

Use Attainability Analysis

for

WBID 3509 Tributary to Flat Creek

Submitted by  
City of Smithton

To  
Missouri Department of Natural Resources  
Water Protection Program

RECEIVED

JUL 13 2005

WATER PROTECTION PROGRAM

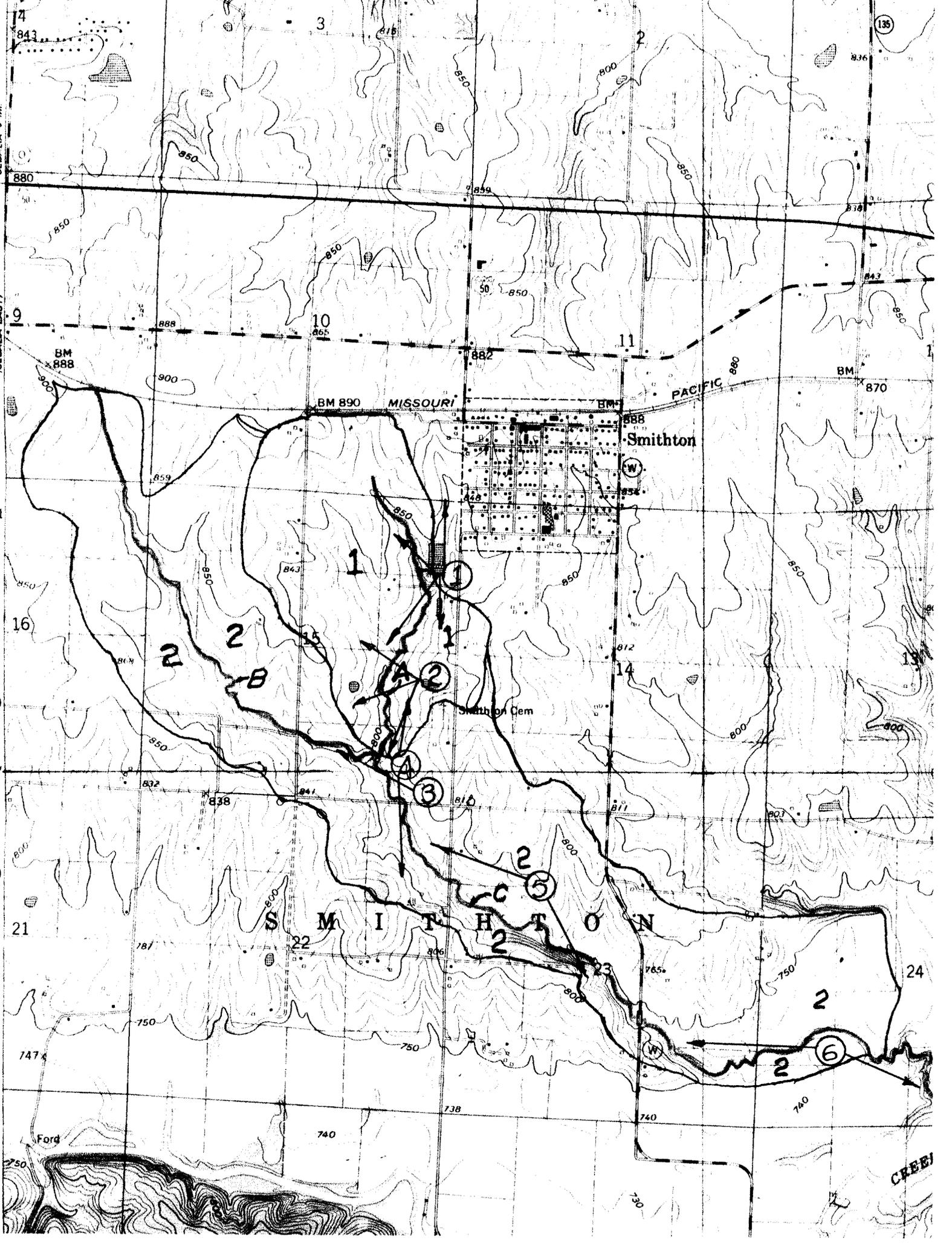
Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet A - Water Body Identification

Water Body Name: (from USGS 7.5' quad)	Trib. To Flat CR 2
8-digit HUC:	10300103
Missouri WBID #:	3509
County:	Pettis
Upstream Legal Description:	Laminee River Basin
Downstream Legal Description:	Unnamed Trib
Upstream Coordinates: (UGS 84, ddd.dddd)	78-03-97-0E 115-45-267 N
Downstream Coordinates: (UGS 84, ddd.dddd)	78-10-74SE 115-40-222 N
Discharger Facility Name(s):	Smithton Lagoon
Discharger Permit Number(s):	MO 0025828
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	Paul Williams 660-343-5444
Organization:	City of Smithton
Position:	Wastewater Worker

