 UTM Y: 15 S 0597284 +/- TA ~~19.5~~ TA ~~(meters)~~ → 5.94 meters

11 UTM X: 4338354 UTM Y: 15 S 0597166 +/- TA ~~23.6~~ TA ~~(meters)~~ ~~ft.~~ → 7.19 meters

Average Stream Width: 8 (meters) (To determne Length of Reach)

Length of Survey Segment: 160 (meters) (20x average stream width)

Field Staff: JV / TA

Dissolved Oxygen

Date: 09/19/07 ~~8.07~~ JV Time: 8:07

Dissolved Oxygen: 3.50 (mg/L)

Dissolved Oxygen: 40.80 (% sat)

Specific Cond: 1828 (µS/cm)

Water Temperature: 23.00 (°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	0.8	.53	0.96	.76	~~0.95~~ 0.95	.35	.92	.44	.98	.42	1.16	.60	1.2	0.05	0.67	0.22	0.33	0.01	1.46	0.21	0.93	0.16
2	1.6	.58	1.92	.78	TA 1.9	.54	1.84	.54	1.96	.51	2.32	.56	2.4	0.05	1.34	0.52	0.66	0.11	2.92	0.0	1.86	0.29
3	2.4	.59	2.88	.77	~~0.85~~ 2.85	.52	2.76	.63	2.94	.56	3.48	.51	3.6	0.15	2.01	0.43	0.99	0.14	4.38	0.10	2.79	0.39
4	3.2	.63	3.84	.69	3.8	.56	3.68	.60	3.92	.60	4.64	.46	4.8	0.15	2.68	0.49	1.32	0.19	5.84	0.13	3.72	0.45
5	4.0	.70	4.8	.52	4.75	.65	4.6	.69	4.9	.60	5.8	.44	6.0	0.21	3.35	0.46	1.65	0.24	7.3	0.14	4.65 TA ~~0.45~~	0.54
6	4.8	.71	5.76	.46	5.7	.70	5.52	.80	5.88	.57	6.96	.40	7.2	0.26	4.02	0.39	1.98	0.25	8.76	0.09	5.58	0.56
7	5.6	.76	6.72	.39	6.65	.70	6.44	.80	6.86	.57	8.12	.40	8.4	0.26	4.69	0.29	2.31	0.24	10.22	0.10	6.51	0.50
8	6.4	.63	7.68	.42	7.6	.51	7.36	.69	7.84	.65	9.28	.44	9.6	0.23	5.36	0.27	2.64	0.23	11.68	0.14	7.44	0.43
9	7.2	.53	8.64	.22	8.55	.20	8.28	.39	8.82	.56	10.44	.55	10.8	0.39	6.03	0.28	2.97	0.20	13.14	0.25	8.37	0.30
Right Bank	8.0	0	9.6	0	9.5	0	9.2	0	9.8	0	11.6	0	12.0	0	6.7	0	3.3	0	14.6	0	9.3	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Run		Run		Riffle		Riffle		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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.

ORC 10-3-07

Signed: [illegible] Date: 9/19/07

WBID # 0142

Site # 11

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 9/19/07 9:22	Site Location Description (e.g., road crossing): Bridge off Pollock Rd
Personnel (Data Collectors): JU / TA	
Current Weather Conditions: Clear, Calm, 75°F	Facility Name:
Weather Conditions for Past 10 days: Clear	Permit Number:
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): 4337147	Northing (UTM 15S Y): 0598400	Horizontal Accuracy: (EPE / FOM / PDOP) ~~22.1 Meters~~ ~~ft.~~ 6.7 meters
Site 11	Easting (UTM X): 4337239	Northing (UTM 15S Y): 0598259	Horizontal Accuracy: (EPE / FOM / PDOP) ~~26.5 Meters~~ ~~ft.~~ 8.1 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-TA-1053 11	DNS	0142-11-1054	US	0142-TA-1055 11	Transect #08 Semi-Dry Riffle
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.)

None Observed

WBID # 0142

Site # 11

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: Riparian/pasture

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: No uses observed

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

5 % Cobble	5 % Gravel	60 % Sand	20 % Silt	10 % Mud/Clay	% Bedrock

TA

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

Smart weed, Algal growth

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Brown/Turbid
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	☐ None	☑ Other: Woody Debris/Leaf Litter
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 # 0142
Site # 11

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

ANC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~11~~ AHC 0142_11

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4337147 UTM Y: 155 0598400 +/- ~~22.1 (meters) f+.~~ 6.7 meters TA

11 UTM X: 4337239 UTM Y: 155 0598259 +/- ~~26.5 (meters) f+.~~ 8.1 meters TA

Average Stream Width: ~~TA 10~~ 12 (meters) (To determne Length of Reach)

Length of Survey Segment: 240 ~~00~~ TA (meters) (20x average stream width)

Field Staff: SU/TA

Dissolved Oxygen

Date: 9/19/07 Time: 09:22

Dissolved Oxygen: 3.99 (mg/L)

Dissolved Oxygen: 43.8 (% sat)

Specific Cond: 350.7 (µS/ cm)

