

Use Attainability Analysis

for

WBID 3638 Robinson Branch

Submitted by

SES, Inc.

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 4, 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:	Robinson Branch	WBID:	3638
8 digit HUC code:	10290105	County:	Vernon
Upstream Legal Description	36N 29W 30		
Downstream Legal Description	36N 29W 32		
Number of Sites Evaluated	3		
List all site numbers, listed upstream to downstream	1,2,3		

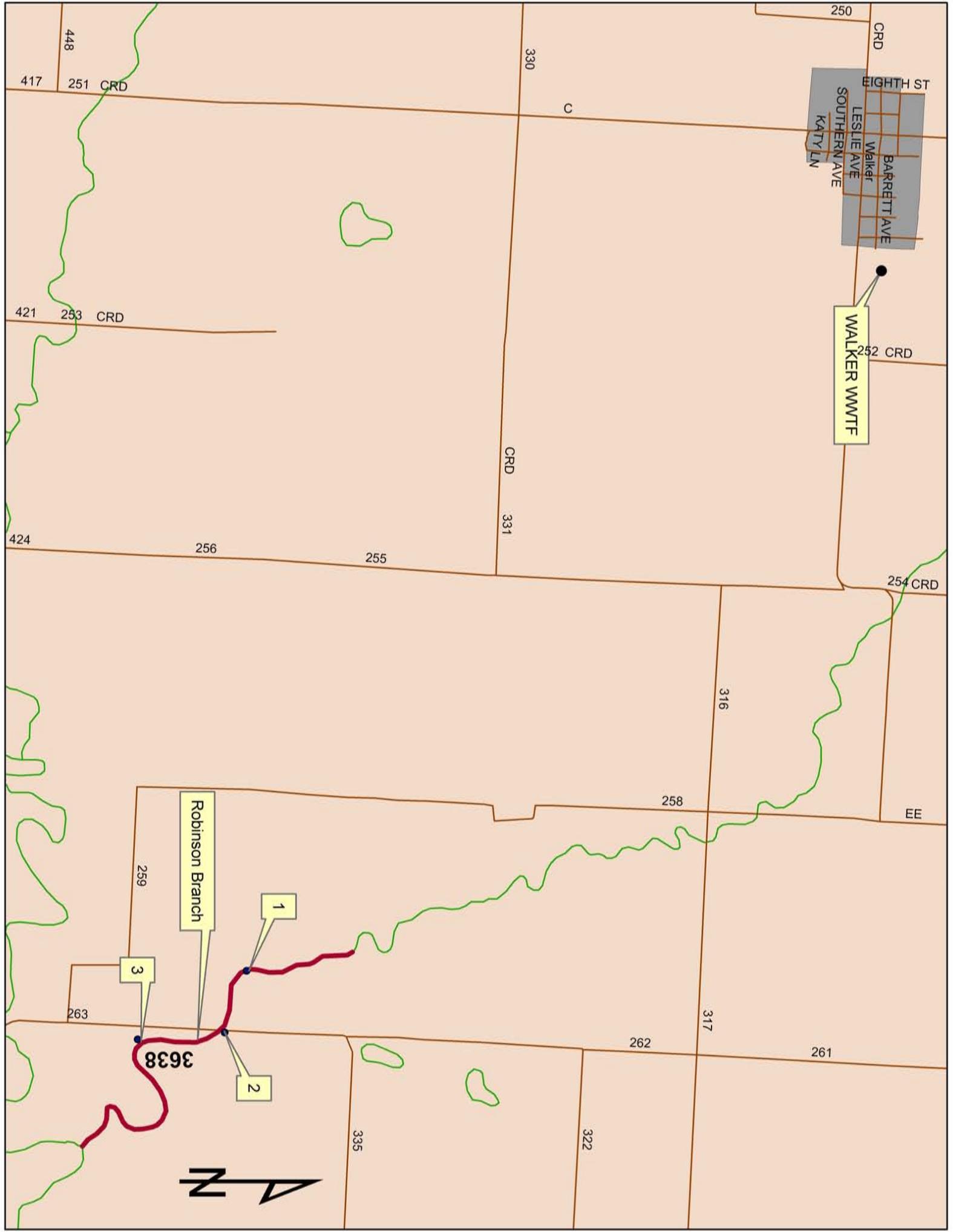
**Discharger Facility Information**

Discharger Facility Name(s):	Walker WWTF
Discharger Permit Number(s):	MO0103942

**UAA Surveyor**

Name of Surveyor:	Nolan Pringle	Telephone Number:	(913)307-0046
Organization/Employer:	SES, Inc.		
Position:	Field Team Leader		

