Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1205 Little Tebo Creek

Submitted by
MEC Water Resources

To
Missouri Department of Natural Resources
Water Protection Program

On
December 1, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A – Water Body Identification

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

Water Body Name (from USGS 7.5' quad):	Little Tebo Creek
Missouri Water Body Identification (WBID) Number:	1209
8-digit HUC: 10290105	County: Benton
Upstream Legal Description (from Table H):	29, 42N, 22W
Downstream Legal Description (from Table H):	Mouth
Number of sites evaluated:	3
List all sites numbers, listed consequently upstream to downstream: 1, 2, +3	

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

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

Facility Name(s) and Permit Number(s):
Lincoln WWTP MO0120227
Country Acres MHP MO0117200

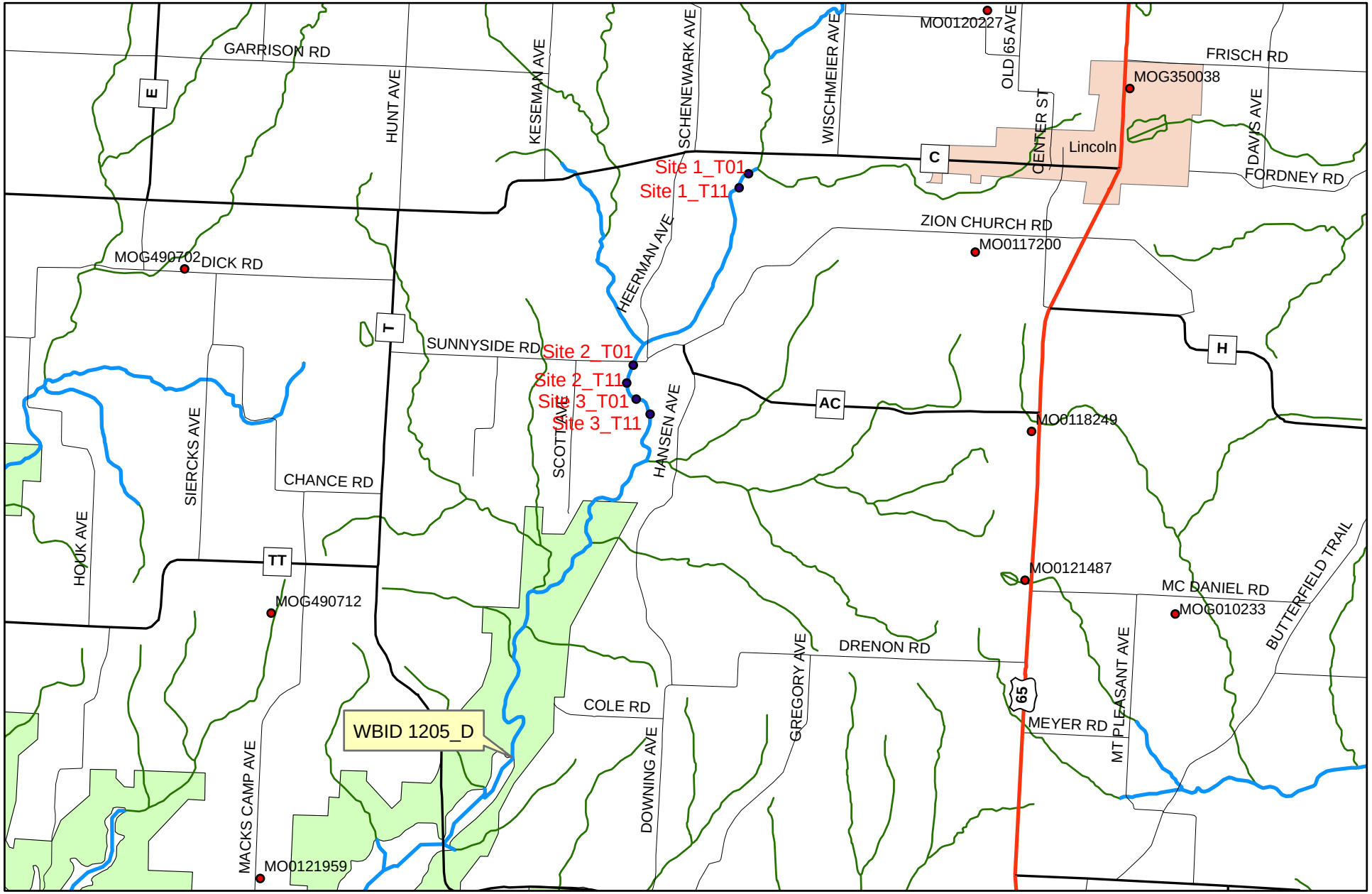
III. UAA Surveyor (please print legibly)