Water Temperature: 20.3 (°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	1.00	0.65	1.08	0.30	1.50	0.53	1.42	0.43	1.25	0.61	1.40	0.51	1.06	0.28	0.17	0.01	0.185	0.0	1.0	0.25	0.93	0.43
2	2.0	>1.2	2.16	0.56	3.0	0.60	2.84	0.50	2.5	0.66	2.8	0.55	2.12	0.44	0.34	0.02	0.37	0.0	2.0	0.57	1.86	0.54
3	3.0	>1.2	3.24	0.74	4.5	0.56	4.26	0.32	3.75	0.64	4.2	0.58	3.18	0.47	0.51	0.0	0.555	0.0	3.0	0.65	2.79	0.79
4	4.0	>1.2	4.32	0.63	6.0	0.50	5.68	0.20	5.0	0.51	5.6	0.60	4.24	0.53	0.68	0.0	0.74	0.01	4.0	0.74	3.72	0.85
5	5.0	0.99	5.4	0.52	7.5	0.51	7.1	0.21	6.25	0.43	7.0	0.56	5.3	0.45	0.85	0.0	0.925	0.0	5.0	0.75	4.65	0.87
6	6.0	0.83	6.48	0.29	9.0	0.59	8.52	0.41	7.5	0.46	8.4	0.54	6.36	0.42	1.02	0.0	1.11	0.0	6.0	0.74	5.58	0.89
7	7.0	0.95	7.56	0.0	10.5	0.81	9.94	0.55	8.75	0.60	9.8	0.52	7.42	0.41	1.19	0.0	1.295	0.02	7.0	0.55	6.51	0.92
8	8.0	0.85	8.64	0.0	12.0	0.91	11.36	0.50	10.0	0.63	11.2	0.49	8.48	0.26	1.36	0.0	1.48	0.02	8.0	0.43	7.44	0.92
9	9.0	0.53	9.72	0.21	13.5	0.76	12.78	0.30	11.25	0.60	12.6	0.23	9.54	0.30	1.53	0.0	1.665	0.02	9.0	0.24	8.37	0.64
Right Bank	10.0	0	10.8	0	15.0	0	14.2	0	12.5	0	14.0	0	10.6	0	1.7	0	1.85	0	10.0	0	9.3	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Run		Riffle		Riffle		Run		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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.

AHC 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142

Site # 12

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 9/19/07 10:40	Site Location Description (e.g., road crossing): Bus. 54 Bridge overpass
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Clear, Dry	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4336304	Northing (UTM Y): 15S 0597707	Horizontal Accuracy: (EPE / FOM / PDOP) ~~18.8 Meters ft.~~ 5.7 meters
Site 11	Easting (UTM X): 4336339	Northing (UTM Y): 15S 0597829	Horizontal Accuracy: (EPE / FOM / PDOP) ~~24.2 Meters ft.~~ 7.4 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-TA-1056 12	US	0142-TA-1057 12	DNS		
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.)

None Observed

WBID # 0142
Site # 12

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 observed

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

5 % Cobble	5 % Gravel	80 % Sand	~~Rock~~ 5 % Silt	5 % Mud/Clay	% Bedrock

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

None observed

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 # 0142

Site # 12

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

RMC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: 12 gnc 0142-12

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4336304 UTM Y: 15 S 0597707 +/- ~~18.8 (meters) ft.~~ TA 5.7 meters

11 UTM X: 4336339 UTM Y: 15 S 0597829 +/- ~~24.2 (meters) ft.~~ TA 7.4 meters

Average Stream Width: 8 (meters) (To determne Length of Reach)

Length of Survey Segment: 160 (meters) (20x average stream width)

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 10:40

Dissolved Oxygen: 3.39 (mg/L)

Dissolved Oxygen: 39.3 (% sat)

Specific Cond: 520 (µS/cm)

Water Temperature: 21.5 (°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	0.86 0	0	0	0
1	0.77	0.07	0.90	0.15	0.62	0.01	0.30	0.03	0.46	0.02	0.72	0.13	0.65	0.18	0.93	0.21	0.93	0.12	TA ~~0.80~~	0.20	0.91	0.07
2	1.54	0.13	1.8	0.24	1.24	0.01	0.6	0.05	0.92	0.09	1.44	0.24	1.3	0.26	1.86	0.20	1.86	0.07	1.72 TA ~~0.86~~	0.21	1.82	0.06
3	2.31	0.23	2.7	0.54	1.86	0.12	0.9	0.05	1.38	0.15	2.16	0.38	1.95	0.26	2.79	0.10	2.79	0.17	2.58	0.28	2.73	0.05
4	3.08	0.30	3.6	0.75	2.48	0.16	1.2	0.07	1.84	0.16	2.88	0.36	2.6	0.29	3.72	0.0	3.72	0.21	3.44	0.23	3.64	0.45
5	3.85	0.29	4.5	0.76	3.1	0.17	1.5	0.08	2.3	0.16	3.6	0.29	3.25	0.46	4.65	0.0	4.65	0.26	4.3	0.23	4.55	0.43
6	4.62	0.28	5.4	0.66	3.72	TA 0.06 ~~0.6~~	1.8 ~~0.06~~ TA	0.07	2.76	0.12	4.32	0.24	3.9	0.50	5.58	0.29	5.58	0.25	5.16	0.25	5.46	0.45
7	5.39	0.19	6.3	0.52	4.34	0.17	2.1	0.07	3.22	0.08	5.04	0.36	4.55	0.51	6.51	0.30	6.51	0.20	6.02	0.25	6.37	0.60
8	6.16	0.11	7.2	0.37	4.96	0.18	2.4	0.03	3.68	0.05	5.76	0.23	5.2	0.51	7.44	0.25	7.44	0.07	6.88	0.25	7.28	0.55
9	6.93	0	8.1	0.19	5.58	0.15	~~3.0~~ TA 2.1	~~0.03~~ TA 2.7	~~0.03~~ TA 4.14	0.02	6.48	0.24	5.85	0.53	8.37	0.25	8.37	0.07	7.74	0.28	8.19	0.59
Right Bank	7.7	0	9.0	0	6.2	0	3.0	0	4.6	0	7.2	0	6.5	0	9.3	0	9.3	0	8.6	0	9.1	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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.

gnc 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142
Site # 13

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 9/19/07 12:05	Site Location Description (e.g., road crossing): 54 Bridge Overpass
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Clear, Warm, Dry	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4332030	Northing (UTM Y): 15S 0598608	Horizontal Accuracy: (EPE / FOM / PDOP) ~~26.6 Meters ft.~~ TA 8.1 meters
Site 11	Easting (UTM X): 4332120	Northing (UTM Y): 15S 0598576	Horizontal Accuracy: (EPE / FOM / PDOP) ~~18.5 Meters ft.~~ TA 5.6 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-13-1058	DNS	~~159~~	~~US~~ TA	0142-13-1059	US
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.)