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Paul Williams Date: 7-12-05



**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <b>3509</b>	Site Location Description: <b>#1</b>	
Site GPS Coordinates: <b>38-03-47-08 115-45-267 N</b>		
Date & Time: <b>30 JUNE 05</b>	Facility Name: <b>Smithton Lagoon</b>	
Personnel: <b>WILLIAMS</b>	Permit Number: <b>MO 0025828</b>	
Current Weather Conditions: <b>Sunny 90°</b>	Weather Conditions for Past 7 days: <b>SUNNY + HOT</b>	
Photo Ids: Upstream:	Downstream:	Other:

**Uses Observed\*:**

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, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

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

**Evidence of Human Use\*:**

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

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

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**Stream Morphology:**

**Upstream View Physical Dimensions:**

Rifle	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):	

**Downstream View Physical Dimensions:**

Rifle	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft):	Length (ft):		Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):	

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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Signed: Paul Williams Date: 7-12-05

Organization: CITY OF SMITHTON Position: \_\_\_\_\_

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <b>3509</b>	Site Location Description:	
Site GPS Coordinates: <b>78-05-174E 115-45-830N</b>	<b># 2 KAHR'S FARM</b>	
Date & Time: <b>30 JUNE 05 12:15</b>	Facility Name: <b>Smithton Lagoon</b>	
Personnel: <b>WILLIAMS</b>	Permit Number: <b>MO 0025828</b>	
Current Weather Conditions: <b>SUNNY 90°</b>	Weather Conditions for Past 7 days: <b>SUNNY + HOT</b>	
Photo Ids: Upstream:	Downstream: <b>X</b>	Other:

**Uses Observed\*:**

Swimming	Skin diving	SCUBA diving	Tubing	Water skiing
Wind surfing	Kayaking	Boating	Wading	Rafting
Hunting	Trapping	Fishing	<b>None of the above</b>	Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**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	Campgrounds
Boating accesses	State parks	National forests	Nature trails	Stairs/walkway
No trespass sign	Fence	Steep slopes	Other: <b>FIELD</b>	

**Evidence of Human Use\*:**

Roads	Foot paths/prints	Dock/platform	<b>Livestock Watering</b>	RV / ATV Tracks
Rope swings	Camping Sites	Fire pit/ring	NPDES Discharge	Fishing Tackle
Other:				

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

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**Stream Morphology:**

**Upstream View Physical Dimensions:**

Rifle	Width (ft):	<u>4 FT</u>	Length (ft):	<u>0</u>	Avg. Depth (ft):	<u>0</u>	Max. Depth (ft):	<u>0</u>
Run	Width (ft):	<u>N/A</u>	Length (ft):	<u>0</u>	Avg. Depth (ft):	<u>0</u>	Max. Depth (ft):	<u>0</u>
Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Flow	Present?	Yes	No		Estimated (ft <sup>3</sup> /sec):			

**Downstream View Physical Dimensions:**

Rifle	Width (ft):	<u>4 FT.</u>	Length (ft):	<u>0</u>	Avg. Depth (ft):	<u>0</u>	Max. Depth (ft):	<u>0</u>
Run	Width (ft):	<u>0</u>	Length (ft):	<u>0</u>	Avg. Depth (ft):	<u>0</u>	Max. Depth (ft):	<u>0</u>
Pool	Width (ft):	<u>0</u>	Length (ft):	<u>0</u>	Avg. Depth (ft):	<u>0</u>	Max. Depth (ft):	<u>0</u>
Flow	Present?	Yes	<u>No</u>		Estimated (ft <sup>3</sup> /sec):			

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

<u>15</u> % Cobble	<u>20</u> % Gravel	<u>0</u> % Sand	<u>50</u> % Silt	<u>15</u> % Mud/Clay	<u>0</u> % Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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Signed: Paul Neilhan Date: 7-12-05  
 Organization: CITY OF SMITHTON Position: \_\_\_\_\_

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <b>3509</b>	Site Location Description: <b>#3</b>	
Site GPS Coordinates: <b>78-07-382E 115-46-144N</b>	<b>BLUHM RD. WEST OF RATLESNAKE RD. 1/8 MILE W</b>	
Date & Time: <b>30 JUNE 05 12:45</b>	Facility Name: <b>Smithton Lagoon</b>	
Personnel: <b>WILLIAMS</b>	Permit Number: <b>MO 0025828</b>	
Current Weather Conditions: <b>CLOUDY 90°</b>	Weather Conditions for Past 7 days: <b>SUNNY + HOT</b>	
Photo Ids: Upstream:	Downstream: <b>X</b>	Other:

**Uses Observed\*:**

Swimming	Skin diving	SCUBA diving	Tubing	Water skiing
Wind surfing	Kayaking	Boating	Wading	Rafting
Hunting	Trapping	Fishing	<b>None of the above</b>	Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**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	Campgrounds
Boating accesses	State parks	National forests	Nature trails	Stairs/walkway
No trespass sign	<b>Fence</b>	<b>Steep slopes</b>	Other: <b>FIELD / HOUSING</b>	

**Evidence of Human Use\*:**

<b>Roads</b>	Foot paths/prints	Dock/platform	<b>Livestock Watering</b>	RV / ATV Tracks
Rope swings	Camping Sites	Fire pit/ring	NPDES Discharge	Fishing Tackle
Other:				

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

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**Stream Morphology:**

**Upstream View Physical Dimensions:**

Rifle	Width (ft):	0	Length (ft):	0	Avg. Depth (ft):	0	Max. Depth (ft):	0
Run	Width (ft):	0	Length (ft):	0	Avg. Depth (ft):	0	Max. Depth (ft):	0
Pool	Width (ft):	10ft.	Length (ft):	60ft.	Avg. Depth (ft):	18 in.	Max. Depth (ft):	24 in.
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):				

**Downstream View Physical Dimensions:**

Rifle	Width (ft):	0	Length (ft):	0	Avg. Depth (ft):	0	Max. Depth (ft):	0
Run	Width (ft):	0	Length (ft):	0	Avg. Depth (ft):	0	Max. Depth (ft):	0
Pool	Width (ft):	10ft	Length (ft):	12ft.	Avg. Depth (ft):	18 in.	Max. Depth (ft):	24 in.
Flow	Present?	Yes	<u>No</u>	Estimated (ft <sup>3</sup> /sec):				

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

10	% Cobble	50	% Gravel	10	% Sand	20	% Silt	10	% Mud/Clay	0	% Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

NONE

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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Signed: Paul Williams Date: 7 12 . 05

Organization: CITY OF SMITHTON Position: \_\_\_\_\_

#4

Field Data Sheets for Recreational Use Stream Surveys**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <u>3509</u>	Site Location Description: <u>#4</u>	
Site GPS Coordinates: <u>78-08-355 E 115-45-63 N</u>	<u>RATTLESNAKE RD 1/4 M S. OF BLUHM RD.</u>	
Date & Time: <u>30 JUNE 05 13:00</u>	Facility Name: <u>Smithton Lagoon</u>	
Personnel: <u>WILLIAMS</u>	Permit Number: <u>MO 0025828</u>	
Current Weather Conditions: <u>SUNNY 90°</u>	Weather Conditions for Past 7 days: <u>SUNNY + HOT</u>	
Photo Ids: Upstream: <u>X</u>	Downstream: <u>X</u>	Other:

**Uses Observed\*:**

Swimming	Skin diving	SCUBA diving	Tubing	Water skiing
Wind surfing	Kayaking	Boating	Wading	Rafting
Hunting	Trapping	Fishing	<u>None of the above</u>	Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**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	Campgrounds
Boating accesses	State parks	National forests	Nature trails	Stairs/walkway
No trespass sign	<u>Fence</u>	<u>Steep slopes</u>	Other: <u>HOUSING / LIVESTOCK</u>	

**Evidence of Human Use\*:**

<u>Roads</u>	Foot paths/prints	Dock/platform	Livestock Watering	RV / ATV Tracks
Rope swings	Camping Sites	Fire pit/ring	NPDES Discharge	Fishing Tackle
Other:				

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

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

**Stream Morphology:**

**Upstream View Physical Dimensions:**

Riffle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	3-5 Ft.	Length (ft):	30 Ft.	Avg. Depth (ft):	4"	Max. Depth (ft):	6"
Flow	Present?	Yes	<input checked="" type="radio"/> No		Estimated (ft <sup>3</sup> /sec):			

**Downstream View Physical Dimensions:**

Riffle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	3-5 ft.	Length (ft):	10 FT.	Avg. Depth (ft):	4"	Max. Depth (ft):	6"
Flow	Present?	Yes	No		Estimated (ft <sup>3</sup> /sec):			

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

<u>25</u> % Cobble	<u>50</u> % Gravel	<u>10</u> % Sand	<u>15</u> % Silt	% Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed: Paul Williams Date: 7.12.05

Organization: City of Smithton Position: \_\_\_\_\_

#5

Field Data Sheets for Recreational Use Stream Surveys**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: 3509	Site Location Description: #5	
Site GPS Coordinates: 78-09-015E 115-43-972N	WILLIS FARM	
Date & Time: 30 JUNE 05 13:20	Facility Name: Smithton Lagoon	
Personnel: WILLIAMS	Permit Number: MO 0025828	
Current Weather Conditions: SUNNY 90°	Weather Conditions for Past 7 days: SUNNY + HOT	
Photo Ids: Upstream: X	Downstream: X	Other:

**Uses Observed\*:**

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, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

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

**Evidence of Human Use\*:**

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

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

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**Stream Morphology:**

**Upstream View Physical Dimensions:**

Rifle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Flow	Present?	Yes	<u>No</u>	Estimated (ft <sup>3</sup> /sec):				

**Downstream View Physical Dimensions:**

Rifle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	<u>12 in.</u>	Length (ft):	<u>25 ft.</u>	Avg. Depth (ft):	<u>8 in.</u>	Max. Depth (ft):	<u>12 in.</u>
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):				

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

<u>25</u> % Cobble	<u>25</u> % Gravel	<u>25</u> % Sand	<u>25</u> % Silt	— % Mud/Clay	— % Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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Signed: Paul William Date: 7.12.05

Organization: CITY OF SMITHTON Position: \_\_\_\_\_

#16

Field Data Sheets for Recreational Use Stream Surveys**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <b>3509</b>	Site Location Description: <b>#6</b>	
Site GPS Coordinates: <b>78-10-745E 115-40-22N</b>	<b>FIAT CREEK BOTTOM (APPOX. 1/2 mile AWAY)</b>	
Date & Time: <b>30 JUNE 05 14:00</b>	Facility Name: <b>Smithton Lagoon</b>	
Personnel: <b>WILLIAMS</b>	Permit Number: <b>MO 0025828</b>	
Current Weather Conditions: <b>SUNNY 90°</b>	Weather Conditions for Past 7 days: <b>SUNNY + HOT</b>	
Photo Ids: Upstream: <input checked="" type="checkbox"/>	Downstream: <input checked="" type="checkbox"/>	Other:

**Uses Observed\*:**

Swimming	Skin diving	SCUBA diving	Tubing	Water skiing
Wind surfing	Kayaking	Boating	Wading	Rafting
Hunting	Trapping	Fishing	<u>None of the above</u>	Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**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	Campgrounds
Boating accesses	State parks	National forests	Nature trails	Stairs/walkway
No trespass sign	Fence	Steep slopes	Other: <b>FARM LAND</b>	

**Evidence of Human Use\*:**

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

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

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**Stream Morphology:**

**Upstream View Physical Dimensions:**

Riffle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Flow	Present?	Yes	<input checked="" type="radio"/> No		Estimated (ft <sup>3</sup> /sec):			

**Downstream View Physical Dimensions:**

Riffle	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Run	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Pool	Width (ft):	—	Length (ft):	—	Avg. Depth (ft):	—	Max. Depth (ft):	—
Flow	Present?	Yes	<input checked="" type="radio"/> No		Estimated (ft <sup>3</sup> /sec):			

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

— % Cobble	— % Gravel	— % Sand	<u>50</u> % Silt	<u>50</u> % Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

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

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

**Comments:** Please attach additional comments (including information from interviews) to this form.

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Signed: Paul Williams Date: 7-12-05

