

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information: <u>L. Beran, S. Painter, J. White, E. Williams</u>	
Date & Time: <u>5/21/11 @ 10:15am</u>	County Name: <u>Newton Co</u>
Stream Name: <u>Cane Creek</u>	
Segment No. or nearest downstream Segment No.:	<u>0502B-05</u> <u>SP</u> <u>7/1/11</u>
Description of Site: <u>CC001 (Crown Pine Timber, North)</u>	

### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0.88 cfs SP 7/1/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 23.0 °C      Water Temp: 23.1 °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R,L</u> Forest	Urban	Rip rap
Shrub dominated corridor	Pasture	Concrete
Herbaceous marsh	Row crops	Other (specify): _____
Mowed/maintained corridor	Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only access through private property significant distance from improved road

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek  
Date: 5/21/11

Site: CCD01  
Time: 10:15 am

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

low depth, log jams, channel obstruction, steep banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Crown Pine Timber property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no

#### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Carney Creek Site: CC001  
Date: 5/21/11 Time: 10:15 am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
steep banks, low depth, channel obstructions
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
steep banks, low depth, channel obstructions
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only access by through Crown Pine Timber Property

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
e n/a

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC001  
 Date: 5/21/11 Time: 10:15 AM

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 226 Downstream 227 Left Bank 228 Right Bank 229  
 Photos #s (150 meters) Upstream 230 Downstream 231 Left Bank 232 Right Bank 233  
 Photos #s (300 meters) Upstream 234 Downstream 235 Left Bank 236 Right Bank 237

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	7.0	5.0	0.85
Pool 2	6.5	6.5	1.50
Pool 3	8.0	5.0	0.85
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	.85
60 meters	.70
90 meters	.12
120 meters	.90
150 meters	1.50
180 meters	.10
210 meters	.22
240 meters	.85
270 meters	.40
300 meters	.35
Average	0.60m

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC001  
 Date: 5/21/11 Time: 10:15 am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3m
Width at narrowest point of the stream within 300 meter reach	2.5
Width at the widest point of the stream within 300 meter reach	5

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_

### 2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Gandy Creek Site: CC001  
 Date: 5/21/11 Time: 10:15am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC001  
 Date: 5/24/11 Time: 10:15 am

7. Check all water characteristics that apply (Attach photos)

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc. no tracks observed

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

light bulb in log jam

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

300 m upstream from CC002.  
nta

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

4.15  
23.0  
Water  
23.1 °C

Stream: Coney Creek Date: 5/31/11  
 Site: CC001 Site Description: Crown Pine Timber Property, North  
 Time Begin: 10:15 Time End: 10:55 Meter Type: Type AB  
 Observers: L. Beran, E. Williams Stream Width\*: 2.8 Section Width (W): .28  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
.14	0.01			0	0
.42	0.04			0.153	0.0017
.70	0.08			0.157	0.0035
.98	0.10			0.156	0.0044
1.24	0.12			0.173	0.0058
1.54	0.14			0.082	0.0032
1.82	0.10			0.123	0.0034
2.10	0.06			0.106	0.0018
2.38	0.05			0.067	0.0009
2.66	0.01			0	0
				Total	0.0248 cms
					0.88 cfs

SE 7/11/11

0.1 ± ⊖ 0.04

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information: <u>L. Beran, S. Painter, J. White, E. Williams</u>		
Date & Time: <u>5/21/11</u>	<u>11:30 am</u>	County Name: <u>Newton</u>
Stream Name: <u>Coney Creek</u>		
Segment No. or nearest downstream Segment No.: <u>0502B-05</u>		<u>SP 7/11/11</u>
Description of Site: <u>CC002 (Crown Pine Timber, D/S of CC001)</u>		

### A. Stream Characteristics:

1. Check the following channel flow status that applies.
  - dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0.81 cfs SP 7/11/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 23.6 °C      Water Temp: 21.3 °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only accessible through Crown Pine Timber Co land, at the end of logging road

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

## Field Data Sheets – Basic RUAA Survey

Stream Name: Gandy Creek Site: 00002  
Date: 5/21/11 Time: 11:30am

### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

low depth, log jams, channel obstructions, steep, vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Only accessible through Crown Pine Timber prop

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? No

### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cany Creek Site: CC002  
Date: 5/24/11 Time: 11:30

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
low depth, log jams, channel obstructions, steep, vegetated banks
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
low depth, log jams, channel obstructions, steep vegetated bank
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Crown Pine Timber property

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Evidence of human activity (trash, beer cans, kool-aid bottle, bullet holes in cans) - 20m up slope from reach, at end of logging road

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC002  
 Date: 5/21/11 Time: 11:30

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 238 Downstream 239 Left Bank 240 Right Bank 241 250 - Trail to creek  
 Photos #s (150 meters) Upstream 242 Downstream 243 Left Bank 244 Right Bank 245  
 Photos #s (300 meters) Upstream 246 Downstream 247 Left Bank 248 Right Bank 249 251 - Trash upslope of reach.

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	.25
60 meters	.25
90 meters	.50
120 meters	.60
150 meters	.35
180 meters	.23
210 meters	.55
240 meters	.65
270 meters	.70
300 meters	.30
Average	0.44m

### Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek Site: C6D02  
 Date: 5/21/11 Time: 11:30

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	4.5 m
Width at narrowest point of the stream within 300 meter reach	2 m
Width at the widest point of the stream within 300 meter reach	5 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC002  
 Date: 5/21/11 Time: 11:30

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____                 |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input checked="" type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |   |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |   |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |   |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |   |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |   |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |   |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge        | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor      | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys        |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnants of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |   |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek Site: CC002  
 Date: 5/21/11 Time: 11:30

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: Snake (1)

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc. none observed  
 Tracks  Fecal droppings  Bird nests

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
 \_\_\_\_\_  
 \_\_\_\_\_

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

n/a  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

Air 23.4°C  
Water 21.3°C

Stream: Candy Creek Date: 5/21/11  
 Site: CC002 Site Description: Crown Pine Timber, S of CC001  
 Time Begin: 11:20 Time End: 11:40 Meter Type: \_\_\_\_\_  
 Observers: L. Belan, S. Painter Stream Width\*: 4.3 Section Width (W): 0.43  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
.22	0.04			0	0
.65	0.25			0.02	0
1.08	0.58			0	0
1.51	0.64			0.022	0.0061
1.94	0.68			0.022	0.0064
2.37	0.53			0.022	0.0050
2.80	0.56			0.022	0.0053
3.23	0.46			0	0
3.66	0.31			0	0
4.09	0.02			0	0
				Total	0.0228 cms 0.81 cfs

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information: <u>L. Beran, S. Painter, J. White, E. Williams</u>	
Date & Time: <u>7/11/11 @ 12:30 pm</u>	County Name: <u>Newton</u>
Stream Name: <u>Coney Creek</u>	
Segment No. or nearest downstream Segment No.: <u>0502B-05</u>	<u>SP 7/11/11</u>
Description of Site: <u>CC003 (Guy James Gray)</u>	

### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

1.89 cfs SP 7/11/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 25.1 °C      Water Temp: 22.1 °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only accessible through private property; followed ATV track/trail down to reach

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC003  
Date: 5/12/11 Time: 12:30

### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children  Tubing  No primary contact activities that commonly occur were observed  
 Wading-Adults  Surfing  Swimming  Whitewater-kayaking, canoeing, rafting  
 Water skiing  Diving  Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

log jams, shallow water, channel obstructions, steep vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Gray property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no

### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC003  
Date: 5/12/11 Time: 12:30

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
log jams, shallow water, channel obstructions, steep vegetated banks
3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
log jams, shallow water, channel obstructions, steep vegetated banks
6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Only accessible through Gray property

#### D. Noncontact Recreation Evaluation

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Tree/Hunting stand ~ 10 m from beginning of reach

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Caney Creek Site: CC003  
 Date: 5/21/11 Time: 12:30

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

**1. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 252 Downstream 253 Left Bank 254 Right Bank 255 264 - Log in Channel  
 Photos #s (150 meters) Upstream 256 Downstream 257 Left Bank 258 Right Bank 259  
 Photos #s (300 meters) Upstream 260 Downstream 261 Left Bank 262 Right Bank 263 265 - Overgrowth.

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	10.0	7.0	1.0
Pool 2	7.0	6.0	1.0
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg –Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	.40
60 meters	.70
90 meters	.48
120 meters	.63
150 meters	.13
180 meters	.50
210 meters	.30
240 meters	.15
270 meters	1.00
300 meters	.20
Average	0.45m

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Candy Creek Site: CC003  
 Date: 3/24/11 Time: 12:30pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	2.5 m
Width at narrowest point of the stream within 300 meter reach	1 m
Width at the widest point of the stream within 300 meter reach	7 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUA Survey

Stream Name: Candy Creek Site: C0003  
 Date: 3/21/11 Time: 12:30pm

### F. Additional RUA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway                          | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)                  | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                                   | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing                         | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating                      | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input checked="" type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot                       | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot                  | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input type="checkbox"/> No trespass sign            |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> Roads             | <input checked="" type="checkbox"/> RV/ATV Tracks | <input type="checkbox"/> NPDES Discharge        | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites            | <input type="checkbox"/> Gates on corridor      | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring            | <input type="checkbox"/> Children's toys        |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle           | <input type="checkbox"/> Remnants of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |   |   |

Comments: \_\_\_\_\_

*JFW 7/10/11*

Field Data Sheets – Basic RUAA Survey

Stream Name: Gandy Creek Site: 8241H C003  
Date: 3/21/11 Time: 12:30

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant
- Algae Cover:  absent  rare  common  abundant
- Odor:  none  rare  common  abundant
- Color:  clear  green  red  brown  black
- Bottom Deposit:  sludge  solids  fine sediments  none  other
- Water Surface:  clear  scum  foam  debris  oil
- Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence
- Water Dependent Birds  None  slight presence  moderate presence  large presence
- Alligators  None  slight presence  moderate presence  large presence
- Comments: fish observed

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence
- Domesticated Pets  None  slight presence  moderate presence  large presence
- Livestock  None  slight presence  moderate presence  large presence
- Feral Hogs  None  slight presence  moderate presence  large presence
- Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc. no tracks observed

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant
- Small garbage in the channel  None  Rare  Common  Abundant
- Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

food storage container

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

n/a

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

Air 25.1°C  
Water 22.1°C

Stream: Caney Creek Date: 5/21/11  
 Site: 00003 Site Description: Guy James Gray  
 Time Begin: 12:30 Time End: \_\_\_\_\_ Meter Type: \_\_\_\_\_  
 Observers: Beran / Painter Stream Width\*: 3.3 m Section Width (W): 0.33  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
0.17	0.02			0	0
0.50	0.14			0	0
0.83	0.27			0	0
1.16	0.28			0.039	0.0036
1.49	0.28			0.089	0.0082
1.82	0.25			0.164	0.0135
2.15	0.24			0.173	0.0137
2.48	0.17			0.220	0.0123
2.81	0.06			0.114	0.0023
3.14	0.01			0.0	0
				Total	0.0537 cms 1.89 cfs

CC 64

Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information:	Eric Williams, Stephanie Paunter, Kara Connolly
Date & Time:	July 16, 2010 7:45am County Name: Newton
Stream Name:	Caney
Segment No. or nearest downstream Segment No.:	0502B-04
Description of Site:	# 64 - State Hwy 87

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

A. Stream Characteristics:

1. Check the following channel flow status that applies.  
dry  no flow  low  normal  high  flooded

30° 50' 59.4253" N  
93° 45' 55.4800" W

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. 0.390 cms 1.38 cfs

4. Water Quality Data (Field Parameters)

Air Temp ~~27.8~~ °C Water Temp 25.5 °C  
28.1

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>L,R</u> <input checked="" type="checkbox"/> Forest	<input type="checkbox"/> Urban	<input type="checkbox"/> Rip rap
<input type="checkbox"/> Shrub dominated corridor	<input type="checkbox"/> Pasture	<input type="checkbox"/> Concrete
<input type="checkbox"/> Herbaceous marsh	<input type="checkbox"/> Row crops	Other (specify): _____
<input type="checkbox"/> Mowed/maintained corridor	<input type="checkbox"/> Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

accessible via State Hwy 87 under bridge

8. Dominant Primary Substrate

Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

- Yes
- No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Wading-Children | <input type="checkbox"/> Tubing  | <input checked="" type="checkbox"/> No primary contact activities that commonly occur were observed |
| <input type="checkbox"/> Wading-Adults   | <input type="checkbox"/> Surfing   |   |
| <input type="checkbox"/> Swimming        | <input type="checkbox"/> Whitewater-kayaking, canoeing, rafting  |   |
| <input type="checkbox"/> Water skiing    | <input type="checkbox"/> Other: _____  |   |
| <input type="checkbox"/> Diving          | <input type="checkbox"/> frequent public swimming-created by publicly owned land / commercial operations |   |

b. Check the number of individuals observed at the site:  None    1-10    11-20    20-50    greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual    Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water    Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water    Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

low depth, moderately steep vegetated banks

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Accessible from State Hwy 87

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

- Yes
- No

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?

- Yes
-X No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
-X No secondary contact recreation activities were observed
- Other secondary contact activities:

b. Individuals observed at the site. -X None - 1-10 - 11-20 - 20-50 - greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water - In a boat touching water
- Body on shore near water within 8 meters (25ft) of water - Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

low depth, moderately steep vegetated banks

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion? - frequently - infrequently

Please describe how often the activities occur? -X Unknown - Never - Daily - Monthly - Yearly

4. If infrequently, what is the reason? -X physical characteristics of the water body -X limited public access - other

If other, list reasons:

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

low depth,

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

moderately steep vegetated banks

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable       Non-wadeable

**1. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 96° 30 M Photo's Upstream 227 Downstream 228 Left Bank 229 Right Bank 230  
 Bearing 96° 150 M Photo's Upstream 231 Downstream 232 Left Bank 233 Right Bank 234  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A **substantial pool is >10 meters in length** for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.40m
60 meters	0.14m
90 meters	0.10m
120 meters	0.84m
150 meters	0.42m
180 meters	1.00m
210 meters	nonwaddable
240 meters	non-wadable
270 meters	" "
300 meters	" "
Average	0.48m

*Handwritten note:* JEW 7/10/11 0.48m

Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	5 m
Width at narrowest point of the stream within 300 meter reach	3 m
Width at the widest point of the stream within 300 meter reach	7 m

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

COMMENTS:

There were deep areas

~~2. Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Field Data Sheets – Basic RUAA Survey

F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses? Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Log jams
- Thick vegetation
- Other (specify): \_\_\_\_\_
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Playgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: moderately, thick vegetation

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: underwear (3 pair)
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:	<input type="checkbox"/> absent	<input type="checkbox"/> rare	<input checked="" type="checkbox"/> common	<input type="checkbox"/> abundant	
Algae Cover:	<input checked="" type="checkbox"/> absent	<input type="checkbox"/> rare	<input type="checkbox"/> common	<input type="checkbox"/> abundant	
Odor:	<input checked="" type="checkbox"/> none	<input type="checkbox"/> rare	<input type="checkbox"/> common	<input type="checkbox"/> abundant	
Color:	<input checked="" type="checkbox"/> clear	<input type="checkbox"/> green	<input type="checkbox"/> red	<input type="checkbox"/> brown	<input type="checkbox"/> black
Bottom Deposit:	<input type="checkbox"/> sludge	<input type="checkbox"/> solids	<input checked="" type="checkbox"/> fine sediments	<input type="checkbox"/> none	<input type="checkbox"/> other
Water Surface:	<input checked="" type="checkbox"/> clear	<input type="checkbox"/> scum	<input type="checkbox"/> foam	<input type="checkbox"/> debris	<input type="checkbox"/> oil
Other:					

8. Vertebrates Observed within 300 meter reach

Snakes	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Water Dependent Birds	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Alligators	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Comments:				

9. Mammals Observed within 300 meter reach

Wild	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Domesticated Pets	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Livestock	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Feral Hogs	<input checked="" type="checkbox"/> None	<input type="checkbox"/> slight presence	<input type="checkbox"/> moderate presence	<input type="checkbox"/> large presence
Comments:				

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks    Fecal droppings    Bird nests

11. Garbage Observed

Large garbage in the channel	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Rare	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant
Small garbage in the channel	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Rare	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant
Bank Garbage	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Rare	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant

Briefly describe the kinds of garbage observed: bottles, plastic bags (random vehicle trash)

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?   Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

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### Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information: <u>Eric Williams, Stephanie Painter, Kara Connelly</u>	
Date & Time: <u>7/16/10 9:29am</u>	County Name: <u>Newton</u>
Stream Name: <u>Carey</u>	
Segment No. or nearest downstream Segment No.:	<u>State Hwy 190 OS02B-04</u>
Description of Site: <u>#62 - State Hwy 190</u>	

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

30° 50' 50.8119" N  
93° 45' 46.7562" W

#### A. Stream Characteristics:

1. Check the following channel flow status that applies.

- dry
- no flow
- ~~low~~ normal
- high
- flooded

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

#### 3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. .1094 cms 3.86 cfs

#### 4. Water Quality Data (Field Parameters)

Air Temp	<u>31.2</u> °C	Water Temp	<u>25.7</u> <u>26.0</u> °C
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5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

- |   |  |                                   |
|---|--|-----------------------------------|
| <u>R/L</u> <input checked="" type="checkbox"/> Forest | <input type="checkbox"/> Urban               | <input type="checkbox"/> Rip rap  |
| <input type="checkbox"/> Shrub dominated corridor     | <input type="checkbox"/> Pasture             | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Herbaceous marsh             | <input type="checkbox"/> Row crops           | Other (specify): _____            |
| <input type="checkbox"/> Mowed/maintained corridor    | <input type="checkbox"/> Denuded/Eroded bank |                                   |

6. Ease of bank access to the water body: Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

moderately easy from beneath bridge.

