



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1335 West Fork Clear Creek

Submitted by
Olsson Associates

To
Missouri Department of Natural Resources
Water Protection Program

On
May 30, 2008

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): W. Fk. Clear Cr.
Missouri Water Body Identification (WBID) Number: 1335
8-digit HUC: 10290105
County(ies), Listed Upstream to Downstream: Vernon
Upstream Legal Description (from Table H): 17, 35N, 30W
Downstream Legal Description (from Table H): Mouth
Number of sites evaluated: 7
List all site numbers, <u>consecutively upstream to downstream</u> : 1,2,3,4,5,6,7
Include a Site Location Map(s). The map must include all requirements detailed in the <i>Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol</i> (Section IV.D.8.a).

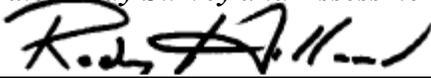
II. Facility Information (list all permitted discharges to this water body segment)

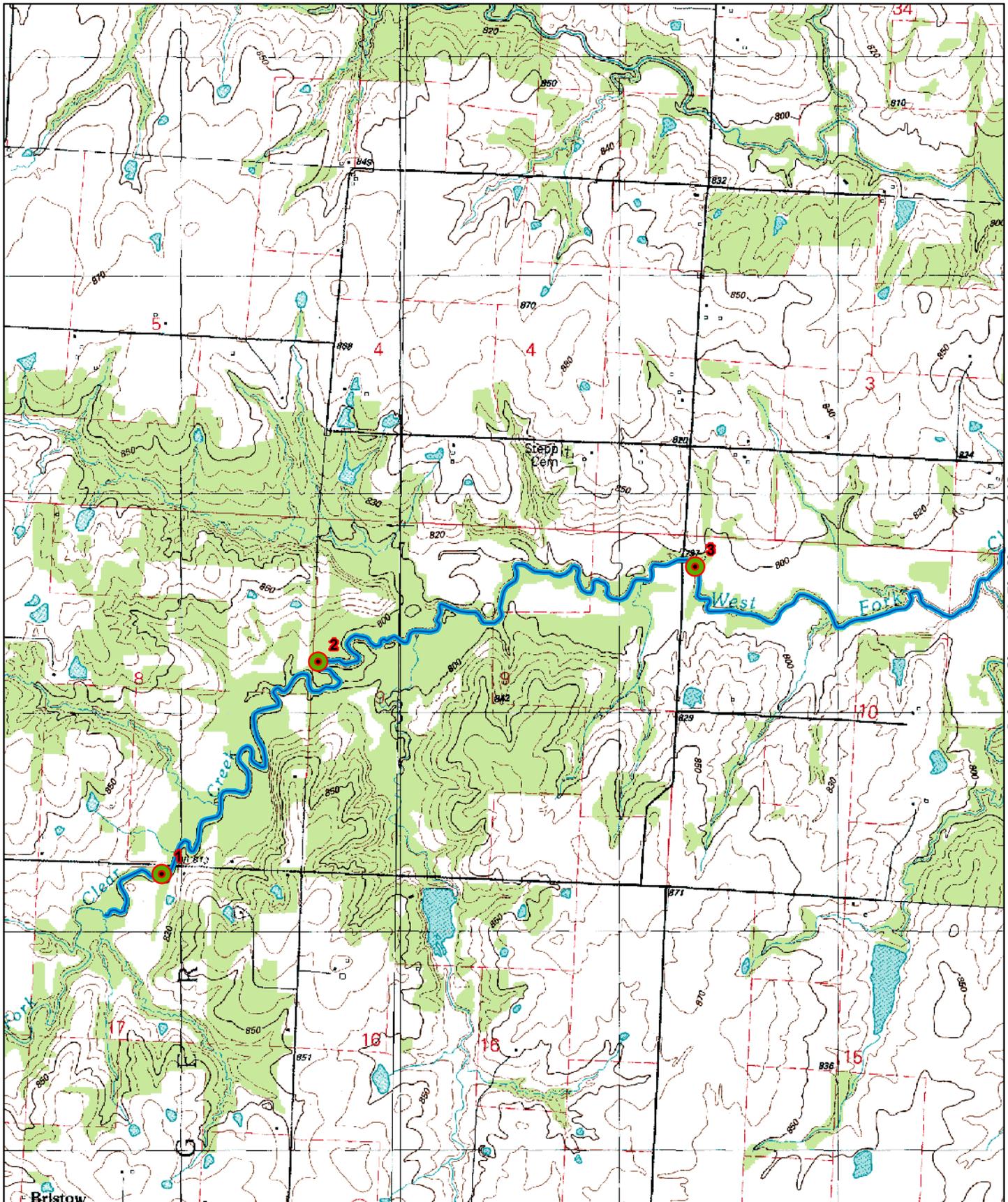
Facility Name(s) and Permit Number(s): MDPS Camp Clark MO-0037052

III. UAA Surveyor (please **PRINT** legibly)

Name of Surveyor: Rodney Holland	Telephone Number: 417-890-8802
Organization/Employer: Olsson Associates	

Please verify that you have completed all sections of all data sheets, checked all applicable boxes, provided a map (that includes all requirements listed in the *Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol*) and that this form is complete.

