

Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 1011 Hominy Creek

Submitted by  
SES, Inc.

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 3, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
 (For water body being surveyed)

**Water Body Information**

Water Body Name: Hominy Creek	WBID: 1011
8 digit HUC code: 10300102	County: boone
Upstream Legal Description 48N12W17	
Downstream Legal Description 48N12W18	
Number of Sites Evaluated	3
List all site numbers, listed upstream to downstream	
	1          3          2

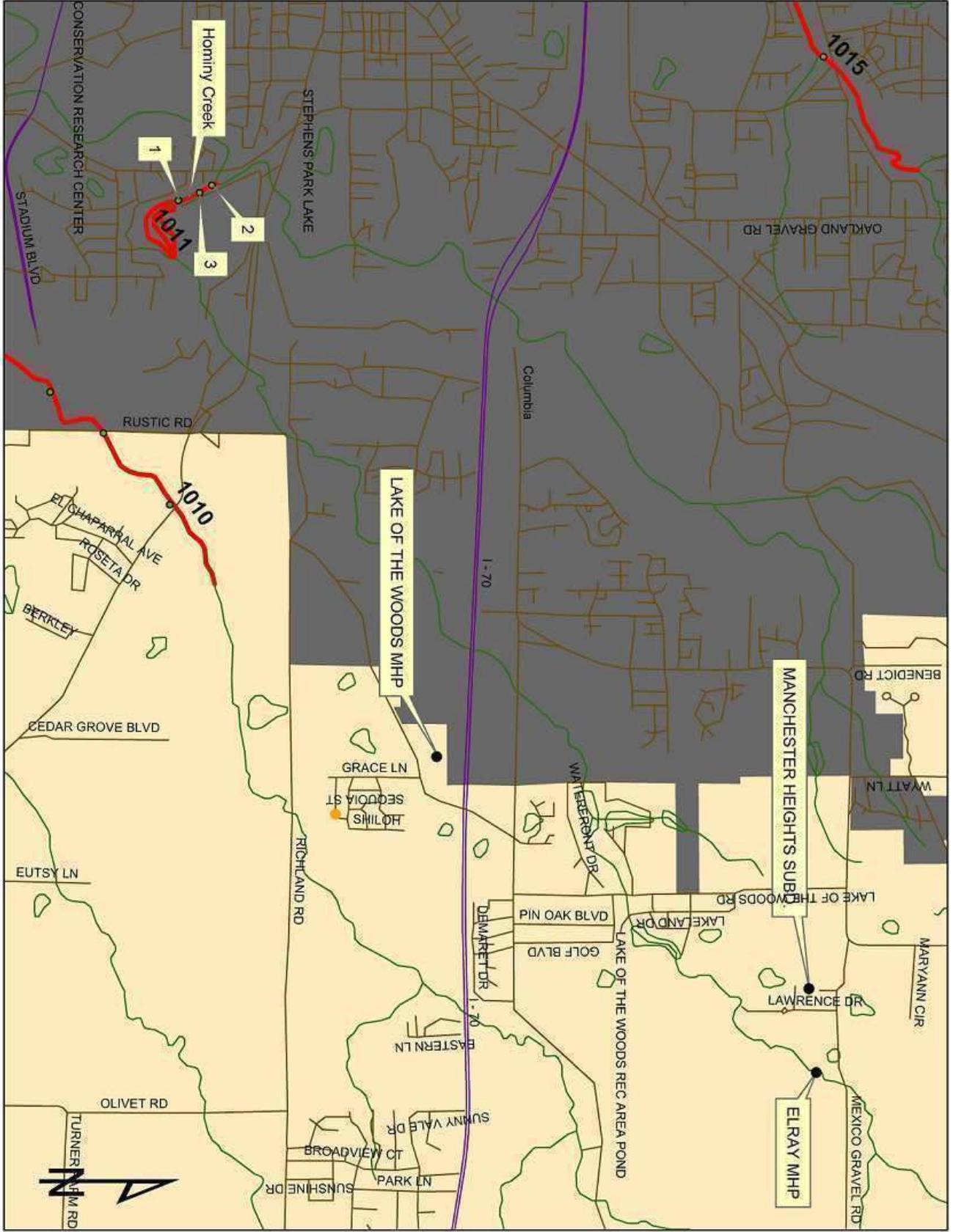
**Discharger Facility Information**

Discharger Facility Name(s): Elray MHP-MO 0105520 Lake of the Woods MHP- MO 0109631
Discharger Permit Number(s): Manchester Heights Subd- MO 0081922

