



DRWI
DATA, GIS, & Modeling
Work Group



October 15, 2018
DVRPC
Philadelphia, PA

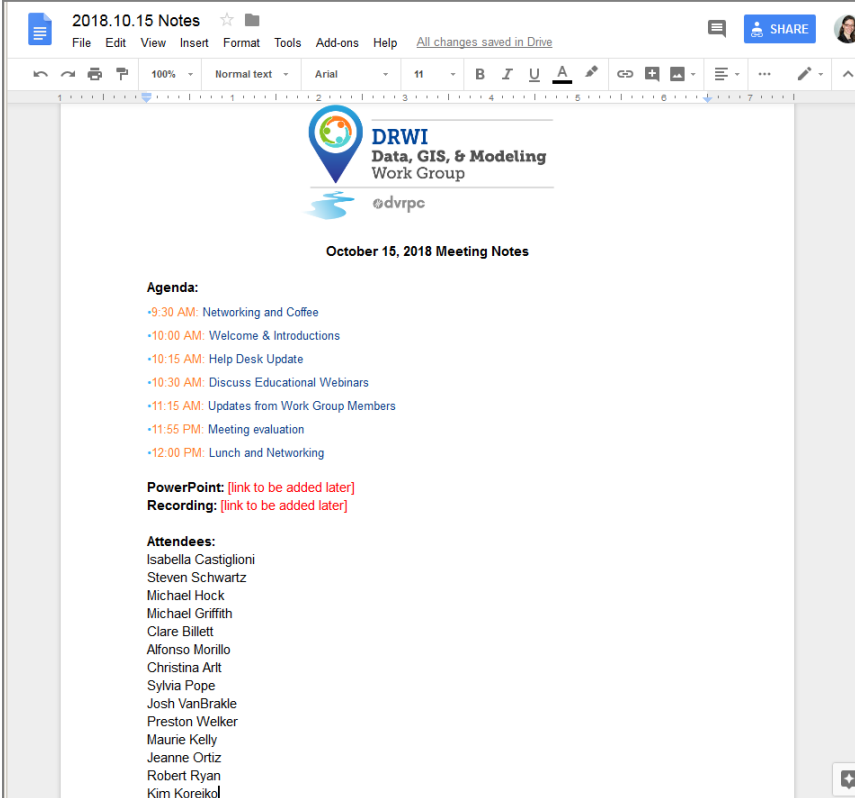
WiFi Password:
Connections2045

Agenda

- **10:00 AM:** Welcome & Introductions
- **10:15 AM:** Help Desk Update
- **10:30 AM:** Discuss Educational Webinars
- **11:15 AM:** Updates from Work Group Members
- **11:55 PM:** Meeting evaluation
- **12:00 PM:** Lunch and Networking

Help Us Take Notes Today


goo.gl/xuJg5L



2018.10.15 Notes

File Edit View Insert Format Tools Add-ons Help All changes saved in Drive

100% Normal text Arial 11 B I U A

 **DRWI**
Data, GIS, & Modeling
Work Group
@dvrpc

October 15, 2018 Meeting Notes

Agenda:

- 9:30 AM: Networking and Coffee
- 10:00 AM: Welcome & Introductions
- 10:15 AM: Help Desk Update
- 10:30 AM: Discuss Educational Webinars
- 11:15 AM: Updates from Work Group Members
- 11:55 PM: Meeting evaluation
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PowerPoint: [\[link to be added later\]](#)

Recording: [\[link to be added later\]](#)

Attendees:

- Isabella Castiglioni
- Steven Schwartz
- Michael Hock
- Michael Griffith
- Clare Ballett
- Alfonso Morillo
- Christina Art
- Sylvia Pope
- Josh VanBrakle
- Preston Welker
- Maurie Kelly
- Jeanne Ortiz
- Robert Ryan
- Kim Korejko

Welcome & Introductions

The background of the slide is a solid blue gradient that transitions from a darker blue at the top to a lighter blue at the bottom. At the very bottom, there are several overlapping, wavy, light blue shapes that create a sense of movement and depth, resembling stylized waves or a modern graphic design element.

What is the DRWI Data, GIS, and Modeling Work Group?



