

SaniPath Risk Assessment and Urban Flooding Survey

Please complete the SaniPath Risk Assessment and Urban Flooding in Atlanta survey below.

Thank you!

Confidential

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Thank you!

Consent Form

SaniPath Risk Assessment and Urban Flooding Atlanta Study

You are invited to participate in a study on urban flooding and fecal contamination in Atlanta. Participation in this study involves completing a 30-minute survey using a computer. This study is conducted by Drs. Christine Moe and Amy Kirby from Emory University.

This survey will take approximately 30 minutes of your time. You will be asked to complete an online survey about your exposure to flooding and fecal matter in your neighborhood. Your decision to participate in this study is completely voluntary and you have the right to terminate your participation at any time without penalty. You may skip any questions you do not wish to answer. If you want do not wish to complete this survey just close your browser. Your participation in this research will be completely confidential. The final results from the study will be shared with the public. No one other than the study team will know how you answered. Although your participation in this research may not benefit you personally, it will help us understand how human behaviors may lead to exposure of fecal contamination and how many people in your community may be exposed. The results of this study could be used to develop methods to reduce exposure to flooding or fecal matter. There are no risks to individuals participating in this survey beyond those that exist in daily life.

Upon completion of the online survey, participants will receive a \$5 gift card, which will be emailed to the participants after the online survey is completed. Participants are paid only one time after completing and submitting the online survey. If the survey is not completed, the \$5 gift card will not be sent to the participant.

If you have questions about this project, you may contact Dr. Amy Kirby at floodingsurvey@emory.edu.

If you have any questions about your rights as a participant in this study or any concerns or complaints, please contact Emory Institutional Review Board: 404-712-0720 or toll-free at 877-503-9797 or by email at irb@emory.edu.

Please print a copy of this consent form for your records, if you so desire.

I have read the above consent form.

- ☐ Yes
- ☐ No

I certify that I am 18 years old or older.

- ☐ Yes
- ☐ No

Please provide todays date (Month, Day, Year)

Neighborhood

1 Which neighborhood are you from?

- ☐ Peoplestown
- ☐ English Ave
- ☐ Proctor Creek

Please provide your address

2a Please provide your address:
Address

(Address)

2b City/ Town

(City/ Town)

2c State

(State)

2d ZIP/ Postal Code

(ZIP/ Postal Code)

Sanipath Atlanta

- 3 Do you have children between the ages of 5-12? ☐ Yes
☐ No
- 4 Think about whether you ever go into rivers, lakes, streams, creeks, or ponds in your neighborhood. This includes wading, swimming, splashing around, and fishing. How often do you go into the rivers, lakes, streams, creeks or ponds?
☐ More than 10 times total every month.
☐ 6 to 10 times total every month.
☐ 1 to 5 times total every month.
☐ I never go into the rivers, lakes, streams, creeks or ponds.
(Select one option)
- 5 Think about whether your children ever go into the rivers, lakes, streams, creeks, or ponds in your neighborhood. This includes wading, swimming, splashing around, and fishing. How often do your children go into the rivers, lakes, streams, creeks, or ponds?
☐ More than 10 times total every month.
☐ 6 to 10 times total every month.
☐ 1 to 5 times total every month.
☐ My children never go into the rivers, lakes, streams, creeks or ponds.
☐ I do not know how often my children go into the rivers, lakes, streams, creeks or ponds.
(Select one option)

Sanipath Atlanta 2

- 6 How often do you come into contact with floodwater during the rainy season?

Floodwater may be stagnant water, such as puddles after heavy rain, overflowing storm drains or flooded creeks or rivers.

- ☐ More than 10 times total every month during the rainy season.
☐ 6 to 10 times total every month during the rainy season.
☐ 1 to 5 times total every month during the rainy season.
☐ I never come into contact with floodwater.
(Select one option)

- 7 How often do your children come into contact with floodwater during the rainy season?

Floodwater may be stagnant water, such as puddles after heavy rain, overflowing storm drains or flooded creeks or rivers.

- ☐ More than 10 times total every month during the rainy season.
☐ 6 to 10 times total every month during the rainy season.
☐ 1 to 5 times total every month during the rainy season.
☐ My children never come into contact with floodwater.
☐ I do not know how often my children come into contact with floodwater.
(Select one option)

Sanipath Atlanta 3

- 8 How many days a week do you drink from a public water source?

