

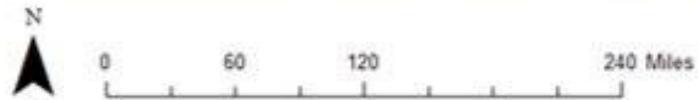
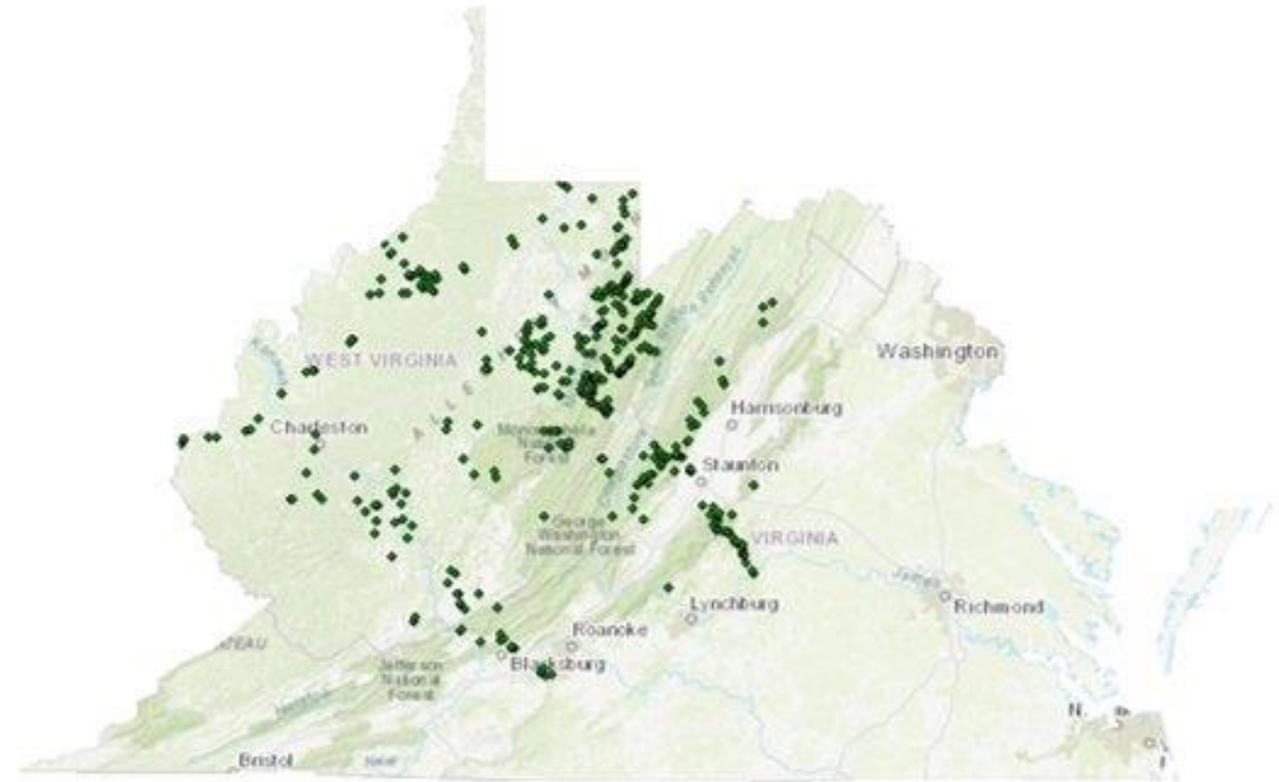
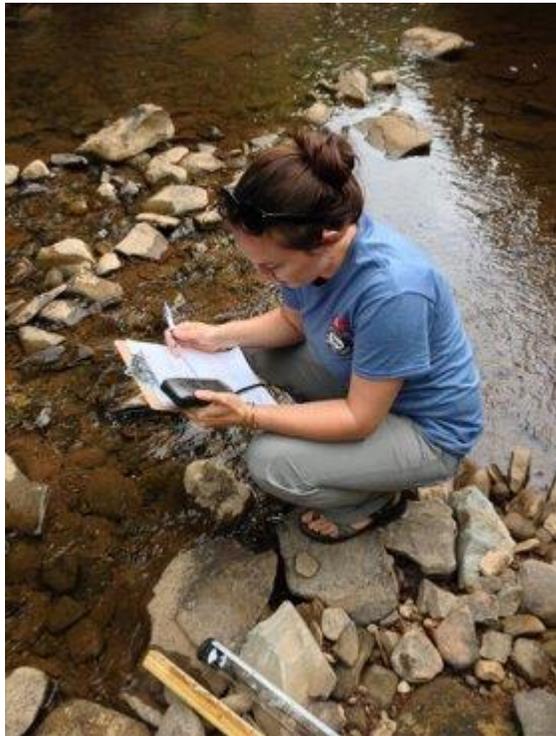
West Virginia Stream Watch Orientation

June 23rd, 2021



www.tu.org

WV/VA Water Quality Monitoring Project



Outdoor Recreationists Identify Water Quality and Habitat Issues:

- Erosion and Sedimentation
- Point source pollutants
- Fish Passage Barriers

Database:

- Follow Up Enforcement
- Potential Conservation Projects

WV Stream Watch

Location *

Mark the location of your observation using your phone GPS by tapping the crosshair icon at top left on the map below. OPTIONAL: Tap and hold the 'location' button for GPS averaging, this improves positional accuracy. IMPORTANT: If you do not have a GPS signal at the location, 1) save the survey locally to your phone and 2) adjust the location pin by panning on the location map BEFORE you submit the survey when back in cell service

