

**WEBINAR**  
1/5/22  
Starts 9am

Info (long: -77.541275586" lat: 40.53120384")

**Municipality**

Name	Type	County
Union	Township	Centre

**Roads**

Ogr_fid	Name
176465	Poor Farm Ln

**Streams**

Name	Designated Use	Existing Use
Unnamed	CWF	N/A

Drainage Area: 205.35 acres

OK

**CDGRS**

Steve Bloser  
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**SCC**

Roy Richardson  
[rrichardso@pa.gov](mailto:rrichardso@pa.gov)

**SCC**

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# Stream Notification and Exemptions

## Notifications:

- Reminder and review of process
- Added input for exemptions

## Exemptions:

- Review process
- A few examples



## Where the DGLVR Stream Crossing Policy Applies

- where streams, including intermittent channels, with identified bed and banks are flowing into the road or the uphill ditch.
- All stream crossing replacements funded in whole or in part with DGLVR funds, or listed as in-kind on a DGLVR Project, must follow the DGLVR Stream Crossing Design & Installation Standard
  - unless an “Exemption from DGLVR Stream Crossing Standard” is applicable

# Stream Notification

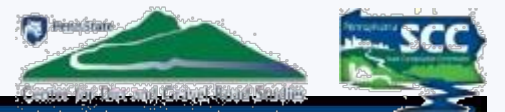
## Where the DGLVR Stream Crossing Policy Applies

### Example 1

Looking  
upslope  
from road



# Stream Notifications and Exemptions



## Where the DGLVR Stream Crossing Policy Applies

### Example 1

Looking upslope from road



# Stream Notifications and Exemptions

## Where the DGLVR Stream Crossing Policy Applies

### Example 2

Looking  
upslope  
from road



# Stream Notifications and Exemptions

## Where the DGLVR Stream Crossing Policy Applies

### Example 3

Looking  
upslope  
from road



# Stream Notifications and Exemptions

## Where the DGLVR Stream Crossing Policy Applies

### Example 4

Looking  
upslope  
from road





## Stream Crossing Notifications

- **With the new standard in place, are stream crossing replacement notifications still required?**

## Stream Crossing Notifications

- **With the new standard in place, are stream crossing replacement notifications still required?**

**Yes:** *(DGLVR Administrative Manual 7.1.2.2)*

***SCC Notification:*** *Conservation districts are required to notify the State Conservation Commission (SCC) of proposed stream crossing replacements as soon as practical before a contract is signed. An online notification system is available by logging in to the Center for Dirt and Gravel Road Studies website (same log-in as accessing the GIS system) at [www.dirtandgravelroads.org](http://www.dirtandgravelroads.org).*

## Stream Crossing Notifications

- **Why are notifications still required?**

## Stream Crossing Notifications

- **Why are notifications still required?**
  - *To get ahead of potential issues*
  - *To gauge upcoming workload*
  - *To ensure adequate TA is available*

## Stream Crossing Notifications

- **Are notifications required for exempt crossings?**

## Stream Crossing Notifications

- **Are notifications required for exempt crossings?**

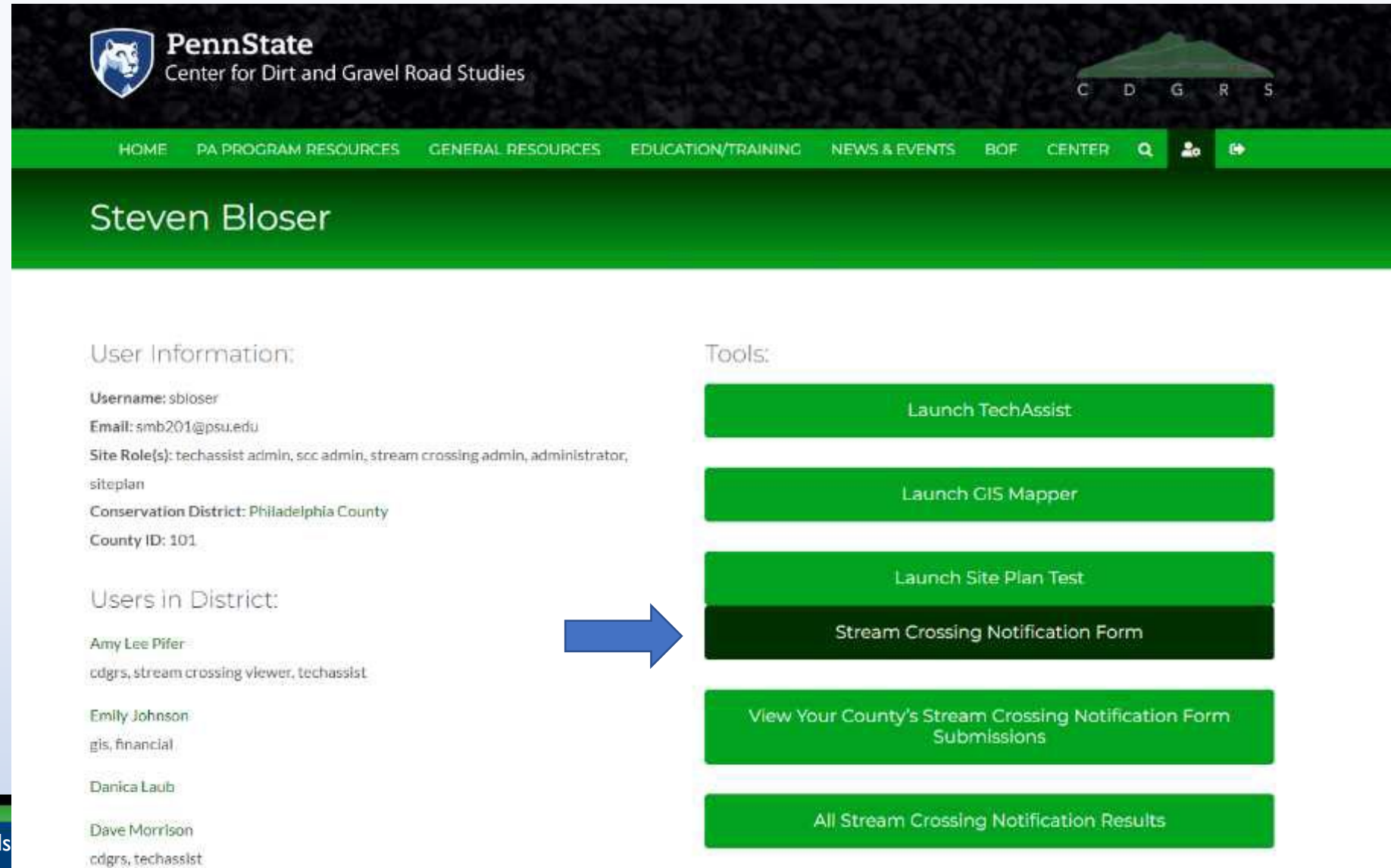
**Yes:** *(DGLVR Administrative Manual 7.1.3)*

*Complete the “Automatic Exemption from the DGLVR Stream Crossing Standard” form (Appendix I) and keep it in the project file. Automatic exemptions still need to be reported in the SCC notification system.*

New input selections for exempt crossings in notification system – will review

## Stream Crossing Notifications

- **Where:**



The screenshot shows the user profile page for Steven Bloser on the Penn State Center for Dirt and Gravel Road Studies website. The page features a green navigation bar with links for HOME, PA PROGRAM RESOURCES, GENERAL RESOURCES, EDUCATION/TRAINING, NEWS & EVENTS, BOF, and CENTER. Below the navigation bar, the user's name "Steven Bloser" is displayed. The page is divided into two main sections: "User Information:" and "Tools:". The "User Information:" section lists the following details: Username: sbloser, Email: smb201@psu.edu, Site Role(s): techassist admin, scc admin, stream crossing admin, administrator, siteplan, Conservation District: Philadelphia County, and County ID: 101. The "Users in District:" section lists three other users: Amy Lee Pifer (cdgrs, stream crossing viewer, techassist), Emily Johnson (gis, financial), and Danica Laub. The "Tools:" section contains five buttons: "Launch TechAssist", "Launch GIS Mapper", "Launch Site Plan Test", "Stream Crossing Notification Form" (highlighted in dark green), and "View Your County's Stream Crossing Notification Form Submissions". A blue arrow points from the "Users in District:" section to the "Stream Crossing Notification Form" button. The footer of the page includes the URL www.dirtandgravelroads.com.