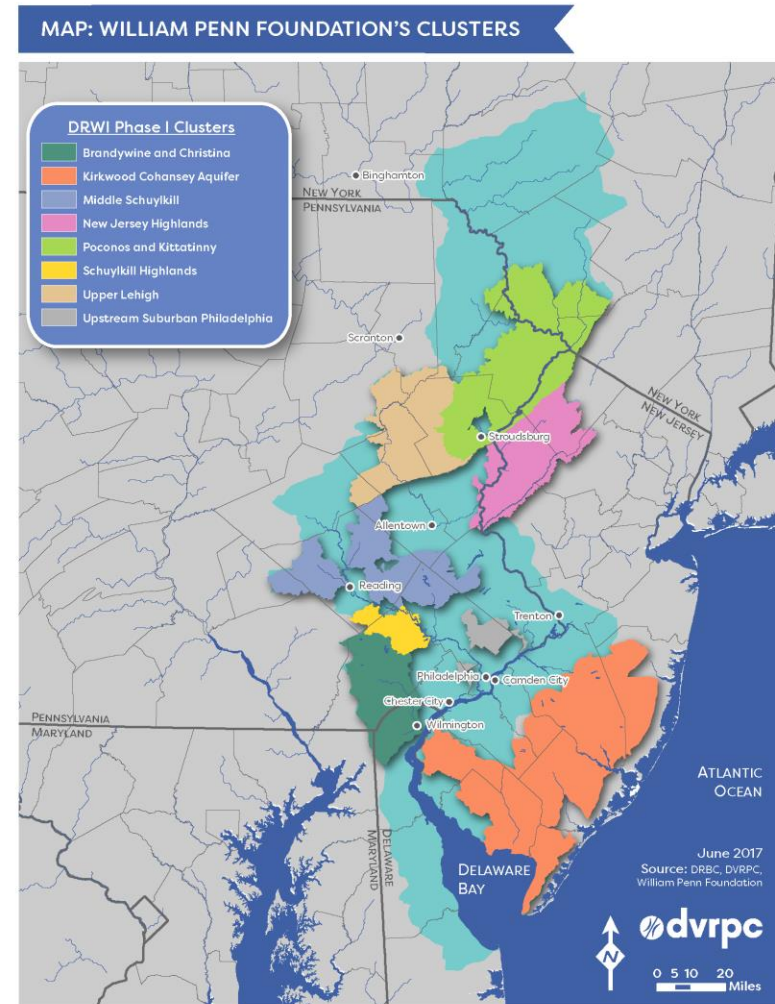
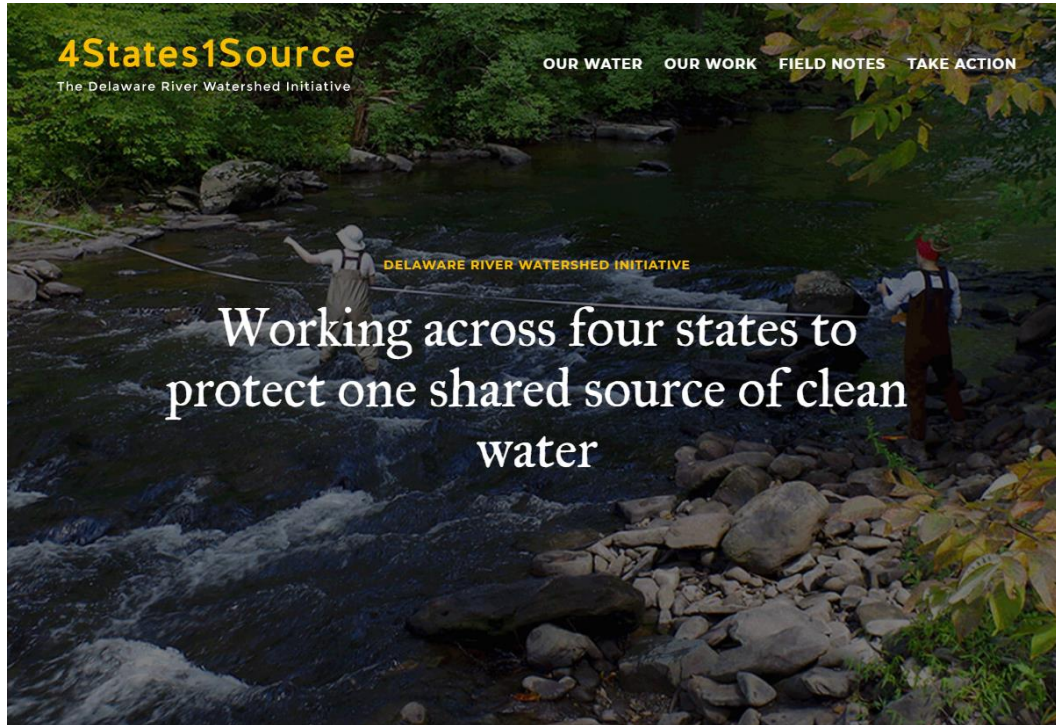
DRWI
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Work Group