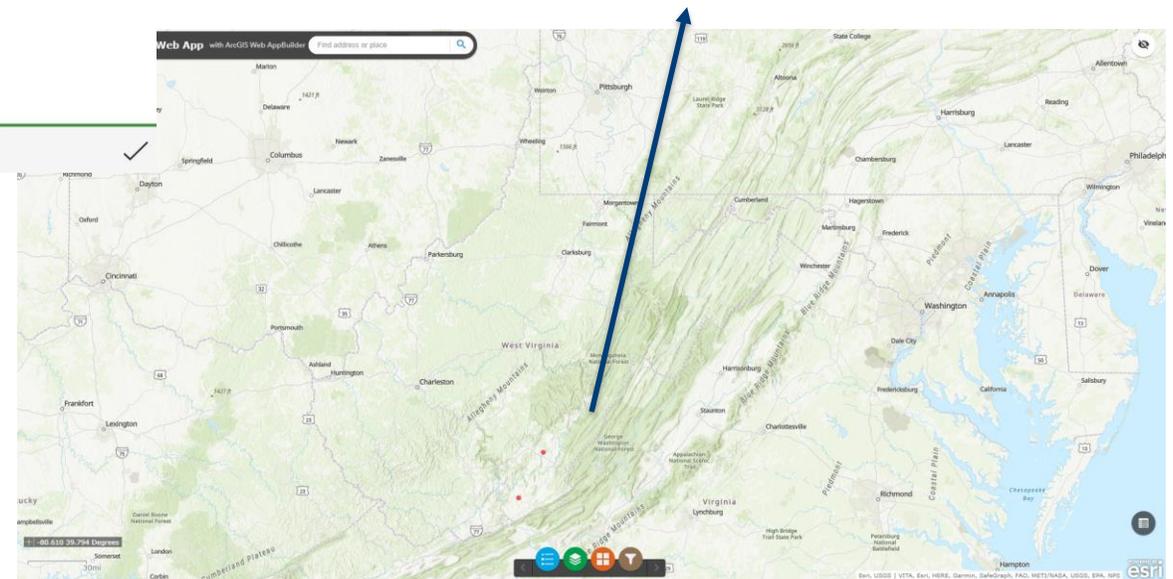
43°5'N 85°27'W ± 10 m



What is your disturbance? *

Choose the category of disturbance you've observed.

- Sedimentation and Erosion
- Water Quality Impacts
- Solid Waste
- In-Stream Impact
- Fish Passage Barrier



WV Stream Watch: Overview



Snapshot of app sequence: Completing Form

WV Stream Watch

Smartphone-enabled form to document and share water quality and habitat issues on West Virginia streams and rivers.

Owner: jlemon
Created: 2/18/21 9:09 AM
Modified: 3/18/21 11:29 AM

WV Stream Watch

Smartphone-enabled form to document and share water quality and habitat issues on West Virginia streams and rivers.

Stream Name *
Enter the name of the waterbody, or nearby waterbody, where there observation was made. If you don't know the stream name, just type "unknown".

Name of Observer
Enter your name. None of the information entered in this form will be made public.

Observer Email Address
Enter your email address so we can follow up with you for more info.

Validate your email by entering it again

Observer Phone Number
Enter your phone number if you prefer to be contacted via

✓

WV Stream Watch

Location *
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✓

WV Stream Watch

What is your disturbance? *
Choose the category of disturbance you've observed.

- Sedimentation and Erosion
- Water Quality Impacts
- Solid Waste
- In-Stream Impact
- Fish Passage Barrier
- Other

What Sedimentation and Erosion issue did you observe?
Choose the category that best aligns with your observation.

- Failed Erosion Control Measure
- Slope Failure
- Sediment on Roadway
- Sediment Laden Runoff Entering Stream
- Sediment in Stream/Wetland

✓

WV Stream Watch

DEP Emergency Spill Hotline
If you observe a spill of hazardous waste or hazardous material that constitutes imminent danger call 911. Emergency spills can be reported to the WVDEP hotline at 1-800-642-3074. Non-emergency spills can be reported by calling 1-304-926-0499

Take 1 to 3 photos of the observed issue
Take 1 to 3 good quality photographs of the issue. Be close enough for detail, but capture other features for a sense of scale. Take photos horizontally for higher image quality. Tap the plus button at the bottom right to add more photos.