#### 8. Dominant Primary Substrate

- Cobble
- Sand
- Silt
- Mud/Clay
- Gravel
- Bedrock
- Rip rap
- Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

- Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Wading-Children | <input type="checkbox"/> Tubing  | <input checked="" type="checkbox"/> No primary contact activities that commonly occur were observed |
| <input type="checkbox"/> Wading-Adults   | <input type="checkbox"/> Surfing   |   |
| <input type="checkbox"/> Swimming        | <input type="checkbox"/> Whitewater-kayaking, canoeing, rafting  |   |
| <input type="checkbox"/> Water skiing    | <input type="checkbox"/> Other: _____  |   |
| <input type="checkbox"/> Diving          | <input type="checkbox"/> frequent public swimming-created by publicly owned land / commercial operations |   |

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water  Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water  Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Steep, vegetated banks, Stagnant water

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

parking lot at park

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

- Yes  No

**C. Secondary Contact Water Recreation Evaluation:**

- **Secondary contact recreation 1:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.
- **Secondary contact recreation 2:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?  
 Yes  
 No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.  
 None     1-10     11-20     20-50     greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water     In a boat touching water
- Body on shore near water within 8 meters (25ft) of water     Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

Steep vegetated banks, ~~stagnant~~ water  
Stagnant

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently  infrequently

Please describe how often the activities occur?     Unknown     Never     Daily     Monthly     Yearly

4. If infrequently, what is the reason?  physical characteristics of the water body     limited public access  
 other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

Steep vegetated banks, ~~stagnant~~ water  
Stagnant

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

Easily accessible from part

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

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**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

112°

Bearing <sup>KC</sup> ~~0-28~~ <sup>184°</sup> 30 M Photo's Upstream <sup>235</sup> Downstream <sup>236</sup> Left Bank <sup>237</sup> Right Bank <sup>238</sup>  
 Bearing <sup>KC</sup> ~~80-54~~ 150 M Photo's Upstream <sup>239</sup> Downstream <sup>240</sup> Left Bank <sup>241</sup> Right Bank <sup>242</sup>  
 Bearing <sup>KC</sup> ~~186°~~ 300 M Photo's Upstream <sup>243</sup> Downstream <sup>244</sup> Left Bank <sup>245</sup> Right Bank <sup>246</sup>

at 9/17/10  
 Photo #247  
 Parking lot  
 and Usign

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A **substantial pool is >10 meters in length** for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.28
60 meters	0.74
90 meters	0.96
120 meters	0.86
150 meters	0.54
180 meters	0.50
210 meters	0.88
240 meters	0.90
270 meters	0.10
300 meters	1.12
Average	0.69

### Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	7
Width at narrowest point of the stream within 300 meter reach	3
Width at the widest point of the stream within 300 meter reach	9

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
COMMENTS:

#### ~~2. Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

### Field Data Sheets – Basic RUAA Survey

#### F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses? Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Dams
- Other (specify): \_\_\_\_\_
- Log jams
- Thick vegetation
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Playgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: \_\_\_\_\_
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

Field Data Sheets – Basic RUA Survey

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation: absent rare  common abundant  
 Algae Cover: absent  rare common abundant  
 Odor: none  rare common abundant  
 Color: clear green red  brown black  
 Bottom Deposit: sludge solids  fine sediments none other  
 Water Surface: clear scum foam debris  oil  
 Other:

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks  Fecal droppings  Bird nests

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed: tire, plastic bags, house hold

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Sign at Park entrance Says no fishing, no swimming etc. very visible (cops patrol often a right next to road)

Field Data Sheet - Basic RUAA Survey  
Stream Flow (Discharge) Measurement

Stream: Caney Creek Date: 7-16-10  
 Site: 602 Site Description: Hwy 190  
 Time Begin: 10:00 Time End: 10:52 Meter Type: AA  
 Observers: Painter, Connally Stream Width\*: 7.3m Section Width (W): .37m  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m <sup>3</sup> /s) (ft <sup>3</sup> /s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
.18	.30	.18		0	—
.55	0	0		0	—
.92	.66	.396		0	—
1.29	.73	.438		0	—
1.66	.86	.516		.022	.0070
2.03	.96	.576		.022	.0078
2.40	.87	.522		.022	.0071
2.77	.79	.474		.039	.0114
3.14	.77	.462		.022	.0063
3.51	.76	.456		.022	.0062
3.88	.78	.468		.022	.0063
4.25	.82	.492		.022	.0067
4.62	.73	.438		.039	.0105
4.99	.82	.492		.022	.0067
5.36	.80	.480		.022	.0065
5.73	.78	.468		.022	.0063
6.10	.89	.534		.022	.0072
6.47	.88	.528		.020	.0065
6.84	.83	.498		.022	.0068
7.21	.60	.360		0	—
				0	—

CFS

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2471  
2758  
2500  
4024  
2213  
2184  
2241  
2356  
3718  
2356  
2299  
2241  
2557  
2299  
2385

.1094cms / 3.86 cfs

CC#61

### Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information:	Eric Williams, Stephanie Paunker, Kara Connelly
Date & Time:	7/16/10 12:55 pm
County Name:	Newton
Stream Name:	Caney Creek
Segment No. or nearest downstream Segment No.:	0502B-04
Description of Site:	#61 - State loop 505

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the U.A.A.

30° 50' 32.9058" N  
93° 45' 36.6144" W

#### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry  no flow  low  normal  high  flooded

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

#### 3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. 0.472 cms 1.66 cfs

#### 4. Water Quality Data (Field Parameters)

Air Temp 35.5 °C      Water Temp n/a °C

\*thermometer broken

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<input checked="" type="checkbox"/> Forest	<input type="checkbox"/> Urban	<input type="checkbox"/> Rip rap
<input type="checkbox"/> Shrub dominated corridor	<input type="checkbox"/> Pasture	<input type="checkbox"/> Concrete
<input type="checkbox"/> Herbaceous marsh	<input type="checkbox"/> Row crops	Other (specify): _____
<input type="checkbox"/> Mowed/maintained corridor	<input type="checkbox"/> Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Steep banks & dense vegetation

#### 8. Dominant Primary Substrate

Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

Field Data Sheets – Basic RUAA Survey

B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

Yes  No  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children
- Wading-Adults
- Swimming
- Water skiing
- Diving
- Tubing
- Surfing
- Whitewater-kayaking, canoeing, rafting
- Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land / commercial operations

No primary contact activities that commonly occur were observed

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Steep banks & dense vegetation, not easily accessible

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Yes accessible to pedestrians by way of park.

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

Yes  No

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

- 1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?
  - Yes
  - No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.  None    1-10    11-20    20-50    greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water     In a boat touching water
- Body on shore near water within 8 meters (25ft) of water     Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
not easily accessible, steep banks & dense vegetation

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?     frequently     infrequently

Please describe how often the activities occur?     Unknown     Never     Daily     Monthly     Yearly

4. If infrequently, what is the reason?  physical characteristics of the water body     limited public access  
 other  
If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Steep banks & dense vegetation

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Stream banks are very overgrown & steep

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

i. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

Walker observed on bike trail near Stream

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**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable       Non-wadeable

**1. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 160° 30 M Photo's Upstream 260 Downstream 261 Left Bank 262 Right Bank 263  
 Bearing 160° 150 M Photo's Upstream 264 Downstream 265 Left Bank 266 Right Bank 267  
 Bearing 162° 300 M Photo's Upstream 268 Downstream 269 Left Bank 270 Right Bank 271

Tracks  
 Photos #  
 272 + 273  
 sp 9/20/10

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A substantial pool is >10 meters in length for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.86 m
60 meters	1.08
90 meters	0.78
120 meters	0.82
150 meters	0.98 m
180 meters	0.96
210 meters	0.92
240 meters	0.95
270 meters	1.00
300 meters	1.14 m
Average	0.95 m

sp 9/21/10

### Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	6.5
Width at narrowest point of the stream within 300 meter reach	5
Width at the widest point of the stream within 300 meter reach	8

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

COMMENTS:

~~2. Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

### Field Data Sheets – Basic RUAA Survey

#### F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Dams
- Log jams
- Thick vegetation
- Other (specify): \_\_\_\_\_
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: \_\_\_\_\_
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:    absent    rare     common    abundant
- Algae Cover:            absent     rare    common    abundant
- Odor:                    none    rare    common     abundant
- Color:                    clear    green    red     brown    black
- Bottom Deposit:         sludge    solids     fine sediments    none    other
- Water Surface:         clear    scum    foam    debris     oil
- Other:

8. Vertebrates Observed within 300 meter reach

- Snakes                     None     slight presence     moderate presence     large presence
- Water Dependent Birds  None     slight presence     moderate presence     large presence
- Alligators                 None     slight presence     moderate presence     large presence

Comments: *Only evidence of alligators. seen 7/10/11*

9. Mammals Observed within 300 meter reach

- Wild                         None     slight presence     moderate presence     large presence
- Domesticated Pets       None     slight presence     moderate presence     large presence
- Livestock                 None     slight presence     moderate presence     large presence
- Feral Hogs                 None     slight presence     moderate presence     large presence

Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks     Fecal droppings     Bird nests

11. Garbage Observed

- Large garbage in the channel  None     Rare     Common     Abundant
- Small garbage in the channel  None     Rare     Common     Abundant
- Bank Garbage              None     Rare     Common     Abundant

Briefly describe the kinds of garbage observed: *Cups*

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?     Yes     No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

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Field Data Sheet - Basic RUA Survey  
Stream Flow (Discharge) Measurement

Stream: Carey Date: 7/16/10  
 Site: #61 Site  
 Description: State loop 505  
 Time Begin: 1:05 Time End: 1:24 Meter Type: Type AA  
 Observers: Stephanie Painter, Kara Connelly Stream Width\*: 5.10 Section Width (W): 0.51  
 Observations:

Section Midpoint (m)	Section Depth (m) (cm) (D)	Observational Depth** (m)	Velocity (V)		Flow (Q) (m <sup>3</sup> /s) Q = (W)(D)(V)
			At Point (m/s)	Average (m/s)	
0.26	0.09	.054		not attainable	—
0.77	0.32	.192		0.053	.2086
1.28	0.27	.162		0.064	.2091
1.79	0.22	.132		0.053	.0059
2.3	0.20	.12		0.073	.0074
2.81	0.14	.084		0.088	.0062
3.31	0.09	.054		0.106	.0049
3.83	0.08	.048		<del>0.08</del> 0.103	.0042
4.34	0.02	.012		0.070	.0007
4.85	0.02	.012		0	—
					.0472cms

Cfs

—  
 .305  
 .320  
 .209  
 .262  
 .219  
 .171  
 .149  
 .025

1.66 cfs

Field Data Sheets – Basic RUAA Survey

Surv. of was completed as site # 63 where it is actually site # 63. In the map these will be two referenced as # 61. Suggest going off GPS coordinates to correctly I.D. few

Data Collectors & Contact Information:	Eric Williams, Stephanie Painter, Kara Connelly
Date & Time:	7/16/10 County Name: Newton
Stream Name:	Caney
Segment No. or nearest downstream Segment No.:	0502B-04
Description of Site:	#61 - State Loop 505 63 FM 190

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

A. Stream Characteristics:

1. Check the following channel flow status that applies.

- dry  no flow  ~~low~~  normal  high  flooded

30° 50' 25.9617" N

93° 45' 26.6646" W

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. 0.735 cms 2.59 cfs

4. Water Quality Data (Field Parameters)

Air Temp 33.5 °C Water Temp 27.2 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

- |  |  |                                   |
|--|--|-----------------------------------|
| <input checked="" type="checkbox"/> L+R Forest     | <input type="checkbox"/> Urban               | <input type="checkbox"/> Rip rap  |
| <input type="checkbox"/> Shrub dominated corridor  | <input type="checkbox"/> Pasture             | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Herbaceous marsh          | <input type="checkbox"/> Row crops           | Other (specify): _____            |
| <input type="checkbox"/> Mowed/maintained corridor | <input type="checkbox"/> Denuded/Eroded bank |                                   |

6. Ease of bank access to the water body: Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

From State Loop 505 beneath bridge

8. Dominant Primary Substrate

- Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

Yes  No  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children
- Wading-Adults
- Swimming
- Water skiing
- Diving
- Tubing
- Surfing
- Whitewater-kayaking, canoeing, rafting
- Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land / commercial operations

No primary contact activities that commonly occur were observed

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Channel debris

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

mowed grass by bridge

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

Yes  No

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.
- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?

Yes  
 No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water  In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

\_\_\_\_\_

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  ~~frequently~~  infrequently **cc**

Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly

4. If infrequently, what is the reason?  physical characteristics of the water body  limited public access  
 other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

Channel debris

\_\_\_\_\_

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

Stream banks were steep & overgrown, under bridge was only accessible recreation area

\_\_\_\_\_

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

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**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

u/s Bearing <sup>257</sup> ~~57°~~ 30 M Photo's Upstream <sup>248</sup> Downstream <sup>249</sup> Left Bank <sup>258</sup> Right Bank <sup>259</sup>  
 Bearing <sup>257</sup> ~~52° 10'~~ 150 M Photo's Upstream <sup>248</sup> Downstream <sup>249</sup> Left Bank <sup>258</sup> Right Bank <sup>259</sup>  
 D/S Bearing <sup>257</sup> ~~60° 40'~~ 300 M Photo's Upstream <sup>252</sup> Downstream <sup>253</sup> Left Bank <sup>254</sup> Right Bank <sup>255</sup>

photo # 256  
channel  
garbage

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A substantial pool is >10 meters in length for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	1.0m
60 meters	1.0m + 1.2m = 1.1m
90 meters	1.2m
120 meters	1.0m up
150 meters	Too Deep
180 meters	Too Deep
210 meters	Too Deep
240 meters	Too Deep
270 meters	Too Deep
300 meters	Too Deep
Average	1.07m

5/20/11  
M/c/e

**Field Data Sheets – Basic RUAA Survey**

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	7.5m
Width at narrowest point of the stream within 300 meter reach	5m
Width at the widest point of the stream within 300 meter reach	10m

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

COMMENTS:

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Field Data Sheets – Basic RUAA Survey

F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses? Yes  No  (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Dams
- Other (specify): \_\_\_\_\_
- Log jams
- Thick vegetation
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: \_\_\_\_\_
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks  Fecal droppings  Bird nests

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed house hold, gas tank off car, worm container (fishing tackle)

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CC+63

### Field Data Sheet - Basic RUA Survey

Stream Flow (Discharge) Measurement

Stream: Caney Creek Date: 7/16/10  
 Site: #61<sup>OP</sup> #43 Site  
 Description: State loop 505 w FM 190  
 Time Begin: 12:05 Time End: 12:27 Meter Type: Type AA  
 Observers: Stephanie Painter, Kara Connelly Stream Width\*: 6.30 Section Width (W): 0.63  
 Observations: \_\_\_\_\_

Section Midpoint (m)	Section Depth (m) (cm) (D)	Observational Depth** (m)	Velocity (V)		Flow (Q) (m <sup>3</sup> /s) Q = (W)(D)(V)
			At Point (m/s)	Average (m/s)	
0.32	0.40	.24		not attainable	—
0.95	0.50	.348		0	—
1.58	0.65	.39		0.022	.0090
2.21	0.90	.54		0.022	.0125
2.84	0.94	.564		0.017	.0101
3.47	0.97	.582		0.017	.0104
4.10	0.80	.480		0.039	.0197
4.73	0.816	.516		0.022	.0119
5.36	0.65	.390		0	—
5.99	0.32	.192		0	—
					<u>.0735cms</u>

cfs

—  
—  
.318  
.440  
.355  
.366  
.693  
.420  
—  
—

2.59 cfs

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information: <u>L. Bean, S. Painter, J. White, F. Williams</u>
Date & Time: <u>5/22/11 2:11 pm</u> County Name: <u>Newton</u>
Stream Name: <u>Coney Creek</u>
Segment No. or nearest downstream Segment No.: <u>0502B-03</u>
Description of Site: <u>CC-0054 (Crown Pine Timber w/s)</u>

### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

3.18 cfs 5/27/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 26.5 °C      Water Temp: 23.5 °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R,L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessibly from Crown Pine Timber property, requires ~1/8 mi bushwacking.

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Gangy Creek  
Date: 5/22/11

Site: C00084  
Time: 11am

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, steep, no vegetational banks, channel obstructions

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible from crown pine timber property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site?

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Ganey Creek Site: CC0084  
Date: 5/22/11 Time: 11am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
shallow depth, steep vegetated banks, channel obstructions
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
shallow depth, steep vegetated banks, channel obstructions
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible from across pine timber property

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
n/a

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC0084  
 Date: Thurs 5/23/11 Time: 11 a.m.