 **dvrpc**

Delaware River Watershed Initiative (DRWI)

www.4states1source.org

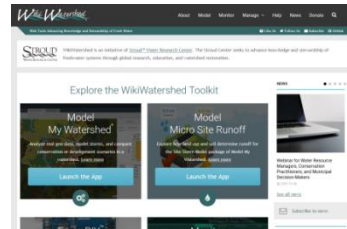
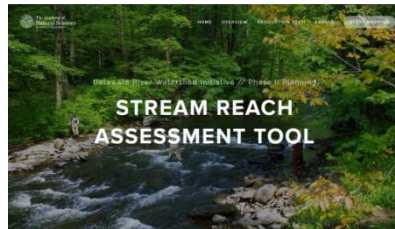


Work Group Purpose

- The group will:
 - prioritize data needs,
 - share knowledge,
 - expand capacity, and
 - collaborate to provide technical mapping, modeling, and spatial analysis assistance

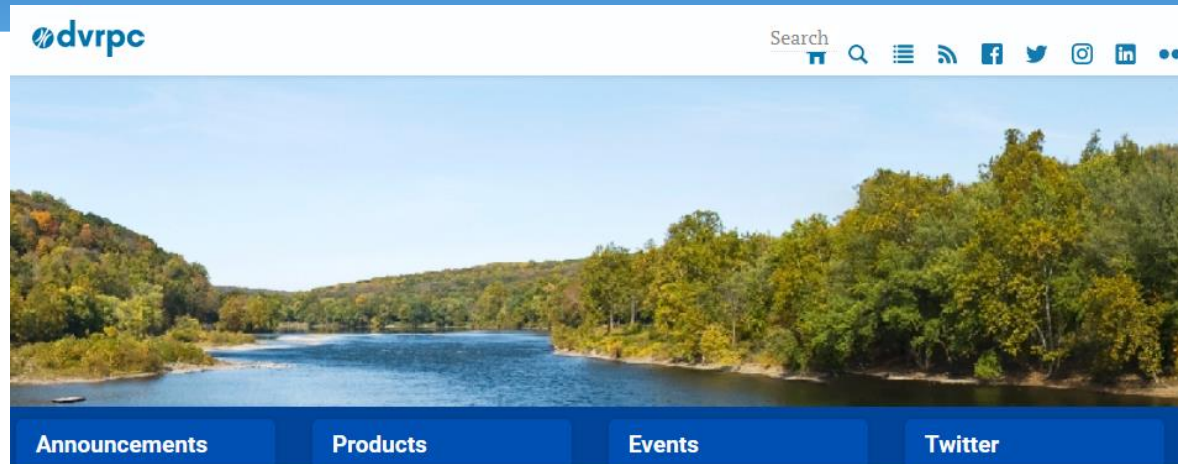
What will the DRWI Data/GIS/Modeling Work Group do?

- Meet up to **eight** times (today is our 3rd)
- Host up to **four** educational webinars



- Make maps for nonprofits doing work in the Delaware River Watershed
- Prioritize recommendations for additional Delaware River watershed data sets and/or modeling analysis, as well as future Work Group activity

<https://www.dvrpc.org/waterquality/DataGIS/>



- [About Us](#)
- [Data and Products](#)
- [Long-Range Plan and TIP](#)
- [Transportation](#)
- [Land Use and Environment](#)
 - [Water Quality Programs](#)
 - [Coastal Zone Management](#)
 - [DRWI Data and GIS Work Group](#)
 - [Municipal Water Quality Actions](#)
- [Planning Assistance Center](#)
- [Commuter Services](#)
- [Get Involved](#)

Data and GIS Work Group



DRWI
Data, GIS, & Modeling
Work Group



dvrpc

What does the Data and GIS Work Group do?