Upload a photo

1 of 1

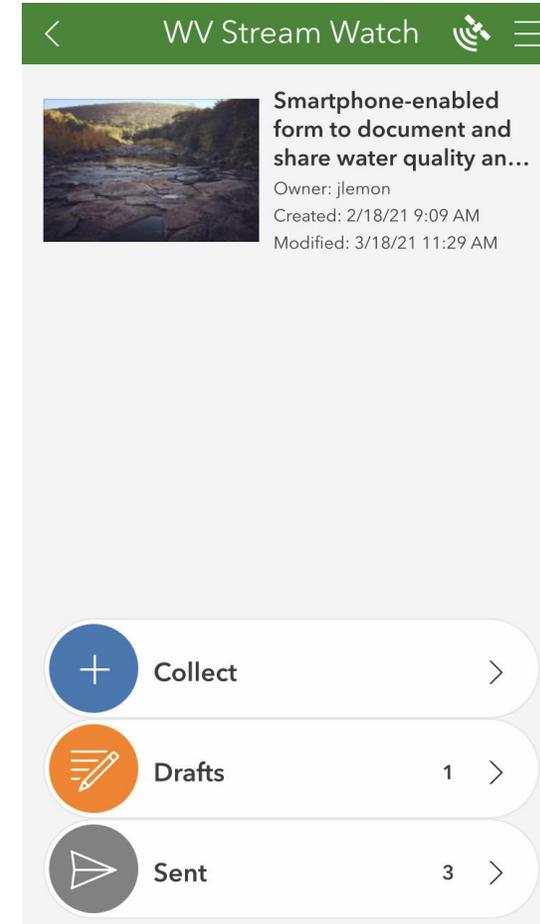
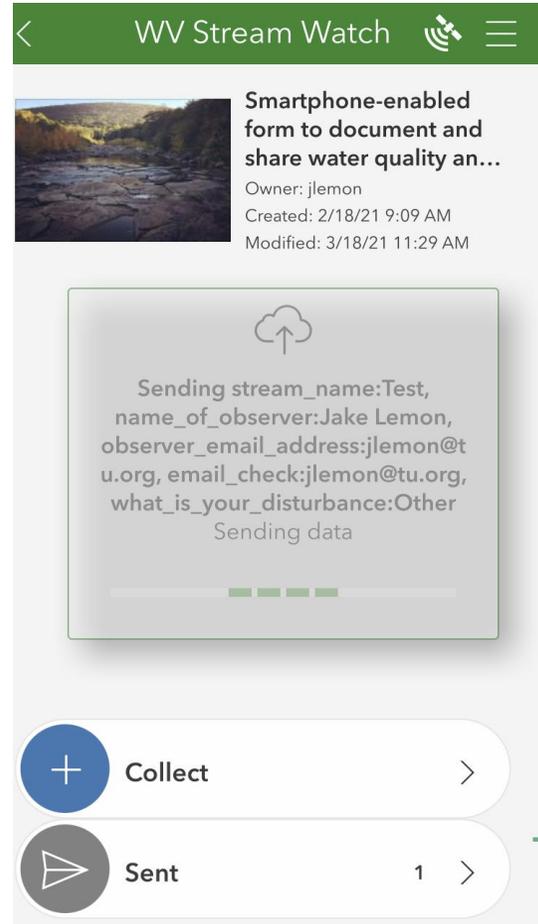
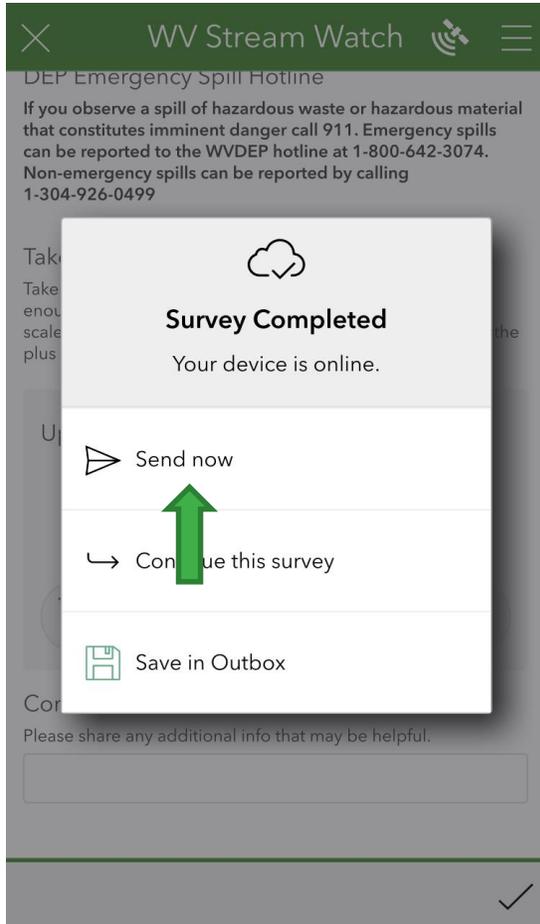
Comments
Please share any additional info that may be helpful.

✓

WV Stream Watch: Overview



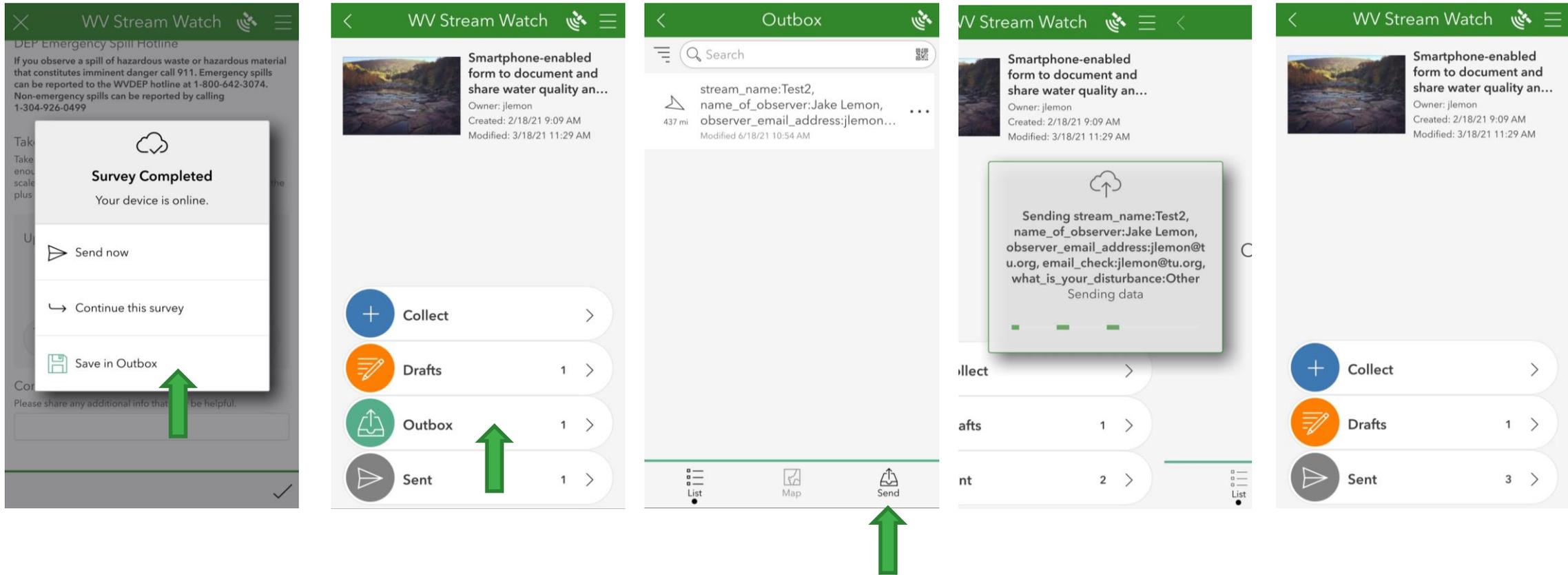
Snapshot of app sequence: Sending Data Now



WV Stream Watch: Overview



Snapshot of app sequence: Sending Data Later



WV Stream Watch: Overview



Snapshot of app sequence: Setting Answers as Favorites

WV Stream Watch

Name of Observer
Enter your name. None of the information entered in this form will be made public.