**User Information:**

Username: sbloser  
Email: smb201@psu.edu  
Site Role(s): techassist admin, scc admin, stream crossing admin, administrator, siteplan  
Conservation District: Philadelphia County  
County ID: 101

**Users in District:**

Amy Lee Pifer  
cdgrs, stream crossing viewer, techassist

Emily Johnson  
gis, financial

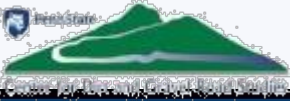
Danica Laub

Dave Morrison  
cdgrs, techassist

**Tools:**

- Launch TechAssist
- Launch GIS Mapper
- Launch Site Plan Test
- Stream Crossing Notification Form**
- View Your County's Stream Crossing Notification Form Submissions
- All Stream Crossing Notification Results

# Stream Notifications and Exemptions



## Basic Information: who, what, where, when

### Basic Information

Road Owner *(Required)*

Road Name *(Required)*

Road Type *(Required)*

- Low Volume Road (LVR)
- Dirt and Gravel Road (DnG)

Latitude *(Required)*

Please use up to 4 decimal places if possible.

Longitude *(Required)*

Please use up to 4 decimal places if possible.

Proposed Contract Sign Date *(Required)*

Proposed Construction Date *(Required)*



# Stream Notifications and Exemptions



## Existing Conditions: bankfull and existing structure

### Existing Conditions

Bankfull Width (ft) *(Required)*

i.e. 250 or UNKNOWN

[Click here if unknown.](#)

Existing structure type *(Required)*

Round Pipe

Bankfull measurement confidence *(Required)*

Low

Existing structure opening width (ft) *(Required)*

i.e. 250 or UNKNOWN

[Click here if unknown.](#)

# Stream Notifications and Exemptions



## Project Status

### Project Status

What is likelihood of crossing replacement being funded? *(Required)*

<25% or unknown

Has TU/SCC/CDGRS been to site *(Required)*

- Yes
- No

Status of Contract *(Required)*

Application pending

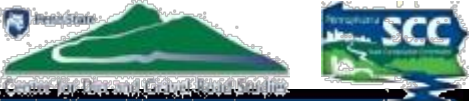
Status of Permit Application *(Required)*

Not started

Status of Engineering/Design *(Required)*

Not started, no engineer

# Stream Notifications and Exemptions



## Proposed New Structure: if known, what will likely be installed

Proposed new Structure

Type *(Required)*

Round Pipe

Opening Width (ft) *(Required)*

i.e. 250 or UNKNOWN

[Click here if unknown.](#)

Structure Cost Estimate *(Required)*

\$ or UNKNOWN

Overall Project Cost Estimate *(Required)*

\$ or UNKNOWN

[Click here if unknown.](#)

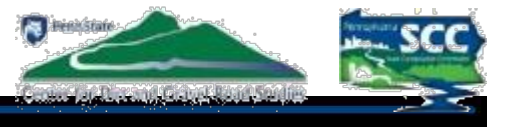
Request a TA Visit *(Required)*

Yes

No

Additional notes and comments

# Stream Notifications and Exemptions



## Optional Details: other information and pictures

### Optional Details

Existing Structure Length (ft)

Watershed Area (acres)

Stream Type

- HQ
- EV
- CWF
- Other

Trout water stocked/reproducing

- Yes
- No

Photos

You may upload up to 3 supporting photos.

Drop files here or

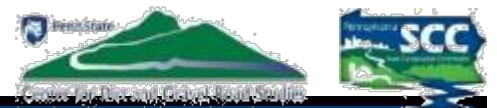
Select files

Accepted file types: gif, jpg, jpeg, png, Max. file size: 5 MB, Max. files: 3.

Bankful form for site

Choose File No file chosen

# Stream Notifications and Exemptions



**NEW SECTION: Exemptions: must upload either automatic or SCC approve exemption form**

## Exemptions

For stream crossing exemptions, complete the following:

1. complete this section for crossings involving an exemption to following the DGLVR Stream Crossing Design and Installation Standard
2. upload the exemption form to this notification

Keep in mind that automatic exemptions can be given by the CD for certain small channels (<4' bankfull and <20 acre watershed, or <4' bankfull and <500' upslope channel). Exemptions for other crossings must be given by the SCC.

Is this an automatic exemption? **← Automatic**

Yes

Exemption Form (Automatic) *(Required)*

Choose File No file chosen

Max. file size: 250 MB.

If yes, you are required to upload the "Stream Crossing Exemption Form (Automatic)" form.

[The template is here for easy access.](#)

Is an SCC exemption being requested for this site? **← SCC Approved**

Yes

Submit

# Stream Notification and Exemptions

## Notifications:

- Reminder and review of process
- Added input for exemptions

## Exemptions:

- **Review process**
- **A few examples**



## Two types of exemptions

- **Automatic Exemption**
  - for small channels
  - CD may grant without SCC approval
- **SCC Approved**
  - For any circumstance not covered by automatic exemption

### Reminder: All Exemptions

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure

## Automatic Exemptions

- Two scenarios where CD **may** exempt a crossing:
  - $\leq 4'$  Bankfull and  $\leq 20$ -acre watershed
  - $\leq 4'$  Bankfull and  $\leq 500'$  of “bed and banks” channel
- Must fill out “automatic exemption” form and keep in file.
- Must complete SCC “stream crossing notification” online, including uploading automatic exemption form.
- **No SCC approval required.**

### Reminder: All Exemptions

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure



## Automatic Exemptions

- Two scenarios where CD may exempt a crossing:
  - **$\leq 4'$  Bankfull and  $\leq 20$ -acre watershed**
    - Easier, can be done “remotely”
    - DGLVR GIS is a good tool, especially with wetness index
  - **$\leq 4'$  Bankfull and  $\leq 500'$  of “bed and banks” channel**
    - More difficult, requires field determination

### Reminder: All Exemptions

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure

**Purpose:** This form is to be used by a Conservation District to identify and record a stream crossing as meeting SCC criteria for an automatic exemption from using the PA State Conservation Commission Dirt, Gravel and Low Volume Road Program Stream Crossing Design & Installation Standard.

## Automatic Exemption Form

- 1-page
- Keep in project file
- Upload to notification

**Site Information:**

**Reviewer Information:**

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

Reviewer(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Site Info**

County _____	Township _____
Road Owning Entity _____	
Structure Owning Entity _____	
Road Name _____	
Stream Name _____	
Latitude _____ N	Longitude _____ W
Site Notes _____	
Drainage Area _____	acres

**Excerpt from "Automatic Exemptions":** for full current policy see admin manual chapter 7.1.3.1

The following existing conditions can be, at the discretion of the Conservation District, considered "DGLVR Standard Exempt" without SCC approval for channels with a bankfull width of 4' or less and:

- The defined bed and bank coming to the road does not extend more than 500' upslope of the road ditch, or,
- The drainage area of the bed and bank coming to the road is 20 acres or less

**Standard Exemption Justification:**

**Justification**

- Bankfull width of the channel coming to the road:** \_\_\_\_\_ feet, and
- The bankfull width is 4' or less and the channel does not extend more than 500' upslope of the road ditch, or**  
Length the "bed and banks" channel extends upstream from the road: \_\_\_\_\_ feet
- The bankfull width is 4' or less and the drainage area of the bed and bank coming to the road is 20 acres or less**  
Drainage area to road crossing: \_\_\_\_\_ acres – include a map showing drainage area  
Method used to determine drainage area: \_\_\_\_\_