None Observed

WBID # 0142

Site # 13

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: Riparian Zone

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 observed

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

5 % Cobble	10 % Gravel	70 % Sand	10 % Silt	5 % Mud/Clay	% Bedrock

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

Smart Weed, Grasses

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 # 0142

Site # 13

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

RMC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0147 Site #: ~~13~~ 0142-13

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4332030 UTM Y: 15 S 0598608 +/- ~~26.6 (meters)~~ 8.1 meters TA

11 UTM X: 4332120 UTM Y: 15 S 0598576 +/- ~~48.5 (meters)~~ 5.6 meters TA

Average Stream Width: 7 (meters) (To determne Length of Reach)

Length of Survey Segment: 1500 (meters) (20x average stream width) min.

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 12:05

Dissolved Oxygen: 4.70 (mg/L)

Dissolved Oxygen: 55.1 (% sat)

Specific Cond: 387.7 (µS/cm)

Water Temperature: 23.0 (°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	TA 0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.77	0.05	0.32	0.02	0.32	0.07	0.31	0.02	~~0.28~~	~~0.60~~	0.28	0.10	0.73	0.32	0.66	0.48	0.48	0.33	0.20	0.01	1.02	0.27
2	1.54	0.07	0.64	0.02	0.64	0.15	0.62	0.04	TA	0.18	0.56	0.18	1.46	0.45	1.32	0.74	0.96	0.51	0.4	0.01	2.04	0.41
3	2.31	0.10	0.96	0.01	0.96	0.20	0.93	0.09		0.21	0.84	0.21	2.19	0.85	1.98	0.78	1.44	0.69	0.6	0.02	3.06	0.46
4	3.08	0.10	1.28	0.0	1.28	0.23	1.24	0.18		0.21	1.12	0.21	2.92	0.81	2.64	0.82	1.92	0.64	0.8	0.02	4.08	0.40
5	3.85	0.11	1.6	~~0.1~~ 0.01 TA	~~0.01~~ 1.6	0.25	1.55	0.21		0.20	1.4	0.20	3.65	0.70	3.3	0.82	2.4	0.60	1.0	0.01	5.1	0.26
6	4.62	0.20	1.92	0.09	1.92	0.24	1.86	0.16		0.20	1.68	0.20	4.38	0.65	3.96	0.79	2.88	0.58	1.2	0.01	6.12	0.18
7	5.39	0.23	2.24	0.07	2.24	0.22	2.17	0.13		0.20	1.96	0.20	5.11	0.40	4.62	0.45	3.36	0.47	1.4	0.00	7.14	0.30
8	6.16	0.20	2.56	0.08	2.56	0.22	2.48	0.10		0.19	2.24	0.19	5.84	0.17	5.28	0.19	3.84	0.29	1.6	0.02	8.16	0.22
9	6.93	0.18	2.88	0.08	2.88	0.0	2.79	0.04	TA	0.43	2.52	0.13	6.57	0.12	5.94	0.07	4.32	0.12	1.8	0.02	9.18	0.21
Right Bank	7.7	0	3.2	0	3.2	0	3.1	0	~~2.8~~	0	2.8	0	7.3	0	6.60	0	4.80	0	2.00	0	10.2	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Dry		Run		Run		Pool		Run		Riffle		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by 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.

GWC 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142

Site # 14

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 9/19/07 13:25	Site Location Description (e.g., road crossing): CR 820 Bridge
Personnel (Data Collectors): JV, TA	
Current Weather Conditions: Clear, Dry, Warm	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4331533	Northing (UTM Y): 15S 0598664	Horizontal Accuracy: (EPE / FOM / PDOP) ~~28.4 Meters~~ TA ~~ft.~~ → 8.7 meters
Site 11	Easting (UTM X): 4331624	Northing (UTM Y): 15S 0598680	Horizontal Accuracy: (EPE / FOM / PDOP) ~~76.5 Meters~~ TA ~~ft~~ → 23.3 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-13-TA-1060 14	US	0142-13-TA-1061 14	DNS		
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.)

None Observed

WBID # 0141
Site # 14

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: Riparian ~~[illegible]~~ 3V then crop

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: No observed

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

% Cobble	5 % Gravel	75 % Sand	10 % Silt	10 % Mud/Clay	% Bedrock

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

Smartweed, algal growth common;

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Brown
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 # 0142
Site # 14

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)
N/A					

Comments: (Please record any additional comments here.)

N/A

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

DMC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~14~~ QAC 0142-14

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4331533 UTM Y: 15 S 0598664 +/- ~~28.4~~ (meters) ~~SV~~ TA → 8.7 meters

11 UTM X: 4331624 UTM Y: 15 S 0598680 +/- ~~76.5~~ (meters) ~~SV~~ TA → 23.3 meters

Average Stream Width: 8 (meters) (To determne Length of Reach)

Length of Survey Segment: 160 (meters) (20x average stream width)

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 1325

Dissolved Oxygen: 3.48 (mg/L)

Dissolved Oxygen: 44.5 (% sat)

Specific Cond: 403.2 (µS/ cm)