**UAA Surveyor**

Name of Surveyor: Gilisa Gould	Telephone Number: 913-307-0046
Organization/Employer: SES, Inc.	
Position: Field Team Leader	

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



CONSERVATION RESEARCH CENTER  
STADIUM BLVD

Hominy Creek

1

2

3

STEPHENS PARK LAKE

1015

OAKLAND GRAVEL RD

RUSTIC RD

1010

EL CHAPARRAL AVE  
ROSETA DR  
BERKLEY  
CEDAR GROVE BLVD

LAKE OF THE WOODS MHP

1-70

Columbia

EUTSY LN

RICHLAND RD

GRACE LN  
SECODIA ST  
HOLMS

MANCHESTER HEIGHTS SUBD

BENEDICT RD

WYATT LN

WATERFRONT DR

LAKE OF THE WOODS RD

MARYANN CIR

DEMARET DR

PIN OAK BLVD

GOLF BLVD

LAKE OF THE WOODS REC AREA POND

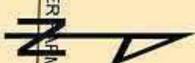
LAWRENCE DR

ELRAY MHP

MEXICO GRAVEL RD

EASTERN LN

OLIVET RD



TURNER MFM RD

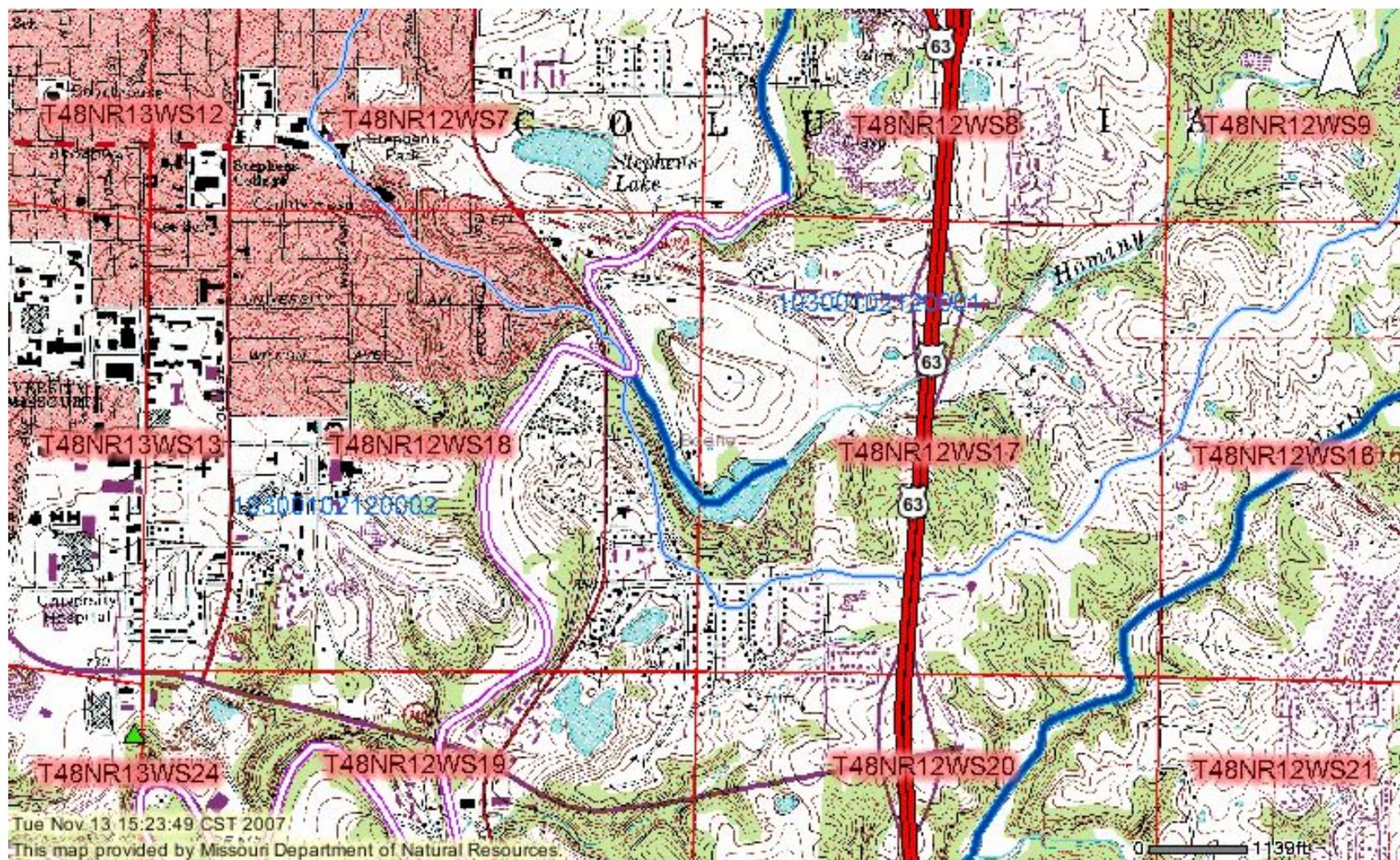
SUNSHINE DR

BROADVIEW CT

SUNNY VALE DR

PARK LN

This map was created by DNR Staff to show the stream in relation to Highway 63



**Field Data Sheets for Recreational Use Stream Surveys  
Data Sheet B - Site Characterization  
(must be completed for each site)**

WBID 1011  
Site # 1

Date and Time: 5.23.07 9:50 AM

Current Weather Conditions clear

Weather Conditions for Past 10 days: clear

Drought Conditions? No

Site Location (e.g. road crossing) moon valley rd crossing

GPS Mark: 9

Upstream Photo 21 Downstream Photo 22

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

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	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	<b>Other:</b>	picture 23 &24 , construction on creek picture 21, dam of pond picture 25, pipe entering stream