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



EIGHTH ST  
BARRETT AVE  
LESLE AVE  
SOUTHERN AVE  
KATY LN

WALKER WWTF

Robinson Branch

1

2

3

3638



448

417

251 CRD

421

253 CRD

424

256

255

330

C

CRD 331

250

CRD

252 CRD

254 CRD

316

EE

258

259

263

317

262

261

335

322

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

WBID                    3638  
Site #                    1

Date and Time:            5/22/2007 14:00

Current Weather Conditions            sunny, clouds

Weather Conditions for Past 10 days:    Rain showers in the area on 5/15

Drought Conditions? No

Site Location (e.g. road crossing)            crossing at hwy 54

GPS Mark:            63

Upstream Photo                            123                            Downstream Photo                            122

**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:	<b>None of the Above</b>

**WBID #** 3638      **Site #** 1  
**Mark #** 63      **Dissolved Oxygen (ppm)** 9  
**Upstream Views Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current?      yes

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	100				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
33	33	0	34
% Mud/Clay	% Bedrock		
0	0		

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

No floating algae. Algae on rocks. Little vegetation along banks.

**Water Characteristics**

Odor      Sewage    Musky    Chemical    **None**    Other  
 Color      **Clear**      Green    Gray      Milky      Other  
 Bottom Deposit      Sludge    Solids    Fine Sed.    **None**    Other  
 Surface Deposit      Oil      **Scum**    Foam      None      **Other: Pollen on surface.**

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

Site # 1

Mark # 63

	Depth (m)
<b>Transect 1</b>	0.10
Substrate:	0.10
cobble/gravel/silt	0.15
Water Clarity:	0.25
clear to murky	0.30
Channel Feature:	0.40
pool	0.50
Channel Width:	0.50
12 yards	0.30
<b>0.28</b>	<b>0.20</b>
<b>Transect 2</b>	0.15
Substrate:	0.15
cobble/gravel/silt	0.25
Water Clarity:	0.35
clear to murky	0.45
Channel Feature:	0.40
pool	0.35
Channel Width:	0.30
12 yards	0.35
<b>0.33</b>	<b>0.20</b>
<b>Transect 3</b>	0.05
Substrate:	0.25
gravel/cobble/silt	0.25
Water Clarity:	0.35
clear to murky	0.55
Channel Feature:	0.55
pool	0.55
Channel Width:	0.40
12 yards	0.25
<b>0.30</b>	<b>0.15</b>
<b>Transect 4</b>	0.30
Substrate:	0.65
cobble/gravel/silt	0.80
Water Clarity:	0.85
clear to murky	0.80
Channel Feature:	0.90
pool	0.75
Channel Width:	0.75
12 yards	0.45
<b>0.75</b>	<b>0.15</b>

	Depth (m)
<b>Transect 5</b>	0.15
Substrate:	0.40
cobble/gravel/silt	0.60
Water Clarity:	0.80
clear to murky	0.85
Channel Feature:	0.90
pool	0.80
Channel Width:	0.70
13 yards	0.50
<b>0.65</b>	<b>0.25</b>
<b>Transect 6</b>	0.15
Substrate:	0.30
cobble/gravel/silt	0.30
Water Clarity:	0.75
clear to murky	0.85
Channel Feature:	0.85
pool	0.75
Channel Width:	0.55
12 yards	0.55
<b>0.55</b>	<b>0.25</b>
<b>Transect 7</b>	0.30
Substrate:	0.55
gravel/cobble/silt	0.55
Water Clarity:	0.60
clear to murky	0.45
Channel Feature:	0.65
pool	0.50
Channel Width:	0.40
13 yards	0.25
<b>0.48</b>	<b>0.15</b>
<b>Transect 8</b>	0.25
Substrate:	0.50
gravel/cobble/silt	0.85
Water Clarity:	0.90
clear to murky	1.00
Channel Feature:	0.90
pool	0.65
Channel Width:	0.45
14 yards	0.35
<b>0.58</b>	<b>0.30</b>