Water Temperature: 23.0 (°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	0.44	0.10	0.35	0.03	0.92	0.05	0.76	0.11	0.85	0.24	0.68	0.36	0.93	0.41	~~1.05~~ 1.05	0.46	0.87	0.40	0.94	0.26	0.71	0.12
2	0.88	0.12	0.7	0.05	1.84	0.04	1.52	0.22	1.7	0.15	1.36	0.68	~~0.86~~ 1.86 JV	0.86	2.1	0.81	1.74	0.71	1.88	0.71	1.42	0.25
3	1.32	0.12	1.05	0.09	2.76	0.18	2.28	0.53	2.55	0.20	2.04	0.71	2.79	0.78	3.15	>1.00	2.61	>1.00	2.82	0.95	2.13	0.34
4	1.76	0.15	1.4	0.10	3.68	0.25	3.04	0.83	3.4	0.31	2.72	0.63	3.72	0.64	4.2	0.78	3.48	0.81	3.76	~~0.75~~ 1.00 JV	2.84	0.53
5	2.2	0.13	1.75	0.09	4.6	0.23	3.8	0.85	4.25	0.50	3.4	0.55	4.65	0.58	5.25	0.65	4.35	0.65	4.7	0.92	3.55	0.69
6	2.64	0.05	2.1	0.12	5.52	0.22	4.56	0.85	5.1	0.69	4.08	0.52	5.58	0.62	6.3	0.62	5.22	0.30	5.64	0.82	4.26	0.96
7	3.08	0.01	2.45	0.13	6.44	0.20	5.32	0.72	5.95	0.76	4.76	0.53	6.51	0.60	7.35	0.63	6.09	0.44	6.58	0.71	4.97	0.80
8	3.52	0.05	2.8	0.15	7.36	0.20	6.08	0.62	6.8	0.75	5.44	0.44	7.44	0.54	8.4	0.45	6.96	0.49	7.52	0.43	5.68	0.52
9	3.96	0.03	3.15	0.11	8.28	0.24	6.84	0.23	7.65	0.28	6.12	0.17	8.37	0.23	9.45	0.26	7.83	0.28	8.46	0.28	6.39	0.20
Right Bank	4.4	0	3.5	0	9.2	0	7.60	0	8.50	0	6.80	0	9.30	0	10.50	0	8.70	0	9.40	0	7.60	0
Feature Type (riffle, run, or pool)	Run		Run		Run		~~Run~~ Pool JV		Run		Run		Run		Run		Run		Run		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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 10-3-07

Signed: [illegible] Date: 9/19/07

WBID # 0142
Site # 15

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 9/19/07 14:25	Site Location Description (e.g., road crossing): CR 832 Bridge
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Clear, Dry, Warm	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4329131	Northing (UTM Y): 15S 0598480	Horizontal Accuracy: (EPE / FOM / PDOP) ~~17.2 Meters~~ TA ~~ft.~~ 5.2 meters
Site 11	Easting (UTM X): 4329234	Northing (UTM Y): 15S 0598476	Horizontal Accuracy: (EPE / FOM / PDOP) ~~21.1 Meters~~ TA ~~ft.~~ 6.4 meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-~~13~~TA 1062 15-	US	0142-15-1063	DNS	0142-15-1064	"Dry" Tran. #11
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.)

None Observed

WBID # 0142

Site # 15

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: Riparian Zone

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 Observed

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

% Cobble	5 % Gravel	85 % Sand	5 % Silt	5 % Mud/Clay	% Bedrock

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

Smart Weed, Grasses

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Turbid / Brown
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 # 0142
Site # 15

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)

N/A

Comments: (Please record any additional comments here.)

No Flow, Intermittant pools

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

AKC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0147 Site #: ~~15~~ 0147-15

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4329131 UTM Y: 15 S 0598480 +/- ~~17.2 (meters) ft.~~ 5.2 meters TA

11 UTM X: 4329234 UTM Y: 15 S 0598476 +/- ~~21.1 (meters) ft.~~ 6.4 meters TA

Average Stream Width: ~~7~~ TA 6 (meters)
(To determne Length of Reach)

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

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 14:25

Dissolved Oxygen: 3.66 (mg/L)

Dissolved Oxygen: 43.9 (% sat)

Specific Cond: 262.3 (µS/ cm)

Water Temperature: 24.4 (°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	0.32	0.09					0.23	0.03					0.265	0.05	0.175	0.05						
2	0.64	0.18					0.46	0.04					0.53	0.08	0.35	0.08						
3	0.96	0.20					0.69	0.06					0.795	0.13	0.525	0.08						
4	1.28	0.23					0.92	0.06					1.06	0.18	0.7	0.12						
5	1.6	0.28					1.15	0.03					1.325	0.21	0.875	0.13						
6	1.92	0.14					1.38	0.03					1.59	0.20	1.05	0.13						
7	2.24	0.23					1.61	0.03					1.855	0.23	1.225	0.15						
8	2.56	0.18					1.84	0.03					2.12	0.20	1.4	0.12						
9	2.88	0.12					2.07	0.01					2.385	0.14	1.575	0.08						
Right Bank	3.2	0		0		0	2.3	0		0		0	2.65	0	1.75	0		0		0		0
Feature Type (riffle, run, or pool)	Run		Dry		Dry		Run		Dry		Dry		Run		Run		Dry		Dry		Dry	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
GPS locations corresponds to Transect 01 and 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.

BWC 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142

Site # 16

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 9/19/07 15:17	Site Location Description (e.g., road crossing): CR 844 Bridge
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Clear, Dry, Warm	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4326755	Northing (UTM 15 Y): 0599402	Horizontal Accuracy: (EPE / FOM / PDOP) 8.9 Meters
Site 11	Easting (UTM X): 4326780	Northing (UTM 15 Y): 0599300	Horizontal Accuracy: (EPE / FOM / PDOP) 9.5 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-16-1065	US	0142-16-1066	~~TA DN~~ DNS	0142-16-1067	"Deer Stand & Dry" Tran. 11
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.)