Organization: City of Smithton Position: \_\_\_\_\_



Discharge of Lower





Lower  
Lagoon



Upper  
Lagoon



Upper  
Lagoon



Upper Lagoon





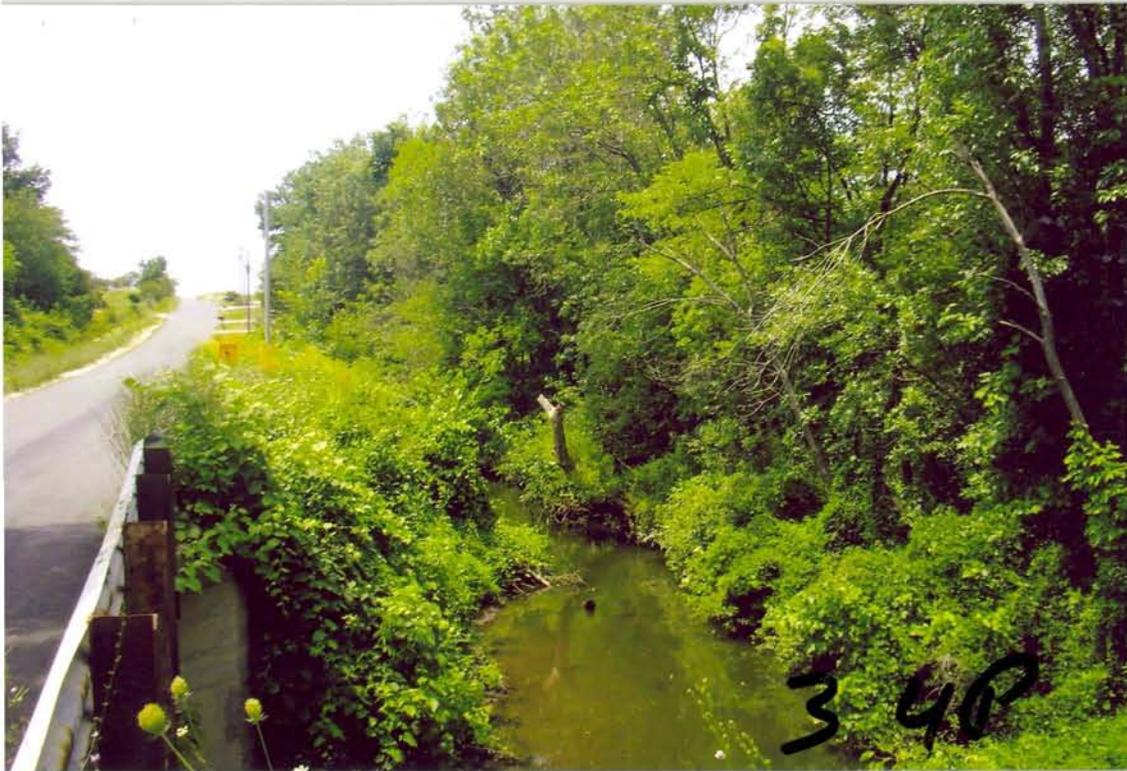


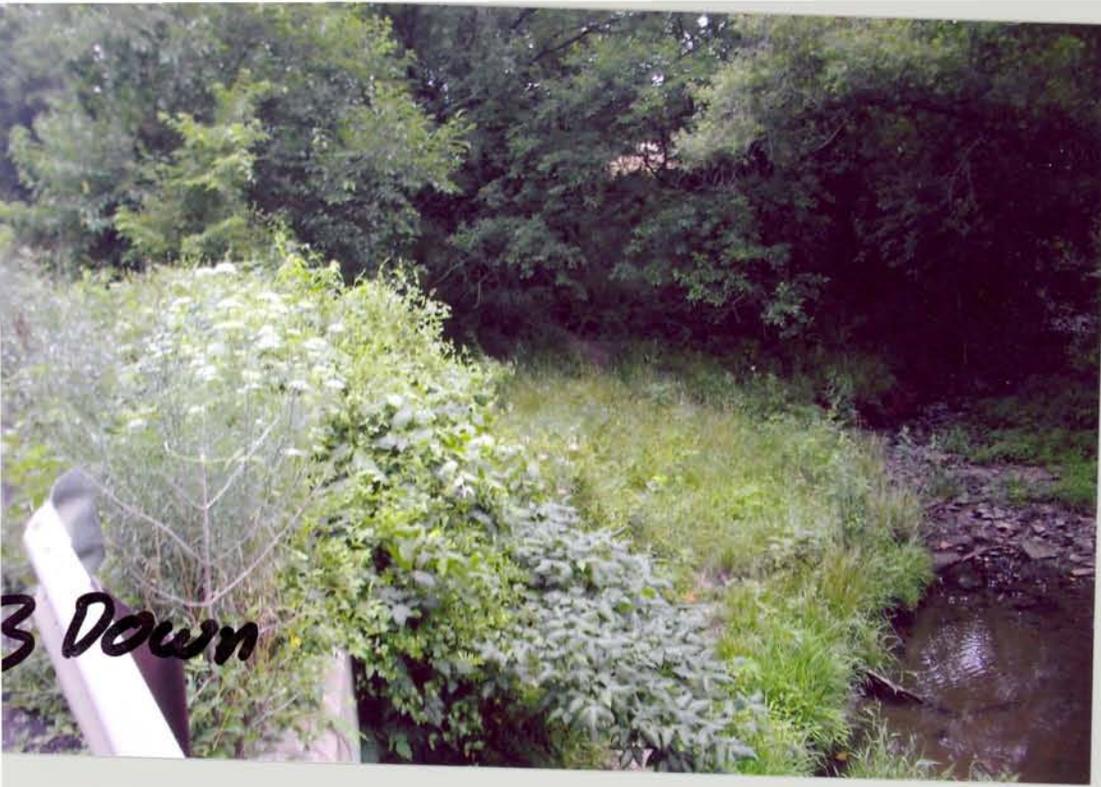


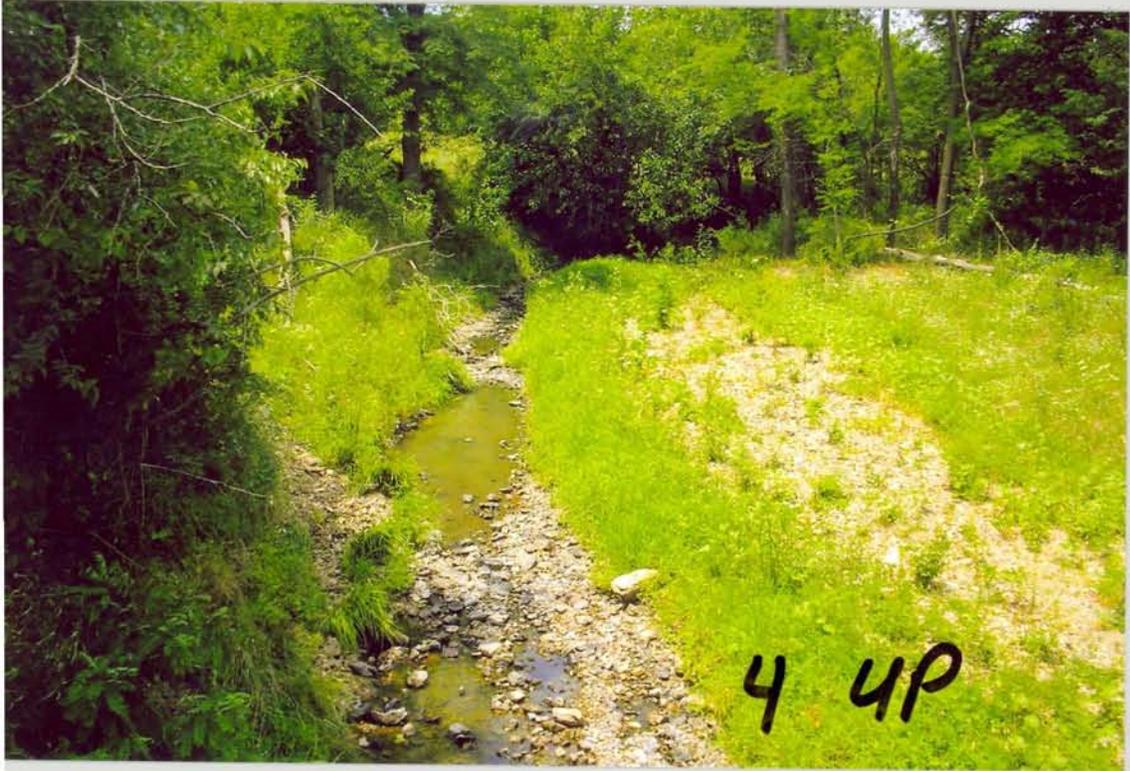
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DOWN