	Depth (m)
<b>Transect 9</b>	0.35
Substrate:	0.75
	1.00
Water Clarity:	1.00
	1.00
Channel Feature:	1.00
	0.85
Channel Width:	0.45
	0.35
<b>0.80</b>	<b>0.20</b>
<b>Transect 10</b>	0.20
Substrate:	0.70
	0.85
Water Clarity:	0.85
	1.00
Channel Feature:	1.00
	0.95
Channel Width:	0.70
	0.70
<b>0.78</b>	<b>0.40</b>
<b>Transect 11</b>	0.15
Substrate:	0.70
	0.85
Water Clarity:	0.90
	1.00
Channel Feature:	1.00
	1.00
Channel Width:	0.80
	0.60
<b>0.83</b>	<b>0.35</b>

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

WBID                    3638  
Site #                    2

Date and Time:            5/22/2007 15:00

Current Weather Conditions            overcast

Weather Conditions for Past 10 days:    Rain showers in the area on 5/15

Drought Conditions? No

Site Location (e.g. road crossing)            At road crossing 2600

GPS Mark:            64

Upstream Photo                            124                            Downstream Photo                            125

**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:	<b>None of the Above</b>



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

Site # 2

Mark # 64

	Depth (m)
<b>Transect 1</b>	0.20
Substrate:	0.30
bedrock/cobble/gravel	0.35
Water Clarity:	0.40
clear to murky	0.45
Channel Feature:	0.45
pool	0.35
Channel Width:	0.25
12 yards	0.05
<b>0.33</b>	<b>0.05</b>
<b>Transect 2</b>	0.15
Substrate:	0.30
gravel/cobble/silt	0.35
Water Clarity:	0.65
clear to murky	0.65
Channel Feature:	0.65
pool	0.60
Channel Width:	0.45
7 yards	0.35
<b>0.40</b>	<b>0.30</b>
<b>Transect 3</b>	0.35
Substrate:	0.35
bedrock/cobble/gravel	0.30
Water Clarity:	0.30
clear to murky	0.25
Channel Feature:	0.30
pool	0.25
Channel Width:	0.20
6 yards	0.20
<b>0.28</b>	<b>0.15</b>
<b>Transect 4</b>	0.15
Substrate:	0.30
gravel/cobble/silt	0.25
Water Clarity:	0.10
clear to murky	0.15
Channel Feature:	0.20
pool	0.15
Channel Width:	0.15
10 yards	0.10
<b>0.15</b>	<b>0.10</b>

	Depth (m)
<b>Transect 5</b>	0.10
Substrate:	0.15
gravel/cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.10
riffle	0.15
Channel Width:	0.05
10 yards	0.20
<b>0.10</b>	<b>0.15</b>
<b>Transect 6</b>	0.10
Substrate:	0.30
gravel/bedrock/cobble	0.25
Water Clarity:	0.20
clear to murky	0.15
Channel Feature:	0.10
pool	0.05
Channel Width:	0.05
6 yards	0.05
<b>0.10</b>	<b>0.05</b>
<b>Transect 7</b>	0.05
Substrate:	0.10
gravel/cobble	0.20
Water Clarity:	0.15
clear	0.15
Channel Feature:	0.10
riffle	0.05
Channel Width:	0.05
10 yards	0.10
<b>0.10</b>	<b>0.05</b>
<b>Transect 8</b>	0.05
Substrate:	0.10
gravel/cobble	0.10
Water Clarity:	0.10
clear	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
5 yards	0.05
<b>0.05</b>	<b>0.05</b>

	Depth (m)
<b>Transect 9</b>	0.05
Substrate:	0.10
gravel/cobble	0.15
Water Clarity:	0.10
clear	0.15
Channel Feature:	0.10
riffle	0.15
Channel Width:	0.15
4 yards	0.10
<b>0.10</b>	<b>0.10</b>
<b>Transect 10</b>	0.05
Substrate:	0.15
gravel/silt/cobble	0.25
Water Clarity:	0.20
clear to murky	0.30
Channel Feature:	0.30
pool	0.20
Channel Width:	0.25
5 yards	0.20
<b>0.20</b>	<b>0.10</b>
<b>Transect 11</b>	0.05
Substrate:	0.20
gravel/cobble/silt	0.30
Water Clarity:	0.35
clear to murky	0.35
Channel Feature:	0.45
pool	0.50
Channel Width:	0.50
11 yards	0.50
<b>0.35</b>	<b>0.20</b>