Name of Surveyor Abigail L Welschmeyer	Telephone Number: (573) 634-7078
Organization/Employer: SIRC	

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

Signed: Abigail L Welschmeyer **Date:** 10/17/07

WBID 1205 L. Tebo Creek - Benton County



WBID # 1209

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/17/07 08:50	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): AW & TH	Hwy C @ bridge downstream of fork
Current Weather Conditions: 65° cloudy	Facility Name: Lincoln WWTP / Country Acres MHP
Weather Conditions for Past 10 days:	Permit Number: MO0120227 MO0117200
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): 15 504607077	Northing (UTM Y): 4249149	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 10
Site 11	Easting (UTM X): 15 504606971	Northing (UTM Y): 4248990	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 9

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
K-015	downstream T-1	K-016	upstream T-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.)

WBID # 1205

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:
Comments: Wooded				

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

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

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

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

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

30% cover large mats of filamentous algae

Water Characteristics*: (Mark all that apply.)

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

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

WBID # 1209

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.)

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

Surveyor's Signature: _____ Date of Survey: 10/17/07

Organization: ERE Position: Field Manager

15 down T-1

16 up T-1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 1205 Site #: 1

Estimated Channel Incision: .30 (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: 15S 0467077	UTM Y: 4249149	+/- 10	(meters)	92
11	UTM X: 15S 0466971	UTM Y: 4248990	+/- 9	(meters)	93

Average Stream Width: 8.0 (meters) (To determne Length of Reach)

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

Field Staff: AW + TH

Dissolved Oxygen

Date: 10/17/07 Time: 8:50

Dissolved Oxygen: 7.46 (mg/L)

Dissolved Oxygen: 76.7 (% sat)

Specific Cond: 472 (µS/cm)

Water Temperature: 16.71 (°C)

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	.88	.10	.91	.26	1.08	.28	.97	.20	.41	.11	.57	.07	.27	.02	.53	.12	.4	.02	.56	.04	.49	.04
2	1.76	.07	1.82	.28	2.16	.29	1.94	.27	.82	.07	1.14	.12	.54	.04	1.06	.12	.8	.03	1.12	.09	.98	.05
3	2.64	.10	2.73	.30	3.24	.30	2.91	.27	1.23	.09	1.71	.18	.81	.06	1.59	.12	1.2	.12	1.68	.12	1.47	.03
4	3.52	.14	3.64	.25	4.32	.34	3.88	.30	1.64	.10	2.28	.15	1.08	.05	2.12	.15	1.6	.09	2.24	.16	1.96	.12
5	4.4	.11	4.55	.20	5.4	.40	4.85	.37	2.05	.12	2.85	.20	1.35	.03	2.65	.09	2	.10	2.8	.15	2.45	.17
6	5.28	.14	5.46	.21	6.48	.33	5.82	.36	2.46	.12	3.42	.16	1.62	.08	3.18	.12	2.4	.04	3.36	.18	2.94	.19
7	6.16	.13	6.37	.25	7.56	.34	6.79	.34	2.87	.09	3.99	.17	1.89	.02	3.71	.08	2.8	.18	3.92	.20	3.43	.15
8	7.04	.11	7.28	.23	8.64	.38	7.76	30	3.28	.03	4.56	.15	2.16	.04	4.24	.19	3.2	.02	4.48	.16	3.92	.04
9	7.92	.13	8.19	.25	9.72	.30	8.73	.32	3.69	.07	5.13	.19	2.43	.04	4.77	.17	3.6	.02	5.04	.14	4.41	.03
Right Bank	8.8	0	9.1	0	10.8	0	9.7	0	4.1	0	5.7	0	2.7	0	5.3	0	4.0	0	5.6	0	4.9	0
Feature Type (riffle, run, or pool)	run		run		run		run		run		run		riffle		run		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.