From January 2018 - December 2019, DVRPC staff will convene a Data and GIS Work Group for the Delaware River Watershed, which stretches across four states and provides drinking water to over 15 million people. The group will prioritize data needs, share knowledge, expand capacity, and collaborate to

Basecamp

www.basecamp.com

The screenshot displays the Basecamp web interface. At the top, there is a navigation bar with icons for Home, Pings, Hey!, Activity, and Find, along with a search icon and a user profile icon. A notification banner at the top reads: "Feb 13, 2018 - NEW FEATURE: We just improved the Schedule card on the home screen for a project, team, or HQ. Now it includes events and dated to-dos, as well as faces of the people involved. [Here's a quick summary of everything that's new.](#)"

The main content area is titled "Delaware River Watershed Initiative" and is managed by "Adminland". It features a card for the initiative with a green header and a list of links: [My Assignments](#), [My Bookmarks](#), [My Schedule](#), [My Drafts](#), [My Recent Activity](#), and [My Applause](#). Below this, there is a "Projects" section with a "+ New" button and a "DRWI Data, GIS, & Modeling" Work Group card. At the bottom, a footer indicates "You're using [Basecamp for Non-profits.](#)"

Stipends

Type	\$ per meeting
Participating in Person	\$175
Participating Virtually	\$125

W-9 Form

- For non-governmental employees only
- Social Security Number (SSN) if the check should go to YOU
- Employer Identification Number (EIN) if the check should go to your EMPLOYER
- irs.gov/pub/irs-pdf/fw9.pdf

Form W-9 (Rev. November 2017) Department of the Treasury Internal Revenue Service		Request for Taxpayer Identification Number and Certification		Give Form to the requester. Do not send to the IRS.								
▶ Go to www.irs.gov/FormW9 for instructions and the latest information.												
Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.											
	2 Business name/disregarded entity name, if different from above											
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.			4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):								
	<input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate			Exempt payee code (if any) _____								
	<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.			Exemption from FATCA reporting code (if any) _____								
	<input type="checkbox"/> Other (see instructions) ▶ _____			(Applies to accounts maintained outside the U.S.)								
	5 Address (number, street, and apt. or suite no.) See instructions.		Requester's name and address (optional)									
6 City, state, and ZIP code												
7 List account number(s) here (optional)												
Part I Taxpayer Identification Number (TIN)												
Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> , later.												
			Social security number									
			<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;"> </td> <td style="width: 25%;">-</td> <td style="width: 25%;"> </td> <td style="width: 25%;">-</td> <td style="width: 25%;"> </td> </tr> </table>			-		-				
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	-											
Part II Certification												
Under penalties of perjury, I certify that:												
1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and												
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and												
3. I am a U.S. citizen or other U.S. person (defined below); and												
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.												
Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.												
Sign Here	Signature of U.S. person ▶		Date ▶									
General Instructions												
Section references are to the Internal Revenue Code unless otherwise noted.												
Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9 .												
Purpose of Form												
An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.												
<ul style="list-style-type: none"> • Form 1099-INT (interest earned or paid) • Form 1099-DIV (dividends, including those from stocks or mutual funds) • Form 1099-MISC (various types of income, prizes, awards, or gross proceeds) • Form 1099-B (stock or mutual fund sales and certain other transactions by brokers) • Form 1099-S (proceeds from real estate transactions) • Form 1099-K (merchant card and third party network transactions) • Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition) • Form 1099-C (canceled debt) • Form 1099-A (acquisition or abandonment of secured property) 												
Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.												
If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.												
Cat. No. 10231X Form W-9 (Rev. 11-2017)												

Introductions

- Your Name
- Your Title
- Your Organization
- One word to describe how you are feeling right now