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 1

Mark # 9

1011\_Hominy Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.15
Substrate:	0.25
cobble	0.10
Water Clarity:	0.15
milky, cloudy	0.20
Channel Feature:	0.25
pool	0.25
Channel Width:	0.25
7.00	0.25
<b>0.23</b>	0.10
<b>Transect 2</b>	0.10
Substrate:	0.20
cobble	0.25
Water Clarity:	0.20
clousy	0.20
Channel Feature:	0.25
pool	0.20
Channel Width:	0.20
9.00	0.15
<b>0.20</b>	0.05
<b>Transect 3</b>	0.00
Substrate:	0.15
cobble	0.20
Water Clarity:	0.15
milky, cloudy	0.20
Channel Feature:	0.15
pool	0.20
Channel Width:	0.20
9.00	0.15
<b>0.15</b>	0.15
<b>Transect 4</b>	0.20
Substrate:	0.40
cobble	0.50
Water Clarity:	0.50
milky, cloudy	0.50
Channel Feature:	0.55
pool	0.55
Channel Width:	0.50
7.00	0.50
<b>0.50</b>	0.20

	Depth (m)
<b>Transect 5</b>	0.00
Substrate:	0.15
cobble	0.25
Water Clarity:	0.35
cloudy	0.40
Channel Feature:	0.30
riffle	0.20
Channel Width:	0.40
6.00	0.40
<b>0.28</b>	0.15
<b>Transect 6</b>	0.50
Substrate:	0.25
cobble	0.25
Water Clarity:	0.40
cloudy	0.50
Channel Feature:	0.35
pool	0.40
Channel Width:	0.40
8.00	0.35
<b>0.38</b>	0.25
<b>Transect 7</b>	0.00
Substrate:	0.10
cobble	0.20
Water Clarity:	0.30
cloudy	0.35
Channel Feature:	0.40
pool	0.50
Channel Width:	0.45
5.00	0.40
<b>0.33</b>	0.25
<b>Transect 8</b>	0.00
Substrate:	0.05
cobble	0.15
Water Clarity:	0.20
cloudy	0.20
Channel Feature:	0.25
pool	0.30
Channel Width:	0.15
8.00	0.10
<b>0.15</b>	0.00