Jake Lemon

Observer Email Address
Enter your email address so we can follow up with you for more info.

jlemon@tu.org

Validate your email by entering it again

jlemon@tu.org

Observer Phone Number
Enter your phone number if you prefer to be contacted via phone. This information will not be public.

Location *

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✓

WV Stream Watch

Set as favorite answers

Name of Observer
Enter your name. None of the information entered in this form will be made public.

Jake Lemon

Observer Email Address
Enter your email address so we can follow up with you for more info.

jlemon@tu.org

Validate your email by entering it again

jlemon@tu.org

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WV Stream Watch

Smartphone-enabled form to document and share water quality habitat issues on West Virginia streams and rivers.

Stream Name *

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Mark the location of your observation using your phone GPS by tapping the crosshair icon at top left on the map below. OPTIONAL: Tap and hold the 'location' button for GPS averaging, this improves positional accuracy. IMPORTANT: If you do not have a GPS signal at the location, 1) save the survey locally to your phone and 2) adjust the location pin by panning.

Close Survey

- Close and lose changes
- Continue this survey
- Save in Drafts

✓

WV Stream Watch

Set as favorite answers

Paste answers from favorite

Name of Observer
Enter your name. None of the information entered in this form will be made public.

Observer Email Address
Enter your email address so we can follow up with you for more info.

Validate your email by entering it again

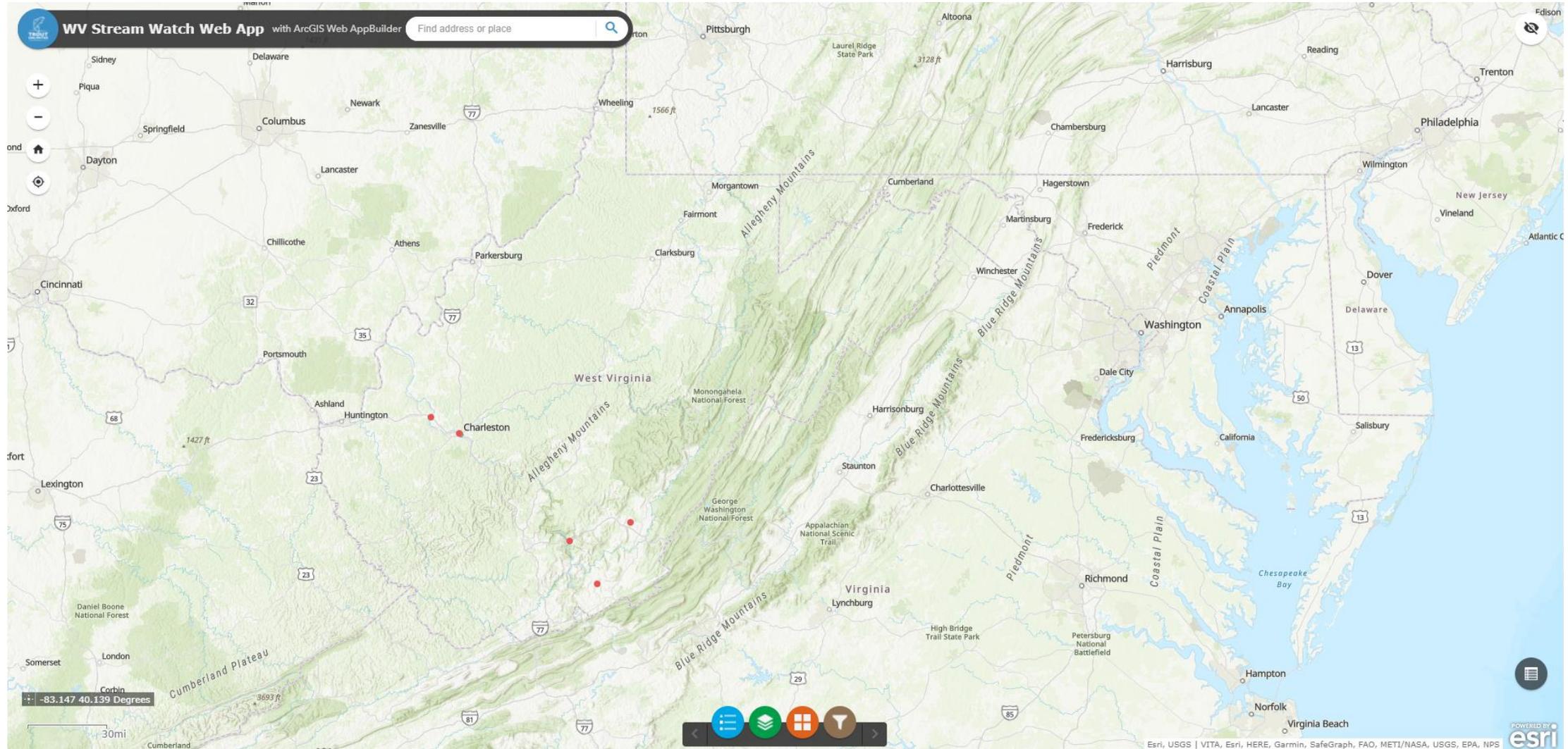
Observer Phone Number
Enter your phone number if you prefer to be contacted via phone. This information will not be public.