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 306 Downstream 307 Left Bank 308 Right Bank 309  
 Photos #s (150 meters) Upstream 310 Downstream 311 Left Bank 313 Right Bank 313 312  
 Photos #s (300 meters) Upstream 314 Downstream 315 Left Bank 316 Right Bank 317

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	4.0m	3m	1.1m
Pool 2	7.0m	5m	1.0m
Pool 3	3.0m	3.2m	0.93m
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.58
60 meters	0.22
90 meters	0.17
120 meters	0.22
150 meters	0.63
180 meters	0.53
210 meters	0.22
240 meters	0.42
270 meters	0.30
300 meters	0.63
<b>Average</b>	<b>0.39</b>

### Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC0084  
 Date: 5/22/11 Time: 11am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3
Width at narrowest point of the stream within 300 meter reach	1
Width at the widest point of the stream within 300 meter reach	4

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC004  
 Date: 5/22/11 Time: 11am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> Roads                        | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                  | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |  |
| <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____                 |   |  |  |

Comments: followed previously-cut, narrow path from track to stream

### Field Data Sheets – Basic RUAA Survey

Stream Name: Gony Creek Site: CC004  
 Date: 5/22/11 Time: 11am

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests deer, raccoon tracks

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

plastic bottles, styrofoam cooler, candy wrapper

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

n/a  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Field Data Sheet - Basic RUAA Survey**  
Stream Flow (Discharge) Measurement

Air  
26.5°C  
Water  
23.5°C

Stream: Caney Creek Date: 5/22/11  
 Site: CC005 Site Description: \_\_\_\_\_  
 Time Begin: 10:40 Time End: 1:00 Meter Type: \_\_\_\_\_  
 Observers: Bern / Painter Stream Width\*: 3.8 Section Width (W): 0.38  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
.19	0.10			0.089	0.0034
.57	0.20			0.140	0.0106
.95	0.20			0.184	0.0140
1.33	0.19			0.171	0.0123
1.71	0.13			0.170	0.0084
2.09	0.13			0.190	0.0094
2.47	0.15			0.241	0.0137
2.85	0.14			0.207	0.0110
3.23	0.10			0.190	0.0072
3.61	0.01			0	0
				Total	0.0901cms
					3.18 cfs

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information:	<i>L. Beran, S. Painter, J. White, E. Williams</i>
Date & Time:	<i>5/22/11 @ 10:00 am</i> County Name: <i>Newton</i>
Stream Name:	<i>Candy Creek</i>
Segment No. or nearest downstream Segment No.:	<i>0502B-03</i>
Description of Site:	<i>00024 (Crown Pine Timber d/s 00024)</i>

**A. Stream Characteristics:**

1. Check the following channel flow status that applies.
  - dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

3.34 cfs

4. Water Quality Data (Field Parameters)

*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*

Air Temp: 26.0 °C                      Water Temp: 23.3 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	Urban	Rip rap
Shrub dominated corridor	Pasture	Concrete
Herbaceous marsh	Row crops	Other (specify): _____
Mowed/maintained corridor	Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

most difficult access; bushwacking ~ 1/2 mile from truck

8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Carney Creek  
Date: 5/22/11

Site: CC0094  
Time: 10:00 am

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, log jams

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible thru Crown Pine Timber property, difficult access

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? AD

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek  
Date: 5/22/11

Site: CC005  
Time: 10:00am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
shallow depth, log jams
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
shallow depth, log jams
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Crown Pine Timber prop, most difficult access

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
n/a

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: LC005  
 Date: 5/22/14 Time: 10:00 am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 294 Downstream 295 Left Bank 296 Right Bank 297

Photos #s (150 meters) Upstream 298 Downstream 299 Left Bank 300 Right Bank 301

Photos #s (300 meters) Upstream 302 Downstream 303 Left Bank 304 Right Bank 305

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	3m	4m	0.9m
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.20
60 meters	0.25
90 meters	0.64
120 meters	0.72
150 meters	0.30
180 meters	0.30
210 meters	0.60
240 meters	1.0
270 meters	0.7
300 meters	0.2
<b>Average</b>	<b>0.44</b>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek Site: 66005  
 Date: 5/22/11 Time: 10:00am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3
Width at narrowest point of the stream within 300 meter reach	1
Width at the widest point of the stream within 300 meter reach	4

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cony Creek Site: CC005  
 Date: 5/22/11 Time: 10:00 am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences   | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): <u>overhanging vegetation</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: requires ~1/4 mi bushwacking from truck

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC005  
 Date: 5/22/11 Time: 10:00 am

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: water is mostly clear, pads are greenish from light (not algae)

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: turtles

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests possum tracks

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
 \_\_\_\_\_  
 \_\_\_\_\_

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

observed 1 game (?) trail down to water  
at 300m downstream from point of entry, CC004

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

Air 26.0°C  
Water 23.3°C

Stream: Caney Creek Date: 5/22/11  
 Site: CCDD5 Site Description: Crown Pine Timber  
 Time Begin: 9:50 A Time End: 10:10 am Meter Type: Type AA  
 Observers: Bern / Painter Stream Width\*: 3m Section Width (W): .30m  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
.15	0.01			0	0
.45	0.05			0.167	0.0025
.75	0.11			0.189	0.0062
1.05	0.14			0.269	0.0113
1.35	0.10			0.240	0.0130
1.65	0.19			0.274	0.0156
1.95	0.20			0.319	0.0191
2.25	0.19			0.308	0.0176
2.55	0.12			0.0257	0.0093
2.85	0.01			0	0
				Total	0.0946 cms 3.84 cfs

CC#59

### Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information: <u>Eric Williams, Stephanie Painter, Kara Connelly</u>	
Date & Time: <u>3:58 7/16/10</u>	County Name: <u>Newton</u>
Stream Name: <u>Caney</u>	
Segment No. or nearest downstream Segment No.: <u>0502B_02</u>	
Description of Site: <u># 59 Fm 2626</u>	

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

30° 46' 32.6073" N  
93° 40' 05.3998" W

#### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry  no flow  low  normal  high  flooded

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

#### 3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. .1089 cms 3.84 CFS

#### 4. Water Quality Data (Field Parameters)

Air Temp 37.6 °C      Water Temp n/a °C  
*thermometer broken*

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<input checked="" type="checkbox"/> Forest	<input type="checkbox"/> Urban	<input type="checkbox"/> Rip rap
<input type="checkbox"/> Shrub dominated corridor	<input type="checkbox"/> Pasture	<input type="checkbox"/> Concrete
<input type="checkbox"/> Herbaceous marsh	<input type="checkbox"/> Row crops	Other (specify): _____
<input type="checkbox"/> Mowed/maintained corridor	<input type="checkbox"/> Denuded/Eroded bank	

6. Ease of bank access to the water body: Easy  Moderately easy   Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

accessible from Fm 2626 under bridge; however not easy... very steep vegetated banks

#### 8. Dominant Primary Substrate

Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

- Yes
- No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children
- Wading-Adults
- Swimming
- Water skiing
- Diving
- Tubing
- Surfing
- Whitewater-kayaking, canoeing, rafting
- Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land / commercial operations
- No primary contact activities that commonly occur were observed

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

lots of log jams, <sup>kc</sup> deeper on downstream side, dense vegetated steep banks, low depth

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

access off of Fm 2626 next to bridge (under bridge)

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

- Yes
- No

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.
- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?  
 Yes  
 No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.  
 None     1-10     11-20     20-50     greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water     In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water     Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
not easy to access, steep, thick vegetated banks, log jams, low depth

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?     frequently     infrequently

Please describe how often the activities occur?     Unknown     Never     Daily     Monthly     Yearly

4. If infrequently, what is the reason?     physical characteristics of the water body     limited public access  
 other  
 If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
not easy to access, steep thick vegetated banks, log jams, low depth

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Stream banks overgrown

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

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**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

**I. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 180° 30 M Photo's Upstream 281 Downstream 282 Left Bank 283 Right Bank 284  
 Bearing 224° 150 M Photo's Upstream 285 Downstream 286 Left Bank 287 Right Bank 288  
 Bearing 240° 300 M Photo's Upstream 289 Downstream 290 Left Bank 291 Right Bank 292

photo # 294 '293  
 fishing poles  
 # 295  
 snake

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A substantial pool is >10 meters in length for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	1.2
60 meters	0.66
90 meters	0.42
120 meters	0.56
150 meters	0.20
180 meters	0.80
210 meters	0.56
240 meters	0.36
270 meters	0.26
300 meters	0.40
Average	0.54

### Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	6 m
Width at narrowest point of the stream within 300 meter reach	3 m
Width at the widest point of the stream within 300 meter reach	8 m

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

COMMENTS:

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#### ~~2. Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

~~Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

~~Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Field Data Sheets – Basic RUAA Survey

F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Log jams
- Thick vegetation
- Other (specify): \_\_\_\_\_
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: \_\_\_\_\_
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: landowners on upstream side have ~ 20 fishing poles on banks.

## Field Data Sheets – Basic RUAA Survey

## 7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent     rare     common     abundant  
 Algae Cover:  absent     rare     common     abundant  
 Odor:  none     rare     common     abundant  
 Color:  clear     green     red     brown     black  
 Bottom Deposit:  sludge     solids     fine sediments     none     other  
 Water Surface:  clear     scum     foam     debris     oil  
 Other:

## 8. Vertebrates Observed within 300 meter reach

Snakes  None     slight presence     moderate presence     large presence  
 Water Dependent Birds  None     slight presence     moderate presence     large presence  
 Alligators  None     slight presence     moderate presence     large presence

Comments: \_\_\_\_\_

## 9. Mammals Observed within 300 meter reach

Wild  None     slight presence     moderate presence     large presence  
 Domesticated Pets  None     slight presence     moderate presence     large presence  
 Livestock  None     slight presence     moderate presence     large presence  
 Feral Hogs  None     slight presence     moderate presence     large presence

Comments: \_\_\_\_\_

## 10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks     Fecal droppings     Bird nests

## 11. Garbage Observed

Large garbage in the channel  None     Rare     Common     Abundant  
 Small garbage in the channel  None     Rare     Common     Abundant  
 Bank Garbage  None     Rare     Common     Abundant

Briefly describe the kinds of garbage observed: vending machine (newspaper), bullet casing

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?  Yes     No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Spotted fishing poles (evidence) in river, over 20, scattered from (bamboo) 0-300m

C.C. #59

Field Data Sheet - Basic RUA Survey  
Stream Flow (Discharge) Measurement

Stream: Caney Date: 7/16/10  
 Site: #59 Site  
 Description: Fm 7626  
 Time Begin: 4:06 Time End: \_\_\_\_\_ Meter Type: type AA  
 Observers: Stephanie Painter, Kara Connelly Stream Width\*: 4.65m Section Width (W): 0.465  
 Observations: \_\_\_\_\_

Section Midpoint (m)	Section Depth (m) (cm) (D)	Observational Depth** (m)	Velocity (V)		Flow (Q) (m³/s) Q = (W)(D)(V)
			At Point (m/s)	Average (m/s)	
0.23	0.07	.042		0.056	.0009
0.7025	0.18	.108		0.039	.0033
1.17	0.27	.162		0.071	.0090
1.64	0.28	.168		0.105	.0138
2.11	0.38	.228		0.14	.0250
2.58	0.31	.186		0.223	.0325
3.05	0.36	.216		0.106	.0179
3.52	0.28	.168		0.035	.0046
3.99	0.24	.144		0.016	.0018
4.46	0.10	.06		0	—
					<u>.1089 CMS</u>

CFS

.032  
.116  
.317  
.487  
.882  
1.14  
.633  
.162  
.063  
—

3.84 cfs

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information:	L. Bern, J. Painter, J. White, E. Williams		
Date & Time:	5/21/11 @ 2:30pm	County Name:	Newton Co.
Stream Name:	Cane Creek		
Segment No. or nearest downstream Segment No.:	0502B-02		
Description of Site:	Neil Ross CC006		

### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

2.68 cfs 5/21/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 31.6 °C 89°F      Water Temp: — °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	Urban	Rip rap
Shrub dominated corridor	Pasture	Concrete
Herbaceous marsh	Row crops	Other (specify): _____
Mowed/maintained corridor	Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only accessible through Neil Ross property, parked near river, crossed fence w/ ladder.

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek Site: 0006  
Date: 5/2/11 Time: 2:30pm

### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

- a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children  Tubing  No primary contact activities that commonly occur were observed  
 Wading-Adults  Surfing  Swimming  Whitewater-kayaking, canoeing, rafting  
 Water skiing  Diving  Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

- b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  >50

- c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Shallow depth, log jams, vegetated channel overgrowth

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Neil Ross property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? No

### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.
- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

- a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek  
Date: 5/10/11

Site: CC006  
Time: 3:30 pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
shallow depth, log jams, vegetated channel overgrowth

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently  
Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly

4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
shallow depth, log jams, vegetated channel overgrowth

6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Neil Ross property

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
n/a

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: C0006  
 Date: 5/21/14 Time: 2:30pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### I. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 266 Downstream 267 Left Bank 268 Right Bank 269 #278 - reason faces  
 Photos #s (150 meters) Upstream 270 Downstream 271 Left Bank 272 Right Bank 273 #279 - livestock trail  
 Photos #s (300 meters) Upstream 274 Downstream 275 Left Bank 276 Right Bank 277 #280 - access point

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	5.0m	4.0m	1.0m
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.30m
60 meters	0.40m
90 meters	0.52m
120 meters	0.30m
150 meters	0.30m
180 meters	0.27
210 meters	0.45
240 meters	0.33
270 meters	0.33
300 meters	0.22
<b>Average</b>	<b>0.35m</b>

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC 006  
 Date: 5/21/10 Time: 2:30 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3
Width at narrowest point of the stream within 300 meter reach	1.5
Width at the widest point of the stream within 300 meter reach	4

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Carney Creek Site: 00006  
 Date: 5/2/11 Time: 2:30 pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input type="checkbox"/> No trespass sign            |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Carney Creek Site: CC00  
 Date: 5/21/11 Time: 2:30pm

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: frogs

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: horses in pasture adjacent to creek, horse manure & tracks

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks  Fecal droppings  Bird nests some deer, raccoon

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:

lumber, tin can, small canister

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

n/a

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

Air 89°F  
Water

Stream: Caney Creek Date: 5/21  
 Site: 000060 Site Description: Neil Ross  
 Time Begin: 2:10P Time End: 2:40pm Meter Type: Type AA  
 Observers: Aaron / Painter Stream Width\*: 2.8 Section Width (W): 0.28  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
0.14	0.01			0	0
0.42	0.15			0	0
0.70	0.26			0.066	0.0048
0.98	0.27			0.136	0.0103
1.26	0.28			0.274	0.0215
1.54	0.36			0.241	0.0243
1.82	0.21			0.137	0.0081
2.10	0.12			0.169	0.0057
<del>2.38</del> 2.38	0.04			0.123	0.0014
2.66	0.01			0	0
				Total	0.0760 cms
					2.68 cfs

SP 7/11/11

## Field Data Sheets – Basic RUAA Survey

(to be completed for each site)

Data Collectors & Contact Information:	L. Beran, S. Painter, J. White, K. Williams	
Date & Time:	5/21/11 @ 3:30 pm	County Name: Newton
Stream Name:	Cany Creek	
Segment No. or nearest downstream Segment No.:	0502B-01	
Description of Site:	C007 (Crown Pine Timber)	

### A. Stream Characteristics:

1. Check the following channel flow status that applies.
  - dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

### 3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

3.16 cfs SP 7/1/11

### 4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 32.1 °C                      Water Temp: 25.1 °C

### 5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>B, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

### 6. Ease of bank access to the water body: Easy   Moderately easy   Moderately difficult   Difficult

### 7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only accessible through private property, along logging road.  
Sheep, heavily vegetated banks

### 8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek

Site: 02007

Date: 5/21/11

Time: 3:30 pm

### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Log in stream, mud, rocky water, poisonous snakes, deep, vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Only accessible through private property, along logging road.

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site?

### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC007  
Date: 5/21/11 Time: 3:30 pm

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
loop in stream channel, murky water, poisonous snakes,  
steep vegetated banks
3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
loop in stream channel, murky water, poisonous snakes,  
steep vegetated banks
6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Only accessible through private property along logging road

#### D. Noncontact Recreation Evaluation

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Deer stand, feeder ~ 30 m from the reach on  
logging road.

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC007  
 Date: 5/21/11 Time: 3:30 pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 281 Downstream 282 Left Bank 283 Right Bank 284  
 Photos #s (150 meters) Upstream 285 Downstream 286 Left Bank 287 Right Bank 288  
 Photos #s (300 meters) Upstream 289 Downstream 290 Left Bank 291 Right Bank 292

*Extra photos 293 - snake*

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<del>15m</del> <u>9.2m</u> <del>120m</del>	<u>7m</u>	<u>1.48m</u>
Pool 2	<u>15m</u>	<u>10m</u>	<u>1.5m</u>
Pool 3	<u>12m</u>	<u>8m</u>	<u>1.6m</u>
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>1.48</u>
60 meters	<u>0.54</u>
90 meters	<u>0.30</u>
120 meters	<u>1.15</u>
150 meters	<u>0.35</u>
180 meters	<u>0.55</u>
210 meters	<u>0.22</u>
240 meters	<u>0.30</u>
270 meters	<u>0.70</u>
300 meters	<u>0.25</u>
<b>Average</b>	<b><u>0.58m</u></b>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC007  
 Date: 5/21/11 Time: 3:30 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	5 m
Width at narrowest point of the stream within 300 meter reach	3.5 m
Width at the widest point of the stream within 300 meter reach	10 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

### 2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC007  
 Date: 5/21/11 Time: 3:30pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Private Property          | <input checked="" type="checkbox"/> Fence                       | <input checked="" type="checkbox"/> No trespass sign (purple paint) |
| <input type="checkbox"/> Barge/ship traffic                   | <input type="checkbox"/> Wildlife                               | <input type="checkbox"/> Industrial                                 |
| <input checked="" type="checkbox"/> Steep slopes              | <input type="checkbox"/> None of the Above                      | <input checked="" type="checkbox"/> No public access                |
| <input checked="" type="checkbox"/> Other: <u>locked gate</u> | <input checked="" type="checkbox"/> No roads <u>JEW 7/10/11</u> |   |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC007  
 Date: 5/21/11 Time: 3:30pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: frogs

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests possum tracks

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
cans

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

n/a

35.9  
1.8  
28.72  
35.9  
14.22  
21.970

Air 34.5°C  
32.1  
Water  
25.1

Field Data Sheet - Basic RUAA Survey  
Stream Flow (Discharge) Measurement

Stream: Caney Creek Date: 5/21  
 Site: 6607 Site Description: Crown Point Timber  
 Time Begin: 3:30 Time End: 4:00 pm Meter Type: Type AA  
 Observers: L. Beran, J. Painter Stream Width\*: 5m Section Width (W): 0.5m  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
0.25	0.01			0	0
.75	0.39			0.0	0
1.25	0.44			0.0	0
1.75	0.56			0.039	0.0109
2.25	0.62			0.056	0.0174
2.75	0.68			0.051	0.0173
3.25	0.73			0.054	0.0197
3.75	0.68			0.052	0.0177
4.25	0.34			0.038	0.0065
4.75	0.13			0.0	0
				Total	0.0895 cms
					3.16 cfs

SP 7/6/4

### Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information:	Eric Williams, Stephanie Paunter, Kara Connolly
Date & Time:	7/17/10 8:08 am County Name: Newton
Stream Name:	Caney #58
Segment No. or nearest downstream Segment No.:	0502B, X0201
Description of Site:	#58 - County Rd 2001

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

#### A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry  no flow  low  normal  high  flooded

30° 44' 46.7625" N  
93° 38' 47.0921" W

2. Check the following stream type that applies on the day of the survey:

- Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
- Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
- Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
- Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

#### 3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. .2054 cms 7.25 cfs

#### 4. Water Quality Data (Field Parameters)

Air Temp 27.0 °C Water Temp na °C  
 Thermometer broken

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

- |  |  |                                   |
|--|--|-----------------------------------|
| <input checked="" type="checkbox"/> Forest         | <input type="checkbox"/> Urban               | <input type="checkbox"/> Rip rap  |
| <input type="checkbox"/> Shrub dominated corridor  | <input type="checkbox"/> Pasture             | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Herbaceous marsh          | <input type="checkbox"/> Row crops           | Other (specify): _____            |
| <input type="checkbox"/> Mowed/maintained corridor | <input type="checkbox"/> Denuded/Eroded bank |                                   |

6. Ease of bank access to the water body: Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

From road below bridge on CR 2001

#### 8. Dominant Primary Substrate

- Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

## Field Data Sheets – Basic RUAA Survey

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

Wading-Children  Tubing  No primary contact activities that commonly occur were observed  
 Wading-Adults  Surfing  
 Swimming  Whitewater-kayaking, canoeing, rafting  
 Water skiing  Other: \_\_\_\_\_  
 Diving  frequent public swimming-created by publicly owned land / commercial operations

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

Water in mouth or nose of the individual  Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  Individual far - between 8 and 30 meters (100 ft)  
 Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Private property on each side

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

below bridge on CR 2001

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

Yes  No

\* on property NW evidence of fishing & swimming... rope swing over stream... recreation occurs

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?

