

Fish Table & NC Verification Documentation Training – August 2019

Hints

Computer with internet

Use Chrome

Turn off Pop Up Blocker

Make sure all Stations are cross referenced to SWIMS project

Open NC App on computer **NC Application**
http://34.223.230.186:3838/shuprm/NC_App

Open Fish / NC Workbook for TWA Project

\\FIWMADOP0922\Water\WQWT_PROJECTS\WY_WQ_WQM_Planning\WatershedPlan_Datasets\FY17\NO
osiewski - Woods Creek TWA, Florence County
2015\NC_Verifications\woodCreek_NC_VerificationProcedures.xlsx

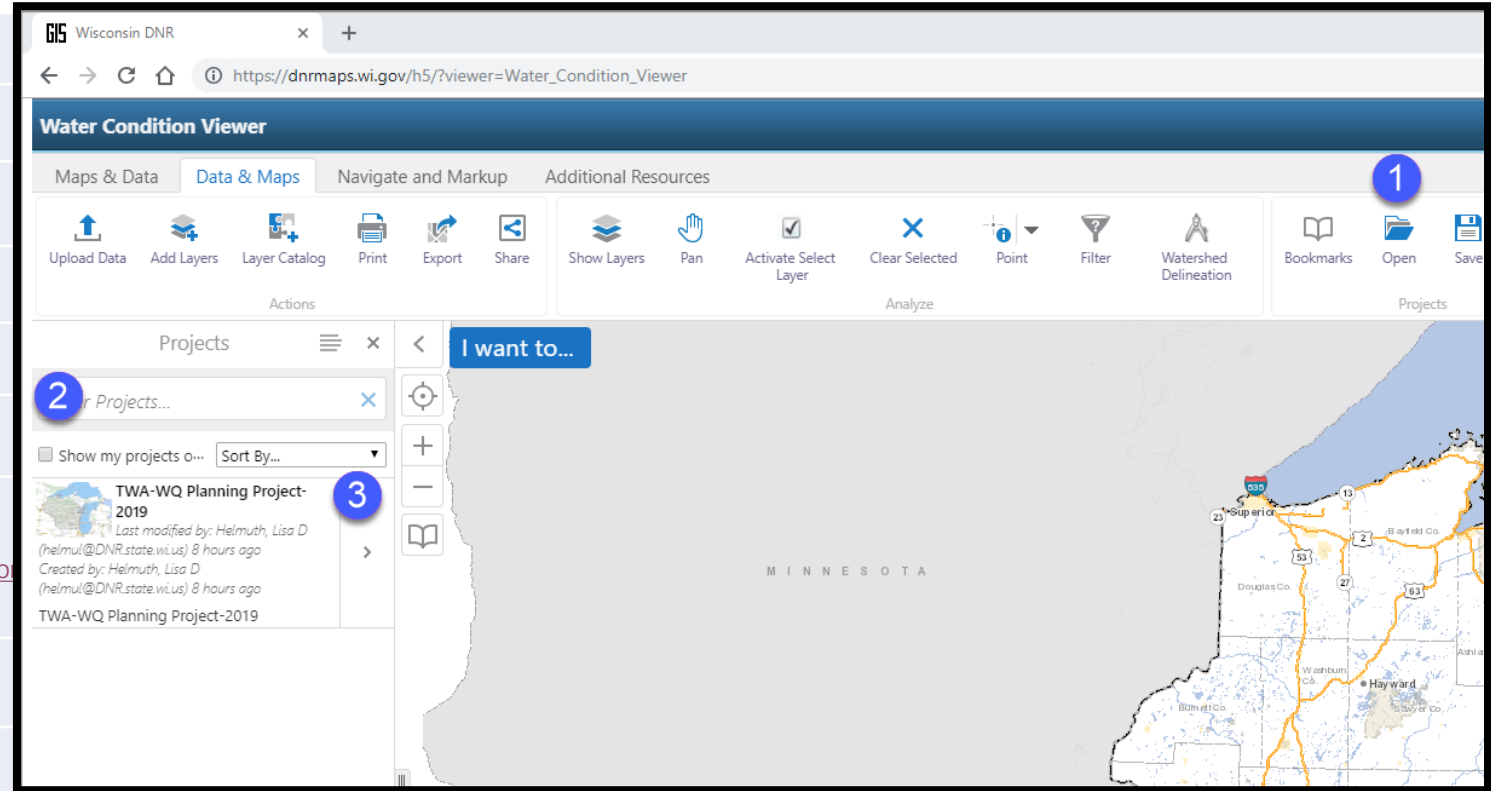
Open "sticky notes" for notes.

Sign into WCV with accounts username & password
*use the one for your email (like "helmuldjd")

https://dnrmaps.wi.gov/h5/?viewer=Water_Condition_Viewer
** Select TWA Projects – 2019 (see graphic at right)

WATERS url:
<https://prodoasint.dnr.wi.gov/wadrs/>

Woods Creek TWA Project - NC Verifications subfolder:
\\FIWMADOP0922\Water\WQWT_PROJECTS\WY_WQ_WQM_Planning\WatershedPlan
Datasets\FY17\NOR\Klosiewski - Woods Creek TWA, Florence County
2015\NC_Verifications\



- 1 After you sign in, click "open" under Data & Maps
- 2 Click 'unselect' on Show my projects only (will make TWA project come up).
- 3 Click on the project to launch the custom layers for the NC / Fish IBI work.