Location *

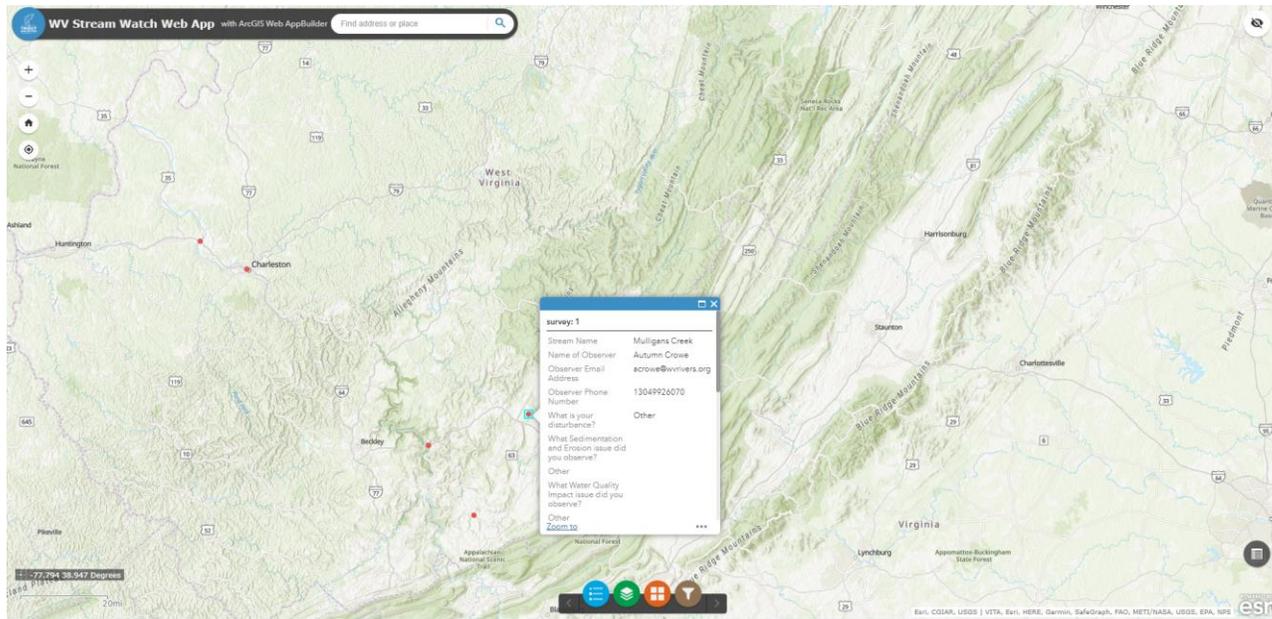
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✓

Web Application



Web Application



General Disturbance Type:

- Sedimentation and Erosion
- Water Quality Impacts
- Solid Waste
- In-Stream Impact
- Fish Passage Barrier
- Other



WV Stream Watch: Disturbances



Sedimentation and Erosion



Failed Erosion Control



Slope Failure



Sediment on Roadway



Sediment Laden Water Entering Stream



Sediment in Stream/Wetland

Water Quality Impact



Acid Mine Drainage



Algal Bloom



Pipe Discharging into Stream



Petroleum Spill and/or Fish Kill

Solid Waste



Litter in Stream



Tire Dump



Open Dump

Fish Passage Barrier



Perched Culvert



Dam

In Stream Impacts



Equipment in Stream



Livestock in Stream

Sedimentation and Erosion



Water Quality Impact





In Stream Impact



Equipment In Stream



Livestock In Stream

Fish Passage Barrier



Perched Culvert



Dam

WV Stream Watch: Good Photos

Tip 1: Balance amount of detail (how close) with perspective (how far)