→ Deer Stand

WBID # 0142
Site # 16

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: Riparian Zone

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 Observed~~ TA → Deer Stand

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

5 % Cobble	5 % Gravel	80 % Sand	5 % Silt	5 % Mud/Clay	% Bedrock

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

Smart Weed, Sedges, Grasses

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 # 0142
Site # 16

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

BLC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~16~~ ANC 0142-16

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4326755 UTM Y: 15 S 0599402 +/- 8.9 (meters)

11 UTM X: 4326780 UTM Y: 15 S 0599300 +/- 9.5 (meters)

Average Stream Width: 7 (meters) (To determne Length of Reach)

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

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 15:17

Dissolved Oxygen: 5.14 (mg/L)

Dissolved Oxygen: 61.7 (% sat)

Specific Cond: 236.6 (µS/ cm)

Water Temperature: 24.4 (°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	0.21	0.06	0.67	0.15	0.69	0.27	0.34	0.13	0.37	0.23	0.13	0.03	0.59	0.10			0.33	0.05				
2	0.42	0.10	1.34	0.19	1.38	0.37	0.68	0.15	0.74	0.42	0.26	0.05	1.18	0.16			0.66	0.13				
3	0.63	0.11	2.01	0.25	2.07	0.24	1.02	0.22	1.11	0.51	0.39	0.05	1.77	0.24			0.99	0.18				
4	0.84	0.10	2.68	0.35	2.76	0.24	1.36	0.26	1.48	0.54	0.52	0.06	2.36	0.24			1.32	0.19				
5	1.05	0.06	3.35	0.36	3.45	0.39	1.7	0.30	1.85	0.55	0.65	0.06	2.95	0.26			1.65	0.19				
6	1.26	0.08	4.02	0.40	4.14	0.41	2.04	0.37	2.22	0.58	0.78	0.03	3.54	0.32			1.98	0.13				
7	1.47	0.07	4.69	0.39	4.83	0.49	2.38	0.27	2.59	0.58	0.91	0.02	4.13	0.29			2.31	TA ~~0.10~~ 0.05				
8	1.68	0.07	5.36	0.26	5.52	0.45	2.72	0.16	2.96	0.55	1.04	0.01	4.72	0.21			2.64	TA ~~0.10~~ 0.05				
9	1.89	0.04	6.03	0.20	6.21	0.29	3.06	0.08	3.33	0.40	1.17	0.01	5.31	0.15			2.97	0.04				
Right Bank	2.1	0	6.7	0	6.9	0	3.4	0	3.7	0	1.3	0	5.9	0		0	3.3	0		0		0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Pool		Dry		Run		Dry		Dry	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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.

ANC 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142
Site # 17

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 9/19/07 1604	Site Location Description (e.g., road crossing): CR 823 Bridge
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Clear, Dry, Warm	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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): 4325748	Northing (UTM Y): 15S 0599985	Horizontal Accuracy: (EPE / FOM / PDOP) 10.4 Meters
Site 11	Easting (UTM X): ~~4325748~~ TA 4325840	Northing (UTM Y): 15S 0600009 ~~059~~ TA	Horizontal Accuracy: (EPE / FOM / PDOP) 8.0 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-17-1068	US	0142-17-1069	DNS	0142-17-1070	Tran. #11
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.)

None Observed

WBID # TA0 0142

Site # 17

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: Riparian Zone

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 Observed

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

% Cobble	% Gravel	90 % Sand	5 % Silt	5 % Mud/Clay	% Bedrock

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

Algae, Smart Weed, Grasses

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 # 0142

Site # 17

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)
		N/A			

Comments: (Please record any additional comments here.)

No flow, Intermittant Pools, Water Quality Data Measured at Tran. #11

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

RWC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

~~668 U~~
~~1018 DN~~

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~17~~ BWC 0142-17

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

11 ~~01~~ TA UTM X: 4325840 UTM Y: 15 S 0600009 +/- 8.0 (meters)

~~11~~ TA 01 UTM X: 4325748 UTM Y: 15 S 0599985 +/- 10.4 (meters)

Average Stream Width: 5 (meters) Length of Survey Segment: 150 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 1604

Dissolved Oxygen: 3.53 (mg/L)

Dissolved Oxygen: 42.2 (% sat)

Specific Cond: 332.5 (µS/cm)

Water Temperature: 24.4 (°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									0.26	0.20											0.20	0.05
2									0.52	0.37											0.40	0.10
3									0.78	0.50											0.60	0.15
4									1.04	0.53											0.80	0.11
5									1.30	0.53											1.00	0.09
6									1.56	0.41											1.20	0.08
7									1.82	0.24											1.40	0.04
8									2.08	0.29											1.60	0.02
9									2.34	0.21											1.80	0.02
Right Bank		0		0		0		0	2.60	0		0		0		0		0		0	2.0	0
Feature Type (riffle, run, or pool)	Dry		Dry		Dry		Dry		~~Run~~ TA Pool		Dry		Dry		Dry		Dry		Dry		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
GPS locations corresponds to Transect 01 and 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.

BWC 10-3-07

Signed: [signature] Date: 9/19/07

WBID # 0142
Site # 18

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 09/19/07 16:45	Site Location Description (e.g., road crossing): Bridge @ CRD 856
Personnel (Data Collectors): JV/TA	
Current Weather Conditions: Partly Cloudy 80°F Calm	Facility Name:
Weather Conditions for Past 10 days: Clear	Permit Number:
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): 4324265	Northing (UTM 15S Y): 0600050	Horizontal Accuracy: (EPE / FOM / PDOP) 7.6 Meters
Site 11	Easting (UTM X): 4324386	Northing (UTM 15S Y): 0600083	Horizontal Accuracy: (EPE / FOM / PDOP) 9.0 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0142-18-1071	US	0142-18-1072	~~0142-18-~~ TA DNS	0142-18-1073	US Dry Tran. #11
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.)

None Observed

WBID # 0142
Site # 18

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: Riparian/Field

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 Observed

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

% Cobble		% Gravel	85	% Sand	5	% Silt	10	% Mud/Clay	% Bedrock

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

N/A

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☐ None	☑ Other: N/A
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 # 0142
Site # 18

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)
		N/A			

Comments: (Please record any additional comments here.)