	Depth (m)
<b>Transect 9</b>	0.00
Substrate:	0.10
cobble	0.20
Water Clarity:	0.25
cloudy	0.15
Channel Feature:	0.25
pool	0.15
Channel Width:	0.15
7.00	0.10
<b>0.15</b>	0.05
<b>Transect 10</b>	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.00
cloudy	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
7.00	0.00
<b>0.00</b>	0.00
<b>Transect 11</b>	0.10
Substrate:	0.00
cobble	0.05
Water Clarity:	0.10
cloudy	0.15
Channel Feature:	0.15
pool	0.25
Channel Width:	0.30
5.00	0.25
<b>0.13</b>	0.05
<b>Site Median</b>	<b>0.20</b>
<b>Site Maximum</b>	<b>0.55</b>

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    1011  
 Site #                    2

Date and Time:            10:30 AM 5.23.07

Current Weather Conditions    clear

Weather Conditions for Past 10 days:    partly cloudy

Drought Conditions? No

Site Location (e.g. road crossing)            down stream before forking of creek

GPS Mark:            10

Upstream Photo                    28                    Downstream Photo                    27

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

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	<b>None of the Above</b>	Other	

**Indications of Human Use**

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



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 2

Mark # 10

1011\_Hominy Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
8.00	0.05
<b>0.00</b>	<b>0.05</b>
<b>Transect 2</b>	0.05
Substrate:	0.00
cobble	0.05
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
9.00	0.00
<b>0.00</b>	<b>0.00</b>
<b>Transect 3</b>	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.00
pool	0.05
Channel Width:	0.05
9.00	0.05
<b>0.05</b>	<b>0.05</b>
<b>Transect 4</b>	0.05
Substrate:	0.20
cobble	0.20
Water Clarity:	0.10
cloudy	0.15
Channel Feature:	0.15
pool	0.20
Channel Width:	0.20
5.00	0.15
<b>0.15</b>	<b>0.10</b>

	Depth (m)
<b>Transect 5</b>	0.15
Substrate:	0.30
cobble	0.30
Water Clarity:	0.40
cloudy	0.30
Channel Feature:	0.30
pool	0.35
Channel Width:	0.20
6.00	0.20
<b>0.30</b>	<b>0.15</b>
<b>Transect 6</b>	0.05
Substrate:	0.30
cobble	0.30
Water Clarity:	0.05
cloudy	0.00
Channel Feature:	0.10
pool	0.10
Channel Width:	0.25
12.00	0.30
<b>0.10</b>	<b>0.10</b>
<b>Transect 7</b>	0.00
Substrate:	0.05
cobble	0.00
Water Clarity:	0.00
cloudy	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
13.00	0.00
<b>0.00</b>	<b>0.00</b>
<b>Transect 8</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.05
cloudy	0.10
Channel Feature:	0.10
pool	0.05
Channel Width:	0.10
4.00	0.05
<b>0.05</b>	<b>0.10</b>

	Depth (m)
<b>Transect 9</b>	0.00
Substrate:	0.05
cobble	0.10
Water Clarity:	0.30
cloudy	0.40
Channel Feature:	0.70
pool	0.80
Channel Width:	0.95
9.00	1.00
<b>0.55</b>	<b>1.00</b>
<b>Transect 10</b>	0.00
Substrate:	0.15
cobble	0.15
Water Clarity:	0.15
cloudy	0.20
Channel Feature:	0.20
pool	0.35
Channel Width:	0.45
8.00	0.50
<b>0.20</b>	<b>0.25</b>
<b>Transect 11</b>	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.20
cloudy	0.30
Channel Feature:	0.40
pool	0.40
Channel Width:	0.30
10.00	0.15
<b>0.18</b>	<b>0.15</b>
<b>Site Median</b>	<b>0.05</b>
<b>Site Maximum</b>	<b>1.00</b>