Signed: [signature] Date: 10/17/07

WBID # 1205

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/17/07 09:29	Site Location Description (e.g., road crossing): Sunnyside Rd downstream @ bridge
Personnel (Data Collectors): AW + TH	
Current Weather Conditions: 65° cloudy	Facility Name: Lincoln WWTP / Country Acres MHP
Weather Conditions for Past 10 days:	Permit Number: MO 0120227 MO 0117200
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): 1950469775	Northing (UTM Y): 4246986	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 9
Site 11	Easting (UTM X): 1950469708	Northing (UTM Y): 4246789	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 7

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
K-017	downstream T-1	K-018	upstream T-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.)

WBID # 1205

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: pasture + wooded 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: NONE				

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

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

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

20% cover some algae mat 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:
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 # 1205

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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

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

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/7/07

Organization: ERC Position: Field Manager

K Pn 17 T-1
Kup 18 T-1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 1205 Site #: 1

Estimated Channel Incision: .3 (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: 155 0465725 UTM Y: 4246986 +/- 9 (meters) 94

11 UTM X: 155 0469703 UTM Y: 4246785 +/- 7 (meters) 95

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

Length of Survey Segment: 200 (meters) (20x average stream width)

Field Staff: AW + TH

Dissolved Oxygen

Date: 10/17/07 Time: 09:29

Dissolved Oxygen: 8.21 (mg/L)

Dissolved Oxygen: 85.7 (% sat)

Specific Cond: 475 (µS/cm)

Water Temperature: 17.35 (°C)

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	.91	.18	.81	.09	.84	.04	1.28	.03	1.67	.02	1.35	.68	1.26	.09	1.07	.10	.92	.20	.56	.45	1.38	.16
2	1.82	.29	1.62	.15	1.68	.07	2.56	.02	1.34	.02	2.7	.71	2.52	.18	2.14	.19	1.84	.10	1.12	.40	2.76	.40
3	2.73	.42	2.43	.22	2.52	.07	3.84	.06	2.01	.05	4.05	.73	3.78	.20	3.21	.17	2.76	.05	1.68	.28	4.14	.59
4	3.64	.49	3.24	.28	3.36	.02	5.12	0	2.68	.02	5.4	.37	5.04	.20	4.28	.20	3.68	.13	2.24	.22	5.52	.50
5	4.55	.50	4.05	.30	4.2	.01	6.4	0	3.35	.02	6.25	.31	6.3	.20	5.35	.20	4.6	.11	2.8	.75	6.9	.60
6	5.46	.29	4.86	.19	5.04	.01	7.68	0	4.02	.04	8.1	.27	7.56	.20	6.42	.20	5.52	.04	3.36	.14	8.28	.53
7	6.37	.39	5.67	.20	5.88	.08	8.96	.02	4.69	.03	9.45	.14	8.82	.20	7.49	.16	6.44	.06	3.92	.16	9.66	.53
8	7.28	.36	6.48	.23	6.72	.12	10.24	.08	5.36	.03	10.8	.07	10.08	.18	8.56	.11	7.36	.07	4.48	.07	11.04	.45
9	8.19	.23	7.29	.25	7.56	.10	11.52	.14	6.03	.01	12.15	.09	11.34	.12	9.63	.08	8.38	.03	5.04	.03	12.42	.23
Right Bank	9.1	0	8.1	0	8.4	0	12.8	0	6.7	0	13.5	0	12.6	0	10.7	0	9.2	0	5.6	0	13.8	0
Feature Type (riffle, run, or pool)	pool		pool		run		riffle		riffle		pool		run		run		riffle		pool		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.