Update on Help Desk

"Help Desk" Overview

DRWI organization submits request

DVRPC matches request with map maker

Map is made

Map is delivered

Map maker is paid

DVRPC emails map maker

Map maker confirms capacity

Map maker begins work

Map maker emails draft

Client reviews

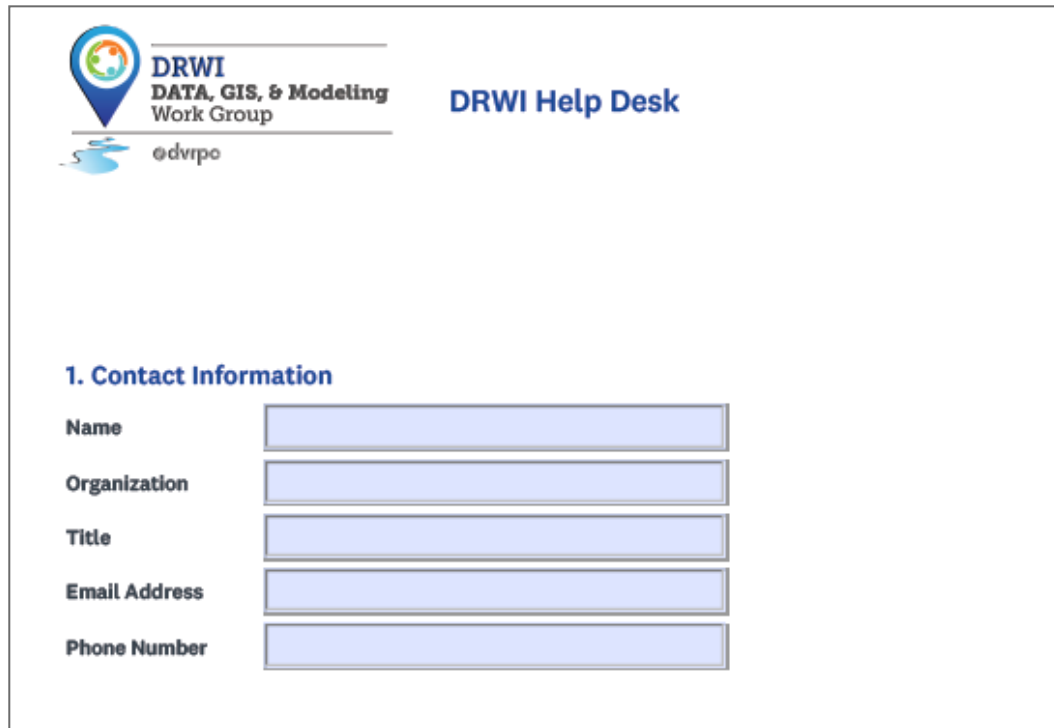
Map maker makes final edits

Call for Submissions

- 5 applications received:
 - Shippensburg University Center for Land Use Studies (CLUS)
 - Natural Lands
 - PALTA
 - NJ Conservation Foundation
 - Dawood Engineering

Help Desk Request Form is live!

- <https://www.dvrpc.org/waterquality/DataGIS/>



The screenshot shows the top portion of a web form. At the top left is the DRWI logo, which consists of a blue location pin containing a globe, with the text "DRWI DATA, GIS, & Modeling Work Group" and the Twitter handle "@dvrpc" below it. To the right of the logo is the text "DRWI Help Desk". Below this header is the section "1. Contact Information", which contains five input fields: "Name", "Organization", "Title", "Email Address", and "Phone Number". Each field is a light blue rectangular box with a thin border.