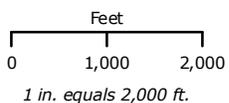
Signed:  Date: 5-21-08

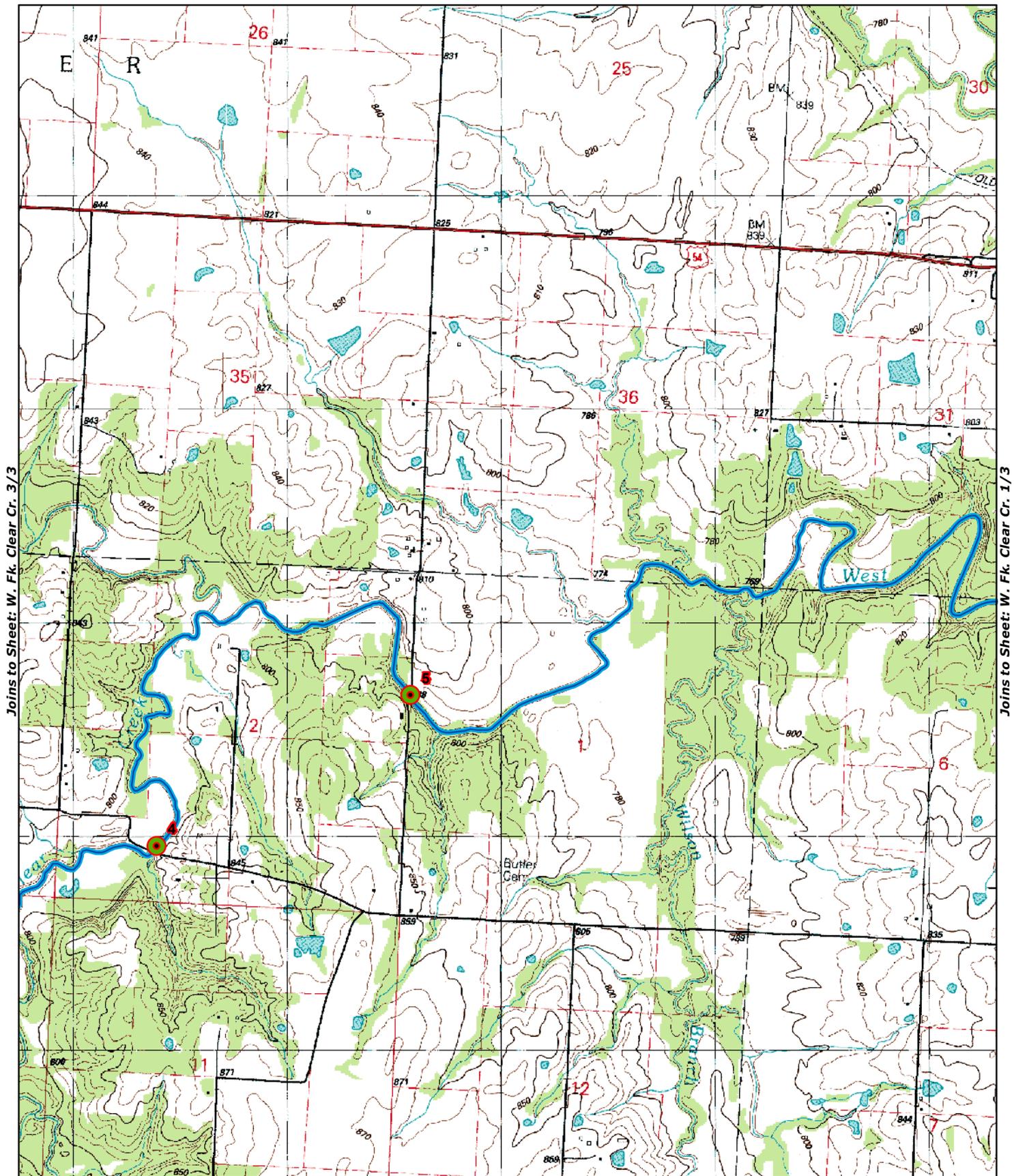


**MISSOURI RECREATIONAL
USE ATTAINABILITY ANALYSIS**

Stream: W. Fk. Clear Cr.
WBID: 1335

Map Sheet: 3/3
County: Vernon





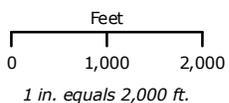
Joins to Sheet: W. Fk. Clear Cr. 3/3

Joins to Sheet: W. Fk. Clear Cr. 1/3

**MISSOURI RECREATIONAL
USE ATTAINABILITY ANALYSIS**

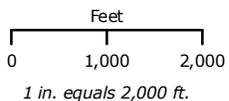
Stream: W. Fk. Clear Cr.
WBID: 1335

Map Sheet: 2/3
County: Vernon





**MISSOURI RECREATIONAL
USE ATTAINABILITY ANALYSIS**



Stream: W. Fk. Clear Cr.
WBID: 1335

Map Sheet: 1/3
County: Vernon



WBID # 1335

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-21-08 3:45 PM	Location Description (e.g., road crossing): 10 METERS DOWNSTREAM OF PANAMA RD BRIDGE
Stream Name: W. FK CLEAR CR	
Current Weather Conditions: SUNNY	Facility Name(s): MDPS Camp Clark
Weather Conditions for Past 10 days: 0.13" @ Nevada	Permit Number(s): MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): 388960	Northing (UTM Y): 4186518	Horizontal Accuracy: (EPE / FOM / PDOP)	100 FT	Meters
Site 11	Easting (UTM X): 389112	Northing (UTM Y): 4186704	Horizontal Accuracy: (EPE / FOM / PDOP)	96 FT	Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-1-A	UPSTREAM LOOKING DOWN	1335-1-B	BRIDGE	1335-1-C	DOWNSTREAM LOOKING UP
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

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

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	30% Gravel	30% Sand	% Silt	40% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

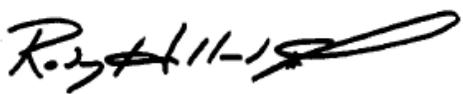
Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses.)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-21-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W. FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>1</u> Estimated Channel Incision: <u>0.4</u> (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: <u>388960</u> UTM Y: <u>4185618</u> +/- <u>100 FT</u> (meters) 11 UTM X: <u>389112</u> UTM Y: <u>4186704</u> +/- <u>89 FT</u> (meters) Average Stream Width: <u>6</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/21/2008</u> Time: <u>3:50 PM</u> Dissolved Oxygen: <u>5.4</u> (mg/L) Dissolved Oxygen: <u>57.7</u> (% sat) Specific Cond: <u>455</u> (µS/cm) Water Temperature: <u>22.4</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	0.32	0.16	0.48	0.21	0.54	0.35	0.60	0.41	0.62	0.13	0.66	0.24	0.63	0.31	0.64	0.25	0.69	0.35	0.58	0.31	0.59	0.11