**BONUS:**

**Stream stats now available directly in DGLVR GIS**  
**to get watershed areas**

**DEMO**

# Stream Notifications and Exemptions



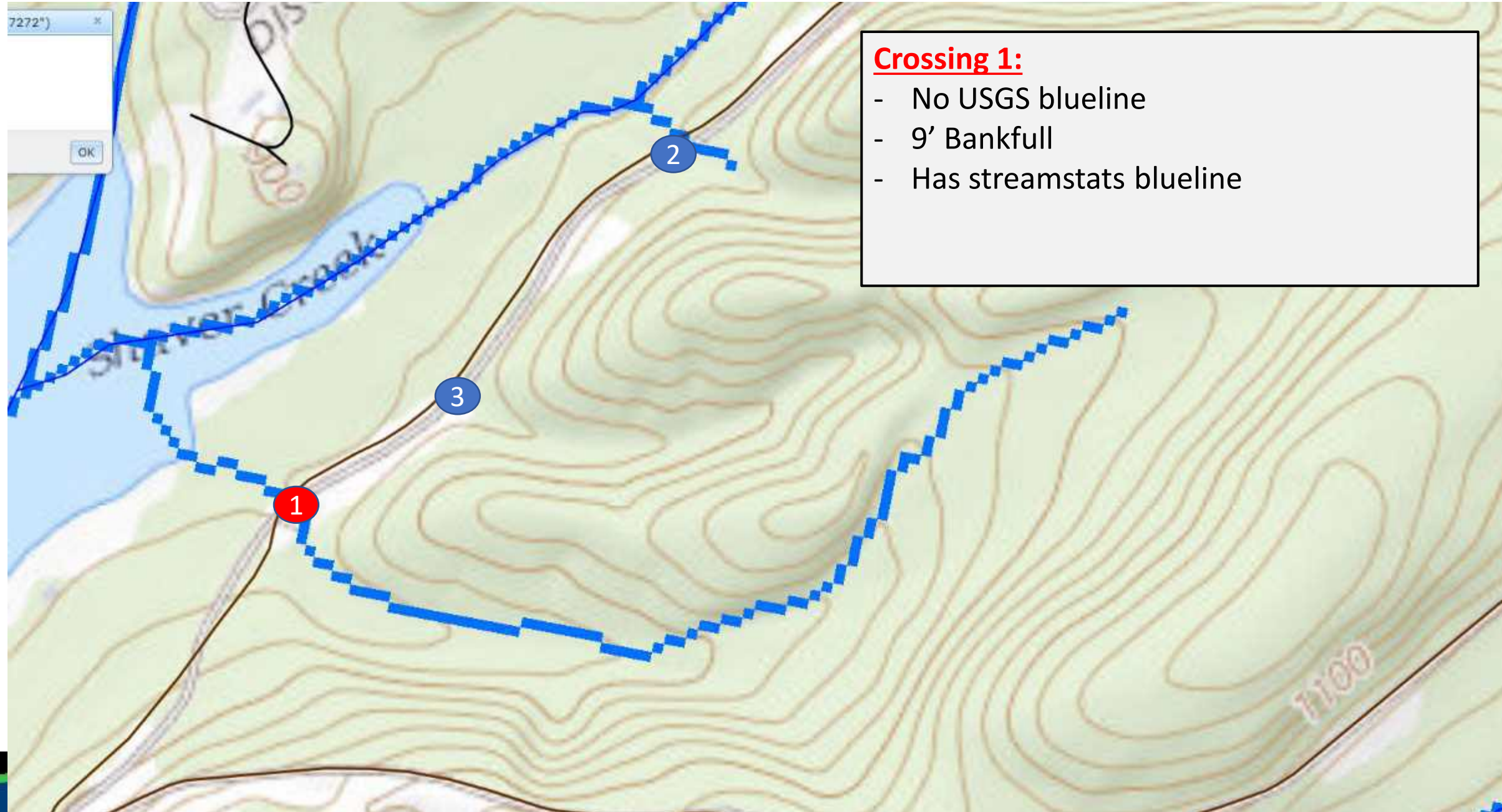
# Stream Notifications and Exemptions



# Stream Notifications and Exemptions

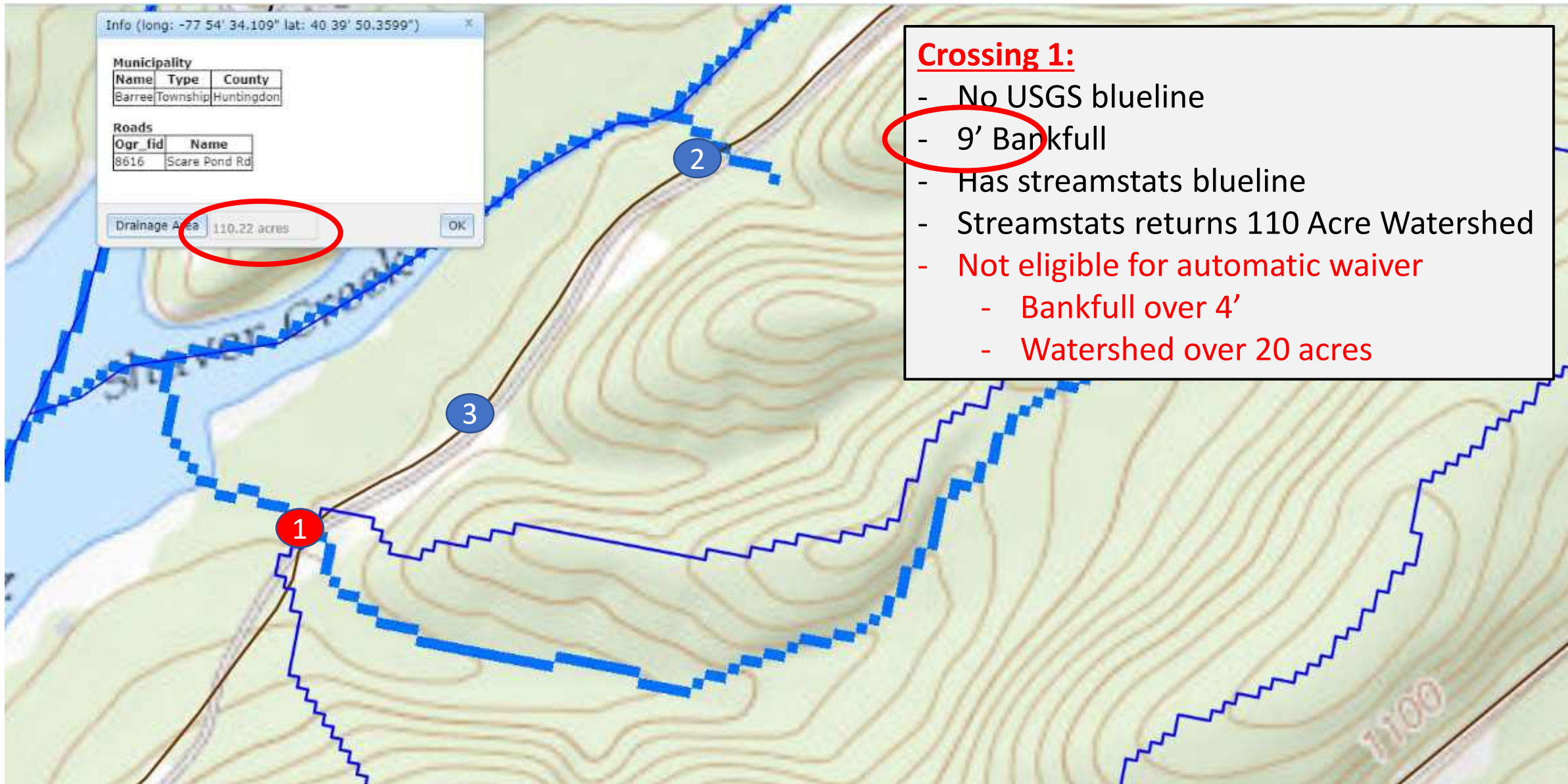


# Stream Notifications and Exemptions



- Crossing 1:**