GOOD



BAD



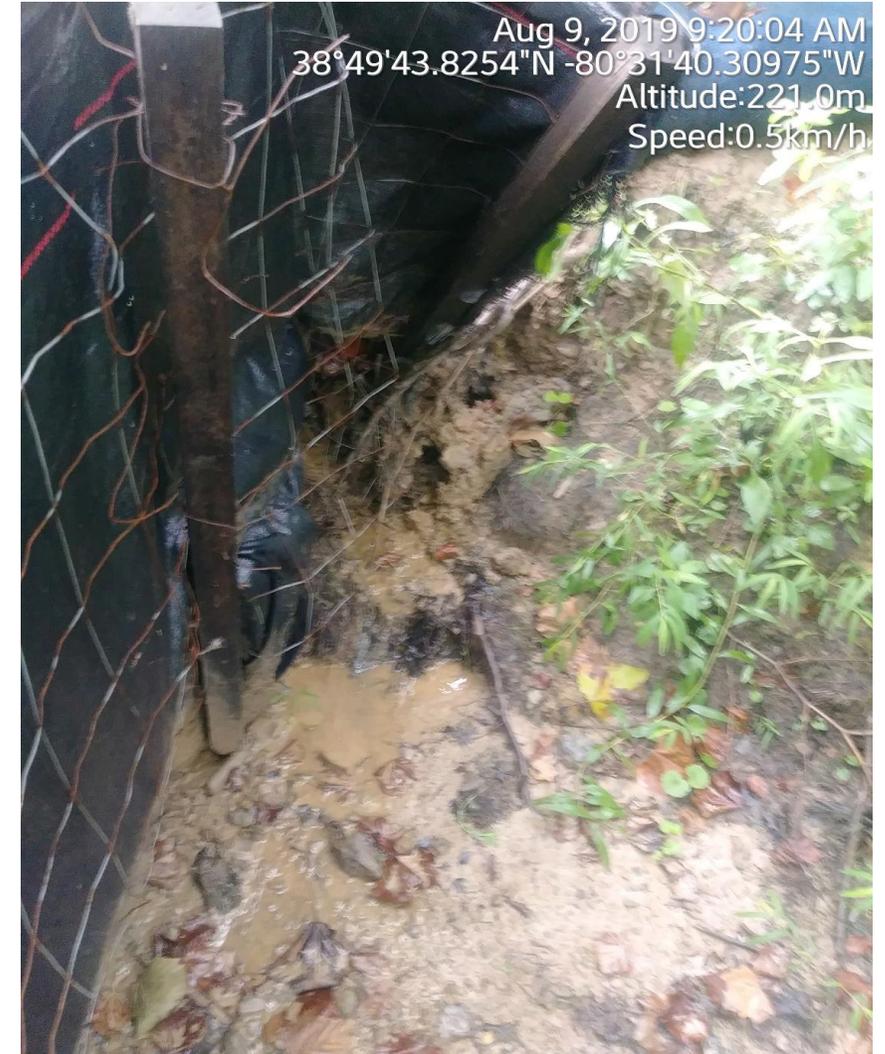
WV Stream Watch: Good Photos

Tip 2: Use an object of known size for scale

GOOD



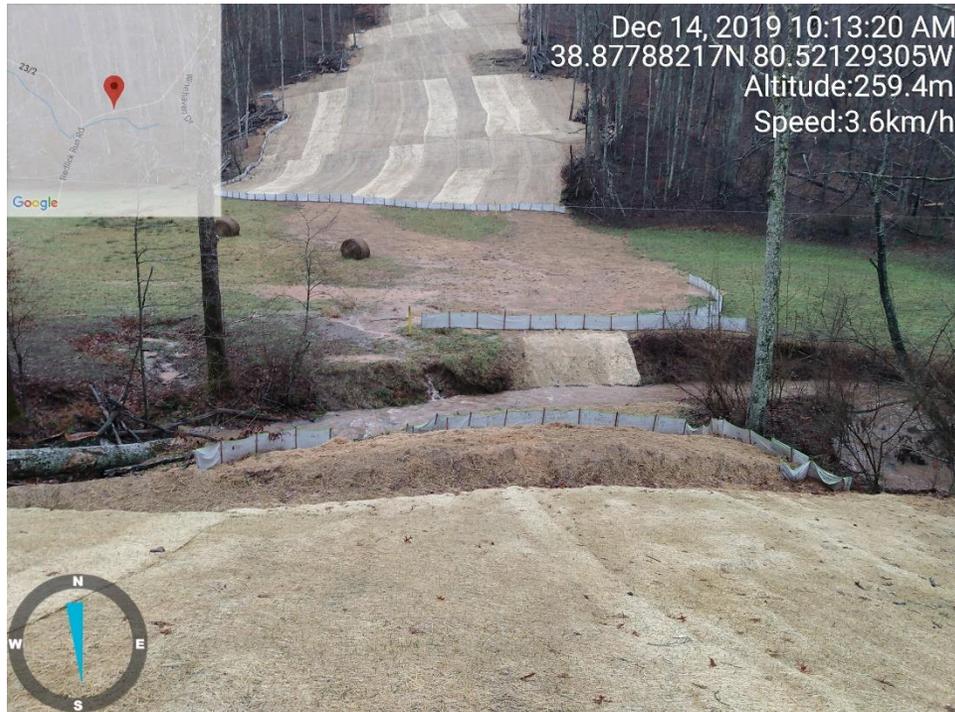
BAD



WV Stream Watch: Good Photos

Tip 3: Document source

GOOD



No Source



WV Stream Watch: Good Photos

Tip 4: Multiple photos with different perspectives



Downloading WV Stream Watch: Two-Step Process

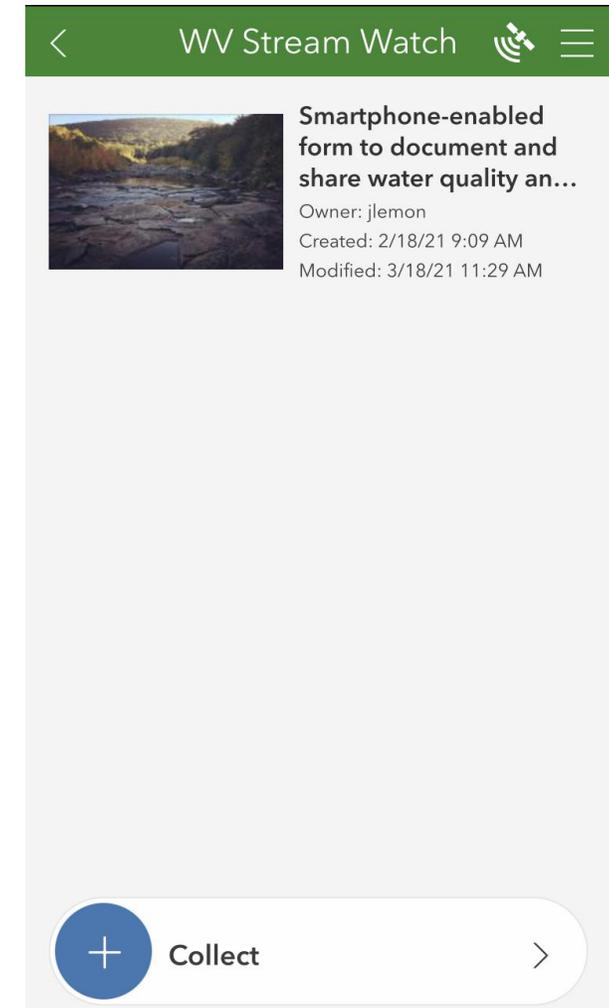
1. Download Survey123 for ArcGIS

- iPhone: App Store
- Android: Google Play
- Scan QR code
- Do not need to create account (username/password)