DRWI
DATA, GIS, & Modeling
Work Group
@dvrpc

DRWI Help Desk

1. Contact Information

Name

Organization

Title

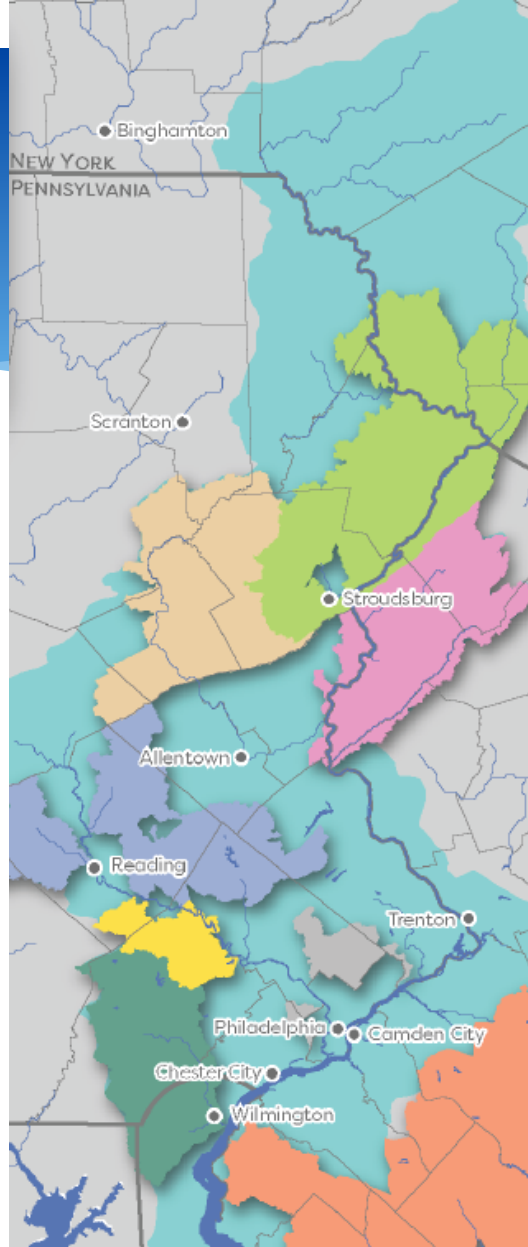
Email Address

Phone Number

Help Us Promote the Help Desk

- Flyer
- Social Media Graphic

Flyer



NEED MAPS, DATA, OR MODELING FOR YOUR DRWI EFFORTS?

The Help Desk is here to help!

Are you a nonprofit working to improve water quality in the Delaware River Watershed? Do you need maps, data, or help with Geographic Information Systems (GIS) and/or modeling?

The DRWI Data, GIS, and Modeling Work Group's Help Desk is here for you! Simply submit your request via the Help Desk Request Form:
www.dvrpc.org/waterquality/DataGIS.

There is no cost to you to receive these mapping services. The funding to cover these requests is provided by the William Penn Foundation as part of the Data, GIS, and Modeling Work Group funding.



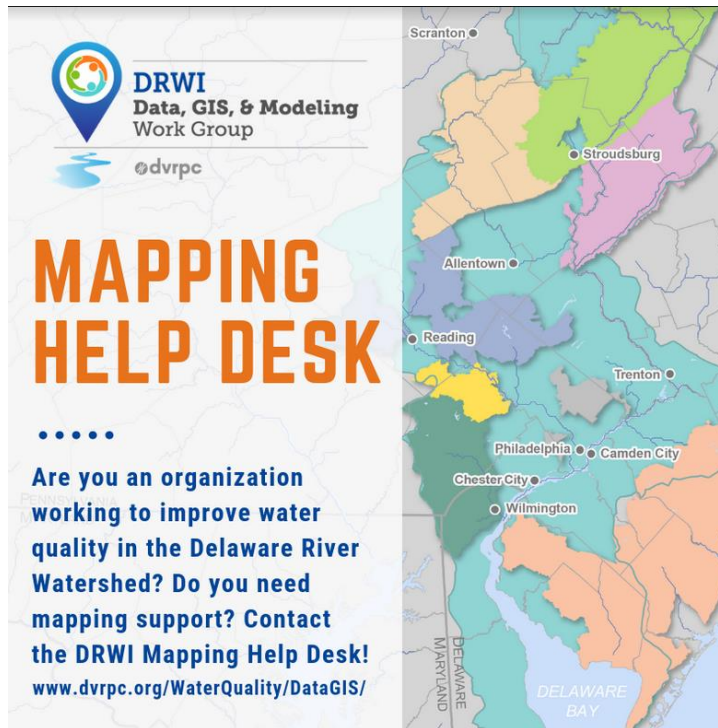
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WWW.DVRPC.ORG/WATERQUALITY/DATAGIS/

Social Media Graphic



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MAPPING HELP DESK

•••••

Are you an organization working to improve water quality in the Delaware River Watershed? Do you need mapping support? Contact the DRWI Mapping Help Desk!

www.dvrpc.org/WaterQuality/DataGIS/

Scranton • Stroudsburg • Allentown • Reading • Trenton • Philadelphia • Camden City • Chester, City • Wilmington

DELAWARE MARYLAND DELAWARE BAY

How else can we spread the word about the Help Desk?