- No USGS blueline
  - 9' Bankfull
  - Has streamstats blueline

# Stream Notifications and Exemptions





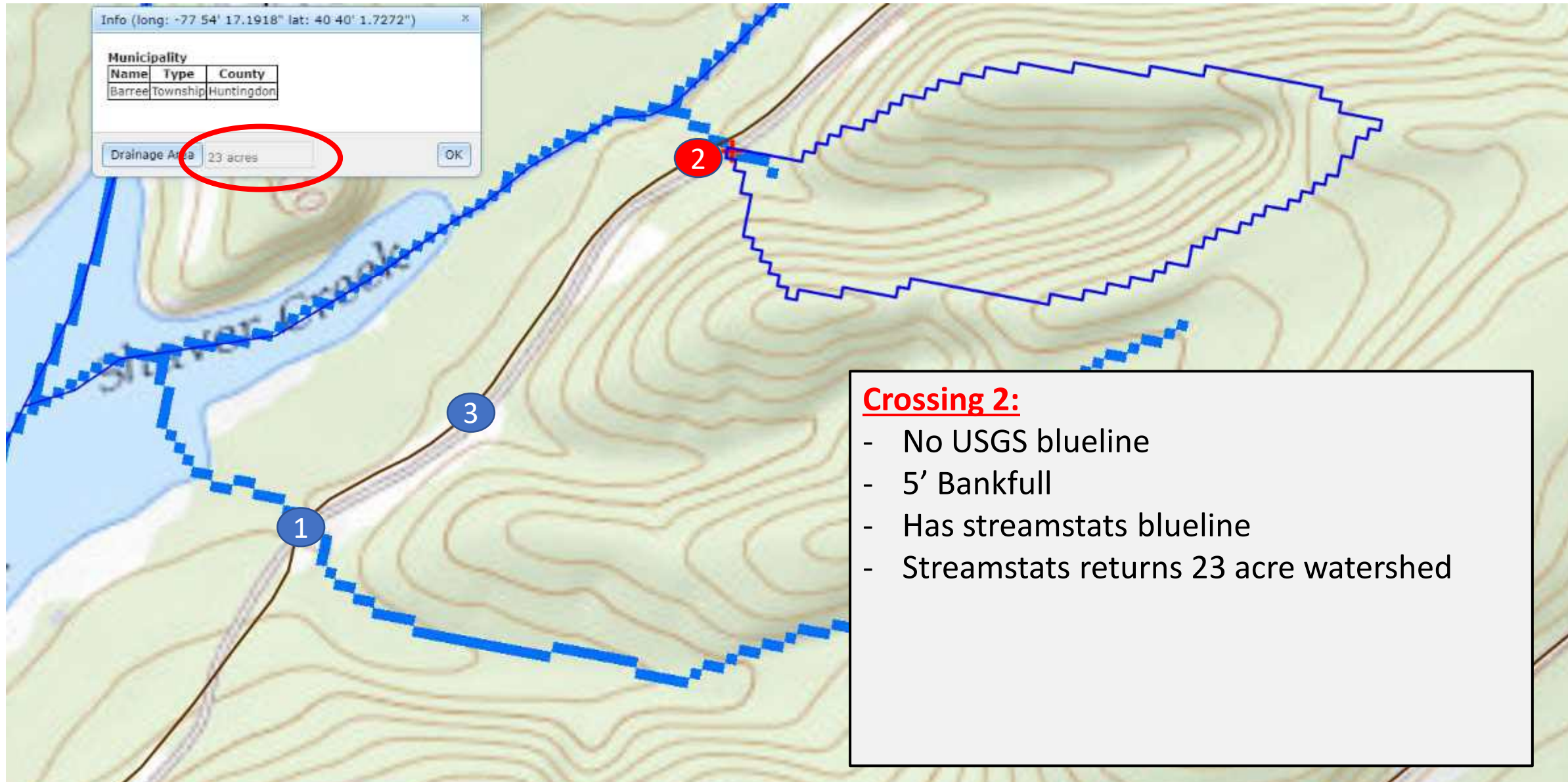
# Stream Notifications and Exemptions



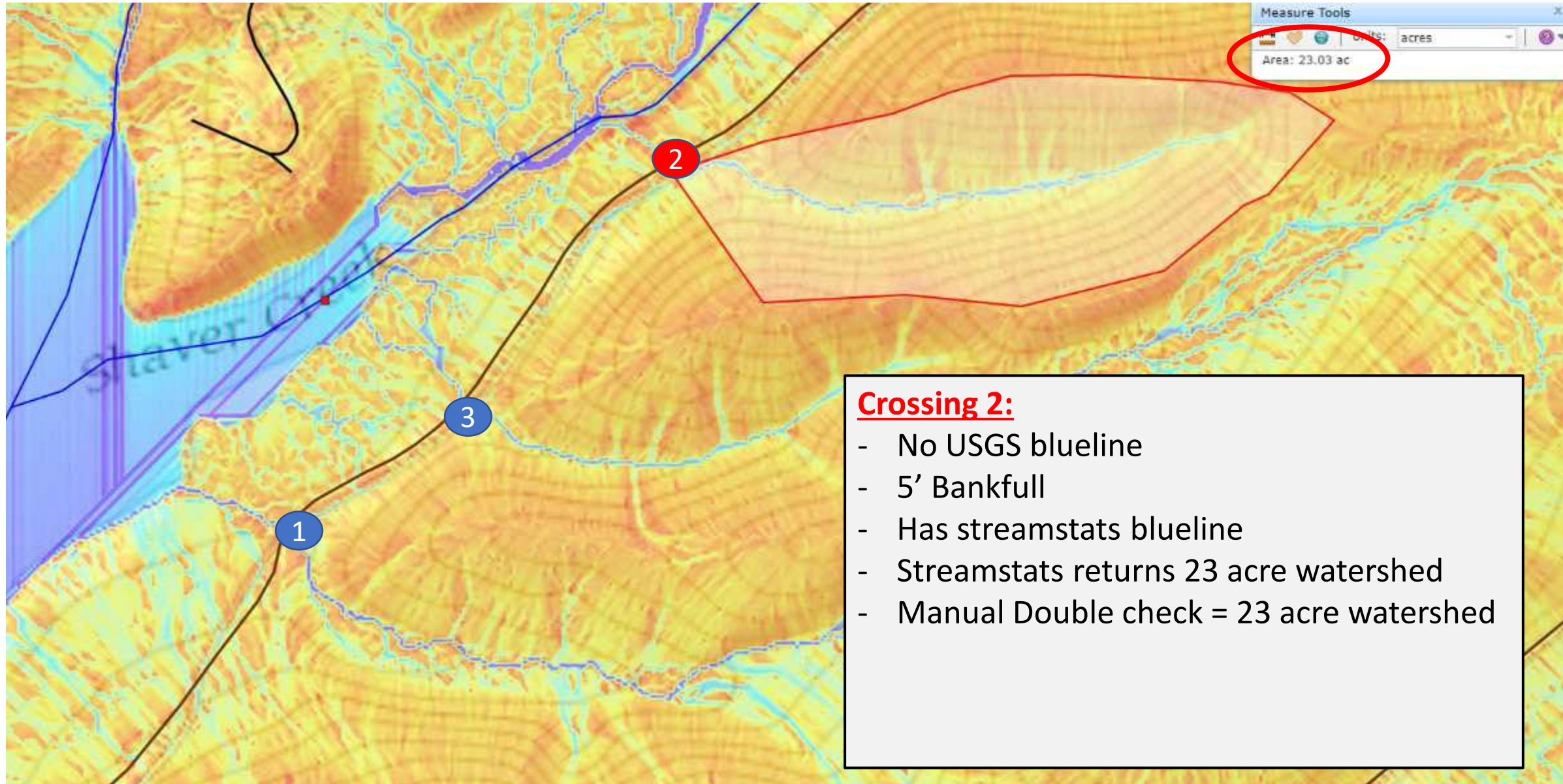
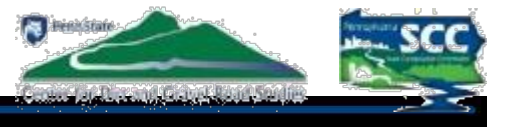
# Stream Notifications and Exemptions