Survey Length Dry

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

RWC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~18~~ 9uc 0142-18

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01	UTM X: 4324265	UTM Y: 15 S 0600050	+/- 7.6 (meters)
11	UTM X: 4324386	UTM Y: 15 S 0600083	+/- 9.0 (meters)

Average Stream Width: 5 (meters) (To determne Length of Reach)

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

Field Staff: JV / TA

Dissolved Oxygen

Date: 09/19/07 Time: 16:45

Dissolved Oxygen: N/A (mg/L)

Dissolved Oxygen: ↓ (% sat)

Specific Cond: ↓ (µS/cm)

Water Temperature: ↓ (°C)

Survey Length Dry
Unable to take Measurements

Transect Cross-Section

Station	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)
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																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
Right Bank		0		0		0		0		0		0		0		0		0		0		0
Feature Type (riffle, run, or pool)	Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry	

N/A

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
GPS locations corresponds to Transect 01 and 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.

9uc 10-3-07

Signed: [illegible] Date: 9/19/07

WBID # 0142
Site # 19

Field Data Sheets for Recreational Use Stream Surveys

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

Date & Time: 9/19/07 17:25	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Cloudy, Dry	Facility Name:
Weather Conditions for Past 10 days: Clear, Dry	Permit Number:
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):	Northing (UTM Y):	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
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.) See comments

WBID # 0142

Site # 19

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:				

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

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

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

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☐ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☐ Other:

*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 # 0142

Site # 19

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.)

Could not access site due to private property. Mostly likely the survey length would have been dry as the previous survey was

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

AHC 10-3-07

Surveyor's Signature: [signature] Date of Survey: 9/19/07

Organization: MEC Water Resources Position: Water Quality Scientist

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0142 Site #: ~~19~~ RUC 0142-19

Estimated Channel Incision: N/A (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: N/A UTM Y: N/A +/- N/A (meters)

11 UTM X: N/A UTM Y: N/A +/- N/A (meters)

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

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

Field Staff: TA, JV

Dissolved Oxygen

Date: 9/19/07 Time: 17:25

Dissolved Oxygen: NA (mg/L)

Dissolved Oxygen: _____ (% sat)

Specific Cond: _____ (µS/ cm)

Water Temperature: _____ (°C)

Could not access site, private property

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																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
Right Bank		0		0		0		0		0		0		0		0		0		0		0
Feature Type (riffle, run, or pool)																						

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 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)

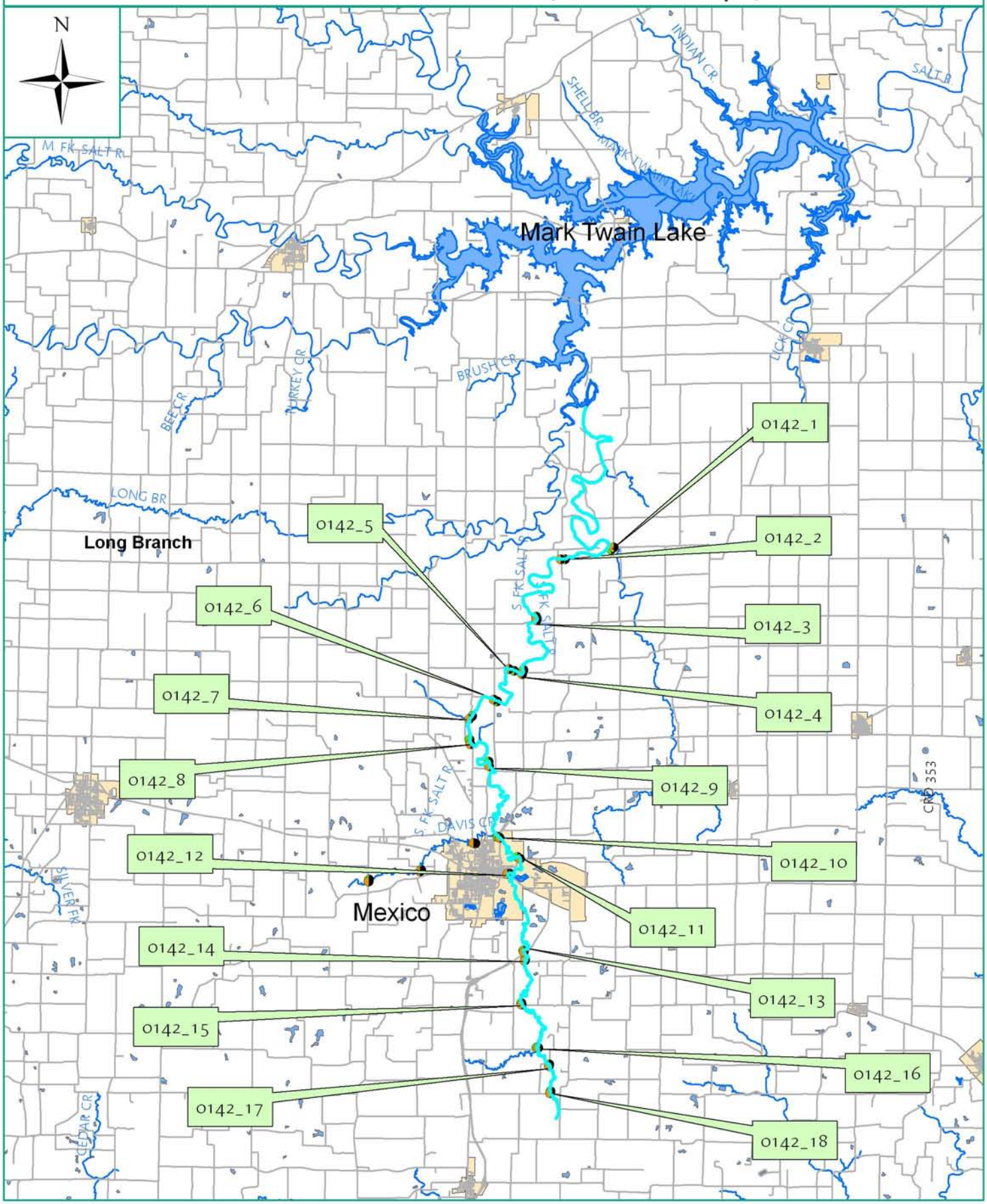
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

RUC 10-3-07

Signed: [illegible] Date: 9/19/07

S. Fk. Salt River (WBID 0142)



Upstream Boundary

Downstream Boundary

Miles

0 1.5 3 6 9 12

WBID 0142
Site 6
U.S.