Discuss Educational Webinars

Funding for up to 4 educational webinars

- Webinar goals
- Webinar topics
- Intended audience(s)
- Presenter(s)
- Date(s)/Time(s)
- Marketing/Promotion
 - Basecamp
 - Social Media
 - Other ideas?

Possible Webinar Topics

- **WikiWatershed I: Introduction**
 - *Presenters:* Dave Arscott and Anthony Aufdenkampe
 - *Topics:* Intro on how to use Model and Monitor My Watershed features and highlight new features
- **FieldDoc and DRWI Dashboard**
 - *Presenters:* John Dawes and Lin Perez
 - *Topic:* Introduction to FieldDoc and DRWI Dashboard for project and metric tracking
- **HydroShare for DRWI users**
 - *Presenters:* Anthony Aufdenkampe and David Tarboton
 - *Topics:*
 - Recommendations from [DRWI Data Architecture Report](#) (Anthony)
 - How DRWI users can HydroShare can meet
- **WikiWatershed II: Multi-Year Model Advanced Use Cases**
 - *Presenters:* Anthony, Barry
 - *Topics:*
 - For power users of Mapsheds/Multi-Year Model (Anthony, Barry, Dave A., Scott?)
 - Sub-basin modeling
 - Changing land cover, default BMP efficiencies, and other auto-estimated parameters
- **Monitor My Watershed**
 - *Presenters:* Anthony, Dave

https://wikiwatershed.org/



Web Tools Advancing Knowledge and Stewardship of Fresh Water

About Model Monitor Community Help News Events

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WikiWatershed is an initiative of [Stroud™ Water Research Center](#). The Stroud Center seeks to advance knowledge and stewardship of freshwater systems through global research, education, and watershed restoration.

Welcome to WikiWatershed, a web toolkit designed to help citizens, conservation practitioners, municipal decision-makers, researchers, educators, and students advance knowledge and stewardship of fresh water. [Learn more](#)

Explore the WikiWatershed Toolkit

Model My Watershed®

Analyze geospatial data, model storms, and compare conservation or development scenarios in a watershed. [Learn more](#)

Launch the App

Monitor My Watershed®

Discover and map monitoring data from multiple federal, state, academic, and citizen sources. Share and compare your monitoring data with the world. [Learn more](#)

Resource	White Clay Creek - Stage, Streamflow / Discharge (1961-2014)
Author	Denis Newbold, Stroud Water Research Center Sara Geleskie Damiano, Stroud Water Research Center Charles Dow
Period	1961-1965, 1966-1970, 1971-1975, 1976-1980, 1981-1985, 1986-1990, 1991-1995, 1996-2000, 2001-2005, 2006-2010, 2011-2014
Subject	hydrology, gage, monitoring data with the world, clay creek, discharge, christina river, stage
Resource Type	Composite
Catalog	CUAHSI HydroShare