# Stream Notifications and Exemptions

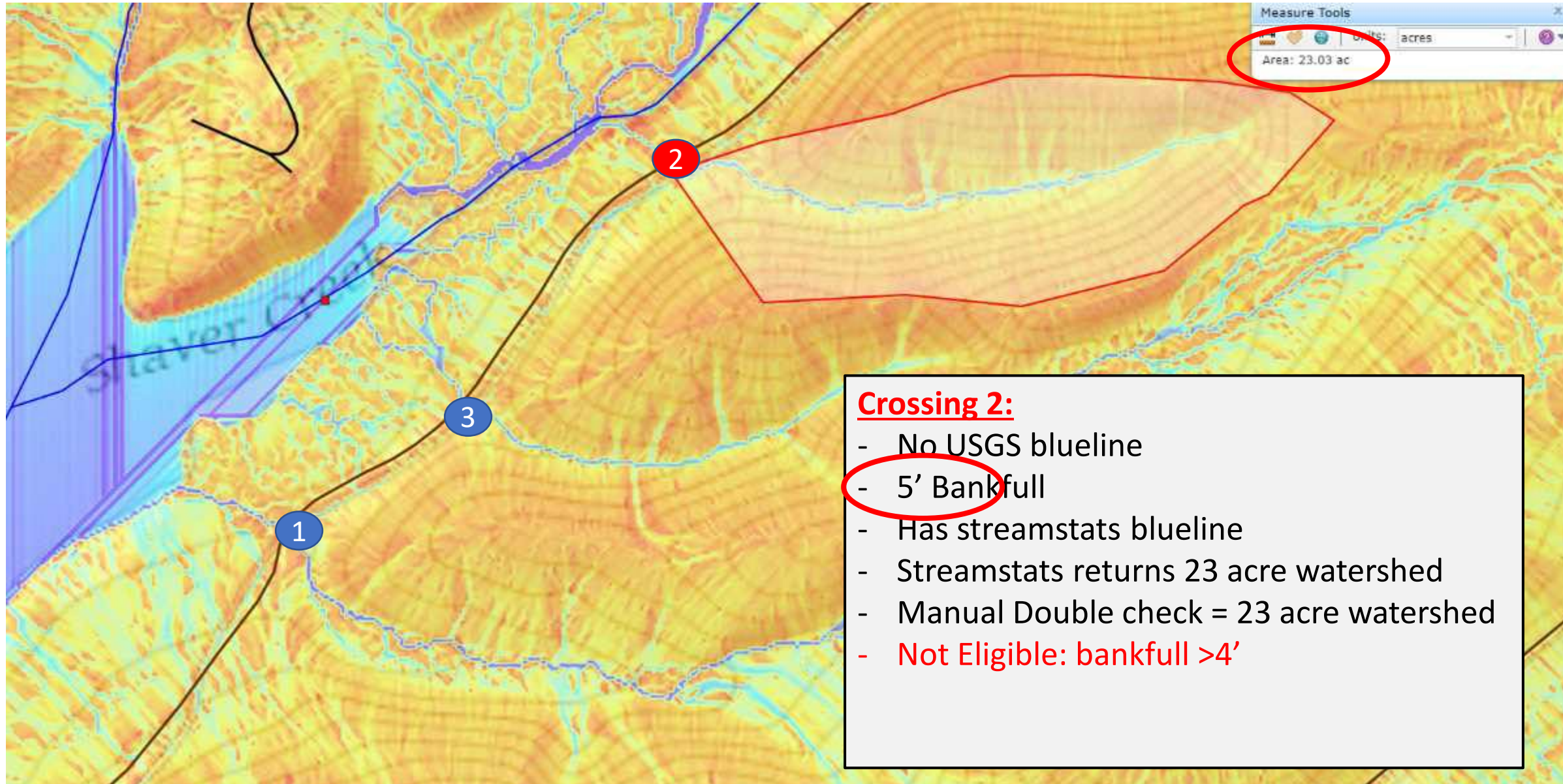


# Stream Notifications and Exemptions



- Crossing 2:**
- No USGS blueline
  - 5' Bankfull
  - Has streamstats blueline
  - Streamstats returns 23 acre watershed
  - Manual Double check = 23 acre watershed