WBID 0142
Site 7
DNS

WBID 0142
Site 6
DNS

WBID 0142
Site 8
DNS

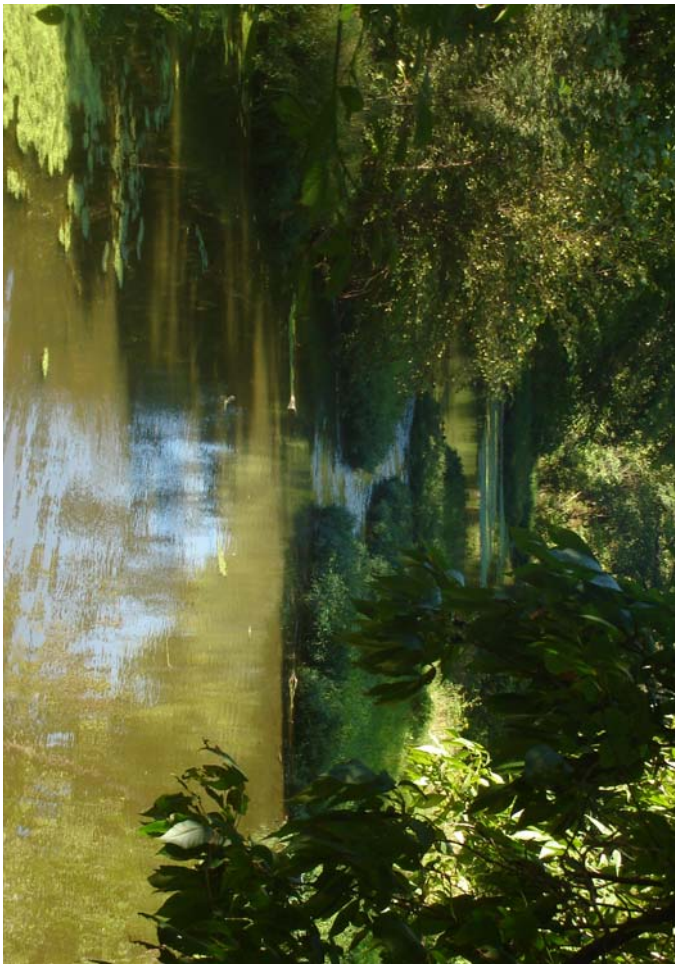
WBID 0142
Site 7
US

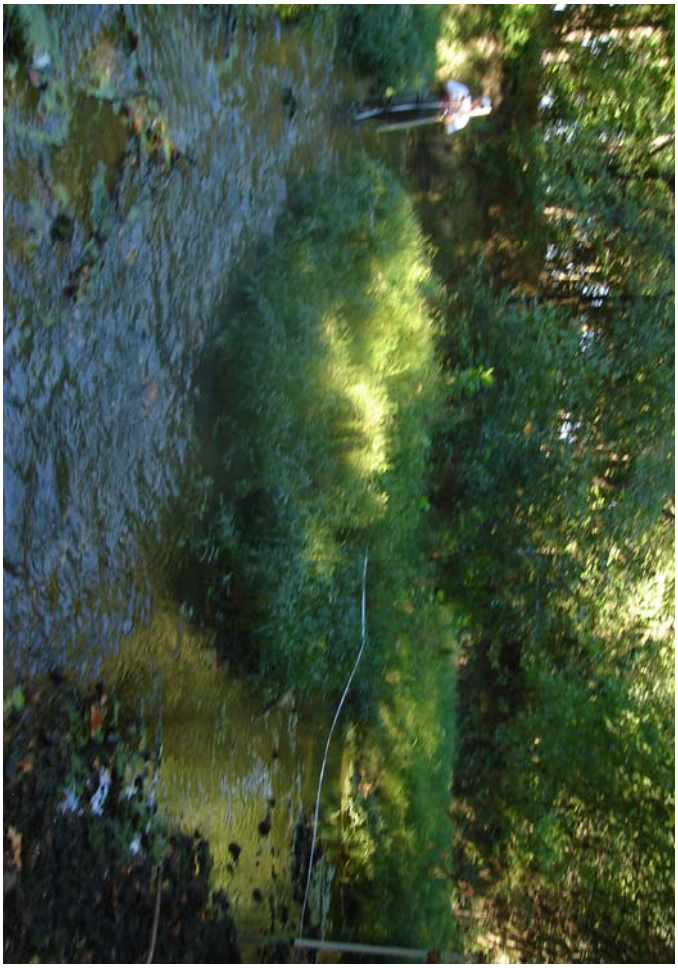
WBID 0142
Site 8
US

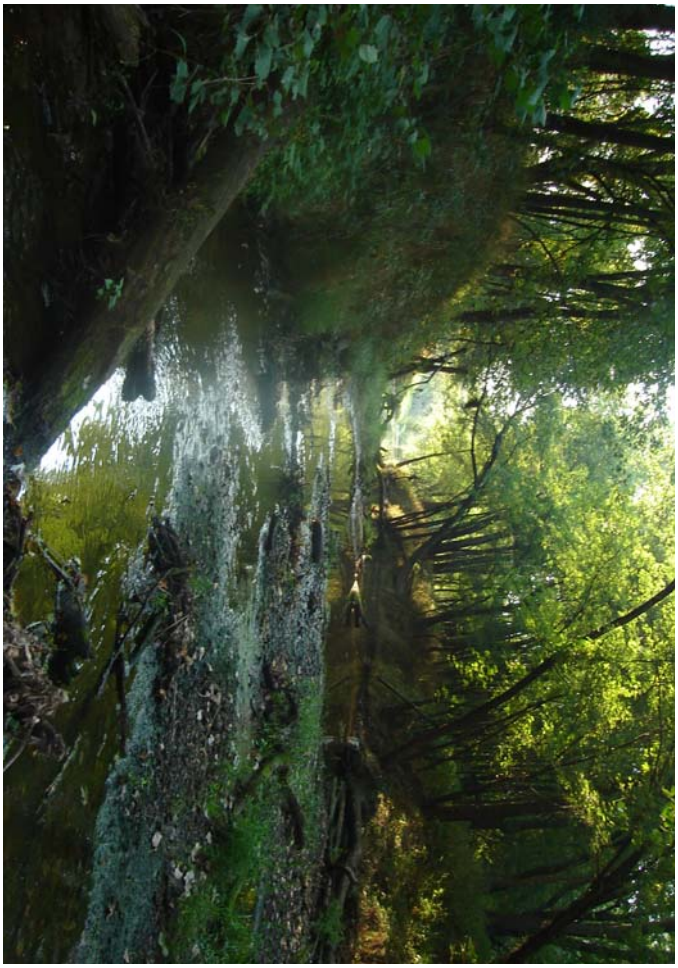
WBID 0142
Site 8
TRN 5 "Road Access"

WBID 0142
Site 9
DNS

WBID 0142
Site 9
U.S.







WBID 0142
Site 12
US

WBID 0142
Site # 13
DNS

WBID 0142
Site 12
DNS

WBID 0142
Site # 14
U.S.

WBID 0142
Site # 15
U.S.

WBID 0142
Site # 13
US

WBID 0142
Site # 14
DNS

NBID 0142
ite #15
anll "Dry"

NBID 0142
Site #16
DNS.

WBID 0142
Site #15
DNS

WBID 0142
Site #16
V.S.

WBID: 0142
Site #17
U.S.

WBID: 0142
Site #17
Tran. #11

WBID 0142
Site #16, Tran 11
"Deer Stand
& Dry"

WBID: 0142