Signed: Alyssa Wilson Date: 10/17/07

WBID # 1205
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/17/07 9:55	Site Location Description (e.g., road crossing): CR Sunnyside Rd downstream of site 2
Personnel (Data Collectors): AW + TH	
Current Weather Conditions: 65° clouds changed mind	Facility Name: Lincoln WWTP/Country Acres MHP
Weather Conditions for Past 10 days:	Permit Number: NO0120227 NO0117200
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): 1550469809	Northing (UTM Y): 4246602	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 8
Site 11	Easting (UTM X): 1550469906	Northing (UTM Y): 4246433	Horizontal Accuracy: (EPE / FOM / PDOP)	Meters 6

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
K-019	downstream T-1	K-020	deep pool	K-021	pool 50m long
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
K-022	upstream T-11				
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 # 1209

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: pasture + wooded				

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

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

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

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

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

less than 10%

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 # 1205

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)
pool TS & TO+	400+	15m	50m	.90	1.3

Comments: (Please record any additional comments here.)

pics K-021 & K-020 are pics of pool

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

Surveyor's Signature: Alyssa Z Wilson Date of Survey: 10/12/07

Organization: ERC Position: Field Manager

19 dn
20 travis dep
21 pool somlong
22

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 1205 Site #: 03

Estimated Channel Incision: .1 (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: 155 0465809	UTM Y: 4246602	+/- 8 (meters)	96
11	UTM X: 155 0465966	UTM Y: 4246433	+/- 6 (meters)	97

Average Stream Width: 16 (meters) (To determne Length of Reach)

Length of Survey Segment: 200 (meters) (20x average stream width)

Field Staff: AW + TH

Dissolved Oxygen

Date: 10-17-07 Time: 9:55

Dissolved Oxygen: 7.84 (mg/L)

Dissolved Oxygen: 81.3 (% sat)

Specific Cond: 446 (µS/cm)

Water Temperature: 12.10 (°C)

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	1.15	.24	1.23	.07	.36	.07	1.42	.24	1.45	>1	1.55	>1	.24	.07	.31	.04	.46	.07	.64	.07	.49	.02
2	2.30	.36	2.46	.12	.72	.08	2.84	.32	2.9	>1	3.1	>1	.48	.12	.62	.01	.92	.10	1.28	.12	.98	.03
3	3.45	.49	3.69	.17	1.08	.10	4.26	.39	4.35	>1	4.65	>1	.72	.12	.93	0	1.38	.22	1.92	.12	1.47	.02
4	4.6	.44	4.92	.12	1.44	.08	5.68	.50	5.8	>1	6.2	>1	.96	.07	1.24	.07	1.84	.38	2.56	.09	1.96	.04
5	5.75	.42	6.15	.36	1.8	.06	7.1	.61	7.25	.14	7.75	>1	1.2	.13	1.55	.06	2.3	.55	3.2	.10	2.45	.11
6	6.9	.40	7.38	.37	2.16	.05	8.52	.58	8.7	.94	9.3	.97	1.44	.08	1.86	.08	2.76	.66	3.84	.13	2.94	.13
7	8.05	.37	8.61	.35	2.52	.04	9.94	.59	10.15	.70	10.85	.59	1.68	.09	2.17	.07	3.22	.66	4.48	.14	3.43	.27
8	9.2	.35	9.84	.42	2.88	.10	11.36	.52	11.6	.42	12.4	.49	1.92	.07	2.48	.05	3.68	.55	5.12	.14	3.92	.33
9	10.35	.19	11.07	.26	3.24	.09	12.78	.21	13.05	.15	13.95	.29	2.16	.03	2.79	.01	4.14	.49	5.76	.17	4.41	.31
Right Bank	11.5	0	12.3	0	3.6	0	14.2	0	14.5	0	15.5	0	2.4	0	3.1	0	4.6	0	6.4	0	4.9	0
Feature Type (riffle, run, or pool)	pool		run		riffle		pool		pool		pool		riffle		riffle		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.

Signed: Alyssa L Wilcox Date: 10/17/07