	2	0.64	0.18	0.96	0.29	1.08	0.60	1.20	0.42	1.24	0.47	1.32	0.49	1.26	0.52	1.28	0.50	1.38	0.72	1.16	0.52	1.18	0.28
	3	0.96	0.20	1.44	0.31	1.62	0.62	1.80	0.68	1.86	0.72	1.98	0.58	1.89	0.60	1.92	0.67	2.07	0.82	1.74	0.49	1.77	0.32
	4	1.28	0.15	1.92	0.28	2.16	0.69	2.40	0.74	2.48	0.81	2.64	0.66	2.52	0.78	2.56	0.80	2.76	0.88	2.32	0.46	2.36	0.35
	5	1.60	0.21	2.40	0.22	2.70	0.68	3.00	0.71	3.10	0.84	3.30	0.72	3.15	0.89	3.20	0.68	3.45	0.75	2.90	0.51	2.95	0.31
	6	1.92	0.24	2.88	0.21	3.24	0.65	3.60	0.69	3.72	0.62	3.96	0.66	3.78	0.91	3.84	0.60	4.14	0.72	3.48	0.44	3.54	0.15
	7	2.24	0.27	3.36	0.12	3.78	0.55	4.20	0.52	4.34	0.65	4.62	0.62	4.41	0.86	4.48	0.52	4.83	0.45	4.06	0.38	4.13	0.16
	8	2.56	0.19	3.84	0.15	4.32	0.38	4.80	0.51	4.96	0.51	5.28	0.69	5.04	0.64	5.12	0.61	5.52	0.36	4.64	0.26	4.72	0.13
	9	2.88	0.11	4.32	0.13	4.86	0.30	5.40	0.24	5.58	0.44	5.94	0.51	5.67	0.48	5.76	0.41	6.21	0.22	5.22	0.22	5.31	0.09
Right Bank		3.20	0.00	4.80	0.00	5.40	0.00	6.00	0.00	6.20	0.00	6.60	0.00	6.30	0.00	6.40	0.00	6.90	0.00	5.80	0.00	5.90	0.00
Feature Type		RUN		RUN		RUN		RUN		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 by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 0.91

MEDIAN 0.47

Surveyor's Signature: _____

Date: 5/21/2008

WBID # 1335

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 7:40 AM	Location Description (e.g., road crossing): PRIVATE PROPERTY
Stream Name: W. FK CLEAR CR	
Current Weather Conditions:OVERCAST	Facility Name(s):MDPS Camp Clark
Weather Conditions for Past 10 days:0.13" @ Nevada	Permit Number(s):MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)				
Site 01	Easting (UTM X): 389635	Northing (UTM Y): 4187283	Horizontal Accuracy: (EPE / FOM / PDOP)	124 FT Meters
Site 11	Easting (UTM X): 389768	Northing (UTM Y): 4187450	Horizontal Accuracy: (EPE / FOM / PDOP)	133 FT Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-2-A	UPSTREAM LOOKING DOWN	1335-2-B	DOWNSTREAM LOOKING UP		
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