2. Download WV Stream Watch form

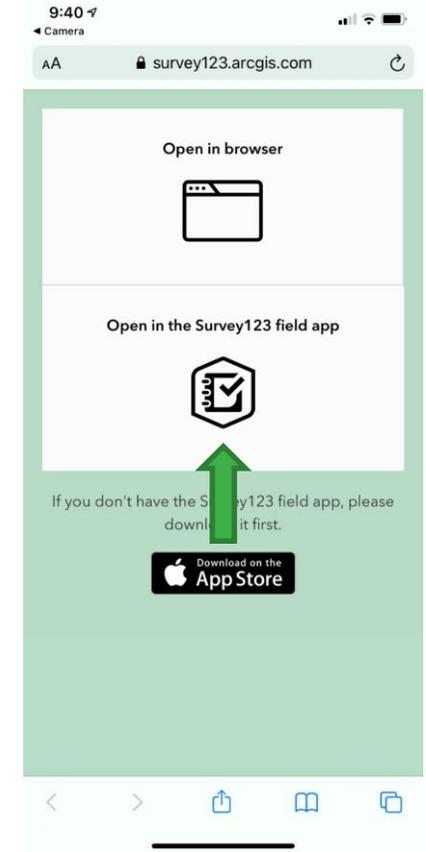
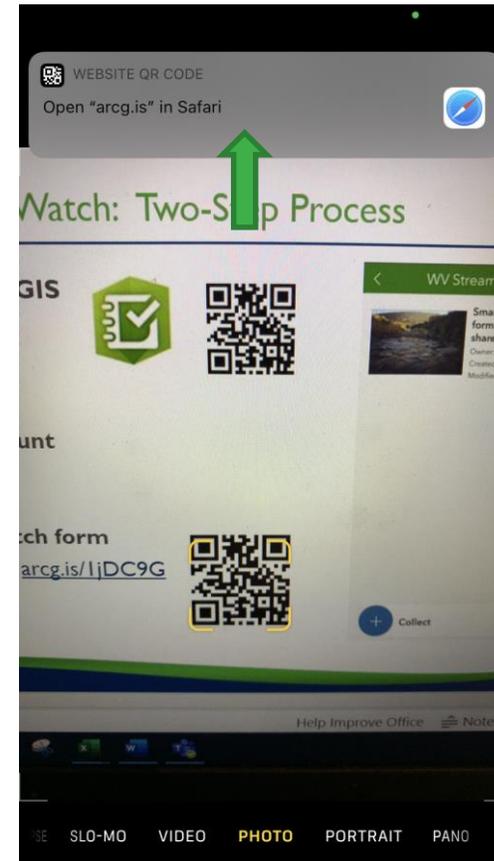
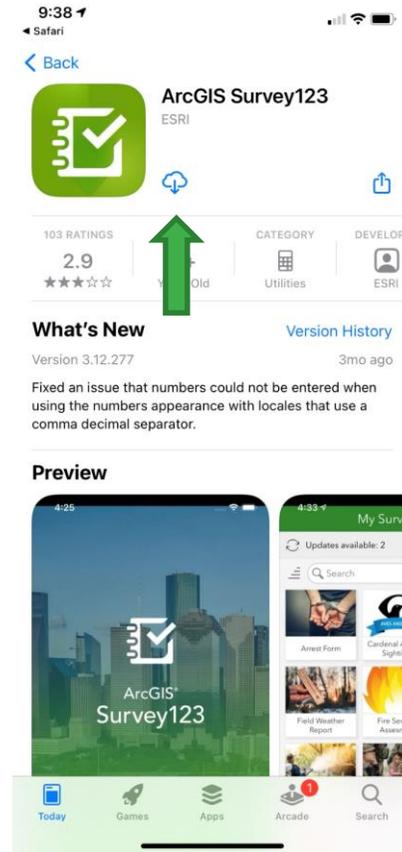
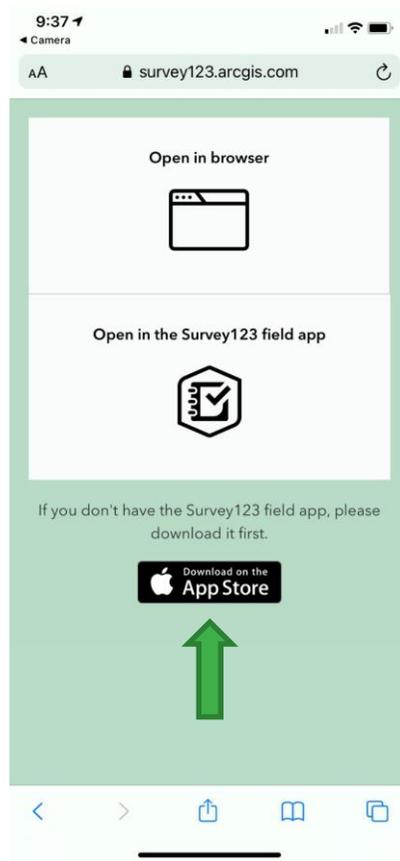
- Safari or Google Chrome: arcg.is/IjDC9G
- Scan QR code



Downloading WV Stream Watch



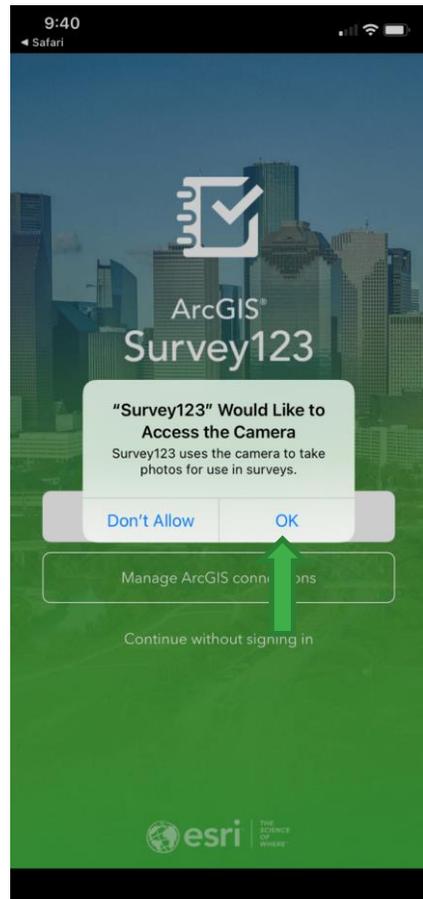
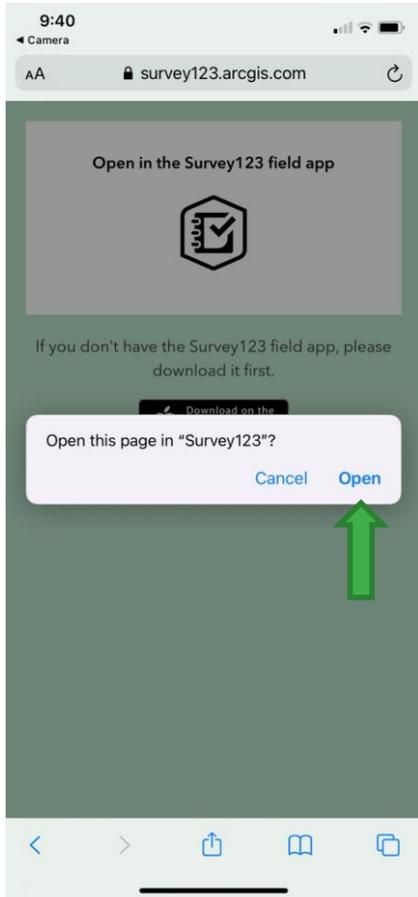
Use phone camera to scan QR code