A public water source includes public water fountains but does not include a water cooler or bottled water.

- ☐ Everyday.
☐ 4 to 6 days a week.
☐ 1 to 3 days a week.
☐ I never drink water from a public water source.
☐ I do not know if I drink water from a public water source.
(Select one option)

- 9 How many days a week do your children drink from a public water source?

A public water source includes public water fountains but does not include a water cooler or bottled water.

- ☐ Everyday.
☐ 4 to 6 days a week.
☐ 1 to 3 days a week.
☐ My children never drink water from a public water source.
☐ I do not know how often my children drink water from a public water source.
(Select one option)

Sanipath Atlanta 4

- 10 How many days during the week do you eat produce that is raw (uncooked)?

For this question, we are referring to any fruit or vegetable that does not grow on a tree, and that does not have a peel or shell. Please think about produce you eat whole and produce you cut up but eat raw. For example lettuce, tomatoes, bell peppers.

- ☐ Everyday.
☐ 4 to 6 days a week.
☐ 1 to 3 days a week.
☐ I never eat raw produce.
(Select one option)

- 11 How many days during the week do your children eat produce that is raw (uncooked)?

For this question, we are referring to any fruit or vegetable that does not grow on a tree, and that does not have a peel or shell. Please think about produce you eat whole and produce you cut up but eat raw. For example lettuce, tomatoes, bell peppers.

- ☐ Everyday.
☐ 4 to 6 days a week.
☐ 1 to 3 days a week.
☐ My children never eat raw produce.
☐ I do not know if my children eat raw produce.
(Select one option)

Sanipath Atlanta 5

12 How often do you use a public toilet?

A public toilet includes a toilet in a public space such as a restaurant or gas station, or a toilet at school or work.

- ☐ More than 10 times total every week.
- ☐ 6 to 10 times total every week.
- ☐ 1 to 5 times total every week.
- ☐ I never use a public toilet.

(Select one option)

13 How often do your children use a public toilet?

A public toilet includes a toilet in a public space such as a restaurant or gas station, or a toilet at school or work.

- ☐ More than 10 times total every week.
- ☐ 6 to 10 times total every week.
- ☐ 1 to 5 times total every week.
- ☐ My children never use a public toilet.
- ☐ I do not know how often my children use a public toilet.

(Select one option)

Flooding

- 14 Do you own the property where you are living? ☐ Yes
☐ No
- 15 Are you renting the house/apartment/property where you are living? ☐ Yes
☐ No
- 16 What type of property is it? ☐ Residential (House/Apartment)
☐ Business
☐ Other
(Select one option)
- 16a If other, specify
-
- 17 How many people live with you? ☐ 0-2
☐ 3-5
☐ 6-8
☐ More than 9
(Selection one option)
- 18 How long have you been living at your current address? ☐ less than one year
☐ 1-5 years
☐ 6-9 years
☐ 10-14 years
☐ 15-19 years
☐ Longer than 20 years
(Select one option)

Perception**Please describe the extent to which you AGREE or DISAGREE with each statement.**

	Strongly Agree	Agree	Neutral	Disagree	Strongly disagree	Not applicable
19a Flood water is safe to drink	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19b Flood water can cause illnesses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19c Contact with flood water should be avoided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19d Flood water contains germs, which make me sick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19e Bleach solution should be used to clean surfaces after a flood event	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19f During a flooding event, tap water in my house/apartment is safe to drink	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19g There is no risk to my property during a flooding event	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19h Flood water contains dangerous chemicals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19i Flood water contains sewage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19j There is no health risk associated with flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19k During a flooding event, I am worried about the safety of the drinking water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19l Sewage and storm water overflow after a heavy rainfall cause the flooding in my area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Behavior**Please describe the extent to which you AGREE or DISAGREE with each statement.**

	Strongly Agree	Agree	Neutral	Disagree	Strongly disagree	Not applicable
20a Flooding is a major issue in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20b My house/apartment floods regularly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20c My yard floods regularly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20d The streets near my house/apartment flood regularly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20e During a flooding event, I walk through the flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20f During a flooding event, my children play in the flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20g During a flooding event, my pets play in the flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20h During a flooding event, my pets drink the flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20i Flood water causes damage other than mold to my house/apartment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20j Flood water causes mold to grow in the flooded parts of the house/apartment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20k I wear protective equipment such as waterproof boots and plastic or rubber gloves when cleaning up after a flooding event	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20l My tap water changes color during a flooding event	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20m I boil my tap water when flooding occurs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20n After my house/apartment floods, I use bleach or Lysol to clean all the surfaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20o I wash my hands with soap and water after cleaning up flood water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Previous Experience