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

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	20% Gravel	40% Sand	% Silt	40% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

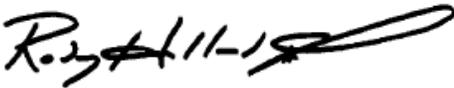
Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses.)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>2</u> Estimated Channel Incision: <u>0.3</u> (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: <u>389639</u> UTM Y: <u>4187283</u> +/- <u>124 FT</u> (meters) 11 UTM X: <u>389768</u> UTM Y: <u>4187450</u> +/- <u>133 FT</u> (meters) Average Stream Width: <u>5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>7:45 AM</u> Dissolved Oxygen: <u>4.87</u> (mg/L) Dissolved Oxygen: <u>53.5</u> (% sat) Specific Cond: <u>37.6</u> (µS/cm) Water Temperature: <u>20.4</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	
	1	0.46	0.08	0.47	0.14	0.44	0.18	0.51	0.13	0.53	0.18	0.49	0.21	0.52	0.15	0.54	0.07	0.53	0.18	0.48	0.16	0.49	0.19
	2	0.92	0.11	0.94	0.21	0.88	0.22	1.02	0.18	1.06	0.21	0.98	0.26	1.04	0.21	1.08	0.08	1.06	0.31	0.96	0.27	0.98	0.21
	3	1.38	0.13	1.41	0.31	1.32	0.28	1.53	0.31	1.59	0.33	1.47	0.38	1.56	0.25	1.62	0.26	1.59	0.46	1.44	0.34	1.47	0.19
	4	1.84	0.15	1.88	0.32	1.76	0.36	2.04	0.18	2.12	0.41	1.96	0.44	2.08	0.23	2.16	0.28	2.12	0.52	1.92	0.41	1.96	0.22
	5	2.30	0.19	2.35	0.22	2.20	0.38	2.55	0.25	2.65	0.52	2.45	0.46	2.60	0.21	2.70	0.27	2.65	0.61	2.40	0.38	2.45	0.26
	6	2.76	0.31	2.82	0.16	2.64	0.41	3.06	0.19	3.18	0.48	2.94	0.43	3.12	0.15	3.24	0.22	3.18	0.59	2.88	0.40	2.94	0.38
	7	3.22	0.33	3.29	0.13	3.08	0.26	3.57	0.17	3.71	0.42	3.43	0.51	3.64	0.26	3.78	0.20	3.71	0.64	3.36	0.32	3.43	0.34
	8	3.68	0.19	3.76	0.12	3.52	0.21	4.08	0.14	4.24	0.36	3.92	0.42	4.16	0.22	4.32	0.16	4.24	0.51	3.84	0.28	3.92	0.41
	9	4.14	0.10	4.23	0.10	3.96	0.05	4.59	0.09	4.77	0.24	4.41	0.36	4.68	0.16	4.86	0.05	4.77	0.38	4.32	0.22	4.41	0.36
Right Bank		4.60	0.00	4.70	0.00	4.40	0.00	5.10	0.00	5.30	0.00	4.90	0.00	5.20	0.00	5.40	0.00	5.30	0.00	4.80	0.00	4.90	0.00
Feature Type		Run		Run		Run		Run		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 by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 0.64

MEDIAN 0.25

Surveyor's Signature: _____

Date: 5/23/2008

WBID # 1335

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 8:20 AM	Location Description (e.g., road crossing): 10 METERS DOWNSTREAM OF CR 2200 BRIDGE
Stream Name: W. FK CLEAR CR	
Current Weather Conditions:OVERCAST	Facility Name(s):MDPS Camp Clark
Weather Conditions for Past 10 days:0.13" @ Nevada	Permit Number(s):MO - 0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): 391306	Northing (UTM Y): 4187874	Horizontal Accuracy: (EPE / FOM / PDOP)	167 FT	Meters
Site 11	Easting (UTM X): 391395	Northing (UTM Y): 4187695	Horizontal Accuracy: (EPE / FOM / PDOP)	152 FT	Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-3-A	UPSTREAM LOOKING DOWN	1335-3-B	BRIDGE	1335-3-C	DOWNSTREAM LOOKING UP
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