- Yes
 No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
 Boating-commercial, recreational
 Non-whitewater-kayaking, rafting, canoeing
 No secondary contact recreation activities were observed
 Other secondary contact activities:

b. Individuals observed at the site.

- None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water  In a boat touching water
 Body on shore near water within 8 meters (25ft) of water  Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

low depth, log jams, debris, in channel (lots of garbage)

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently

Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly

4. If infrequently, what is the reason?  physical characteristics of the water body  limited public access  other

If other, list reasons:

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

low depth, log jams, debris in channel

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

Private property on either side

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

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**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

**I. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 64° 30 M Photo's Upstream 296 Downstream 297 Left Bank 298 Right Bank 299  
 Bearing 136° 150 M Photo's Upstream 300 Downstream 301 Left Bank 302 Right Bank 303  
 Bearing 70° 300 M Photo's Upstream 304 Downstream 305 Left Bank 306 Right Bank 307

#308 - log jam  
234°

#309 - large garbage  
86°

#310 - skeletal system

#311-313: recreation area

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A substantial pool is >10 meters in length for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.22
60 meters	0.26
90 meters	0.74
120 meters	0.24
150 meters	0.10
180 meters	0.44
210 meters	0.20
240 meters	0.50
270 meters	0.30
300 meters	0.30
<b>Average</b>	<b>0.33</b>

Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	6
Width at narrowest point of the stream within 300 meter reach	5
Width at the widest point of the stream within 300 meter reach	7

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation? Yes  No

COMMENTS:

*None within the stretch that was walked. However on the upstream side there was a pool ~ 300m where rope swing and fishing tackle was observed.*

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Field Data Sheets – Basic RUAA Survey

F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Dams
- Log jams
- Thick vegetation
- Other (specify): \_\_\_\_\_
- Rip rap
- Low bridges
- None
- Water control structure

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Playgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: \_\_\_\_\_
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUA Survey

## 7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent    rare    common    abundant  
 Algae Cover:  absent    rare    common    abundant  
 Odor:  none    rare    common    abundant  
 Color:  clear    green    red    brown    black  
 Bottom Deposit:    sludge    solids     fine sediments    none    other  
 Water Surface:  clear    scum    foam    debris    oil  
 Other:

## 8. Vertebrates Observed within 300 meter reach

Snakes  None    slight presence    moderate presence    large presence  
 Water Dependent Birds  None    slight presence    moderate presence    large presence  
 Alligators  None    slight presence    moderate presence    large presence  
 Comments:

## 9. Mammals Observed within 300 meter reach

Wild  ~~None~~    slight presence     moderate presence    large presence  
 Domesticated Pets  None    slight presence    moderate presence    large presence  
 Livestock  None    slight presence    moderate presence    large presence  
 Feral Hogs  None    slight presence    moderate presence    large presence  
 Comments:

## 10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks     Fecal droppings     Bird nests

## 11. Garbage Observed

Large garbage in the channel     None     Rare     Common     Abundant  
 Small garbage in the channel     None     Rare     Common     Abundant  
 Bank Garbage     None     Rare     Common     Abundant

Briefly describe the kinds of garbage observed: house hold, toilet, TVs, microwaves, Cooler

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?     Yes     No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Upstream @ ~ 300m there was a recreational area observed. Additional photos attached.

**Field Data Sheet - Basic RUAA Survey**  
Stream Flow (Discharge) Measurement

Stream: Caney Date: 7/17/10  
 Site: #58 Site \_\_\_\_\_  
 Description: County Rd 2001  
 Time Begin: 8:15 Time End: \_\_\_\_\_ Meter Type: Meter type AA  
 Observers: Stephanie Painter, Kara Connelly Stream Width: 7.1m Section Width (W): 0.36m  
 Observations: \_\_\_\_\_

Section Midpoint (m)	Section Depth (m) (cm) (D)	Observational Depth** (m)	Velocity (V)		Flow (Q) (m <sup>3</sup> /s) Q = (W)(D)(V)
			At Point (m/s)	Average (m/s)	
0.18	trace	0		N/A	—
0.54	trace	0		N/A	—
0.9	0.02	.012		0	—
1.26	0.06	.036		0.155	.0033
1.62	0.20	.12		0.171	.0123
1.98	0.28	.168		0.154	.0155
2.34	0.40	.24		0.237	.0341
2.70	0.38	.228		0.252	.0345
3.06	0.36	.216		0.325	.0421
3.42	0.33	.198		0.218	.0259
3.78	0.27	.162		0.137	.0133
4.14	0.12	.072		0.224	.0097
4.50	0.07	.042		0.173	.0044
4.86	0.05	.03		0.165	.0030
5.22	0.06	.036		0.150	.0032
5.58	0.08	.048		0.073	.0021
5.94	0.08	.048		0.039	.0011
6.30	0.07	.042		0.039	.0010
6.66	0.02	.012		N/A	—
7.02	0	0		N/A	—

CFS

—  
—  
—  
.118  
.434  
.548  
1.20  
1.21  
1.48  
.914  
.470  
341  
153  
104  
114  
.074  
.039  
.034

.2056 cfs / 7.25 cfs

Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information:	Eric Williams, Stephanie Painter, Kara Connelly
Date & Time:	7/17/10 9:53am County Name: Newton
Stream Name:	Carney Creek
Segment No. or nearest downstream Segment No.:	0502B-D1
Description of Site:	#56 - US Hwy 190

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the U.A.A.

30° 44' 47.77" N  
93° 38' 03.8091" W

A. Stream Characteristics:

1. Check the following channel flow status that applies.  
 dry  no flow  low  normal  high  flooded

2. Check the following stream type that applies on the day of the survey:

- Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
- Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
- Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
- Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. .2099 cfs 7.40 cfs

4. Water Quality Data (Field Parameters)

Air Temp 30 °C Water Temp n/a °C  
thermometer broken

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

- |  |  |                                   |
|--|--|-----------------------------------|
| <input checked="" type="checkbox"/> Forest         | <input type="checkbox"/> Urban               | <input type="checkbox"/> Rip rap  |
| <input type="checkbox"/> Shrub dominated corridor  | <input type="checkbox"/> Pasture             | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Herbaceous marsh          | <input type="checkbox"/> Row crops           | Other (specify): _____            |
| <input type="checkbox"/> Mowed/maintained corridor | <input type="checkbox"/> Denuded/Eroded bank |                                   |

6. Ease of bank access to the water body: Easy  Moderately easy  Moderately difficult  Difficult  
OP 7/21/10

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

From NE side of US Hwy 190 below bridge, steep banks

8. Dominant Primary Substrate

Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children
- Wading-Adults
- Swimming
- Water skiing
- Diving
- Tubing
- Surfing
- Whitewater-kayaking, canoeing, rafting
- Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land / commercial operations

No primary contact activities that commonly occur were observed

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

low depth, log jams, vegetated banks

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

From NE side of #1 US Hwy 190 below bridge

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

Yes  No

*JEW 7/10/11*

*Sabine River is ≈ 2 miles East of this site.*

### C. Secondary Contact Water Recreation Evaluation:

- **Secondary contact recreation 1:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- **Secondary contact recreation 2:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?

Yes

No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

Fishing

Boating-commercial, recreational

Non-whitewater-kayaking, rafting, canoeing

No secondary contact recreation activities were observed

Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.

None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

Secondary touch: fishing, pets and related contact with water  In a boat touching water

Body on shore near water within 8 meters (25ft) of water  Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

low depth, log jams, vegetated banks

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently

Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly

4. If infrequently, what is the reason?  physical characteristics of the water body  limited public access  
other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

low depth, log jams, vegetated banks

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

Stream banks overgrown

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:      Wadeable      Non-wadeable

1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 140° 30 M Photo's Upstream <sup>323</sup>323 Downstream <sup>324</sup>324 Left Bank <sup>325</sup>325 Right Bank <sup>326</sup>326 #322 log jam  
 Bearing 50° 150 M Photo's Upstream 314 Downstream 315 Left Bank 316 Right Bank 317  
 Bearing 204° 300 M Photo's Upstream 318 Downstream 319 Left Bank 320 Right Bank 321

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A **substantial pool is >10 meters in length** for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.18
60 meters	0.20
90 meters	0.50
120 meters	0.10
150 meters	0.20
180 meters	0.30
210 meters	0.52
240 meters	0.54
270 meters	0.90
300 meters	0.34
<b>Average</b>	<b>0.38</b>

Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	7
Width at narrowest point of the stream within 300 meter reach	6
Width at the widest point of the stream within 300 meter reach	8

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

2. ~~Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Field Data Sheets – Basic RUAA Survey

F. Stream Site Location Summary

1. Check the following activities observed over the site reach.

- Drinking or water in mouth
- Bathing
- Walking
- Jogging/running
- Bicycling
- Standing
- Sitting
- Lying down/sleeping
- Playing on shoreline
- Picnicking
- Motorcycle/ATV
- Hunting/Trapping
- Wildlife watching
- None
- Other: \_\_\_\_\_

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- Culverts
- Barbed wire
- Utility pipe
- Fences
- Dams
- Log jams
- Thick vegetation
- Other (specify): \_\_\_\_\_
- Rip rap
- Low bridges
- Water control structure
- None

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- Campgrounds
- Playgrounds
- Rural area
- Residential
- National forests
- Urban/suburban location
- Golf Course
- Sports Field
- Stairs/walkway
- Boating access (ramps)
- Beach
- Bridge crossing
- Commercial boating
- Trails/paths (hiking/biking)
- Paved parking lot
- Unimproved parking lot
- Roads (paved/unpaved)
- Populated area
- Docks or rafts
- Commercial outfitter
- Nearby school
- Power Line Corridor
- Parks (national/city/county/state)
- Public Property
- Other: \_\_\_\_\_
- None of the Above

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- Private Property
- No trespass sign
- Wildlife
- Steep slopes
- No public access
- No roads
- Fence
- Barge/ship traffic
- Industrial
- None of the Above
- Other: \_\_\_\_\_

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- Roads
- Rope swings
- Dock/platform
- Foot paths/prints
- Other: graffiti
- RV/ATV Tracks
- Camping Sites
- Fire pit/ring
- Fishing Tackle
- NPDES Discharge
- Gates on corridor
- Children's toys
- Remnant's of Kid's play
- Organized event
- No Human Presence

Comments: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent     rare     common     abundant  
 Algae Cover:  absent     rare     common     abundant  
 Odor:  none     rare     common     abundant  
 Color:  clear     green     red     brown     black  
 Bottom Deposit:  sludge     solids     fine sediments     none     other  
 Water Surface:  clear     scum     foam     debris     oil  
 Other:

8. Vertebrates Observed within 300 meter reach

Snakes  None     slight presence     moderate presence     large presence  
 Water Dependent Birds  None     slight presence     moderate presence     large presence  
 Alligators  None     slight presence     moderate presence     large presence  
 Comments:

9. Mammals Observed within 300 meter reach

Wild  None     slight presence     moderate presence     large presence  
 Domesticated Pets  None     slight presence     moderate presence     large presence  
 Livestock  None     slight presence     moderate presence     large presence  
 Feral Hogs  None     slight presence     moderate presence     large presence  
 Comments:

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks     Fecal droppings     Bird nests

11. Garbage Observed

Large garbage in the channel  None     Rare     Common     Abundant  
 Small garbage in the channel  None     Rare     Common     Abundant  
 Bank Garbage  None     Rare     Common     Abundant

Briefly describe the kinds of garbage observed: tires, house hold

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?  Yes     No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).



Field Data Sheets – Basic RUAA Survey

Data Collectors & Contact Information:	Eric Williams, Stephanie Painter, Kara Connolly
Date & Time:	7/17/10 11:38 AM County Name: Newton
Stream Name:	Caney Creek
Segment No. or nearest downstream Segment No.:	05028-01
Description of Site:	#57 - Sabine Sands Rd

At any point during the Basic RUAA Survey it becomes apparent that primary contact recreation is clearly the use for the water body the investigator should stop conducting the UAA.

30° 44' 29.9062" N

A. Stream Characteristics:

1. Check the following channel flow status that applies.  
dry  no flow  low  normal  high  flooded

93° 38' 03.8489" W

2. Check the following stream type that applies on the day of the survey:

**Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.

**Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.

**Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.

**Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.

**Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Stream flow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the stream flow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites. 0.264 cms 9.32 cfs

4. Water Quality Data (Field Parameters)

Air Temp 32 °C

Water Temp n/a °C  
*Thermometer broken*

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<input checked="" type="checkbox"/> Forest	<input type="checkbox"/> Urban	<input type="checkbox"/> Rip rap
<input type="checkbox"/> Shrub dominated corridor	<input type="checkbox"/> Pasture	<input type="checkbox"/> Concrete
<input type="checkbox"/> Herbaceous marsh	<input type="checkbox"/> Row crops	Other (specify): _____
<input type="checkbox"/> Mowed/maintained corridor	<input type="checkbox"/> Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy  Moderately easy  Moderately difficult  Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Access from below bridge on Sabine Sands Rd; however steep vegetated banks

8. Dominant Primary Substrate

Cobble  Sand  Silt  Mud/Clay  Gravel  Bedrock  Rip rap  Concrete

### Field Data Sheets – Basic RUAA Survey

#### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?

Yes  No  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children
- Wading-Adults
- Swimming
- Water skiing
- Diving
- Tubing
- Surfing
- Whitewater-kayaking, canoeing, rafting
- Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land / commercial operations

No primary contact activities that commonly occur were observed

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual far - between 8 and 30 meters (100 ft)
- Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Steep vegetated banks, lots of log jams with low depth

3. Describe if there is public access (e.g. parks, roads, etc.) (Attach photos, maps, etc. for documentation).

below bridge on Sabine Sands Rd

4. Are areas with primary contact recreation activities/ bathing beach (e.g. state/local parks with swimming, etc.) located near (e.g. w/in 5 miles upstream and downstream) this site?

Yes  No

**C. Secondary Contact Water Recreation Evaluation:**

- **Secondary contact recreation 1:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- **Secondary contact recreation 2:** Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

- 1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g. secondary contact recreation activities)?
  - Yes
  - No secondary

a. Type of secondary contact recreation activities observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

b. Individuals observed at the site.  None    1-10    11-20    20-50    greater than 50

c. Check ALL that apply regarding the individuals proximity to the water body.

- Secondary touch: fishing, pets and related contact with water    In a boat touching water
- Body on shore near water within 8 meters (25ft) of water    Body far away - 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

log jams, steep vegetated banks, low depth

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently

Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly

4. If infrequently, what is the reason?    physical characteristics of the water body    limited public access  
 other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

log jams, steep vegetated banks, low depth

6. Describe why there is limited public access (e.g. lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

steep banks, very overgrown

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

N/A

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable       Non-wadeable

1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Bearing 200° 30 M Photo's Upstream <sup>327</sup>~~334~~ Downstream <sup>328</sup>~~335~~ Left Bank <sup>329</sup>~~336~~ Right Bank <sup>330</sup>~~337~~  
 Bearing 190° 150 M Photo's Upstream <sup>331</sup>~~331~~ Downstream <sup>332</sup>~~332~~ Left Bank <sup>333</sup>~~333~~ Right Bank <sup>334</sup>~~334~~  
 Bearing 180° 300 M Photo's Upstream <sup>335</sup>~~335~~ Downstream <sup>336</sup>~~336~~ Left Bank <sup>337</sup>~~337~~ Right Bank <sup>338</sup>~~338~~

a) Substantial pools - Measure the length, width (@ widest point) and depth of each pool (if > 10 pools only measure 10 pools). A **substantial pool is >10 meters in length** for a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.50
60 meters	0.62
90 meters	0.26
120 meters	0.40
150 meters	0.36
180 meters	0.38
210 meters	0.18
240 meters	0.36
270 meters	0.50
300 meters	0.34
Average	0.39

9/2/10

### Field Data Sheets – Basic RUAA Survey

c) Stream width - Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	7.5
Width at narrowest point of the stream within 300 meter reach	5
Width at the widest point of the stream within 300 meter reach	10

d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 COMMENTS:

2. ~~Non-wadeable Streams~~

~~If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.~~

~~Bearing \_\_\_\_\_ 30 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 150 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Bearing \_\_\_\_\_ 300 M Photo's Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_~~

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

## F. Stream Site Location Summary

## 1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

## 3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |  |                                      |  |
|---------------------------------------|--|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences  | <input checked="" type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams  | <input checked="" type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>Abundant Garbage</u> |  |                                      |  |

## 4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor     |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

## 5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Private Property | <input type="checkbox"/> Fence                                     |
| <input type="checkbox"/> No trespass sign            | <input type="checkbox"/> Barge/ship traffic                        |
| <input type="checkbox"/> Wildlife                    | <input type="checkbox"/> Industrial                                |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above                         |
| <input type="checkbox"/> No public access            | <input checked="" type="checkbox"/> Other: <u>Abundant Garbage</u> |
| <input type="checkbox"/> No roads                    |  |

Comments: \_\_\_\_\_

## 6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent    rare    common    abundant  
 Algae Cover:  absent    rare    common    abundant  
 Odor:  none    rare    common    abundant  
 Color:            clear    green    red     brown    black  
 Bottom Deposit:    sludge    solids     fine sediments    none    other  
 Water Surface:  clear    scum    foam    debris    oil  
 Other:

8. Vertebrates Observed within 300 meter reach

Snakes  None     slight presence     moderate presence     large presence  
 Water Dependent Birds  None     slight presence     moderate presence     large presence  
 Alligators  None     slight presence     moderate presence     large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

Wild  None     slight presence     moderate presence     large presence  
 Domesticated Pets  None     slight presence     moderate presence     large presence  
 Livestock  None     slight presence     moderate presence     large presence  
 Feral Hogs  None     slight presence     moderate presence     large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks     Fecal droppings     Bird nests