- 21 Have you previously experienced any flooding in your neighborhood? ☐ Yes
☐ No
- 22 How often do you hear about flooding in your neighborhood each year?
☐ Never
☐ 1 or 2 times each year
☐ 3-6 times each year
☐ 7-12 times each year
☐ More than 12 times each year
(Select one option)
- 23 When it is flooding in your area, which of the following areas flood:
☐ Street nearby the property/house/ apartment
☐ Yard
☐ House
☐ Other
(Choose all that apply)
- 23a If other, specify _____

Previous Experience 2

- 24 How often does the street(s) by your house flood in one year?
- ☐ Never
 - ☐ 1-2 times each year
 - ☐ 3-6 times each year
 - ☐ 7-12 times each year
 - ☐ More than 12 times
- (Select one option)
- 25 How often does your yard flood in one year?
- ☐ Never
 - ☐ 1-2 times each year
 - ☐ 3-6 times each year
 - ☐ 7-12 times each year
 - ☐ More than 12 times
- (Select one option)
- 26 How often does your house flood in one year?
- ☐ Never
 - ☐ 1-2 times each year
 - ☐ 3-6 times each year
 - ☐ 7-12 times each year
 - ☐ More than 12 times
- (Select one option)

Previous Experience 3

- 27 If flooding occurs, ...
- ☐ I walk through flooded areas
 - ☐ My children play in flood water
 - ☐ I have direct skin contact with flood water
 - ☐ I touch the flood water with my hands
 - ☐ None of the above
- (Choose all that apply)
- 28 During a flooding event, I spend __ minutes walking through flood water.
- ☐ I don't walk in flood water
 - ☐ 1-10 minutes
 - ☐ 11-30 minutes
 - ☐ 31-60 minutes
 - ☐ More than one hour
- (Select one option)
- 29 During a flooding event, my children play __ minutes in flood water.
- ☐ My children don't play in flood water
 - ☐ 1-10 minutes
 - ☐ 11-30 minutes
 - ☐ 31-60 minutes
 - ☐ More than one hour
- (Select one option)

Personal Information

- 30 How old are you?
- ☐ Under 12 years
 - ☐ 12 - 17 years old
 - ☐ 18 - 24 years old
 - ☐ 25 - 34 years old
 - ☐ 35 - 44 years old
 - ☐ 45 to 54 years old
 - ☐ 55 - 64 years old
 - ☐ 64 - 74 years old
 - ☐ 75 years or older
- 31 What is your gender?
- ☐ Female
 - ☐ Male
 - ☐ Prefer not to answer
- 32 What is your race or ethnicity?
- ☐ White
 - ☐ Hispanic or Latino
 - ☐ Black or African American
 - ☐ Native American or American Indian
 - ☐ Asian / Pacific Islander
 - ☐ Other
 - ☐ Prefer not to answer
- (Select one option)
- 32a If other, specify
-

Personal Information 2

- 33 What is the highest level of education that you have completed?
- ☐ No schooling completed
 - ☐ Nursery school to 8th grade
 - ☐ Some high school, no diploma
 - ☐ High school graduate, diploma or the equivalent (for example: GED)
 - ☐ Some college credit, no degree
 - ☐ Trade/technical/vocational training
 - ☐ College degree
 - ☐ Post-graduate degree
- (Select one option)
- 34 Do you have a job?
- ☐ Yes
 - ☐ No
 - ☐ Retired
 - ☐ Other
- (Select one option)
- 34a If other, specify
-
- 35 Which of the following describes your household income per year?
- ☐ Less than \$15,000
 - ☐ \$15,001 - \$30,000
 - ☐ \$30,001 - \$50,000
 - ☐ \$50,001 - \$75,000
 - ☐ More than \$75,000
- (Select one option)

Contact Information

36 Are you willing to be contacted via email/ phone for follow up questions?

☐ Yes
☐ No

36a If yes, please provide your email or phone number for follow up questions
Name (optional):

(Name (optional))

36b Email:

(Email)

36c Phone:

(Phone)