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

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	20% Gravel	40% Sand	% Silt	40% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>3</u> Estimated Channel Incision: <u>0.4</u> (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: <u>391306</u> UTM Y: <u>4187874</u> +/- <u>167 FT</u> (meters) 11 UTM X: <u>391395</u> UTM Y: <u>4187695</u> +/- <u>152 FT</u> (meters) Average Stream Width: <u>4.5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>8:25 AM</u> Dissolved Oxygen: <u>5.01</u> (mg/L) Dissolved Oxygen: <u>54.2</u> (% sat) Specific Cond: <u>392</u> (µS/cm) Water Temperature: <u>20.1</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station	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	0.52	0.21	0.48	0.16	0.49	0.21	0.51	0.13	0.47	0.22	0.45	0.19	0.48	0.26	0.51	0.22	0.50	0.31	0.48	0.23	0.46	0.15	
2	1.04	0.31	0.96	0.21	0.98	0.16	1.02	0.18	0.94	0.19	0.90	0.23	0.96	0.34	1.02	0.48	1.00	0.33	0.96	0.22	0.92	0.18	
3	1.56	0.39	1.44	0.32	1.47	0.19	1.53	0.21	1.41	0.31	1.35	0.28	1.44	0.42	1.53	0.54	1.50	0.38	1.44	0.31	1.38	0.18	
4	2.08	0.42	1.92	0.39	1.96	0.17	2.04	0.36	1.88	0.40	1.80	0.21	1.92	0.51	2.04	0.45	2.00	0.30	1.92	0.34	1.84	0.22	
5	2.60	0.50	2.40	0.41	2.45	0.21	2.55	0.42	2.35	0.46	2.25	0.30	2.40	0.60	2.55	0.51	2.50	0.25	2.40	0.26	2.30	0.23	
6	3.12	0.48	2.88	0.32	2.94	0.22	3.06	0.54	2.82	0.44	2.70	0.36	2.88	0.65	3.06	0.38	3.00	0.18	2.88	0.31	2.76	0.22	
7	3.64	0.62	3.36	0.23	3.43	0.27	3.57	0.50	3.29	0.48	3.15	0.27	3.36	0.66	3.57	0.36	3.50	0.21	3.36	0.25	3.22	0.21	
8	4.16	0.65	3.84	0.18	3.92	0.19	4.08	0.48	3.76	0.36	3.60	0.25	3.84	0.67	4.08	0.28	4.00	0.19	3.84	0.18	3.68	0.17	
9	4.68	0.48	4.32	0.15	4.41	0.21	4.59	0.32	4.23	0.29	4.05	0.17	4.32	0.61	4.59	0.21	4.50	0.22	4.32	0.13	4.14	0.10	
Right Bank	5.20	0.00	4.80	0.00	4.90	0.00	5.10	0.00	4.70	0.00	4.50	0.00	4.80	0.00	5.10	0.00	5.00	0.00	4.80	0.00	4.60	0.00	
Feature Type <small>(riffle, run, or pool)</small>	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 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 0.67

MEDIAN 0.28

Surveyor's Signature: _____

Date: 5/23/2008

WBID # 1335

Site # 4

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 9:20 AM	Location Description (e.g., road crossing): 10 METERS DOWNSTREAM OF NUTMEG RD BRIDGE
Stream Name: W. FK CLEAR CR	
Current Weather Conditions: OVERCAST	Facility Name(s): MDPS Camp Clark
Weather Conditions for Past 10 days: 0.13" @ Nevada	Permit Number(s): MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 393378	Northing (UTM Y): 4188157	Horizontal Accuracy: (EPE / FOM / PDOP) 87 FT Meters
Site 11	Easting (UTM X): 393409	Northing (UTM Y): 4188465	Horizontal Accuracy: (EPE / FOM / PDOP) 94 FT Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-4-A	UPSTREAM LOOKING DOWN	1335-4-B	BRIDGE	1335-4-C	DOWNSTREAM LOOKING UP
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 4

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

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

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	50% Gravel	30% Sand	% Silt	20% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 4