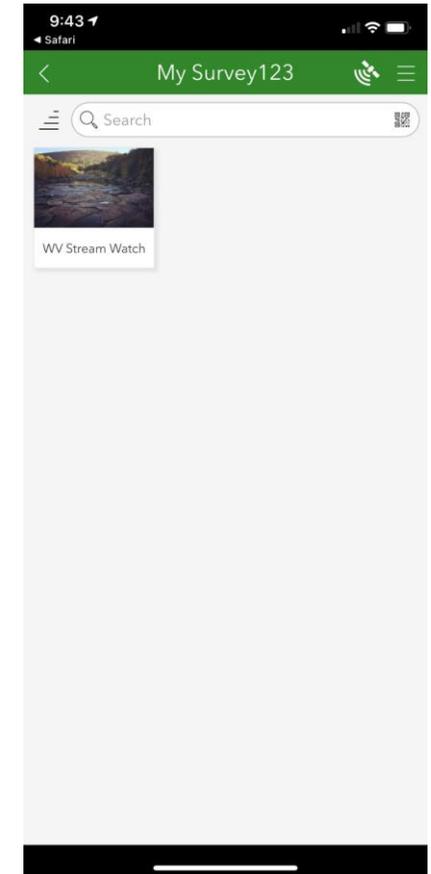
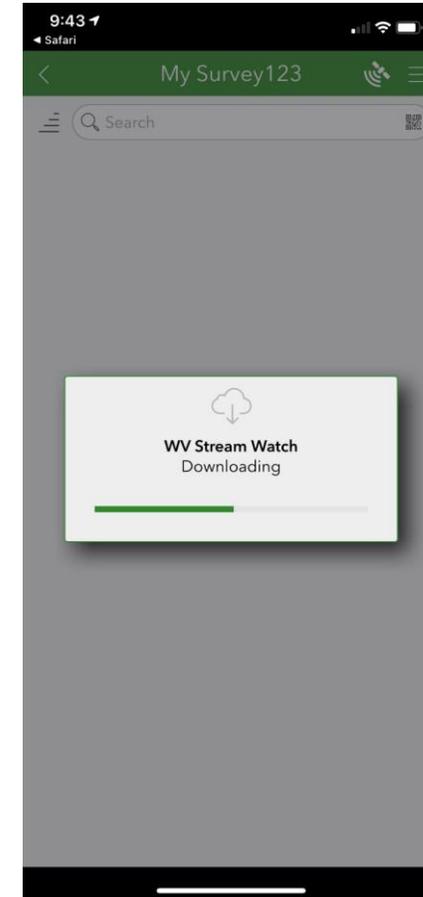
Downloading WV Stream Watch



May also request to access location. Allow access.



CONTINUE WITHOUT SIGNING IN!



WV Stream Watch Guidance Docs



www.tu.org/conservation/our-conservation-approach/science/angler-science

WV Stream Watch: Get Started

Overview:

The West Virginia Stream Watch app is a smartphone-enabled form designed to document and share water quality and habitat issues on West Virginia streams and rivers. This basic information is stored online and is viewable by WV Rivers, TU, partner organizations and agency staff. The information collected is intended to be a broad description of the disturbance with photographic evidence that is geo-located (GPS location). This information will inform follow up inspections and/or identification of potential restoration projects.

Downloading WV Stream Watch:

WV Stream Watch is not a mobile app itself, but rather is a 'Survey' within the mobile app called Survey123 for ArcGIS

Step 1: Download the Survey123 for ArcGIS mobile app to your phone:

- Use the App Store with an iPhone, or Google Play with an Android phone
- Or, scan the QR code below to be prompted to download Survey123 for ArcGIS from your respective app store

NOTE: If you open the Survey123 app at this point, it will ask you to Sign In; instead, you must first download the WV Stream Watch survey form, as described below.

Step 2: Download the WV Stream Watch survey form within the Survey123 for ArcGIS app:

- Open this link on your phone using Safari or Google Chrome: <https://www.surveymonkey.com/s/11DC9G>
OR, Scan the QR code using your smartphone camera
- This will prompt you to open the link in a browser, such as Safari
- Click 'Open in the Survey123 field app'. Ignore the 'Sign in to ArcGIS online' message if it appears. Click continue without signing in. Allow Survey123 to access your location and camera

Opening WV Stream Watch within the Survey123 app:

Step 1: Open the Survey123 app (if not already open)

Step 2: Select the WV Stream Watch survey from My Surveys

Step 3: Tap the Collect icon at the bottom of your screen to begin collecting data

Tap Collect at bottom to start a survey.

The West Virginia Stream Watch app is a smartphone-enabled form designed to document and share water quality and habitat issues on West Virginia streams and rivers.

(updated: 01/02/21)

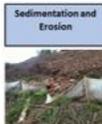
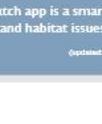
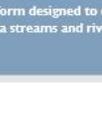
WV Stream Watch: Disturbances

Overview: Disturbances

The WV Stream Watch mobile application is a convenient way for citizen observers to collect data on and map disturbances on their home waters. Disturbance data are collected at two levels: general disturbances, and specific disturbances.

Type of general disturbances:

WV Stream Watch can document general (blue box) and specific disturbances. Here are the general categories:

The West Virginia Stream Watch app is a smartphone-enabled form designed to document and share water quality and habitat issues on West Virginia streams and rivers.

(updated: 01/02/21)



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Autumn Crowe
WV Rivers Coalition
Staff Scientist
acrowe@wvrivers.org