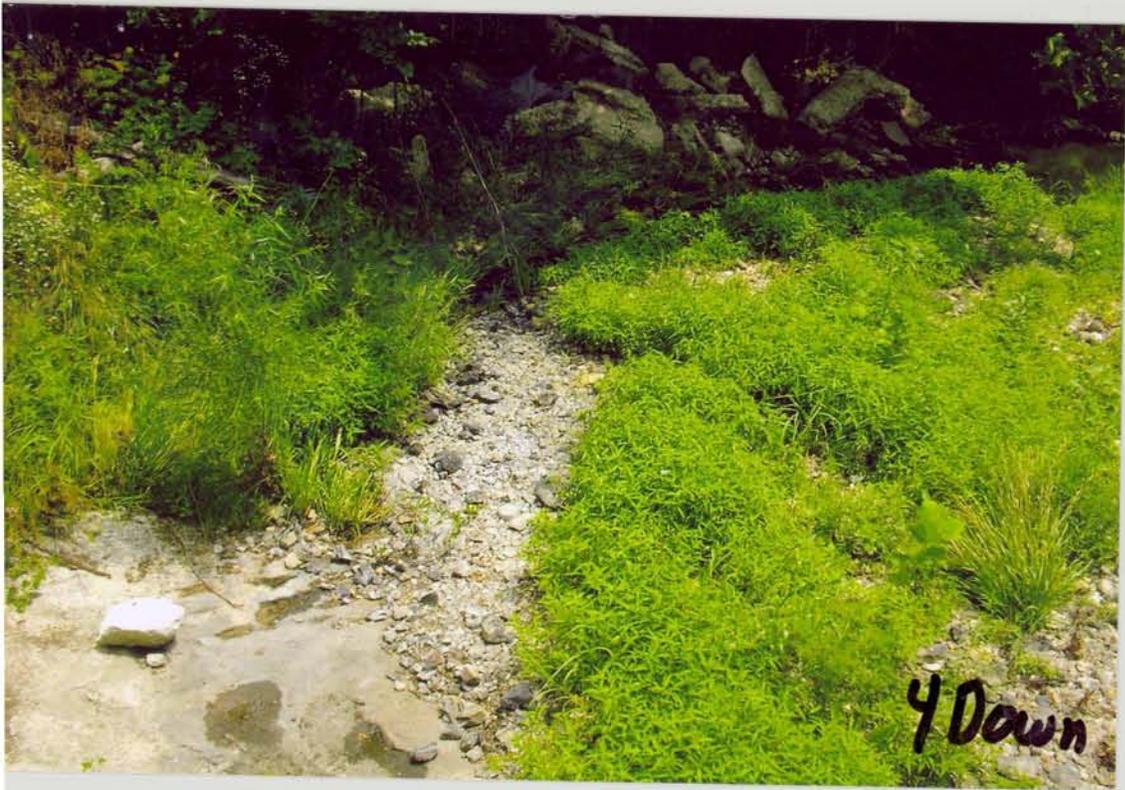


#2  
DOWN



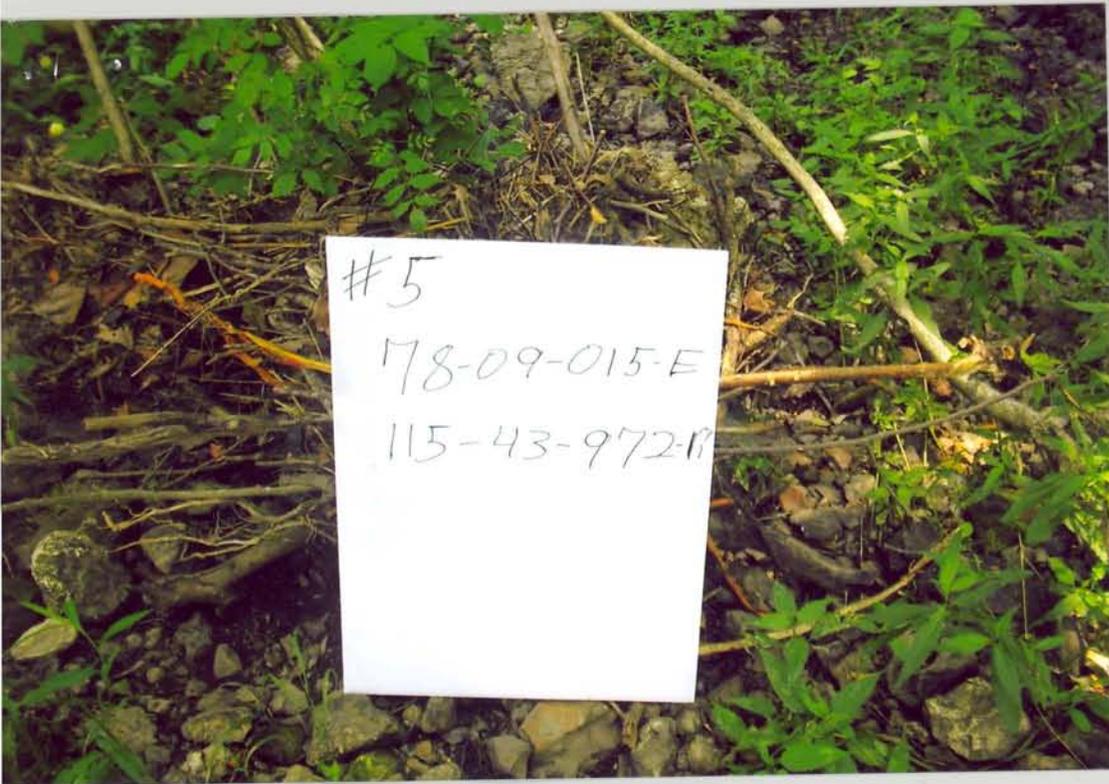








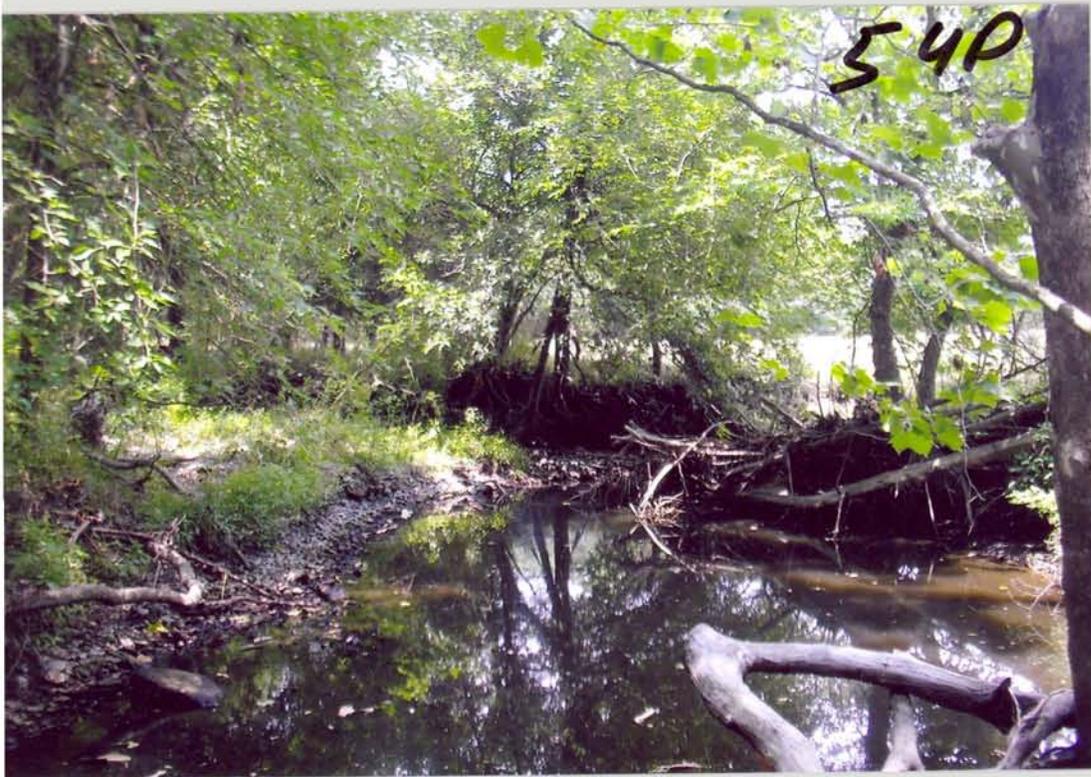