11. Garbage Observed

Large garbage in the channel     None     Rare     Common     Abundant  
 Small garbage in the channel     None     Rare     Common     Abundant  
 Bank Garbage                     None     Rare     Common     Abundant

Briefly describe the kinds of garbage observed: house hold, tires, microwaves, TVs, lawn mower

12. Is the site located in a wildlife preserve with large wildlife (i.e waterfowl) population?    Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Sewage treatment plant flows into stream

**Field Data Sheet - Basic RUA Survey**  
Stream Flow (Discharge) Measurement

Stream: Canay Creek Date: 7/17/10  
 Site: #57 Site  
 Description: Sabine Sands Rd  
 Time Begin: 11:50 Time End: \_\_\_\_\_ Meter Type: Type AA  
 Observers: Stephanie Runter, Kara Connelly Stream Width\*: 5.6 Section Width (W): 0.28  
 Observations: \_\_\_\_\_

Section Midpoint (m)	Section Depth (m) (cm) (D)	Observational Depth** (m)	Velocity (V)		Flow (Q) (m³/s) Q = (W)(D)(V)
			At Point (m/s)	Average (m/s)	
0.14	0.08	.048		N/A	
0.42	0.11	.066		0.035	.0011
0.70	0.26	.156		0	
0.98	0.44	.264		0.022	.0027
1.26	0.58	.348		0.050	.0081
1.54	0.62	.372		0.089	.0155
1.82	0.60	.360		0.157	.0264
2.10	0.58	.348		0.241	.0391
2.38	0.54	.324		0.224	.0339
2.66	0.52	.312		0.173	.0252
2.94	0.54	.324		0.104	.0157
3.22	0.33	.198		0.123	.0114
3.50	0.33	.198		0.199	.0184
3.78	0.35	.210		0.123	.0121
4.06	0.33	.198		0.150	.0139
4.34	0.30	.180		0.257	.0216
4.62	0.24	.144		0.140	.0094
4.90	0.18	.108		0.106	.0053
5.18	0.11	.066		0.123	.0038
5.46	0.02	.012		0.089	.0005

Cfs

.0388  
 .0953  
 .2859  
 .5471  
 .9319  
 1.3802  
 1.1966  
 .8895  
 .5542  
 .4024  
 .6495  
 .4271  
 .4906  
 .7624  
 .3318  
 .1870  
 .1341  
 .0176

.2639 / 9.3156 cfs

N 30° 53.136'  
W 93° 46.120'

**Field Data Sheets – Basic RUA Survey**

(to be completed for each site)

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams	
Date & Time:	6/24/11 @ 7:30am	County Name: Newton Co.
Stream Name:	Cane Creek	
Segment No. or nearest downstream Segment No.:		
Description of Site:	CC001 - Crown Pine Upstream	

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0.85 cfs

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 24.5 °C      Water Temp: 24.2 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>R,L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Reach begins 300m upstream from CC002; walked up through creek, steep, vegetated banks

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Gandy Creek  
Date: 6/29/14

Site: CC001  
Time: 7:30am

B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, logs, steep, vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Crown Peak property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Camp Creek Site: CC001  
Date: 6/24/11 Time: 7:30am

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
shallow depth, logs, steep vegetated banks
3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Crown Point property

#### D. Noncontact Recreation Evaluation

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

## Field Data Sheets – Basic RUAA Survey

Stream Name: Gony Creek Site: CC001  
 Date: 6/24/14 Time: 7:30 AM

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### I. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 1 Downstream 2 Left Bank 3 Right Bank 4  
 Photos #s (150 meters) Upstream 5 Downstream 6 Left Bank 7 Right Bank 8  
 Photos #s (300 meters) Upstream 9 Downstream 10 Left Bank 11 Right Bank 12

*Extra photos  
13 debris in channel  
14 scum/shcan  
15 critter hole  
16 bank/riparian zone*

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<u>20 m</u>	<u>7 m</u>	<u>1.3 m</u>
Pool 2	<u>5 m</u>	<u>10 m</u>	<u>1.34 m</u>
Pool 3	<u>6 m</u>	<u>5 m</u>	<u>0.60 m</u>
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>0.80</u>
60 meters	<u>0.20</u>
90 meters	<u>0.10</u>
120 meters	<u>0.15</u>
150 meters	<u>0.10</u>
180 meters	<u>0.25</u>
210 meters	<u>0.60</u>
240 meters	<u>0.20</u>
270 meters	<u>0.40</u>
300 meters	<u>0.10</u>
<b>Average</b>	<u>0.29 m</u>

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CCDD1  
 Date: 6/24/11 Time: 7:30am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3m
Width at narrowest point of the stream within 300 meter reach	0.5m
Width at the widest point of the stream within 300 meter reach	10m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No *SW 7/11/11*  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek Site: 02001  
 Date: 6/24/11 Time: 7:30am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |  |                                      |  |
|---------------------------------------|--|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input checked="" type="checkbox"/> No trespass sign (purple paint) |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                                 |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access                |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |   |

Comments: locked gate

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CB001  
 Date: 6/29/16 Time: 7:30am

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant *bottom*  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: rare scum

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

mylar balloons, light bulb

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 53.042' N  
93° 46.957' W

Data Collectors & Contact Information:	S. Painter, S. White, E. Williams
Date & Time:	6/24/11 @ 08:45 am County Name: Newton
Stream Name:	Coney Creek
Segment No. or nearest downstream Segment No.:	
Description of Site:	CC002 - Crown Pine downstream

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0.21 cfs SP 7/11/11

4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 26.0 °C      Water Temp: 24.1 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible from crown pine property, at near (~30m) end of logging road, steep vegetated banks

8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC002  
Date: 6/24/11 Time: 9:45am

### B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children  Tubing  No primary contact activities that commonly occur were observed  
 Wading-Adults  Surfing  Swimming  Whitewater-kayaking, canoeing, rafting  
 Water skiing  Diving  Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

logs, steep, vegetated banks, generally shallow depth

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through crown pine timber property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no

### C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cany Creek  
Date: 6/24/11

Site: CC002  
Time: 8:45 am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Log, steep vegetated banks, shallow depth
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through crown pine timber property

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC002  
 Date: 6/24/11 Time: 8:45 am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 18 Downstream 17 Left Bank 19 Right Bank 20 *Extra Photos #21, 22 - 300m / oil on surface*  
 Photos #s (150 meters) Upstream 27 Downstream 28 Left Bank 29 Right Bank 30  
 Photos #s (300 meters) Upstream 33 Downstream 34 Left Bank 35 Right Bank 36

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	10m	4m	0.5m
Pool 2	10m	7m	1.1m
Pool 3	7m	5m	1.0m
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg –Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.25
60 meters	0.25
90 meters	0.21
120 meters	0.65
150 meters	0.20
180 meters	0.50
210 meters	0.50
240 meters	0.60
270 meters	0.20
300 meters	0.63
<b>Average</b>	<b>0.40m</b>

### Field Data Sheets – Basic RUAA Survey

Stream Name: Cong Creek Site: C002  
 Date: 6/24/11 Time: 8:45am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3.5 m
Width at narrowest point of the stream within 300 meter reach	2.0m
Width at the widest point of the stream within 300 meter reach	7m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at \_\_\_\_\_

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC002  
 Date: 6/29/11 Time: 8:45 am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |   |                                      |  |
|---------------------------------------|--|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input checked="" type="checkbox"/> No trespass sign <u>purple paint</u> |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                                      |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access                     |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |  |
|--|---|--|--|
| <input checked="" type="checkbox"/> Roads  | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |  |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____      |   |  |  |

Comments: Crown Pine logging road ends ~30m from reach, beginning

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC002  
 Date: 6/24/11 Time: 8:45 am

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant *bottom*  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks  Fecal droppings  Bird nests

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
 \_\_\_\_\_  
 \_\_\_\_\_

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

*water*  
*piece of flapping tied to tree @ ~60m*  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUA Survey**  
(to be completed for each site)

30° 51.737' N  
93° 46.535' W

Data Collectors & Contact Information: <u>S. Painter, J. White, E. Williams</u>	
Date & Time: <u>6/24/11 @ 10:15</u>	County Name: <u>Newton</u>
Stream Name: <u>CARBY CREEK</u>	
Segment No. or nearest downstream Segment No.:	
Description of Site: <u>2003- Brian Williams / Guy Gray James Jr.</u>	

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow  
 Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0.14 cfs 5/ 7/12/11

4. Water Quality Data (Field Parameters)  
 Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 28.6 °C      Water Temp: 26.0 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R.L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible through Brian Williams property, beginning of reach is at end of ATV trail (~100m from truck)

8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek  
Date: 6/24/11

Site: CC003  
Time: 10:15 am

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, steep vegetated banks, logs, snakes

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Williams property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no near swimming hole

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek  
Date: 6/24/11

Site: CC003  
Time: 10:15 am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Shallow depth, steep vegetated banks, logs, snakes.
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Williams property

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Deer Deer blind ~ 10m from beginning of reach

## Field Data Sheets – Basic RUAA Survey

Stream Name: Canny Creek Site: CC003  
 Date: 6/24/11 Time: 10:15am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 31 Downstream 32 Left Bank 33 Right Bank 34 *89 - water meadow*  
 Photos #s (150 meters) Upstream 35 Downstream 36 Left Bank 37 Right Bank 38 *44 - tributary*  
 Photos #s (300 meters) Upstream 40 Downstream 41 Left Bank 42 Right Bank 43

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<u>16m</u>	<u>12m</u>	<u>1.0m</u>
Pool 2	<u>15m</u>	<u>10m</u>	<u>1.3m</u>
Pool 3	<u>20m</u>	<u>15m</u>	<u>1.3m</u>
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg –Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>0.13</u>
60 meters	<u>0.65</u>
90 meters	<u>1.00</u>
120 meters	<u>0.64</u>
150 meters	<u>0.05</u>
180 meters	<u>0.70</u>
210 meters	<u>0.80</u>
240 meters	<u>0.73</u>
270 meters	<u>0.50</u>
300 meters	<u>0.20</u>
<b>Average</b>	<b><u>0.44m</u></b>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC003  
 Date: 6/24/11 Time: 10:15

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	3.5 m
Width at narrowest point of the stream within 300 meter reach	0.70 m
Width at the widest point of the stream within 300 meter reach	15 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

### 2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at \_\_\_\_\_

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUA Survey

Stream Name: Candy Creek Site: CC003  
 Date: 6/24/11 Time: 10:15am

### F. Additional RUA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |  |                                      |  |
|---------------------------------------|--|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway                          | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)                  | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                                   | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing                         | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input checked="" type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input checked="" type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot                       | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot                  | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input type="checkbox"/> No trespass sign            |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> Roads  | <input checked="" type="checkbox"/> RV/ATV Tracks | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                                    | <input type="checkbox"/> Camping Sites            | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                                  | <input type="checkbox"/> Fire pit/ring            | <input type="checkbox"/> Children's toys         |  |
| <input type="checkbox"/> Foot paths/prints                              | <input type="checkbox"/> Fishing Tackle           | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input checked="" type="checkbox"/> Other: <u>ATV trail, deer stand</u> |   |  |  |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cony Creek Site: CC003  
 Date: 6/24/11 Time: 10:15am

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: heron, snake (1)

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
Food containers

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

NA  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Field Data Sheet - Basic RUAA Survey**  
Stream Flow (Discharge) Measurement

Stream: Coney Creek Date: 6/24/11  
 Site: C0003 Site Description: Brian Williams  
 Time Begin: 10:20 Time End: \_\_\_\_\_ Meter Type: Type AA  
 Observers: S. Painter Stream Width\*: 1.08m Section Width (W): 0.11  
 Observations: \_\_\_\_\_

Section Midpoint (ft) (m)	Section Depth (ft) (m) (cm) (D)	Observational Depth** (ft) (m)	Velocity (V)		Flow (Q) (m³/s) (ft³/s) Q = (W)(D)(V)
			At Point (ft/s)(m/s)	Average (ft/s)(m/s)	
<del>0.10</del> 0.05	0.02			<del>0.1730</del>	0
0.20 0.16	0.02			0.173	0.0004
0.27	0.02			0.055	0.0001
0.38	0.03			0.073	0.0002
0.49	0.03		6x5	0.106	0.0003
0.60	0.03			0.123	0.0004
0.71	0.02			0.157	0.0003
0.82	0.02			0	0
0.93	0.01			0	0
1.04	0.01			0	0
				Total	0.0018 cms
					* 0.07 cfs
				* This number is most likely an underestimate (see below) - instead use estimated flow of <del>0.0038 cms</del> 0.0038 cms	
					0.14 cfs

Flow Estimate:

$$Q = W \times D \times V$$

$$V = 0.137 \text{ m/s}$$

$$D = 0.04 \text{ m}$$

$$W = 0.70 \text{ m}$$

$$Q = 0.70 \text{ m} \times 0.04 \text{ m} \times 0.137 \text{ m/s} = 0.0038 \text{ cms} = 0.14 \text{ cfs}$$

RUAA Field Data Sheet

SP 7/12/11

measured depth at a narrow, shallow site. Velocity was significant but may be underestimated because the cups weren't submerged. (still winds were still to very light) Took 1 velocity measurement ~3 m upstream @ narrowest point

**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 50.992' N  
93° 45.959' W

Data Collectors & Contact Information:	<i>J. Painter, J. White, E. Williams</i>
Date & Time:	<i>6/24/11 @ 1:30pm</i>
County Name:	<i>Newton Co</i>
Stream Name:	<i>Candy Creek</i>
Segment No. or nearest downstream Segment No.:	
Description of Site:	<i>#64 - W. St. Hwy 87</i>

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0 cfs *SA 7/12/11*

4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 28.5 °C      Water Temp: 25.7 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>RL</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible from SH 87, fairly easy access on SW side (drive to w/in 15 m of creek), steep vegetated banks except under bridge

8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek  
 Date: 6/24/11

Site: # 64  
 Time: 1:30pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

steep vegetated banks, logs and debris in channel, bedrock dam

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

accessible from SH 87

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? No

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets - Basic RUAA Survey

Stream Name: Carney Creek  
Date: 6/24/11

Site: #64  
Time: 1:30pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
sleep, vegetated banks, logs and debris in channel, water dam
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Accessible from SH87

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coxey Creek Site: #624 SP  
 Date: 6/24/11 Time: 1:30pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 68 Downstream 69 Left Bank 70 Right Bank 71  
 Photos #s (150 meters) Upstream 73 Downstream 74 Left Bank 75 Right Bank 76  
 Photos #s (300 meters) Upstream 79 Downstream 80 Left Bank 81 Right Bank 82

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	1.50
60 meters	0.85
90 meters	1.10
120 meters	1.30
150 meters	1.35
180 meters	1.10
210 meters	0.82
240 meters	0.62
270 meters	1.10
300 meters	0.90
Average	1.06m

#66 - shoe print

#67 - shorts

#72 - tributary

#77, 78 - pile large garbage dumped @ 300m on left bank

#83 - beaver dam (~24m)

#84 - swallow nest

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cany Creek Site: #64  
 Date: 6/24/11 Time: 1:30pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	10 m
Width at narrowest point of the stream within 300 meter reach	8 m
Width at the widest point of the stream within 300 meter reach	15 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Candy Creek Site: #64  
 Date: 6/24/11 Time: 1:30 pm

**F. Additional RUAA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_  
 \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |   |                                      |  |
|---------------------------------------|--|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences  | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input checked="" type="checkbox"/> Dams                               | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>beaver dam</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input checked="" type="checkbox"/> Populated area          | <input type="checkbox"/> None of the Above |
| <input type="checkbox"/> Rural area              | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_  
 \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_  
 \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |  |  |  |
|--|--|--|--|
| <input checked="" type="checkbox"/> Roads                | <input type="checkbox"/> RV/ATV Tracks             | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                     | <input type="checkbox"/> Camping Sites             | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                   | <input type="checkbox"/> Fire pit/ring             | <input type="checkbox"/> Children's toys         |  |
| <input checked="" type="checkbox"/> Foot paths/prints    | <input checked="" type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input checked="" type="checkbox"/> Other: <u>shorts</u> |  |  |  |

Comments: \_\_\_\_\_  
 \_\_\_\_\_

**Field Data Sheets – Basic RUA Survey**

Stream Name: Candy Creek Site: #64  
 Date: 6/24/11 Time: 1:30pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: clear beyond beaver dam (~240m)

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: blue heron

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

Sheet metal, roofing materials (perhaps remains of a shack),  
household garbage (cups, bottles, wrappers)

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Observed 7 pairs of swim trunks/shorts/boxers  
on banks under bridge  
Observed a bobber, fishing line under bridge



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 50.847' N  
93° 45.790' W

Data Collectors & Contact Information:	<i>J. Painter, J. White, E. Williams</i>
Date & Time:	<i>6/24/11 @ 12:00pm</i> County Name: <i>Newton Co</i>
Stream Name:	<i>Cony Creek</i>
Segment No. or nearest downstream Segment No.:	
Description of Site:	<i>#62 - U.S. Hwy 190</i>

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

*0.97 cfs on 7/12/11*

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: *31.3* °C      Water Temp: *24.6* °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

- |  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> <i>R, L</i> Forest | <input type="checkbox"/> Urban               | <input type="checkbox"/> Rip rap                                |
| <input type="checkbox"/> Shrub dominated corridor      | <input type="checkbox"/> Pasture             | <input type="checkbox"/> Concrete                               |
| <input type="checkbox"/> Herbaceous marsh              | <input type="checkbox"/> Row crops           | Other (specify):  |
| <input type="checkbox"/> Mowed/maintained corridor     | <input type="checkbox"/> Denuded/Eroded bank | <i>Cony creek park side (R) is maintained up to top of bank</i> |

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

*Assessible from Cony Creek park, banks are relatively steep & vegetated*

**8. Dominant Primary Substrate**

- Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek  
 Date: 6/24/11

Site: #62  
 Time: 12:00pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

logs, depth, steep vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Ass Accessible from Coney Creek Park

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cady Creek Site: #02  
 Date: 6/24/11 Time: 12:00pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
log, shallow depth, steep vegetated bank
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently  
 Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
 If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
same as #2
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
accessible from Cady Creek Park

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Observed a man walking on paved walking trail (greenway) in Cady Creek park, ~100 ft from creek

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cany Creek  
 Date: 6/24/14

Site: #62  
 Time: 12:00 pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 45 Downstream 46 Left Bank 47 Right Bank 48 ~~#49-log~~  
 Photos #s (150 meters) Upstream 50 Downstream 51 Left Bank 52 Right Bank 53 \* Extra photos  
 Photos #s (300 meters) Upstream 54 Downstream 60 Left Bank 61 Right Bank 62

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.75
60 meters	0.70
90 meters	0.54
120 meters	0.40
150 meters	0.80
180 meters	0.50
210 meters	0.60
240 meters	0.30
270 meters	0.23
300 meters	0.40
Average	0.52m

- \* 49 - Log jam
- 54 - Bird feces
- 55 - Fishing tackle

- 56 - Aquatic veg + garbage in channel
- 57 - Siphon hose that feeds Cany Ck pond
- 58 - Trail used to access hose
- 63 - Walking trail
- 64 - Cany Creek pond
- 65 - upstream of flow measurement location access point

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Conroy Creek Site: #62  
 Date: 6/24/14 Time: 12:00 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	4m
Width at narrowest point of the stream within 300 meter reach	10m
Width at the widest point of the stream within 300 meter reach	15m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No SW  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at \_\_\_\_\_.