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

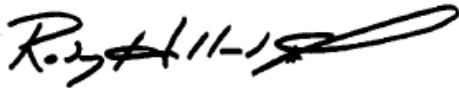
Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses.)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>4</u> Estimated Channel Incision: <u>0.4</u> (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: <u>393378</u> UTM Y: <u>4188157</u> +/- <u>87</u> FT (meters) 11 UTM X: <u>393409</u> UTM Y: <u>4188465</u> +/- <u>94</u> FT (meters) Average Stream Width: <u>5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>9:25 AM</u> Dissolved Oxygen: <u>5.53</u> (mg/L) Dissolved Oxygen: <u>60.1</u> (% sat) Specific Cond: <u>356</u> (µS/cm) Water Temperature: <u>20.8</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	0.32	0.12	0.66	0.11	0.57	0.21	0.54	0.15	0.44	0.13	0.52	0.29	0.57	0.76	0.54	0.11	0.48	0.19	0.52	0.46	0.56	0.38
	2	0.64	0.11	1.32	0.19	1.14	0.36	1.08	0.26	0.88	0.25	1.04	0.37	1.14	0.85	1.08	0.13	0.96	0.23	1.04	0.48	1.12	0.32
	3	0.96	0.08	1.97	0.15	1.71	0.34	1.62	0.29	1.32	0.19	1.56	0.40	1.71	0.70	1.62	0.21	1.44	0.28	1.56	0.55	1.68	0.41
	4	1.28	0.05	2.63	0.17	2.28	0.41	2.16	0.33	1.76	0.28	2.08	0.44	2.28	0.61	2.16	0.26	1.92	0.25	2.08	0.52	2.24	0.56
	5	1.60	0.05	3.29	0.19	2.85	0.38	2.70	0.22	2.20	0.35	2.60	0.39	2.85	0.49	2.70	0.23	2.40	0.32	2.60	0.41	2.80	0.64
	6	1.92	0.07	3.95	0.16	3.42	0.28	3.24	0.28	2.64	0.22	3.12	0.40	3.42	0.23	3.24	0.21	2.88	0.28	3.12	0.30	3.36	0.60
	7	2.24	0.09	4.61	0.21	3.99	0.26	3.78	0.34	3.08	0.18	3.64	0.31	3.99	0.21	3.78	0.22	3.36	0.05	3.64	0.12	3.92	0.51
	8	2.56	0.12	5.26	0.18	4.56	0.31	4.32	0.36	3.52	0.19	4.16	0.22	4.56	0.12	4.32	0.23	3.84	0.09	4.16	0.13	4.48	0.49
	9	2.88	0.10	5.92	0.19	5.13	0.25	4.86	0.29	3.96	0.15	4.68	0.11	5.13	0.15	4.86	0.12	4.32	0.14	4.68	0.19	5.04	0.38
Right Bank		3.20	0.00	6.58	0.00	5.70	0.00	5.40	0.00	4.40	0.00	5.20	0.00	5.70	0.00	5.40	0.00	4.80	0.00	5.20	0.00	5.60	0.00
Feature Type <small>(riffle, run, or pool)</small>		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 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 0.85

MEDIAN 0.25

Surveyor's Signature: _____

Date: 5/23/2008

WBID # 1335

Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 9:55 AM	Location Description (e.g., road crossing): 10 METERS DOWNSTREAM OF CR 2400 BRIDGE
Stream Name: W. FK CLEAR CR	
Current Weather Conditions: OVERCAST	Facility Name(s): MDPS Camp Clark
Weather Conditions for Past 10 days: 0.13" @ Nevada	Permit Number(s): MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 394593	Northing (UTM Y): 4188850	Horizontal Accuracy: (EPE / FOM / PDOP) 164 FT Meters
Site 11	Easting (UTM X): 394840	Northing (UTM Y): 4188675	Horizontal Accuracy: (EPE / FOM / PDOP) 186 FT Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-5-A	UPSTREAM LOOKING DOWN	1335-5-B	BRIDGE	1335-5-C	DOWNSTREAM LOOKING UP
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

Evidence of Human Use*: (Attach photos and reference in “Photos” section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	60% Gravel	20% Sand	% Silt	20% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

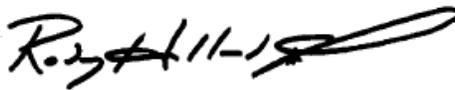
Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses.)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>5</u> Estimated Channel Incision: <u>0.4</u> (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: <u>394593</u> UTM Y: <u>4188850</u> +/- <u>164 FT</u> (meters) 11 UTM X: <u>394840</u> UTM Y: <u>41888675</u> +/- <u>186 FT</u> (meters) Average Stream Width: <u>7.5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>9:59 AM</u> Dissolved Oxygen: <u>5.62</u> (mg/L) Dissolved Oxygen: <u>62</u> (% sat) Specific Cond: <u>858</u> (µS/cm) Water Temperature: <u>22.1</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	0.69	0.38	0.72	0.51	0.74	0.42	0.71	0.36	0.76	0.21	0.83	0.34	0.81	0.41	0.79	0.38	0.86	0.52	0.84	0.21	0.87	0.36
	2	1.38	0.69	1.44	0.94	1.48	0.76	1.42	0.52	1.52	0.48	1.66	0.62	1.62	0.82	1.58	0.69	1.72	0.49	1.68	0.55	1.74	0.61
	3	2.07	0.91	2.16	1.00	2.22	0.89	2.13	0.74	2.28	0.79	2.49	0.89	2.43	1.00	2.37	0.84	2.58	1.00	2.52	0.82	2.61	0.93
	4	2.76	1.00	2.88	1.00	2.96	0.94	2.84	0.89	3.04	0.84	3.32	1.00	3.24	1.00	3.16	0.78	3.44	1.00	3.36	1.00	3.48	1.00
	5	3.45	1.00	3.60	1.00	3.70	1.00	3.55	0.91	3.80	1.00	4.15	1.00	4.05	1.00	3.95	0.91	4.30	0.86	4.20	1.00	4.35	1.00
	6	4.14	1.00	4.32	1.00	4.44	1.00	4.26	0.96	4.56	1.00	4.98	1.00	4.86	0.98	4.74	0.88	5.16	0.74	5.04	1.00	5.22	0.96
	7	4.83	1.00	5.04	0.98	5.18	1.00	4.97	0.93	5.32	0.96	5.81	1.00	5.67	0.76	5.53	0.37	6.02	0.52	5.88	1.00	6.09	0.71
	8	5.52	0.86	5.76	0.81	5.92	0.87	5.68	0.71	6.08	0.62	6.64	0.94	6.48	0.51	6.32	0.54	6.88	0.36	6.72	0.66	6.96	0.53
9	6.21	0.44	6.48	0.38	6.66	0.52	6.39	0.54	6.84	0.41	7.47	0.78	7.29	0.44	7.11	0.49	7.74	0.22	7.56	0.31	7.83	0.44	
Right Bank		6.90	0.00	7.20	0.00	7.40	0.00	7.10	0.00	7.60	0.00	8.30	0.00	8.10	0.00	7.90	0.00	8.60	0.00	8.40	0.00	8.70	0.00
	Feature Type <small>(riffle, run, or pool)</small>	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 0.1 meter unless depth is too deep to measure (then record as > 1)
 All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 1.00
 MEDIAN 0.84