NEWS

SEE ALL ITEMS >

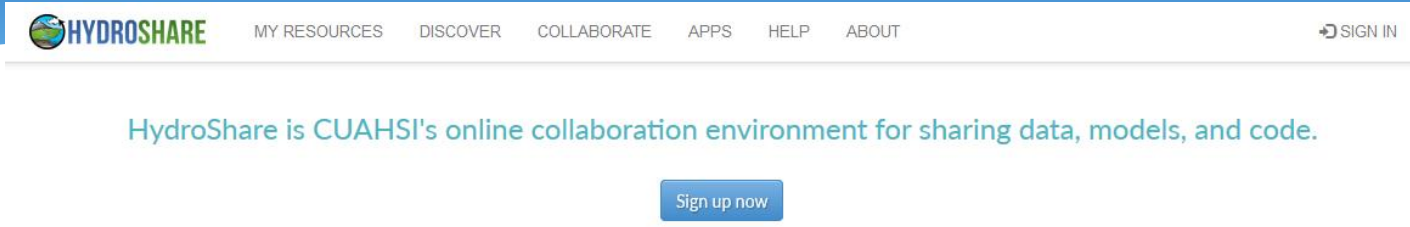


Amazon Names Model My Watershed a "City on a Cloud Innovation Challenge" Winner

© 2018-06-21

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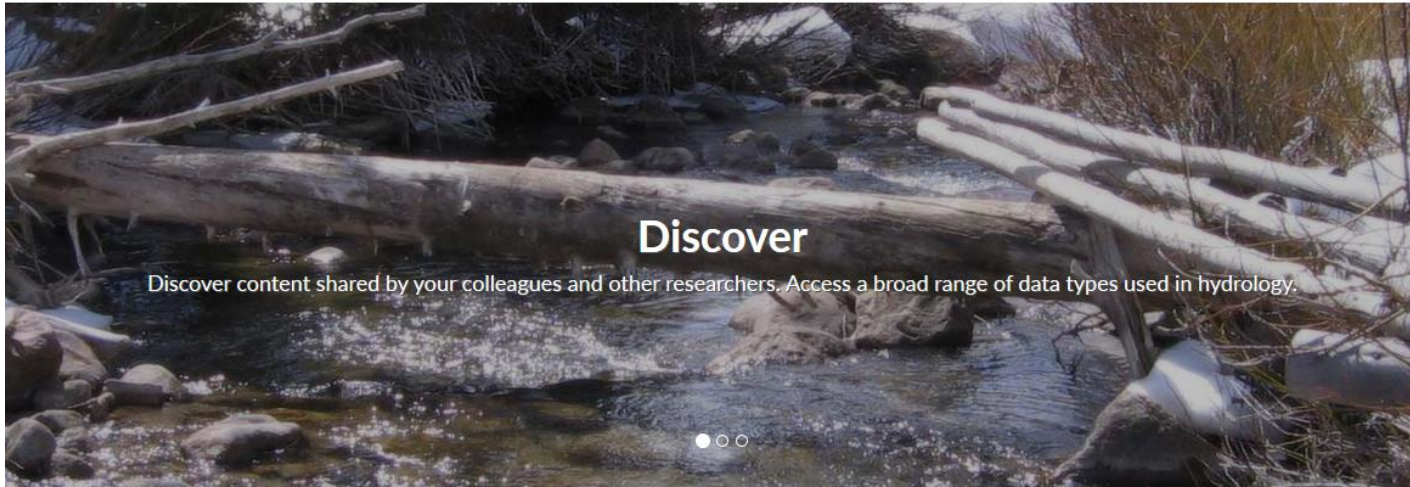
<https://www.hydroshare.org/>



The header of the HydroShare website features the logo on the left, followed by navigation links: MY RESOURCES, DISCOVER, COLLABORATE, APPS, HELP, and ABOUT. On the right side, there is a SIGN IN button with a user icon.

HydroShare is CUAHSI's online collaboration environment for sharing data, models, and code.

Sign up now



How it works

1

Create data

Collect your data using the same methods you use now. HydroShare

2

Upload to HydroShare

Upload your data files to HydroShare through the web user interface. HydroShare

3

Describe with metadata

Use HydroShare's simple metadata entry forms to finish describing your data.

4

Share with colleagues

Choose who has access to the data and models you have uploaded to

5

Permanently Publish

Obtain a Digital Object Identifier (DOI) so your work

Updates from Work Group Members

Updates

- Anything you would like to share with the group?
 - Projects
 - Data Sets
 - Opportunities for Coordination
 - Questions / Something you need help with
 - Upcoming Events of Interest
 - Job Openings

Meeting Wrap Up & Evaluation

Meeting Evaluation

Evaluations



Meeting Date: April 9, 2018

Help us find out what worked and what didn't work about today's meeting

1. Please rate the overall quality of the Work Group meeting.

1 2 3 4 5

Low quality High quality

2. Was the Work Group meeting a good use of your time?

1 2 3 4 5

Not a valuable use of my time Excellent use of my time

3. What did you like best about the Work Group meeting?

4. What could have been improved about the Work Group meeting?

5. Do you have suggestions for the Work Group that would help us achieve the group's objectives?

6. Would you be able to attend a Work Group meeting on the following dates?

Check all that apply.

___ Monday, July 9, 2018

___ Friday, July 13, 2018

___ Monday, July 16, 2018

___ Monday, July 23, 2018

___ Tuesday, July 24, 2018

___ Tuesday, July 27, 2018

Please join us for lunch!

Thank you!

<https://www.dvrpc.org/waterquality/DataGIS/>

For more information, contact:

Christina Arlt, AICP

carlt@dvrpc.org

215-238-2890