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUA Survey**

Stream Name: Corn Creek  
 Date: 6/24/11

Site: # 62  
 Time: 12:00 pm

**F. Additional RUA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input checked="" type="checkbox"/> Walking         | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input checked="" type="checkbox"/> Bicycling       | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input type="checkbox"/> None                 |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_  
 \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |  |   |  |                                      |  |
|--|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts                | <input type="checkbox"/> Fences                                 | <input type="checkbox"/> Log jams                    | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire             | <input type="checkbox"/> Dams                                   | <input checked="" type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input checked="" type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>log</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |   |  |  |  |
|---|--|--|--|
| <input type="checkbox"/> Campgrounds                        | <input type="checkbox"/> Stairs/walkway                          | <input checked="" type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds                        | <input type="checkbox"/> Boating access (ramps)                  | <input checked="" type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area              | <input type="checkbox"/> Beach                                   | <input type="checkbox"/> Docks or rafts                                |  |
| <input type="checkbox"/> Residential                        | <input checked="" type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter                          |  |
| <input type="checkbox"/> National forests                   | <input type="checkbox"/> Commercial boating                      | <input type="checkbox"/> Nearby school                                 |  |
| <input checked="" type="checkbox"/> Urban/suburban location | <input checked="" type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course                        | <input checked="" type="checkbox"/> Paved parking lot            | <input checked="" type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field                       | <input type="checkbox"/> Unimproved parking lot                  | <input checked="" type="checkbox"/> Public Property                    |  |

*7/1/11  
JSC*

Comments: \_\_\_\_\_  
 \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_  
 \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |   |  |  |  |
|---|--|--|--|
| <input checked="" type="checkbox"/> Roads                           | <input type="checkbox"/> RV/ATV Tracks             | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                                | <input type="checkbox"/> Camping Sites             | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                              | <input type="checkbox"/> Fire pit/ring             | <input type="checkbox"/> Children's toys         |  |
| <input checked="" type="checkbox"/> Foot paths/prints - paved trail | <input checked="" type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____                               |  |  |  |

Comments: bobbers (4)

## Field Data Sheets – Basic RUA Survey

Stream Name: Comby Creek Site: 62  
 Date: 6/24/11 Time: 12:00 pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:

cans, bottles, clothing

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

observed couple riding bikes w/ fishing poles  
over 190 bridge

JEW  
7/11/11

Siphon hose @ 270m that pumps water to  
feed the water fountain in Comby Creek park.



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 50.563' N  
93° 45.603' N

Data Collectors & Contact Information:	S. Painter, J. White, F. Williams
Date & Time:	06/24/11 @ 3:00pm
County Name:	Newton Co.
Stream Name:	Coney Creek
Segment No. or nearest Downstream Segment No.:	
Description of Site:	#61 - State Loop 505

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0 cfs   5<sup>th</sup> 7/10/11

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 31.0 °C      Water Temp: 23.8 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Accessible from State Loop 505, very steep, vegetated banks

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

# Field Data Sheets – Basic RUAA Survey

Stream Name: Cony Creek  
Date: 6/24/11

Site: #61  
Time: 3:00 pm

## B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children  Tubing  No primary contact activities that commonly occur were observed
- Wading-Adults  Surfing  Swimming  Whitewater-kayaking, canoeing, rafting
- Water skiing  Diving  Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None  1-10  11-20  20-50  >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Steep, vegetated banks, vegetation

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

accessible from SR 505, steep + vegetated

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site?

## C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.
- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: #61  
Date: 6/24/11 Time: 3:00 pm

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
steep, vegetated banks, vegetation in channel
3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
same as #2
6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
accessible from S.L. 505

#### D. Noncontact Recreation Evaluation

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.
- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: #61  
 Date: 6/24/11 Time: 3:00pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 85 Downstream 86 Left Bank 87 Right Bank 88 93 - large pool  
 Photos #s (150 meters) Upstream 89 Downstream 90 Left Bank 91 Right Bank 92  
 Photos #s (300 meters) Upstream 94 Downstream 95 Left Bank 96 Right Bank 97

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<u>35 m</u>	<u>20 m</u>	<u>1.5 m</u>
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>0.73</u>
60 meters	<u>0.70</u>
90 meters	<u>0.73</u>
120 meters	<u>1.50</u>
150 meters	<u>1.30</u>
180 meters	<u>1.25</u>
210 meters	<u>1.50</u>
240 meters	<u>1.23</u>
270 meters	<u>0.60</u>
300 meters	<u>0.12</u>
Average	<u>0.97m</u>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cony Creek Site: H61  
 Date: 6/24/11 Time: 3:00pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	12 m
Width at narrowest point of the stream within 300 meter reach	0.5 m
Width at the widest point of the stream within 300 meter reach	20 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cony Creek  
 Date: 6/24/11

Site: #61  
 Time: 3:00pm

**F. Additional RUAA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |  |   |  |                                      |  |
|--|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts                | <input type="checkbox"/> Fences                 | <input type="checkbox"/> Log jams                    | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire             | <input type="checkbox"/> Dams                   | <input checked="" type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input checked="" type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input checked="" type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                                |  |
| <input checked="" type="checkbox"/> Residential  | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter                          |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                                 |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input checked="" type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                               |  |
- Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |
- Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |  |
|--|---|--|--|
| <input checked="" type="checkbox"/> Roads  | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |  |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____      |   |  |  |
- Comments: \_\_\_\_\_

Field Data Sheets - Basic RUA Survey

Stream Name: Candy Creek Site: #61  
 Date: 6/24/11 Time: 3:00pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil (small amt)  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests Alligator + water bird tracks

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

cans, bottles, volleyball, large piece of metal

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Eric + Josh spoke w/ homeowner on N side of rd crossing; indicated that people do not fish or swim at this road crossing and that they prefer to go to Keyle Creek.

The pool, located @ 210 meters was at one point in time one of several swimming holes along the creek. few 7/11/11



**Field Data Sheets – Basic RUAA Survey**

(to be completed for each site)

30° 50.437' N  
93° 45.458' W

Data Collectors & Contact Information: <u>S. Painter, J. White, E. Williams</u>	
Date & Time: <u>6/24/11 @ 4:30pm</u>	County Name: <u>Newton Co</u>
Stream Name: <u>Candy Creek</u>	
Segment No. or nearest Downstream Segment No.:	
Description of Site: <u>#63- U.S. Hwy 190</u>	

**A. Stream Characteristics:**

1. Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
  
2. Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

0 cfs   7/12/11

**4. Water Quality Data (Field Parameters)**

*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*

Air Temp: 31.3 °C      Water Temp: 26.8 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>R,L</u> Forest	Urban	Rip rap
Shrub dominated corridor	Pasture	Concrete
Herbaceous marsh	Row crops	Other (specify): _____
Mowed/maintained corridor	Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult   260 7/21/11

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Accessible from US Hwy 190, place to park on NW side of bridge

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Caney Creek  
 Date: 6/24/11

Site: #6-S #63  
 Time: 4:30pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

steep, vegetated banks; logs, trash + vegetation in channel

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

accessible from U.S. Hwy 190

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no see 7/10/11

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek

Site: #63

Date: 6/24/10

Time: 4:30 pm

- b. Check the number of individuals observed at the site.
  - None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.
  - Secondary touch: fishing, pets and related contact with water
  - In a boat touching water
  - Body on shore near water within 8 meters (25ft) of water
  - Body well away from water between 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

Steep vegetated banks; logs, trash + vegetation in channel

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly

4. If infrequently, what is the reason?

physical characteristics of the water body  limited public access  other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

Same as #2

6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

accessible from U.S. Hwy 190

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

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# Field Data Sheets – Basic RUAA Survey

Stream Name: Camp Creek Site: 63  
 Date: 6/24/11 Time: 4:30pm

## E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 99 Downstream 100 Left Bank 101 Right Bank 102 #98 - tissue paper under bridge  
 Photos #s (150 meters) Upstream 104 Downstream 105 Left Bank 106 Right Bank 107  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_ #103 - garbage @ 30 m

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1			
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	1.05
60 meters	0.90
90 meters	1.15
120 meters	1.30
150 meters	1.50
180 meters	1.30
210 meters	
240 meters	Non-wadeable
270 meters	
300 meters	
Average	1.20m

Field crew  
 Could not  
 get around  
 deep portion  
 of stream due  
 to thickly  
 vegetated banks.

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek  
 Date: 6/29/11

Site: #68 #63  
 Time: 4:30pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	10m
Width at narrowest point of the stream within 300 meter reach	7.5m
Width at the widest point of the stream within 300 meter reach	15m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Ganey Creek Site: # 63  
 Date: 6/29/11 Time: 4:30pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |  |  |  |                                      |  |
|--|--|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts                | <input type="checkbox"/> Fences                                  | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire             | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input checked="" type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input checked="" type="checkbox"/> Populated area          | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor     |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Private Property                           | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic                         | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes                    | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input checked="" type="checkbox"/> Other: <u>Vegetation (bank)</u> | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |   |   |  |  |
|---|---|--|--|
| <input checked="" type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                  | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |  |
| <input checked="" type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |

Other: human waste/tissue paper under bridge  
 Comments: foot path from parking spot to water

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek Site: 63  
 Date: 6/24/11 Time: 4:30 pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant (under bridge)  
 Briefly describe the kinds of garbage observed:  
cooler, bottles, cans (household)

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

not -



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 49.409' N  
93° 42.720' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams	
Date & Time:	6/25/11 @ 09:15 am	County Name: Newton
Stream Name:	Caneey Creek	
Segment No. or nearest downstream Segment No.:		
Description of Site:	CC009 - Crown Pine #2, Upstream	

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow  
 Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

1.67 cfs   SP   7/12/11

4. Water Quality Data (Field Parameters)  
*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*  
 Air Temp: 25.3 °C      Water Temp: 25.1 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R,L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):  
Only accessible through Crown Pine Timber Co property, ~450m from truck, requires off trail hiking / bushwhacking  
(0.5 mile from rd)

8. Dominant Primary Substrate  
 Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek  
Date: 6/25/11

Site: CC004  
Time: 09:15am

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

difficult access (hike in), shallow depth, slough, vegetated banks, logs + snags

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through crown pine timber co land

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no so 7/12/11

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek  
Date: 6/25/11

Site: CC004  
Time: 9:15am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).

difficult access (hike in), shallow depths, steep vegetated banks, logst snags

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently

Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly

4. If infrequently, what is the reason?

physical characteristics of the water body    limited public access    other

If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).

same as #2

6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Crown Pine Tube co lead

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: CC004  
 Date: 6/25/11 Time: 9:15 am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 137 Downstream 138 Left Bank 139 Right Bank 140 #149, 150 - macroinvertebrate  
 Photos #s (150 meters) Upstream 141 Downstream 142 Left Bank 143 Right Bank 144 water measurement  
 Photos #s (300 meters) Upstream 145 Downstream 146 Left Bank 147 Right Bank 148 #151 - 152 in channel

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	15 m	6 m	1.0 m
Pool 2	20 m	7 m	0.90 m
Pool 3	9 m	8 m	1.0 m
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	1.0
60 meters	0.25
90 meters	0.10
120 meters	0.13
150 meters	0.30
180 meters	0.50
210 meters	0.40
240 meters	0.10
270 meters	0.30
300 meters	0.35
Average	0.34 m

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: 26004  
 Date: 6/25/11 Time: 9:15 am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	4.5
Width at narrowest point of the stream within 300 meter reach	2.5
Width at the widest point of the stream within 300 meter reach	8

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Caney Creek  
 Date: 6/25/11

Site: 26604  
 Time: 9:15 am

**F. Additional RUAA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |   |                                      |  |
|---------------------------------------|--|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC004  
 Date: 6/25/11 Time: 9:15 am

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: Snakes (2) observed

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

1 piece lumber, cooler, 1 qt oil container, coke bottle, candy wrapper

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 49.360' N  
93° 42.678' N

Data Collectors & Contact Information: <u>S. Painter, J. White, E. Williams</u>	
Date & Time: <u>6/25/11 @ 8:00 am</u>	County Name: <u>Newton</u>
Stream Name: <u>Laney Creek</u>	
Segment No. or nearest downstream Segment No.:	
Description of Site: <u>2005 - Crown Pine #2, Downstream</u>	

**A. Stream Characteristics:**

1. Check the following channel flow status that applies.

- dry    no flow    low    normal    high    flooded

2. Check the following stream type that applies on the day of the survey:

- Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
- Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
- Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
- Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

1.28 cfs 5/7/12/11

4. Water Quality Data (Field Parameters)

*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*

Air Temp: 24.5 °C      Water Temp: 25.1 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Only accessible through Crown Pine Timber Co. property, about 600 m from road, requires off trail hiking / bushwhacking

8. Dominant Primary Substrate

- Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek Site: CC005  
 Date: 6/25/11 Time: 9:00 am

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

difficult access (hike in), shallow depth, steep vegetated banks, logs, snakes

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only access through over pine timber pop

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no se 7/12/11

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUA Survey

Stream Name: Candy Creek  
Date: 6/25/11

Site: 0005  
Time: 8:00 am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
difficult access (like in), shallow depth, steep vegetated banks, logs, snakes
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
shallow depths, steep vegetated banks, logs and snakes.
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
is only accessible through Crown pine timber co prop.

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek  
 Date: 6/25/11

Site: C0005  
 Time: 8:00 am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 101 Downstream 102 Left Bank 103 Right Bank 104 *129 - water measurement*  
 Photos #s (150 meters) Upstream 125 Downstream 126 Left Bank 127 Right Bank 128 *134 - aquatic veg.*  
 Photos #s (300 meters) Upstream 130 Downstream 131 Left Bank 132 Right Bank 133 *135 - channel w/ logs*

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	15m	8m	1m
Pool 2	15m	10m	0.9m
Pool 3	17m	10m	0.85m
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.10
60 meters	1.00
90 meters	0.53
120 meters	0.35
150 meters	0.20
180 meters	0.35
210 meters	0.20
240 meters	0.40
270 meters	0.20
300 meters	0.20
<b>Average</b>	<b>0.36</b>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: 66005  
 Date: 6/25/11 Time: 8:00am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	6 m
Width at narrowest point of the stream within 300 meter reach	2 m
Width at the widest point of the stream within 300 meter reach	10 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: 0005  
 Date: 6/25/11 Time: 08:00 am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos)

- |                                       |   |   |                                      |  |
|---------------------------------------|---|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences   | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams   | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs, overhanging log</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest)

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest)

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos)

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUA Survey

Stream Name: Carry Creek Site: CL005  
 Date: 6/25/11 Time: 9:00 a.m.

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  Common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: snakes (3)

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
drink bottles (2)

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 46.535' N  
93° 40.090' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams	
Date & Time:	6/25/11 @ 10:30	County Name: Newton Co.
Stream Name:	Coney Creek	
Segment No. or nearest downstream Segment No.:		
Description of Site:	#59 - FM 2626	

**A. Stream Characteristics:**

1. Check the following channel flow status that applies.

- dry    no flow    low    normal    high    flooded

2. Check the following stream type that applies on the day of the survey:

- Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
- Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
- Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
- Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

1.31 cfs   51   7/12/11

4. Water Quality Data (Field Parameters)

*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*

Air Temp: 28.8 °C      Water Temp: 25.5 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R,L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible from FM 2626; steep, vegetated banks  
no clear path to water

8. Dominant Primary Substrate

- Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek  
Date: 6/25/11

Site: M59  
Time: 10:30am

B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed.