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

WBID                    3638  
Site #                    3

Date and Time:            5/22/2007 16:30

Current Weather Conditions            overcast

Weather Conditions for Past 10 days:    Rain showers in the area on 5/15

Drought Conditions? No

Site Location (e.g. road crossing)            1000 yards downstream of crossing 2600

GPS Mark:            65

Upstream Photo                            127                            Downstream Photo                            126

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

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
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Steep slopes	<b><i>None of the Above</i></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: <b><i>None of the Above</i></b>	



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

Site # 3

Mark # 65

	Depth (m)
<b>Transect 1</b>	0.95
Substrate:	1.00
gravel/silt	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
14 yards	1.00
<b>1.00</b>	<b>0.75</b>
<b>Transect 2</b>	0.55
Substrate:	0.65
gravel/silt	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	0.70
15 yards	0.40
<b>0.85</b>	<b>0.35</b>
<b>Transect 3</b>	0.20
Substrate:	0.30
gravel/silt	0.35
Water Clarity:	0.40
murky	0.40
Channel Feature:	0.40
pool	0.35
Channel Width:	0.35
15 yards	0.40
<b>0.35</b>	<b>0.35</b>
<b>Transect 4</b>	0.25
Substrate:	0.15
gravel/silt	0.20
Water Clarity:	0.30
murky	0.30
Channel Feature:	0.30
pool	0.40
Channel Width:	0.45
14 yards	0.65
<b>0.30</b>	<b>0.45</b>

	Depth (m)
<b>Transect 5</b>	0.10
Substrate:	0.20
gravel/silt	0.50
Water Clarity:	0.65
murky	0.65
Channel Feature:	0.70
pool	0.75
Channel Width:	0.80
9 yards	0.85
<b>0.68</b>	<b>0.85</b>
<b>Transect 6</b>	0.45
Substrate:	0.70
gravel/silt	0.75
Water Clarity:	0.75
murky	0.60
Channel Feature:	0.60
pool	0.65
Channel Width:	0.85
16 yards	0.85
<b>0.68</b>	<b>0.45</b>
<b>Transect 7</b>	0.65
Substrate:	0.65
gravel/silt	0.75
Water Clarity:	0.70
murky	0.70
Channel Feature:	0.65
pool	0.55
Channel Width:	0.50
14 yards	0.50
<b>0.65</b>	<b>0.45</b>
<b>Transect 8</b>	0.50
Substrate:	0.70
gravel/silt	0.90
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	0.85
Channel Width:	0.75
14 yards	0.70
<b>0.80</b>	<b>0.60</b>

	Depth (m)
<b>Transect 9</b>	0.15
Substrate:	0.40
gravel/cobble/silt	0.45
Water Clarity:	0.40
murky	0.40
Channel Feature:	0.35
pool	0.30
Channel Width:	0.25
12 yards	0.15
<b>0.33</b>	<b>0.05</b>
<b>Transect 10</b>	0.25
Substrate:	0.45
gravel/cobble/silt	0.40
Water Clarity:	0.40
murky	0.45
Channel Feature:	0.35
pool	0.35
Channel Width:	0.20
13 yards	0.10
<b>0.35</b>	<b>0.05</b>
<b>Transect 11</b>	0.10
Substrate:	0.05
gravel/cobble	0.10
Water Clarity:	0.10
murky	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
10 yards	0.10
<b>0.05</b>	<b>0.05</b>

**WBID# 3638 Robinson Branch**



**Site# 1 Photo ID# 122, Downstream**



**Site# 1 Photo ID# 123, Upstream**



**Site# 2 Photo ID# 125, Downstream**



**Site# 2 Photo ID# 124, Upstream**

**WBID# 3638 Robinson Branch**



**Site# 3 Photo ID# 126, Downstream**



**Site# 3 Photo ID# 127, Upstream**