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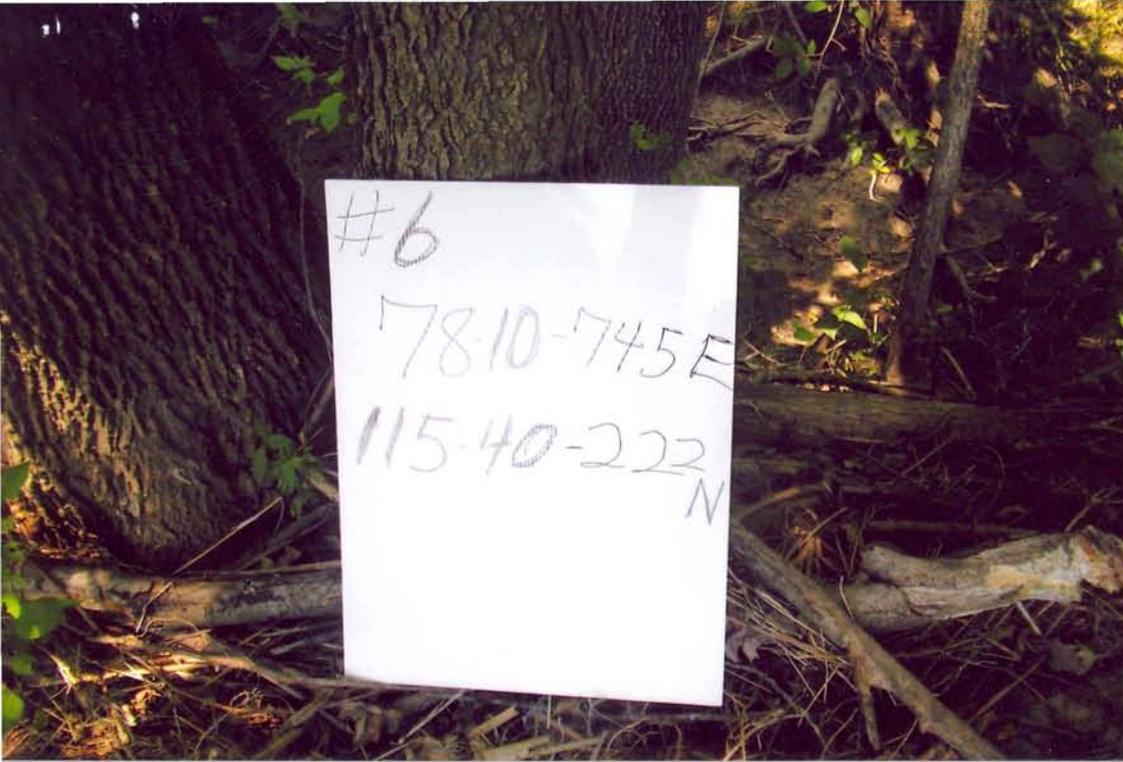
#5

178-09-015-E

115-43-972-11











6 Down