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, log jams + debris in channel, steep, vegetated banks

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Accessible from FM 2626

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no se 7/12/11

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Candy Creek  
Date: 6/25/11

Site: #59  
Time: 10:30am

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Shallow depth for jams & debris in channel;  
steep, vegetated banks
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?    frequently    infrequently  
Please describe how often the activities occur?    Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
same as #2
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Accessible from FM2626

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Observed ~5 bamboo fishing poles/lines  
stuck in banks next to/over pools

## Field Data Sheets – Basic RUAA Survey

Stream Name: Conroy Creek Site: #59  
 Date: 6/22/01 Time: 10:30 am

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### I. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 154 Downstream 155 Left Bank 156 Right Bank 157 #153 - *Mud snakehow nests*  
 Photos #s (150 meters) Upstream 158 Downstream 159 Left Bank 160 Right Bank 161 #166 - *Tree roots 17% buried*  
 Photos #s (300 meters) Upstream 162 Downstream 163 Left Bank 164 Right Bank 165 #167 - *bamboo fixing pole*

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<u>20 m</u>	<u>15 m</u>	<u>0.80 m</u>
Pool 2	<u>20.5 m</u>	<u>8 m</u>	<u>1.05 m</u>
Pool 3	<u>12 m</u>	<u>8 m</u>	<u>0.87 m</u>
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg –Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>0.10</u>
60 meters	<u>0.30</u>
90 meters	<u>0.36</u>
120 meters	<u>0.40</u>
150 meters	<u>0.16</u>
180 meters	<u>0.30</u>
210 meters	<u>0.20</u>
240 meters	<u>0.30</u>
270 meters	<u>0.40</u>
300 meters	<u>0.20</u>
<b>Average</b>	<b><u>0.27 m</u></b>

### Field Data Sheets – Basic RUAA Survey

Stream Name: Ganey Creek Site: #59  
 Date: 6/25/11 Time: 10:30am

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	<u>6m</u>
Width at narrowest point of the stream within 300 meter reach	<u>1.5m</u>
Width at the widest point of the stream within 300 meter reach	<u>15m</u>

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: # 59  
 Date: 6/25/11 Time: 10:30am

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences   | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>brush in channel (logs)</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input checked="" type="checkbox"/> Residential  | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor     |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: houses (3) east of rd. crossing

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |  |  |  |
|--|--|--|--|
| <input checked="" type="checkbox"/> Roads  | <input type="checkbox"/> RV/ATV Tracks             | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites             | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring             | <input type="checkbox"/> Children's toys         |  |
| <input type="checkbox"/> Foot paths/prints | <input checked="" type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____      |  |  |  |

Comments: Starbuck poles/line in pools

## Field Data Sheets – Basic RUAA Survey

Stream Name: Cooney Creek Site: #59  
 Date: 6/25/11 Time: 10:30 am

7. Check all water characteristics that apply (Attach photos).

Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: 99% 1%

8. Vertebrates Observed within 300 meter reach

Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

Tracks  Fecal droppings  Bird nests

11. Garbage Observed

Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

household (coke bottle), newspaper, vending machine, cooler, bridge

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 46.293' N  
93° 40.088' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams	
Date & Time:	6/25/11 @ 12:00pm	County Name: Newton Co
Stream Name:	Coney Creek	
Segment No. or nearest downstream Segment No.:		
Description of Site:	CC006 - Neal Ross	

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

1.18 cfs SP 7/12/11

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 30.0 °C      Water Temp: 25.8 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Only accessible through Neal Ross property, used ladder to cross fence, pushed ~ 50m from stream (lat/long)

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek  
Date: 6/25/11

Site: CC006  
Time: 12:00 pm

B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

shallow depth, logs in channel, steep vegetated banks, snakes

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

only accessible through Ross property

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? no sp 7/12/11

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: CC006  
Date: 6/25/11 Time: 12:00pm

- b. Check the number of individuals observed at the site.  
 None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
shallow depth, logs in channel, steep vegetated banks, snakes
3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly
4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
If other, list reasons: \_\_\_\_\_
5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
only accessible through Ross property

#### D. Noncontact Recreation Evaluation

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Deer stand located ~200m from creek on Ross property

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: CC006  
 Date: 6/25/11 Time: 12:00 pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 173 Downstream 174 Left Bank 175 Right Bank 176 Extra Photos \*  
 Photos #s (150 meters) Upstream 179 Downstream 180 Left Bank 181 Right Bank 182  
 Photos #s (300 meters) Upstream 186 Downstream 187 Left Bank 188 Right Bank 189

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	13 m	7 m	1.0 m
Pool 2	16 m	10 m	1.1 m
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.30
60 meters	0.20
90 meters	0.55
120 meters	0.10
150 meters	0.40
180 meters	0.15
210 meters	0.30
240 meters	0.25
270 meters	0.15
300 meters	0.15
Average	0.26 m

\* 177 - macroinvertebrate #1  
 178-185 - macroinvertebrate #2  
 190-193 - macroinvertebrate #3  
 194-195 - macroinvertebrate #4

### Field Data Sheets – Basic RUAA Survey

Stream Name: Carey Creek Site: C.C.006  
 Date: 6/25/11 Time: 19:00 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	2.5m
Width at narrowest point of the stream within 300 meter reach	1m
Width at the widest point of the stream within 300 meter reach	10m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Gandy Creek Site: CC006  
 Date: 6/25/11 Time: 12:03 pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)

Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                 | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): _____ |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence    | <input type="checkbox"/> No trespass sign            |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife            | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above   | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input checked="" type="checkbox"/> No roads |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads             | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input type="checkbox"/> Other: _____      |   |  |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Carney Creek  
 Date: 6/25/11

Site: 00009  
 Time: 12:00 pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: snakes (3) observed

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: horses in pasture

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests hawk, deer, possum

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

tea bowl, cans, bottles

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 45.071' N  
93° 39.736' W

Data Collectors & Contact Information:	S. Painter, E. Williams, J. White	
Date & Time:	6/25/11 @ 4pm	County Name: Newton Co
Stream Name:	Cany Creek	
Segment No. or nearest downstream Segment No.:		
Description of Site:	CC007 - Crown Pine Timber #3	

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

2.79 cfs   50 7/12/11

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 29.2 °C      Water Temp: 29.2 °C  
25.4 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>R/L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult 25 7/21/11

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Only accessible from crown pine timber property, logging road  
into ~ 30 m from creek

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Laney Creek  
 Date: 6/25/11

Site: C0007  
 Time: 4:00 pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Steep + vegetated banks, logs in channel

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Only accessible through Crown Point Timber Prop.

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site?

Yes, Sabine River @ Haygrove

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek  
Date: 6/29/11

Site: CC007  
Time: 4:00pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Sleep + vegetated banks, logs in channel
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently  
Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Only accessible through crown pine timber prop.

**D. Noncontact Recreation Evaluation**

Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Deer stand ~60m from beginning of reach;  
several rows of beans planted in front of  
deer stand, watered w/ hoses coming from creek

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek Site: CC007  
 Date: 6/25/11 Time: 4:00pm

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

**1. Wadeable Streams**

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 224 Downstream 225 Left Bank 226 Right Bank 227 226 - food plot w/ garden hose  
 Photos #s (150 meters) Upstream 228 Downstream 229 Left Bank 230 Right Bank 231  
 Photos #s (300 meters) Upstream 232 Downstream 233 Left Bank 234 Right Bank 235

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	15 m	6 m	1.3 m
Pool 2	20 m	15 m	1.6 m
Pool 3	20 m	12 m	1.25 m
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.20
60 meters	0.70
90 meters	0.50
120 meters	0.70
150 meters	0.20
180 meters	0.13
210 meters	0.10
240 meters	sp. 1.25
270 meters	0.70
300 meters	0.40
Average	0.49 m

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek Site: CCDOT  
 Date: 6/25/11 Time: 4:00 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	6 m
Width at narrowest point of the stream within 300 meter reach	2.5 m
Width at the widest point of the stream within 300 meter reach	15 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cony Creek  
 Date: 6/25/11

Site: LC007  
 Time: 4:00pm

**F. Additional RUAA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |   |                                      |  |
|---------------------------------------|--|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input type="checkbox"/> Roads (paved/unpaved)              | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property | <input checked="" type="checkbox"/> Fence  | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic          | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes     | <input type="checkbox"/> None of the Above | <input checked="" type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____                | <input type="checkbox"/> No roads          |  |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |   |  |  |
|--|---|--|--|
| <input checked="" type="checkbox"/> Roads                      | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings                           | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                         | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |  |
| <input type="checkbox"/> Foot paths/prints                     | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |  |
| <input checked="" type="checkbox"/> Other: <u>logging road</u> |   |  |  |

Comments: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Coney Creek Site: CC007  
 Date: 6/25/11 Time: 4:00 pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant  
 Briefly describe the kinds of garbage observed:  
 \_\_\_\_\_  
 \_\_\_\_\_

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 44.802' N  
93° 38.786' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams
Date & Time:	6/14/12 @ 1:45 pm
County Name:	Newton Co
Stream Name:	Cony Creek
Segment No. or nearest downstream Segment No.:	
Description of Site:	#58 - Jones Rd

**A. Stream Characteristics:**

1. Check the following channel flow status that applies:

- dry    no flow    low    normal    high    flooded

2. Check the following stream type that applies on the day of the survey:

- Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
- Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
- Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
- Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

3.55 cfs   SP 7/12/11

4. Water Quality Data (Field Parameters)

*Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.*

Air Temp: 30.1 °C      Water Temp: 25.7 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible from unimproved parking area on Jones Rd, swimming hole ~40 m from take out end of well-trodden path

8. Dominant Primary Substrate

- Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek  
Date: 6/25/11

Site: #58  
Time: 1:45 pm

B. Primary Contact Water Recreation Evaluation:

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

SED  
7/11/11

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children  Tubing  No primary contact activities that commonly occur were observed
- Wading-Adults  Surfing  Swimming  Whitewater-kayaking, canoeing, rafting
- Water skiing  Diving  Other: Rope Swing
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site.  None  1-10  11-20  20-50  >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Much of the reach is shallow, with steep vegetated banks and logs; swimming hole is an exception

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

accessible from unimproved parking area off of Jones Rd down ATV trail.

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? Yes, Sabine River @ Hugel 90

C. Secondary Contact Water Recreation Evaluation:

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Candy Creek Site: #58  
 Date: 6/25/11 Time: 1:45 pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
  
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
  
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Much of the reach is shallow, with steep vegetated banks and logs.
  
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently  
 Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly
  
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
 If other, list reasons: \_\_\_\_\_
  
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
  
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Accessible from unimproved parking area on Jones Rd

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
Observed shot gun shells next to swimming hole.  
Also observed trash near swimming hole that is indicative of picnicking (chip bags, food storage containers, bottles + cans)

# Field Data Sheets - Basic RUAA Survey

Stream Name: Candy Creek Site: #58  
 Date: 6/25/11 Time: 1:45

## E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

### I. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather)

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 196 Downstream 197 Left Bank 198 Right Bank 199 *Extra Photos \**  
 Photos #s (150 meters) Upstream 201 Downstream 202 Left Bank 203 Right Bank 204  
 Photos #s (300 meters) Upstream 208 Downstream 209 Left Bank 210 Right Bank 211

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	10 m	8.5 m	0.85 m
Pool 2	35 m	14 m	1.2 m
Pool 3	20 m	12 m	1.3 m
Pool 4 *	45 m	20 m 35 m 60	2 m
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

\*The swimming hole

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.4 m
60 meters	0.55 m
90 meters	1.20
120 meters	0.30
150 meters	0.90
180 meters	0.45
210 meters	0.20
240 meters	0.13
270 meters	0.50
300 meters	0.15
Average	0.48 m

# 237-248  
 taken @ revisit to swimming hole @ 4:45pm  
 6/25/11

*2EW 7/21/11*  
*Also Photo #105*  
*Extra 1*  
*Extra 2*  
*Extra 3*

\* Extra Photos

- 200 - swim shorts
- 205 - air-up mattress
- 206 - swimming hole from rope swing
- 207 - common area for swimming hole
- 212 - Water @ 300m
- 213 - Kids swim shorts
- 214 - food wrapper
- 215 - the Love Tree
- 216 - Shotgun shell wad

- 222 - trail from Jarvis Rd to swimming hole
- 223 - unimproved parking area
- 220 - whisky bottle w/ bag backpack
- 221 - underwear

- 217 - Shotgun shell
- 218 - ATV trail
- 219 - walking path

### Field Data Sheets – Basic RUA Survey

Stream Name: Fanny Creek  
 Date: 6/25/10

Site: 758  
 Time: 1:45 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	<u>6 m</u>
Width at narrowest point of the stream within 300 meter reach	<u>3 m</u>
Width at the widest point of the stream within 300 meter reach	<u>20 m</u>

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No  
 Comments: \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at .

Photos #s (30 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (150 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_  
 Photos #s (300 meters) Upstream \_\_\_ Downstream \_\_\_ Left Bank \_\_\_ Right Bank \_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Coney Creek Site: #58  
 Date: 6/25/10 Time: 1:45 pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline      |
| <input checked="" type="checkbox"/> Bathing <i>e revise t</i>  | <input type="checkbox"/> Picnicking                |
| <input type="checkbox"/> Walking                               | <input checked="" type="checkbox"/> Motorcycle/ATV |
| <input type="checkbox"/> Jogging/running                       | <input type="checkbox"/> Hunting/Trapping          |
| <input checked="" type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching         |
| <input checked="" type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None           |
| <input type="checkbox"/> Sitting                               | <input type="checkbox"/> Other: _____              |
| <input type="checkbox"/> Lying down/sleeping                   |  |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |   |                                      |  |
|---------------------------------------|---|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                       | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                         | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input type="checkbox"/> Other (specify): <u>logs</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |   |
|--|--|---|---|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway                          | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input checked="" type="checkbox"/> Other: <u>houses nearby</u> |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)                  | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above                      |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                                   | <input type="checkbox"/> Docks or rafts                     |   |
| <input type="checkbox"/> Residential             | <input checked="" type="checkbox"/> Bridge crossing              | <input type="checkbox"/> Commercial outfitter               |   |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating                      | <input type="checkbox"/> Nearby school                      |   |
| <input type="checkbox"/> Urban/suburban location | <input checked="" type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor     |   |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot                       | <input type="checkbox"/> Parks (national/city/county/state) |   |
| <input type="checkbox"/> Sports Field            | <input checked="" type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |   |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |   |  |   |  |
|---|--|---|--|
| <input checked="" type="checkbox"/> Roads             | <input checked="" type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge                    | <input type="checkbox"/> Organized event   |
| <input checked="" type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites             | <input type="checkbox"/> Gates on corridor                  | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                | <input type="checkbox"/> Fire pit/ring             | <input checked="" type="checkbox"/> Children's toys         |  |
| <input checked="" type="checkbox"/> Foot paths/prints | <input checked="" type="checkbox"/> Fishing Tackle | <input checked="" type="checkbox"/> Remnant's of Kid's play |  |
| <input type="checkbox"/> Other: _____                 |  |   |  |

Comments: many indications of human use around swimming hole

### Field Data Sheets – Basic RUAA Survey

Stream Name: Loney Creek Site: #58  
 Date: 6/25/11 Time: 1:45pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

only described reach upstream of bridge; just off  
bridge on downstream side has abundant large garbage

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

Eric interviewed folks in two vehicles that stopped  
by; one gentleman said that kids fish for  
bass here mostly



**Field Data Sheets – Basic RUAA Survey**  
(to be completed for each site)

30° 44.495' N  
93° 38.067' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams
Date & Time:	6/25/11 @ 5:00pm County Name: Newton Co
Stream Name:	Coney Creek
Segment No. or nearest downstream Segment No.:	
Description of Site:	#56- Hwy 190 near Bon Wier

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral: A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent: A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools: An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial: A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream: A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

**3. Streamflow**

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

3.37 cfs SR 7/12/11

**4. Water Quality Data (Field Parameters)**

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 33.0 °C      Water Temp: 26.8 °C

**5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)**

<u>R/L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

**6. Ease of bank access to the water body:**  Easy    Moderately easy    Moderately difficult    Difficult

**7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):**

Accessible from U.S. Hwy 190 bridge, able to drive to w/in 20m of creek (mowed/grass)

**8. Dominant Primary Substrate**

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cony Creek  
 Date: 6/25/11

Site: #56  
 Time: 5:00 pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed
- Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting
- Water skiing     Diving     Other: \_\_\_\_\_
- frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual
- Primary touch: Individual's body (or portion) immersed in water
- Secondary touch: fishing, pets and related contact with water
- Individual is in a boat touching water
- Individual is on shore near water within 8 meters (25ft) of water
- Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

steep, vegetated banks, logs in river, trash

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

accessible from US Hwy 190

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? Yes, Sabine River @ Hwy 190

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing
- Boating-commercial, recreational
- Non-whitewater-kayaking, rafting, canoeing
- No secondary contact recreation activities were observed
- Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUAA Survey

Stream Name: Conny Creek

Site: #56

Date: 6/25/11

Time: 9:00pm

- b. Check the number of individuals observed at the site.
  - None  1-10  11-20  20-50  greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.
  - Secondary touch: fishing, pets and related contact with water
  - In a boat touching water
  - Body on shore near water within 8 meters (25ft) of water
  - Body well away from water between 8 and 30 meters (100 ft)

2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
steep + vegetated banks, logs in river, trash

3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently  infrequently  
 Please describe how often the activities occur?  Unknown  Never  Daily  Monthly  Yearly

4. If infrequently, what is the reason?  
 physical characteristics of the water body  limited public access  other  
 If other, list reasons: \_\_\_\_\_

5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
same as #2

6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Accessible from Hwy 190

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.
- 
- 
- 
- 
-

### Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: ES6  
 Date: 4/25/11 Time: 5:00pm

**E. Stream Channel and Substantial Pools Measurements**

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 249 Downstream 250 Left Bank 251 Right Bank 252 *201 - trash + riprap under bridge*  
 Photos #s (150 meters) Upstream 253 Downstream 254 Left Bank 255 Right Bank 256  
 Photos #s (300 meters) Upstream 258 Downstream 257 Left Bank 259 Right Bank 260

a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	<u>24 m</u>	<u>7.5 m</u>	<u>1.40 m</u>
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

b) Average depth at the thalweg -Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	<u>0.40</u>
60 meters	<u>0.30</u>
90 meters	<u>0.40</u>
120 meters	<u>0.50</u>
150 meters	<u>0.40</u>
180 meters	<u>0.30</u>
210 meters	<u>1.40</u>
240 meters	<u>0.60</u>
270 meters	<u>0.32</u>
300 meters	<u>0.30</u>
<b>Average</b>	<b><u>0.49m</u></b>

## Field Data Sheets – Basic RUAA Survey

Stream Name: Carry Creek  
 Date: 6/25/11

Site: #56  
 Time: 5 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	7m
Width at narrowest point of the stream within 300 meter reach	<del>6m</del> 3.5 m
Width at the widest point of the stream within 300 meter reach	12.5 m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

### 2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: #320\*  
 Date: 6/29/11 Time: 5 pm

### F. Additional RUAA Information

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input type="checkbox"/> None                 |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |  |   |                                      |  |
|---------------------------------------|--|---|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences                                  | <input type="checkbox"/> Log jams         | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams                                    | <input type="checkbox"/> Thick vegetation | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs</u> |   |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input checked="" type="checkbox"/> Populated area          | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input type="checkbox"/> Residential             | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input type="checkbox"/> Power Line Corridor                |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Private Property        | <input type="checkbox"/> Fence             | <input type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic      | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial       |
| <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access |
| <input type="checkbox"/> Other: _____            | <input type="checkbox"/> No roads          |   |

Comments: \_\_\_\_\_

6. Check any indications of human use (Attach photos).

- |  |  |   |  |
|--|--|---|--|
| <input checked="" type="checkbox"/> Roads  | <input type="checkbox"/> RV/ATV Tracks             | <input type="checkbox"/> NPDES Discharge        | <input type="checkbox"/> Organized event   |
| <input type="checkbox"/> Rope swings       | <input type="checkbox"/> Camping Sites             | <input type="checkbox"/> Gates on corridor      | <input type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform     | <input type="checkbox"/> Fire pit/ring             | <input type="checkbox"/> Children's toys        |  |
| <input type="checkbox"/> Foot paths/prints | <input checked="" type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnants of Kid's play |  |
| <input type="checkbox"/> Other: _____      |  |   |  |

Comments: bobbers (2)

## Field Data Sheets – Basic RUAA Survey

Stream Name: Candy Creek Site: #56  
 Date: 6/25/11 Time: 5pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: armadillo

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc.