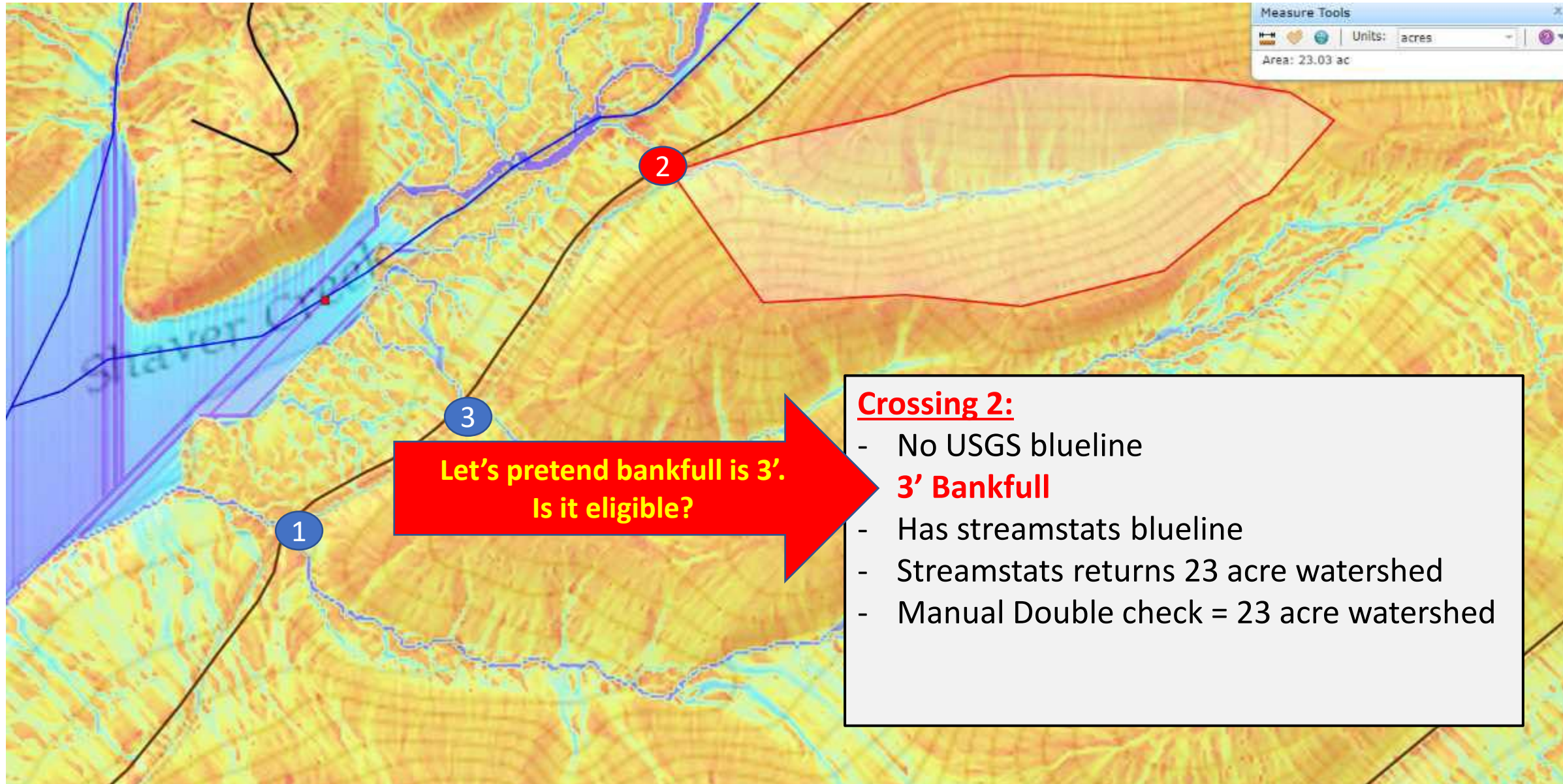
# Stream Notifications and Exemptions



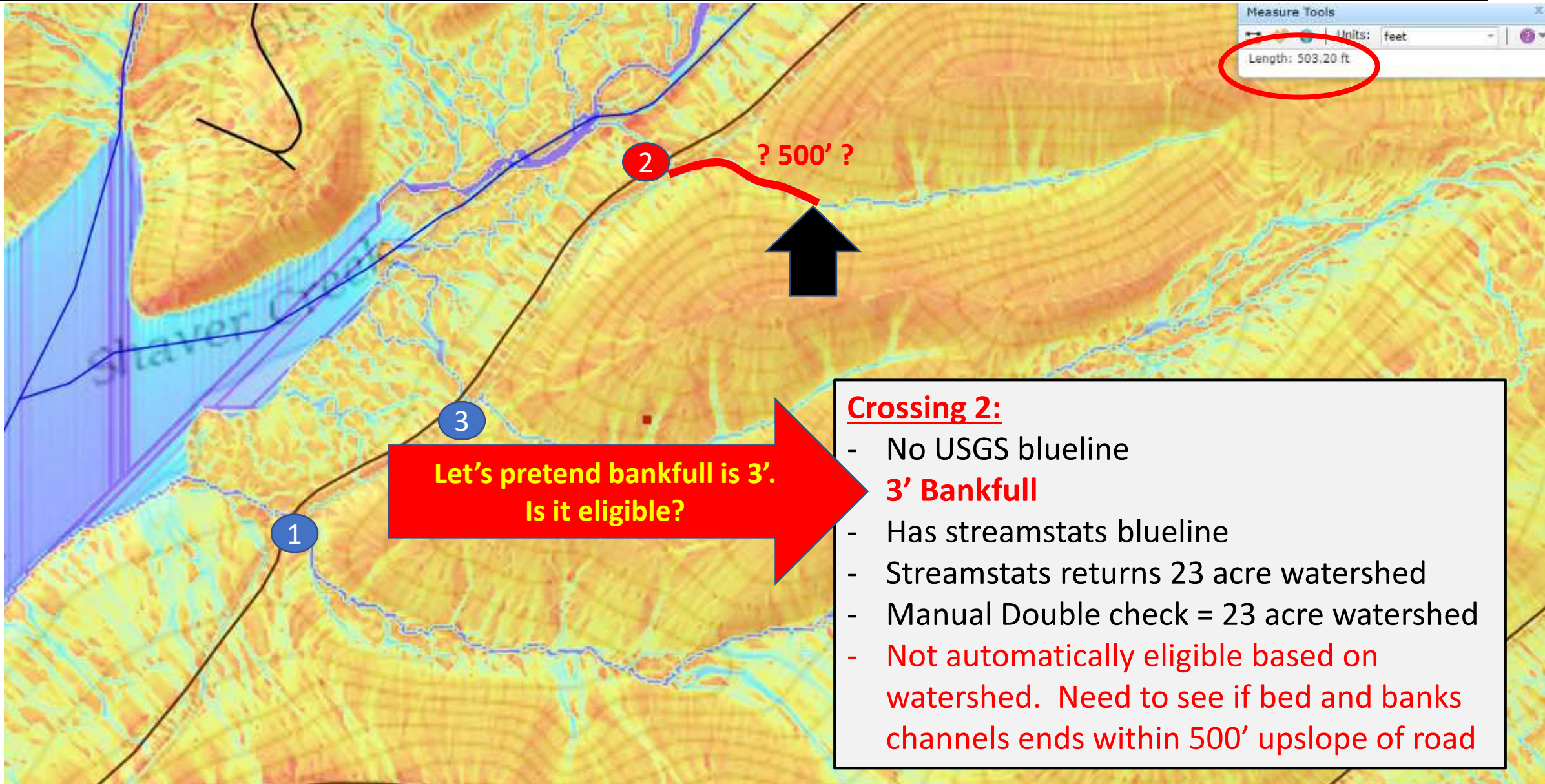
## Crossing 2:

- No USGS blueline
- 5' Bankfull
- Has streamstats blueline
- Streamstats returns 23 acre watershed
- Manual Double check = 23 acre watershed
- **Not Eligible: bankfull >4'**

# Stream Notifications and Exemptions



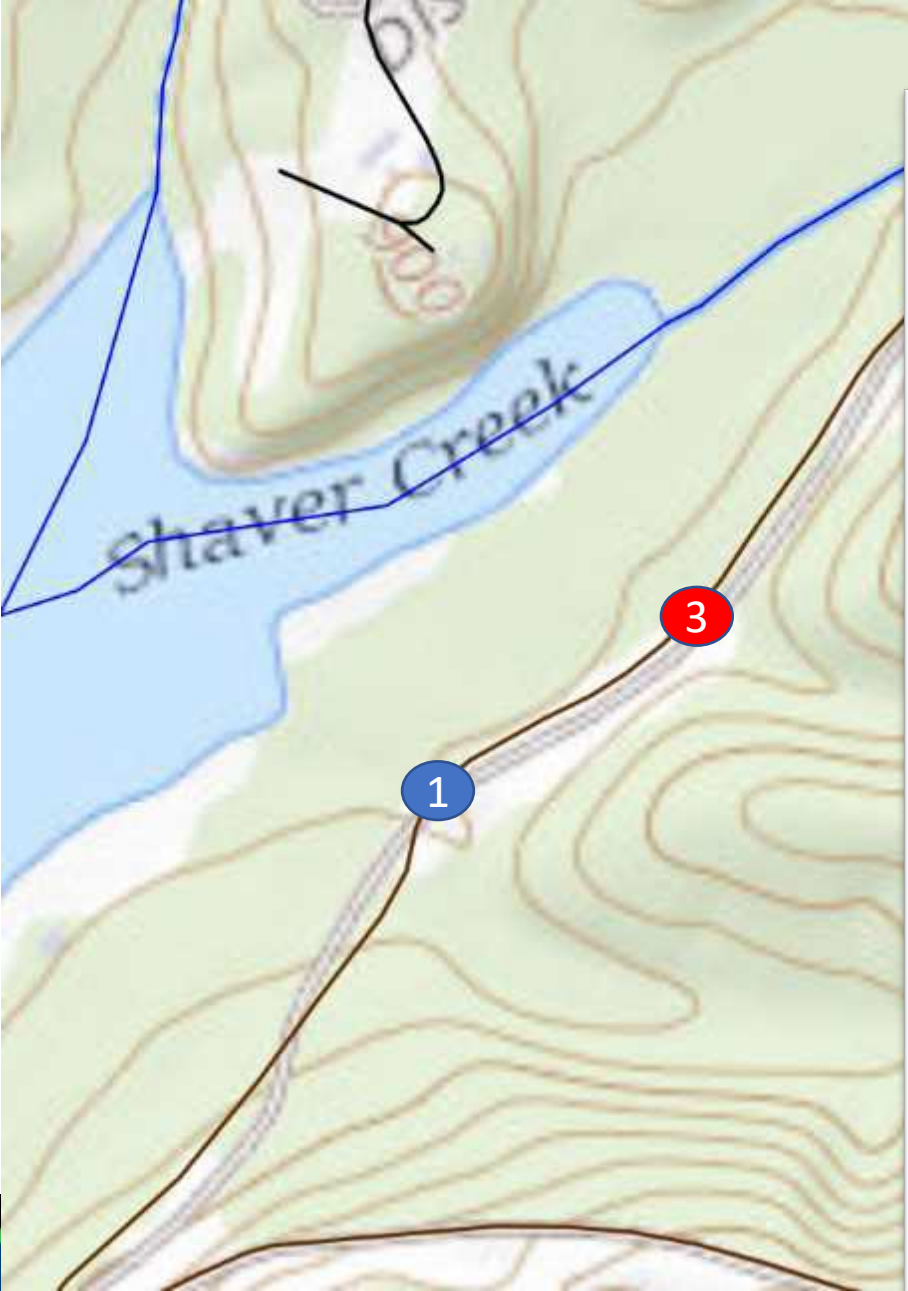
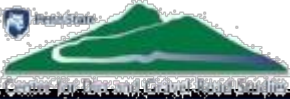
# Stream Notifications and Exemptions



Let's pretend bankfull is 3'.  
Is it eligible?