Site #17
DN. S.

WBID 0142
Site#18
DNS

WBID
Site #1
US

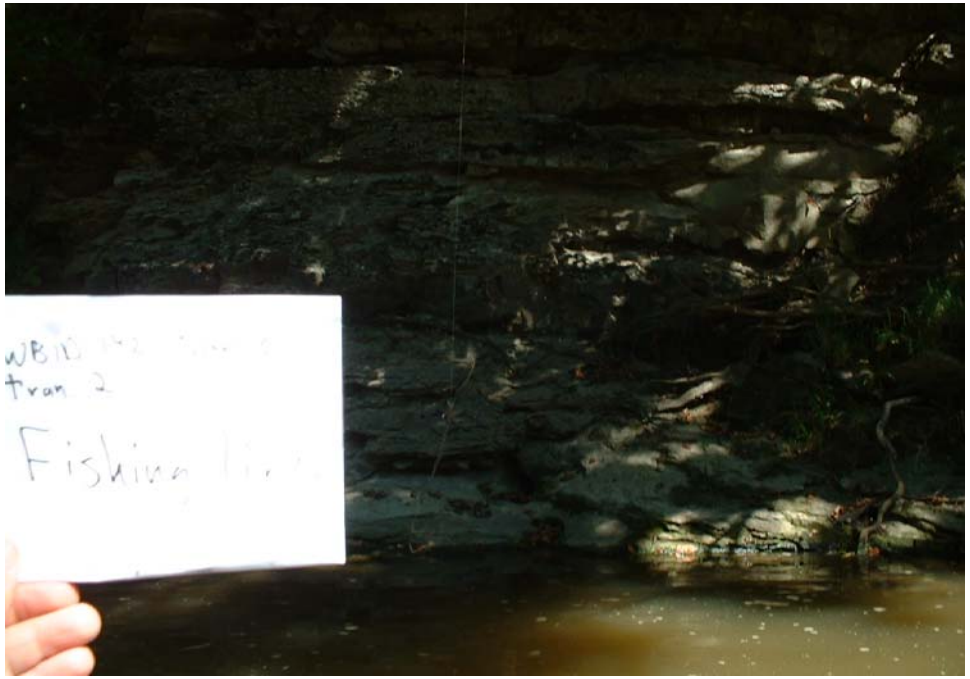
WBID 0142
Site#18
U.S.

WBID 0142
Site#18
Tran# 11 "U.S.

WBID 0142
SITE 2
US

WBID 0142
Site #3
US

WBID 0142
SITE 2
DNS


tran 2

WBID 0142

WBID
142

WBID 0142
Site 3, tran. 2
"Beer Cans"

WBID 0142
Site 3 Tran 9
"Rock Bluff"

WBID 0142
Site 4 U.S.

WBID 0142
Site 3, Tran 8
Foot Path

WBID 0142
Site 4 D.N.S.

WBID 0142
Site 4 @ Bridge
U.S. from Tran 1
"Fire Pit" & "Foot Path"

WBID 0142
Site 5 U.S.

WBID 0142
Site 4, tran 5
"Fishing Bobber"

WBID 0142
Site 4 @ Bridge
U.S. from Tran 1
"Fire Pit" & "Foot Path"

WBID 0142
Site 5 @ Tran 1
"Road Access"

WBID 0142
Site 5 DNS

WBID 0142
Site 5 @ Tran 1
"Road Access"