Surveyor's Signature: _____

Date: 5/23/2008

WBID # 1335

Site # 6

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 10:35 AM	Location Description (e.g., road crossing): PRIVATE PROPERTY
Stream Name: W. FK CLEAR CR	
Current Weather Conditions: OVERCAST	Facility Name(s): MDPS Camp Clark
Weather Conditions for Past 10 days: 0.13" @ Nevada	Permit Number(s): MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)				
Site 01	Easting (UTM X): 399561	Northing (UTM Y): 4189227	Horizontal Accuracy: (EPE / FOM / PDOP)	42 FT Meters
Site 11	Easting (UTM X): 400027	Northing (UTM Y): 4189586	Horizontal Accuracy: (EPE / FOM / PDOP)	62 FT Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-6-A	UPSTREAM LOOKING DOWN	1335-6-B	DOWNSTREAM LOOKING UP		
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 6

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

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

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

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

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 6

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>6</u> Estimated Channel Incision: <u>0.6</u> (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: <u>399561</u> UTM Y: <u>4189227</u> +/- <u>42 FT</u> (<u>meters</u>) 11 UTM X: <u>400027</u> UTM Y: <u>4189586</u> +/- <u>62 FT</u> (<u>meters</u>) Average Stream Width: <u>6.5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>10:40 AM</u> Dissolved Oxygen: <u>5.68</u> (mg/L) Dissolved Oxygen: <u>62.5</u> (% sat) Specific Cond: <u>508</u> (µS/cm) Water Temperature: <u>23.8</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	0.58	0.25	0.62	0.21	0.63	0.34	0.61	0.19	0.65	0.31	0.69	0.42	0.73	0.36	0.71	0.62	0.69	0.31	0.67	0.73	0.71	0.68
	2	1.16	0.40	1.24	0.35	1.26	0.48	1.22	0.31	1.30	0.29	1.38	0.41	1.46	0.66	1.42	1.00	1.38	0.57	1.34	1.00	1.42	1.00
	3	1.74	0.51	1.86	0.59	1.89	0.86	1.83	0.56	1.95	0.61	2.07	0.59	2.19	0.82	2.13	1.00	2.07	0.73	2.01	1.00	2.13	1.00
	4	2.32	0.62	2.48	0.76	2.52	1.00	2.44	0.69	2.60	0.74	2.76	0.67	2.92	0.88	2.84	0.71	2.76	0.92	2.68	0.99	2.84	1.00
	5	2.90	0.82	3.10	0.91	3.15	1.00	3.05	0.86	3.25	0.91	3.45	0.80	3.65	0.89	3.55	0.73	3.45	0.98	3.35	0.96	3.55	1.00
	6	3.48	0.95	3.72	1.00	3.78	1.00	3.66	0.76	3.90	1.00	4.14	0.94	4.38	0.72	4.26	0.83	4.14	0.63	4.02	0.82	4.26	0.86
	7	4.06	0.81	4.34	1.00	4.41	1.00	4.27	0.79	4.55	1.00	4.83	0.86	5.11	0.58	4.97	0.51	4.83	0.68	4.69	0.58	4.97	0.71
	8	4.64	0.73	4.96	1.00	5.04	0.78	4.88	0.54	5.20	0.71	5.52	0.78	5.84	0.43	5.68	0.29	5.52	0.51	5.36	0.38	5.68	0.64
	9	5.22	0.62	5.58	0.71	5.67	0.66	5.49	0.48	5.85	0.64	6.21	0.69	6.57	0.33	6.39	0.18	6.21	0.33	6.03	0.22	6.39	0.55
Right Bank		5.80	0.00	6.20	0.00	6.30	0.00	6.10	0.00	6.50	0.00	6.90	0.00	7.30	0.00	7.10	0.00	6.90	0.00	6.70	0.00	7.10	0.00
Feature Type		RUN		RUN		RUN		RUN		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 by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 1.00