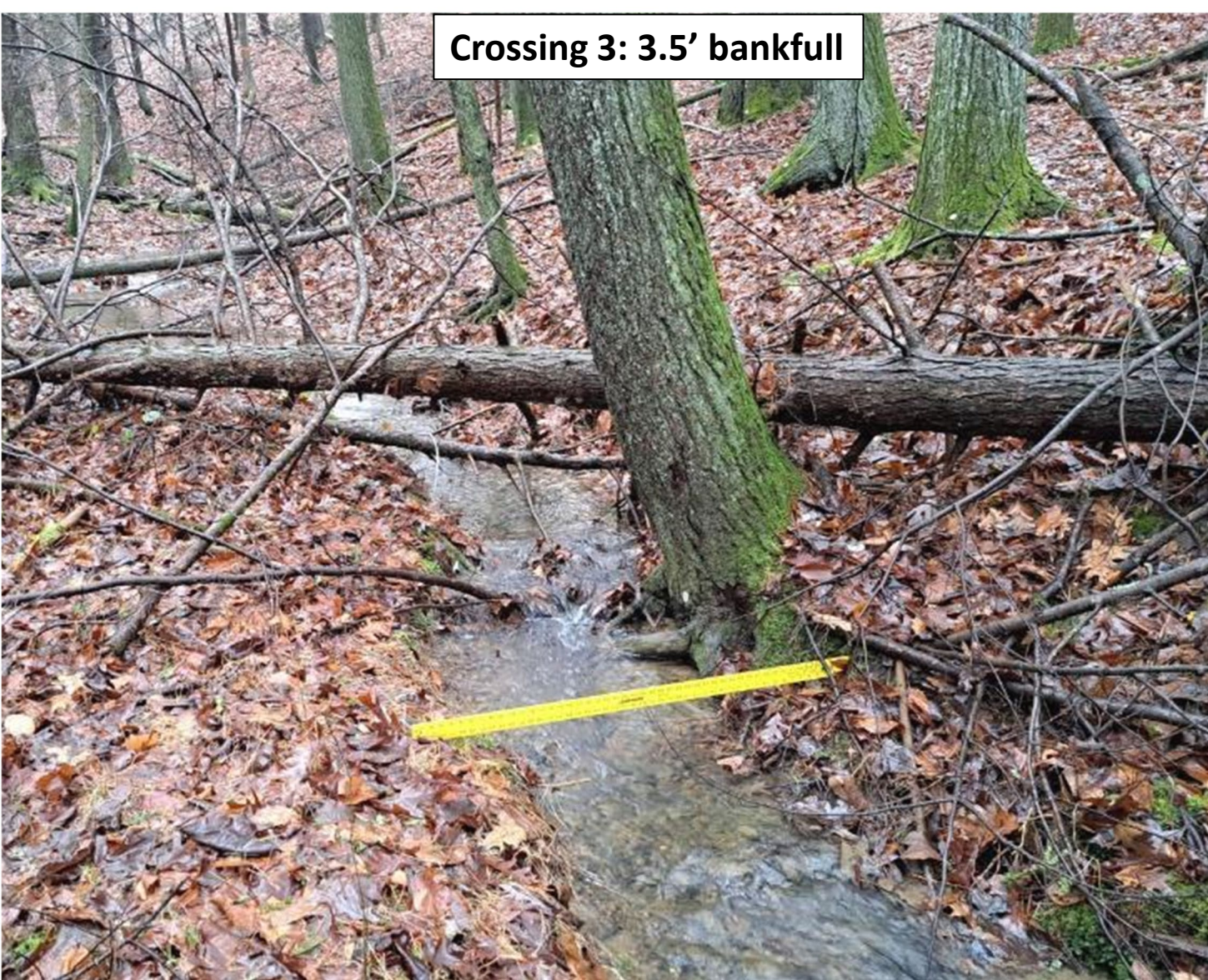
- Crossing 2:**
- No USGS blueline
  - **3' Bankfull**
  - Has streamstats blueline
  - Streamstats returns 23 acre watershed
  - Manual Double check = 23 acre watershed
  - **Not automatically eligible based on watershed. Need to see if bed and banks channels ends within 500' upslope of road**

# Stream Notifications and Exemptions

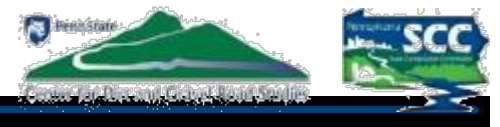




# Stream Notifications and Exemptions

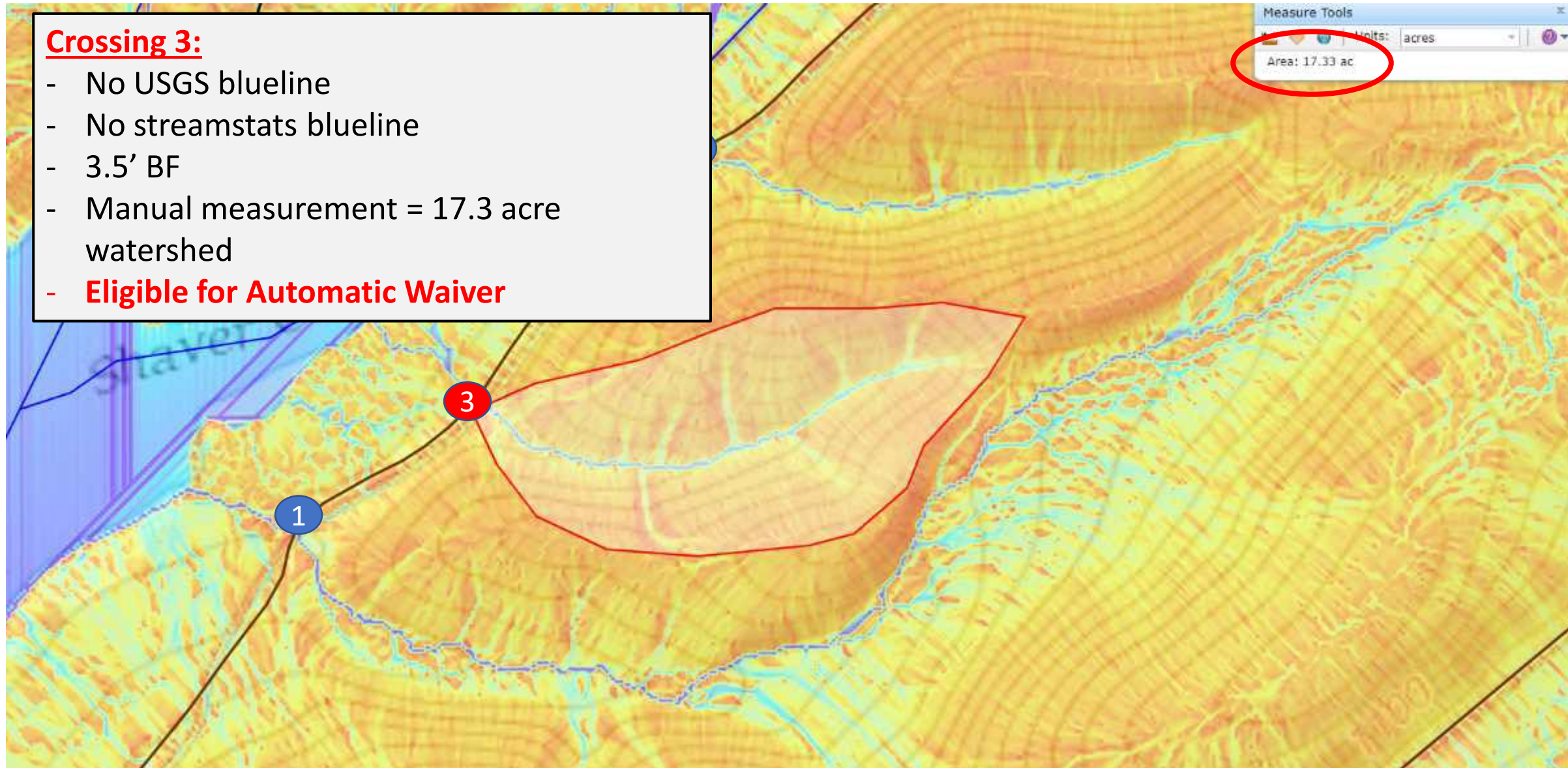


# Stream Notifications and Exemptions



## Crossing 3:

- No USGS blueline
- No streamstats blueline
- 3.5' BF
- Manual measurement = 17.3 acre watershed
- **Eligible for Automatic Waiver**



# Stream Notifications and Exemptions

## Where the DGLVR Stream Crossing Policy Applies

### Example 4

Looking  
upslope  
from road



## What if...what if...what if...

- There will always be odd circumstances



Pond or wetland upstream, how do I measure channel length?