- Tracks  Fecal droppings  Bird nests

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

Tire, cooler lid, 5 gal bucket, abundant household garbage (bottles, food wrappers, chair, plates, styrofoam) in reach

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Data Sheets – Basic RUA Survey**  
(to be completed for each site)

30° 43.922' N  
93° 37.203' W

Data Collectors & Contact Information:	S. Painter, J. White, E. Williams
Date & Time:	6/25/11 @ 6:30pm County Name: Newton
Stream Name:	Coney Creek
Segment No. or nearest downstream Segment No.:	
Description of Site:	#57- Sabine Sands Rd

**A. Stream Characteristics:**

- Check the following channel flow status that applies.  
 dry    no flow    low    normal    high    flooded
- Check the following stream type that applies on the day of the survey:
  - Ephemeral:** A stream which flows only during or immediately after a rainfall event, and contains no refuge pools capable of sustaining a viable community of aquatic organisms.
  - Intermittent:** A stream which has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a 7Q2 flow of less than 0.1 cubic feet per second is considered intermittent.
  - Intermittent w/ perennial pools:** An intermittent stream which maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
  - Perennial:** A stream which flows continuously throughout the year. Perennial streams have a 7Q2 equal to or greater than 0.1 cubic feet per second.
  - Designated or unclassified tidal stream:** A stream that is tidally influenced. If you checked this box, you will need to contact the Water Quality Standards Group and evaluate whether or not a bathing beach is located along the tidal stream and whether or not a bathing beach is located along the estuary, bay or Gulf water that the tidal stream flows into.

3. Streamflow

Use USGS gage data (if a gage is located at a site or within a quarter mile of a site) or use the Stream Flow (Discharge) Measurement Form and follow the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1, RG-415. If USGS gage data is used for a site, include that information as an attachment and list the streamflow on the sampling date below. If the stream flow taken at one site is representative of the flow at another site(s), then that flow can be used as the observed flow and should be documented below. If the stream flow measured at one site is different from another site, then stream flow should be taken at both sites.

312 cfs SA 7/12/11

4. Water Quality Data (Field Parameters)

Field parameters should be collected in accordance with the procedures outlined in the most recent TCEQ Surface Water Quality Monitoring Procedures, Volume 1.

Air Temp: 31.5 °C      Water Temp: 27.4 °C

5. Riparian Zone (Mark dominant categories with L (Left Bank) and R (Right Bank). Bank orientation is determined by the investigator facing downstream.)

<u>R, L</u> Forest	_____ Urban	_____ Rip rap
_____ Shrub dominated corridor	_____ Pasture	_____ Concrete
_____ Herbaceous marsh	_____ Row crops	Other (specify): _____
_____ Mowed/maintained corridor	_____ Denuded/Eroded bank	

6. Ease of bank access to the water body:  Easy    Moderately easy    Moderately difficult    Difficult

7. Please describe access opportunities or explain why the site is not easily accessible (Attach photos for documentation):

Accessible from SE side of Sabine Sands Rd bridge crossing

8. Dominant Primary Substrate

Cobble    Sand    Silt    Mud/Clay    Gravel    Bedrock    Rip rap    Concrete

**Field Data Sheets – Basic RUA Survey**

Stream Name: Conny Creek  
 Date: 6/25/14

Site: #57  
 Time: 6:30pm

**B. Primary Contact Water Recreation Evaluation:**

- Primary contact recreation draft definition: Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, and whitewater kayaking, canoeing, and rafting, involving a significant risk of ingestion of water.

1. Were water recreation activities that involve a significant risk of ingestion (full body immersion) observed at this site?  Yes  No primary contact recreation activities were observed

a. Check the following boxes of primary contact recreation activities observed at the time of the sampling event at the site (Attach photos of the activities or lack of activities).

- Wading-Children     Tubing     No primary contact activities that commonly occur were observed  
 Wading-Adults     Surfing     Swimming     Whitewater-kayaking, canoeing, rafting  
 Water skiing     Diving     Other: \_\_\_\_\_  
 frequent public swimming-created by publicly owned land or commercial operations

b. Check the number of individuals observed at the site:  None     1-10     11-20     20-50     >50

c. Check the following that apply regarding the individuals proximity to the water body.

- Water in mouth or nose of the individual  
 Primary touch: Individual's body (or portion) immersed in water  
 Secondary touch: fishing, pets and related contact with water  
 Individual is in a boat touching water  
 Individual is on shore near water within 8 meters (25ft) of water  
 Individual is well away from water between 8 and 30 meters (100 ft)  Not applicable

2. If primary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of primary contact (depth, etc.) (Attach photos, etc. for documentation).

Very steep, vegetated banks, abundant logs and garbage in channel, snakes

3. Describe if there is public access (e.g., parks, roads, etc.) (Attach photos, maps, etc. for documentation).

Accessible from Saline Falls Rd

4. Is an area with primary contact recreation activities or a bathing beach (e.g., state/local parks with swimming, etc.) located near (e.g., within 5 miles upstream and downstream) this site? Yes, Saline River @ Hwy 190

**C. Secondary Contact Water Recreation Evaluation:**

- Secondary contact recreation 1: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion and that commonly occur.

- Secondary contact recreation 2: Water recreation activities, such as fishing, commercial and recreational boating, and limited body contact incidental to shoreline activity, not involving a significant risk of water ingestion but that occur less frequently than for secondary contact recreation 1 due to (1) physical characteristics of the water body and/or (2) limited public access.

1. Were water recreation activities observed at the site, but the nature of the recreation does not involve a significant risk of ingestion (e.g., secondary contact recreation activities)?  Yes  No secondary contact recreation activities were observed.

a. Check the following boxes of secondary contact recreation activities that were observed at the time of the sampling event at the site (Attach photos of activities or lack of activities).

- Fishing  
 Boating-commercial, recreational  
 Non-whitewater-kayaking, rafting, canoeing  
 No secondary contact recreation activities were observed  
 Other secondary contact activities: \_\_\_\_\_

Field Data Sheets – Basic RUA Survey

Stream Name: Carey Creek  
Date: 6/25/11

Site: #57  
Time: 6:30 pm

- b. Check the number of individuals observed at the site.  
 None    1-10    11-20    20-50    greater than 50
- c. Check the following that apply regarding the individuals proximity to the water body.  
 Secondary touch: fishing, pets and related contact with water  
 In a boat touching water  
 Body on shore near water within 8 meters (25ft) of water  
 Body well away from water between 8 and 30 meters (100 ft)
- 2. If secondary contact recreation activities are not observed, describe the physical characteristics of the water body that may hinder the frequency of secondary contact (Attach photos, etc. for documentation).  
Very steep, vegetated banks, abundant log and  
garbage in channel, snakes
- 3. If secondary contact recreation activities are observed, how often do water recreational activities occur that do not involve a significant risk of water ingestion?  frequently    infrequently  
Please describe how often the activities occur?  Unknown    Never    Daily    Monthly    Yearly
- 4. If infrequently, what is the reason?  
 physical characteristics of the water body    limited public access    other  
If other, list reasons: \_\_\_\_\_
- 5. Describe the physical characteristics of the water body that hinders the frequency of secondary contact recreation (depth, etc.) (Attach photos or depth measurements, etc. for documentation).  
Same as #2
- 6. Describe why there is limited public access (e.g., lack of roads, river or stream banks overgrown, etc.) (Attach photos, maps, etc. for documentation).  
Accessible from SabineSouls Rd

**D. Noncontact Recreation Evaluation**

*Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion, and where primary and secondary contact recreation uses do not occur because of unsafe conditions, such as barge traffic.*

- 1. Provide site-specific information and documentation (including photographs) regarding unsafe conditions, recreation activities, and presence or absence of water recreation activities.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Field Data Sheets – Basic RUAA Survey

Stream Name: Caney Creek Site: 457  
 Date: 6/25/11 Time: 6:30pm

### E. Stream Channel and Substantial Pools Measurements

Please check the following which best describes the river or stream:  Wadeable  Non-wadeable

#### 1. Wadeable Streams

Determine whether or not the average depth at the thalweg is greater than 0.5 meters and if there are substantial pools with a depth of 1 meter or greater. Walk an approximately 300 meter reach (total) at the site and take the following measurements within the 300 meter reach. Measurements should be taken during base flow conditions (sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather

Also, take photos facing upstream, downstream, left bank, and right bank at the 30 meters, 150 meters, and 300 meters.

Photos #s (30 meters) Upstream 276 Downstream <sup>277</sup>279 Left Bank 278 Right Bank 279 *Extra photos \**  
 Photos #s (150 meters) Upstream 262 Downstream 263 Left Bank 264 Right Bank 265  
 Photos #s (300 meters) Upstream 269 Downstream 270 Left Bank 271 Right Bank 272

- a) Substantial pools - Measure the length of each pool (if > 10 pools only measure 10 pools), the width (at the widest point), and the deepest depth. A substantial pool is considered a pool greater than 10 meters in length for the purposes of a Basic RUAA Survey. If depth and/or width measurements were not attainable, explain why.

	Length (meters)	Width (meters)	Depth (meters)
Pool 1	24m	18m	1.6m
Pool 2			
Pool 3			
Pool 4			
Pool 5			
Pool 6			
Pool 7			
Pool 8			
Pool 9			
Pool 10			

- b) Average depth at the thalweg - Take depth measurements approximately every 30 meters to calculate an average depth at the thalweg (at least 10 measurements needed). If depth and/or width measurements were not attainable, explain why.

Distance	Depth (meters)
30 meters	0.10
60 meters	0.30
90 meters	0.23
120 meters	0.30
150 meters	0.40
180 meters	0.25
210 meters	0.15
240 meters	0.70
270 meters	0.20
300 meters	0.40
Average	0.30m

\* 266 - Dump site @ 240 m  
 267 - large garbage in channel  
 268 - oil/iron deposit  
 273 - logs in channel above 300m

274 - Dumpsite for @ 240  
 275 - water moccasin  
 280 - "no dumping" sign  
 283 - new fence to restrict dumping (from road)  
 282 - bridge across on south (d/s) side of road

### Field Data Sheets – Basic RUAA Survey

Stream Name: Carney Creek Site: # 57  
 Date: 6/25/11 Time: 6:30 pm

- c) Stream width – Measure (1) the width at one point which represents the typical average width of the 300 meter reach; (2) the width at the narrowest point of the stream within the 300 meter reach; and (3) the width at the widest point of the stream within the 300 meter reach.

Measurement Type	Width (meters)
Typical Average Width of 300 meter reach	4m
Width at narrowest point of the stream within 300 meter reach	2.5m
Width at the widest point of the stream within 300 meter reach	18m

- d) Is there sufficient water within a 300 meter stream reach during base flow conditions to support primary contact recreation?  Yes  No

Comments: \_\_\_\_\_  
 \_\_\_\_\_

2. Non-wadeable Streams

If accessible, take 10 width measurements which represent typical widths of the 300 meter reach. If the water is too deep and not accessible record the estimated average width of the water body.

Also, take photos facing upstream, downstream, left bank, and right bank at

Photos #s (30 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (150 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_  
 Photos #s (300 meters) Upstream \_\_\_\_\_ Downstream \_\_\_\_\_ Left Bank \_\_\_\_\_ Right Bank \_\_\_\_\_

# Measurements	Width (meters)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Field Data Sheets – Basic RUAA Survey**

Stream Name: Cory Creek Site: #57  
 Date: 6/25/11 Time: 6:30pm

**F. Additional RUAA Information**

1. Check the following activities observed over the site reach.

- |   |   |
|---|---|
| <input type="checkbox"/> Drinking or water in mouth | <input type="checkbox"/> Playing on shoreline |
| <input type="checkbox"/> Bathing                    | <input type="checkbox"/> Picnicking           |
| <input type="checkbox"/> Walking                    | <input type="checkbox"/> Motorcycle/ATV       |
| <input type="checkbox"/> Jogging/running            | <input type="checkbox"/> Hunting/Trapping     |
| <input type="checkbox"/> Bicycling                  | <input type="checkbox"/> Wildlife watching    |
| <input type="checkbox"/> Standing                   | <input checked="" type="checkbox"/> None      |
| <input type="checkbox"/> Sitting                    | <input type="checkbox"/> Other: _____         |
| <input type="checkbox"/> Lying down/sleeping        |   |

2. Are there permanent or long-term hydrologic modifications that are constructed and operated in a way that affects the recreational uses?  Yes  No (If yes, please provide supporting documentation and photos.)  
 Comments: \_\_\_\_\_

3. Check any channel obstructions that apply (Attach photos).

- |                                       |   |  |                                      |  |
|---------------------------------------|---|--|--------------------------------------|--|
| <input type="checkbox"/> Culverts     | <input type="checkbox"/> Fences   | <input checked="" type="checkbox"/> Log jams | <input type="checkbox"/> Rip rap     | <input type="checkbox"/> Water control structure |
| <input type="checkbox"/> Barbed wire  | <input type="checkbox"/> Dams   | <input type="checkbox"/> Thick vegetation    | <input type="checkbox"/> Low bridges | <input type="checkbox"/> None                    |
| <input type="checkbox"/> Utility pipe | <input checked="" type="checkbox"/> Other (specify): <u>logs + abundant large garbage</u> |  |                                      |  |

4. Check all surrounding conditions that promote recreational activities (Attach photos of evidence or unusual items of interest).

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Campgrounds             | <input type="checkbox"/> Stairs/walkway               | <input checked="" type="checkbox"/> Roads (paved/unpaved)   | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Playgrounds             | <input type="checkbox"/> Boating access (ramps)       | <input type="checkbox"/> Populated area                     | <input type="checkbox"/> None of the Above |
| <input checked="" type="checkbox"/> Rural area   | <input type="checkbox"/> Beach                        | <input type="checkbox"/> Docks or rafts                     |  |
| <input checked="" type="checkbox"/> Residential  | <input checked="" type="checkbox"/> Bridge crossing   | <input type="checkbox"/> Commercial outfitter               |  |
| <input type="checkbox"/> National forests        | <input type="checkbox"/> Commercial boating           | <input type="checkbox"/> Nearby school                      |  |
| <input type="checkbox"/> Urban/suburban location | <input type="checkbox"/> Trails/paths (hiking/biking) | <input checked="" type="checkbox"/> Power Line Corridor     |  |
| <input type="checkbox"/> Golf Course             | <input type="checkbox"/> Paved parking lot            | <input type="checkbox"/> Parks (national/city/county/state) |  |
| <input type="checkbox"/> Sports Field            | <input type="checkbox"/> Unimproved parking lot       | <input type="checkbox"/> Public Property                    |  |

Comments: \_\_\_\_\_

5. Check all surrounding conditions that impede recreational activities (Attach photos of evidence or unusual items of interest).

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Private Property           | <input type="checkbox"/> Fence             | <input checked="" type="checkbox"/> No trespass sign |
| <input type="checkbox"/> Barge/ship traffic                    | <input type="checkbox"/> Wildlife          | <input type="checkbox"/> Industrial                  |
| <input checked="" type="checkbox"/> Steep slopes               | <input type="checkbox"/> None of the Above | <input type="checkbox"/> No public access            |
| <input checked="" type="checkbox"/> Other: <u>Channel Bank</u> | <input type="checkbox"/> No roads          |  |

Comments: No trespassing / private property sign on S.W. side

6. Check any indications of human use (Attach photos).

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Roads   | <input type="checkbox"/> RV/ATV Tracks  | <input type="checkbox"/> NPDES Discharge         | <input type="checkbox"/> Organized event              |
| <input type="checkbox"/> Rope swings                                     | <input type="checkbox"/> Camping Sites  | <input type="checkbox"/> Gates on corridor       | <input checked="" type="checkbox"/> No Human Presence |
| <input type="checkbox"/> Dock/platform                                   | <input type="checkbox"/> Fire pit/ring  | <input type="checkbox"/> Children's toys         |   |
| <input type="checkbox"/> Foot paths/prints                               | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Remnant's of Kid's play |   |
| <input checked="" type="checkbox"/> Other: <u>abundant large garbage</u> |   |  |   |

Comments: \_\_\_\_\_

## Field Data Sheets – Basic RUA Survey

Stream Name: Carry Creek Site: #57  
 Date: 6/25/11 Time: 6:30 pm

7. Check all water characteristics that apply (Attach photos).

- Aquatic Vegetation:  absent  rare  common  abundant  
 Algae Cover:  absent  rare  common  abundant  
 Odor:  none  rare  common  abundant  
 Color:  clear  green  red  brown  black *mostly brown*  
 Bottom Deposit:  sludge  solids  fine sediments  none  other  
 Water Surface:  clear  scum  foam  debris  oil  
 Other: \_\_\_\_\_

8. Vertebrates Observed within 300 meter reach

- Snakes  None  slight presence  moderate presence  large presence  
 Water Dependent Birds  None  slight presence  moderate presence  large presence  
 Alligators  None  slight presence  moderate presence  large presence  
 Comments: snakes (1)

9. Mammals Observed within 300 meter reach

- Wild  None  slight presence  moderate presence  large presence  
 Domesticated Pets  None  slight presence  moderate presence  large presence  
 Livestock  None  slight presence  moderate presence  large presence  
 Feral Hogs  None  slight presence  moderate presence  large presence  
 Comments: \_\_\_\_\_

10. Evidence of wild animals or evidence of birds, cattle, hogs, etc

- Tracks  Fecal droppings  Bird nests *raccoon, dog*

11. Garbage Observed

- Large garbage in the channel  None  Rare  Common  Abundant  
 Small garbage in the channel  None  Rare  Common  Abundant  
 Bank Garbage  None  Rare  Common  Abundant

Briefly describe the kinds of garbage observed:

televisions, batteries, washing machines, dryers, toilets, couches, chairs, tires, sheet metal, bicycle parts...

12. Is the site located in a wildlife preserve with large wildlife (i.e., waterfowl) population?  Yes  No

13. Please document any other relevant information regarding recreational activities and the water body in general (for example, area outside of the stream reach evaluated).

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