**Field Data Sheets for Recreational Use Stream Surveys  
Data Sheet B - Site Characterization  
(must be completed for each site)**

WBID 1011  
Site # 3

Date and Time: 10:45 AM 5.23.07

Current Weather Conditions clear

Weather Conditions for Past 10 days: partly cloudy

Drought Conditions? No

Site Location (e.g. road crossing) between sites 1 and 2 ;middle

GPS Mark: 11

Upstream Photo 30 Downstream Photo 29

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

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	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	<b>Other:</b> pipe through stream picture # 26	



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 3

Mark # 11

1011\_Hominy Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.05
riffle	0.00
Channel Width:	0.00
3.00	0.00
<b>0.00</b>	0.00
<b>Transect 2</b>	0.00
Substrate:	0.00
cobble	0.10
Water Clarity:	0.10
cloudy	0.15
Channel Feature:	0.10
pool	0.05
Channel Width:	0.05
5.00	0.00
<b>0.05</b>	0.00
<b>Transect 3</b>	0.05
Substrate:	0.20
cobble	0.30
Water Clarity:	0.40
clear	0.40
Channel Feature:	0.40
pool	0.40
Channel Width:	0.30
8.00	0.20
<b>0.30</b>	0.05
<b>Transect 4</b>	0.05
Substrate:	0.00
cobble	0.05
Water Clarity:	0.10
clear	0.30
Channel Feature:	0.20
pool	0.20
Channel Width:	0.15
6.00	0.05
<b>0.08</b>	0.00

	Depth (m)
<b>Transect 5</b>	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
5.00	0.10
<b>0.05</b>	0.00
<b>Transect 6</b>	0.00
Substrate:	0.00
cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.00
pool	0.05
Channel Width:	0.10
5.00	0.10
<b>0.05</b>	0.00
<b>Transect 7</b>	0.00
Substrate:	0.10
cobble	0.25
Water Clarity:	0.30
clear	0.30
Channel Feature:	0.20
pool	0.15
Channel Width:	0.15
5.00	0.15
<b>0.15</b>	0.10
<b>Transect 8</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
5.00	0.00
<b>0.00</b>	0.05

	Depth (m)
<b>Transect 9</b>	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.20
cloudy	0.20
Channel Feature:	0.15
pool	0.20
Channel Width:	0.25
6.00	0.25
<b>0.20</b>	0.20
<b>Transect 10</b>	0.00
Substrate:	0.00
cobble	0.20
Water Clarity:	0.15
cloudy	0.15
Channel Feature:	0.20
pool	0.25
Channel Width:	0.25
4.00	0.30
<b>0.18</b>	0.15
<b>Transect 11</b>	0.05
Substrate:	0.10
cobble	0.15
Water Clarity:	0.20
cloudy	0.20
Channel Feature:	0.25
pool	0.30
Channel Width:	0.25
5.00	0.30
<b>0.23</b>	0.25
<b>Site Median</b>	<b>Site Maximum</b>
<b>0.05</b>	<b>0.40</b>

**WBID# 1011**



**Site# 1 Photo ID# 21, Upstream/Dam of pond**



**Site# 1 Photo ID# 22, Downstream**



**Site# 1 Photo ID# 23, Construction**



**Site# 1 Photo ID# 24, Construction**

**WBID# 1011**



**Site# 1 Photo ID# 25, Pipe entering stream**



**Site# 2 Photo ID# 28, Upstream**



**Site# 2 Photo ID# 27, Downstream**

**WBID# 1011**



**Site# 3 Photo ID# 30, Upstream**



**Site# 3 Photo ID# 29, Downstream**



**Site# 3 Photo ID# 26, Pipe through stream**