My watershed starts as turnpike drainage?



Channel comes off, hill, to grass swale, to drop inlet.

- Let not make policy for every possible situation
- For odd circumstance, call the SCC!

## SCC Approved Exemptions

- On any other crossing not meeting criteria for automatic exemptions.
- Could be for any variety of reasons, for example:
  - Impossible to achieve continuity due to extreme drop or other manmade limitations.
  - Channel in urban area is actually a large stormwater channel.
  - Other?????
- SCC Exemption form must be submitted to SCC

### **Reminder: All Exemptions**

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure

## SCC Approval Exemption Form

- 1-page
- Keep in project file
- Upload to notification

PA Dirt Gravel and Low Volume Road Program

### SCC Approval for Exemption from the DGLVR Stream Crossing Standard Request Form

7/2022

**Purpose:** This form is to be used by a Conservation District when requesting an SCC exemption from using the PA State Conservation Commission Dirt, Gravel and Low Volume Road Program Stream Crossing Design & Installation Standard. This is for sites that do not qualify for an "automatic exemption" as outlined in section 7.1.3.1 of the Stream Crossing Manual.

**Reviewer Information:**

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

Reviewer(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Site Information:**

County _____	Township _____
Road Owning Entity _____	
Structure Owning Entity _____	
Road Name _____	
Stream Name _____	
Latitude _____ N	Longitude _____ W
Site Notes _____	
Drainage Area _____	acres

**Site Info**

**Reason for exemption request:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Justification**

**Project Status:**  Pre-application/planning  Application submitted  Under Contract

**Drainage Area:** \_\_\_\_\_ acres **Bankfull Channel Width:** \_\_\_\_\_ feet

**Please Also Provide:**

- Location map
- Photographs (minimum one of existing inlet and outlet)
- Stream Crossing Evaluation Form (Bankfull measurement form)

A longitudinal profile survey may be required.

## SCC Approval Exemption Form

- Keep in project file
- Upload to notification

<b>SCC USE ONLY</b>	
<input type="checkbox"/> <b>Not Approved</b> (must follow DGLVR Standard)	Date received: _____
<input type="checkbox"/> <b>Conditionally Approved.</b> See Reverse for Details	<b>SCC Use: Approval</b>
<input type="checkbox"/> <b>Approved.</b> This crossing does not need to follow the DGLVR standard. However, sites receiving a SCC exemption must still follow the requirements in section 7.1.3.3 of the DGLVR Stream Crossing Policy in the Administrative Manual.	
_____	_____
DGLVR Program Coordinator	(Date)

Keep a copy of this form, and the Stream Crossing Eligibility Determination Form in project files.

### SCC Approval for Exemption from the DGLVR Stream Crossing Standard Request Form

#### Conditional Approval Details:

The SCC has granted approval for this site to not follow the DGLVR Stream Crossing Design & Installation Standard as long as the following conditions are met, in addition to the requirements outlined in section 7.1.3.3 of the DGLVR Administrative Manual:

**SCC Use: additional conditions**

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# Stream Notifications and Exemptions



## SCC Approved Exemptions: Example 1

12' vertical offset

Railroad bridge upstream  
preventing stream  
modification

Meets larger stream  
downstream preventing  
stream modification

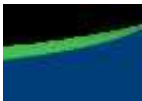




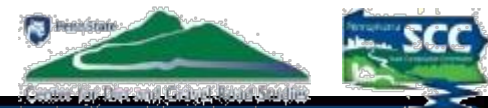
# Stream Notifications and Exemptions



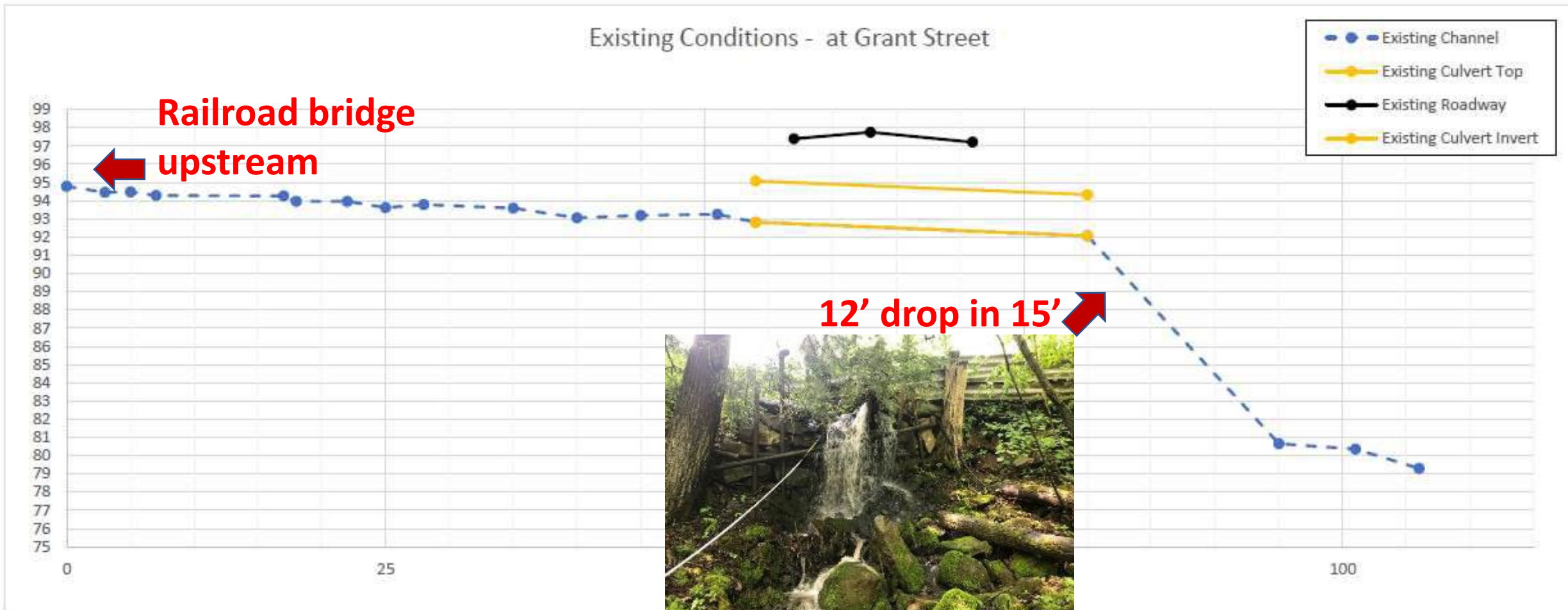
## SCC Approved Exemptions: Example 1



# Stream Notifications and Exemptions



## SCC Approved Exemptions: Example 1



## Reminder of Exemption Requirements

- New structures must still be a single span at a **minimum of 1.25 times or 125%** of the bankfull channel width unless otherwise approved by the SCC.
- **Ensure the stability of the channel upstream and downstream.** Grade controls must be shown on plan drawings if drawings are required.
  - **Upstream:** Grade control(s) are required immediately (between one and two bankfull widths) upstream of the inlet of the new structure to prevent headcutting (headward erosion lowering channel elevation that moves upstream over time). These grade controls are typically installed at the existing streambed elevation. If a larger structure is installed in a channel with road height limitations, installing a larger structure below the existing streambed elevation without grade control(s) will likely cause a headcut.
  - **Downstream:** Outlet stabilization is required in the form of grade controls, bank armoring, and/or filling in scour holes. Any grade controls are typically installed at the existing streambed elevation. Pipes may need to be extended further off the road, and the erosion potential caused by any elevation drops must be considered.

### Reminder: All Exemptions

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure

## Reminder of Exemption Requirements

- New structures must still be a single span at a minimum of 1.25 times or 125% of the

### WHY?

- Still want to accommodate larger flows.
- Putting a larger structure in without addressing stability could actually make the situation WORSE
- Potential headcut upstream by lowering inlet elevation.
- Potential increase erosion / road stability issue downstream.

the erosion potential caused by any elevation drops must be considered.

### Reminder: All Exemptions

- are only exempt from following DGLVR standard, not any permit or other requirements
- Are still required to be 1.25 BF and ensure stability above and below new structure