MEDIAN 0.71

Surveyor's Signature: _____

Date: 5/23/2008

WBID # 1335

Site # 7

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: 5-23-08 11:10 AM	Location Description (e.g., road crossing): 10 METERS DOWNSTREAM OF HWY K BRIDGE
Stream Name: W. FK CLEAR CR	
Current Weather Conditions: OVERCAST	Facility Name(s): MDPS Camp Clark
Weather Conditions for Past 10 days: 0.13" @ Nevada	Permit Number(s): MO-0037052
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)				
Site 01	Easting (UTM X): 400403	Northing (UTM Y): 4189494	Horizontal Accuracy: (EPE / FOM / PDOP)	123FT Meters
Site 11	Easting (UTM X): 400709	Northing (UTM Y): 4189511	Horizontal Accuracy: (EPE / FOM / PDOP)	162 FT Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1335-7-A	UPSTREAM LOOKING DOWN	1335-7-B	HWY K BRIDGE	1335-7-C	DOWNSTREAM LOOKING UP
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 the time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

Site # 7

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:
Comments: PRIVATE PROPERTY				

Evidence of Human Use*: (Attach photos and reference in “Photos” section.)

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input checked="" type="checkbox"/> None of the above	Comments / Other:			

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

% Cobble	30% Gravel	20% Sand	% Silt	50% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

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

*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 affect another use.

Site # 7

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

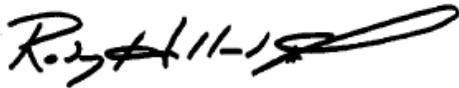
Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses.)

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.

Printed Names of Personnel Collecting Data: Rodney Holland, Christopher Parks

Surveyor's Signature:  Date of Survey: 5-23-08

Organization: Olsson Associates Position: Field Team Leader & Field Team Member

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>W FK CLEAR CR</u> Waterbody ID: <u>1335</u> Site #: <u>7</u> Estimated Channel Incision: <u>0.4</u> (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: <u>400403</u> UTM Y: <u>4189494</u> +/- <u>123 FT</u> (meters) 11 UTM X: <u>400709</u> UTM Y: <u>4189511</u> +/- <u>162 FT</u> (meters) Average Stream Width: <u>6.5</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Rodney Holland and Christopher Parks</u>	Dissolved Oxygen Date: <u>5/23/2008</u> Time: <u>11:15 AM</u> Dissolved Oxygen: <u>5.57</u> (mg/L) Dissolved Oxygen: <u>62.4</u> (% sat) Specific Cond: <u>542</u> (µS/cm) Water Temperature: <u>22.6</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		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	
	1	0.61	0.18	0.64	0.22	0.73	0.25	0.58	0.15	0.69	0.21	0.66	0.23	0.68	0.36	0.64	0.28	0.71	0.14	0.67	0.39	0.66	0.25
	2	1.22	0.24	1.28	0.29	1.46	0.43	1.16	0.21	1.38	0.31	1.32	0.41	1.36	0.49	1.28	0.30	1.42	0.21	1.34	0.48	1.32	0.47
	3	1.83	0.39	1.92	0.42	2.19	0.51	1.74	0.38	2.07	0.36	1.98	0.51	2.04	0.62	1.92	0.29	2.13	0.26	2.01	0.46	1.98	0.42
	4	2.44	0.41	2.56	0.52	2.92	0.60	2.32	0.49	2.76	0.49	2.64	0.51	2.72	0.49	2.56	0.38	2.84	0.45	2.68	0.38	2.64	0.48
	5	3.05	0.59	3.20	0.62	3.65	0.69	2.90	0.44	3.45	0.55	3.30	0.37	3.40	0.91	3.20	0.37	3.55	0.36	3.35	0.33	3.30	0.53
	6	3.66	0.58	3.84	0.60	4.38	0.81	3.48	0.38	4.14	0.53	3.96	0.32	4.08	0.86	3.84	0.32	4.26	0.25	4.02	0.19	3.96	0.41
	7	4.27	0.51	4.48	0.42	5.11	0.76	4.06	0.40	4.83	0.51	4.62	0.46	4.76	0.88	4.48	0.31	4.97	0.34	4.69	0.39	4.62	0.35
	8	4.88	0.49	5.12	0.41	5.84	0.69	4.64	0.36	5.52	0.33	5.28	0.28	5.44	0.66	5.12	0.21	5.68	0.22	5.36	0.41	5.28	0.13
	9	5.49	0.42	5.76	0.41	6.57	0.50	5.22	0.22	6.21	0.23	5.94	0.09	6.12	0.51	5.76	0.11	6.39	0.17	6.03	0.26	5.94	0.06
Right Bank		6.10	0.00	6.40	0.00	7.30	0.00	5.80	0.00	6.90	0.00	6.60	0.00	6.80	0.00	6.40	0.00	7.10	0.00	6.70	0.00	6.60	0.00
Feature Type <small>(riffle, run, or pool)</small>		RUN		RUN		RUN		RUN		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 by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.1 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

MAXIMUM 0.91

MEDIAN 0.39

Surveyor's Signature: _____

Date: 5/23/2008