[Share feedback on this training and these materials here! Thanks](#)

NC review recommended procedures - August 2019

[Projects Online NC Project](#)

<https://dnr.wi.gov/water/projectDetail.aspx?key=13992345>

Build this project workbook to document NC decisions and create your fish assemblage table for the TWA report.

NC App Link http://34.223.230.186:3838/shuprm/NC_App/

1. Project Workbook for fish assemblage & NC documentation *open this file!

[Excel 2017 Workbook for NC Verification](#)

(For Routine work, it will be in subfolder of TWA project)

[Hints](#)

2. [Log into WCV. Click "Data and Maps", "Open" Select TWA Project - navigate to project.](#)

Use Chrome

3. [Go to 2nd tab -- build table by searching station in WCV](#)

Turn off Pop Up Blocker

4. [Build your workbook by copying the station, fish survey seq no, date and purpose of study in unique station tabs.](#)

Sign into WCV with accounts username & password

Open NC App on computer

Fill Out Project Workbook by: (suggested - do what works for you!)

Open Worksheet

Turn on the following layers: Fish IBI Stations, NC Station Review Status, Fish Monitoring Stations

Open "sticky notes" for notes.

a. Navigate to Station in WCV and click on "identify" and find "fish station link "

Make sure all Stations are xref'd in SWIMS Project before eyou start

b. go to projects in SWIMS and copy information Fish Survey Sequence Number, Year of Survey.

c. *paste information in the table and on the station tab in workbook.*

d. determine which surveys you want to use for the TWA writeup

[Use Natural Community app](#)

e. With Station ID and Fish Survey Seq No, you can start looking up natural community information (see graphic)

** if survey is not in NC App, use Excel Spreadsheet.

1. From NC App - *copy and paste fish species counts to station/survey info in workbook*

2. From WCV, *copy and paste Fish Survey Seq No into NC App, run process and save pdf to fileshare.*

if there is no WATERS record for survey, you can create one yourself.

3. Go to WCV, Layer: **NC Stations Review Status on**, click on link "View" (which takes you right to the WATERS NC record.

4. Update information in WATERS to reflect your decision. Copy & paste narrative from PDF into Reviewer Comments Box.

5. Click "save" to make sure WATERS saves your decisions (**Fish IBI Natural Community , Reviewer Name, Date, Decision, Narrative**).

Using the NC App

http://34.223.230.186:3838/shuprm/NC_App/

a. Enter First Fish Seq No for first station in Shurpyt App

b. Document identify modeled NC

c. Document verified or new approved community in sheet.

d. Make decision and generate PDF of report and put in NC_Verification folder fileshare.

e. Document decision in table on front of excel file.

Example Workbook
Woods Creek TWA
Project

When all stations have been edited in WATERS and the workbook completed, Attach workbook to SWIMS Project and cross reference to each decision.

1. Save the workbook in the NC Validations subfolder.

2. Upload the file to your TWA Project, then cross reference that same file to each NC decision.

Copy and Paste fish assemblage species count for each survey into the station page in the workbook

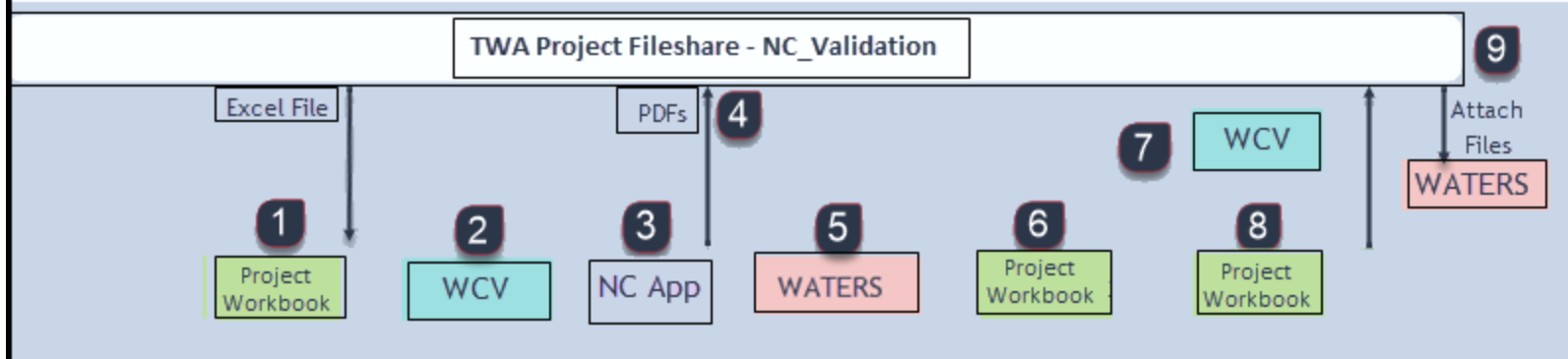
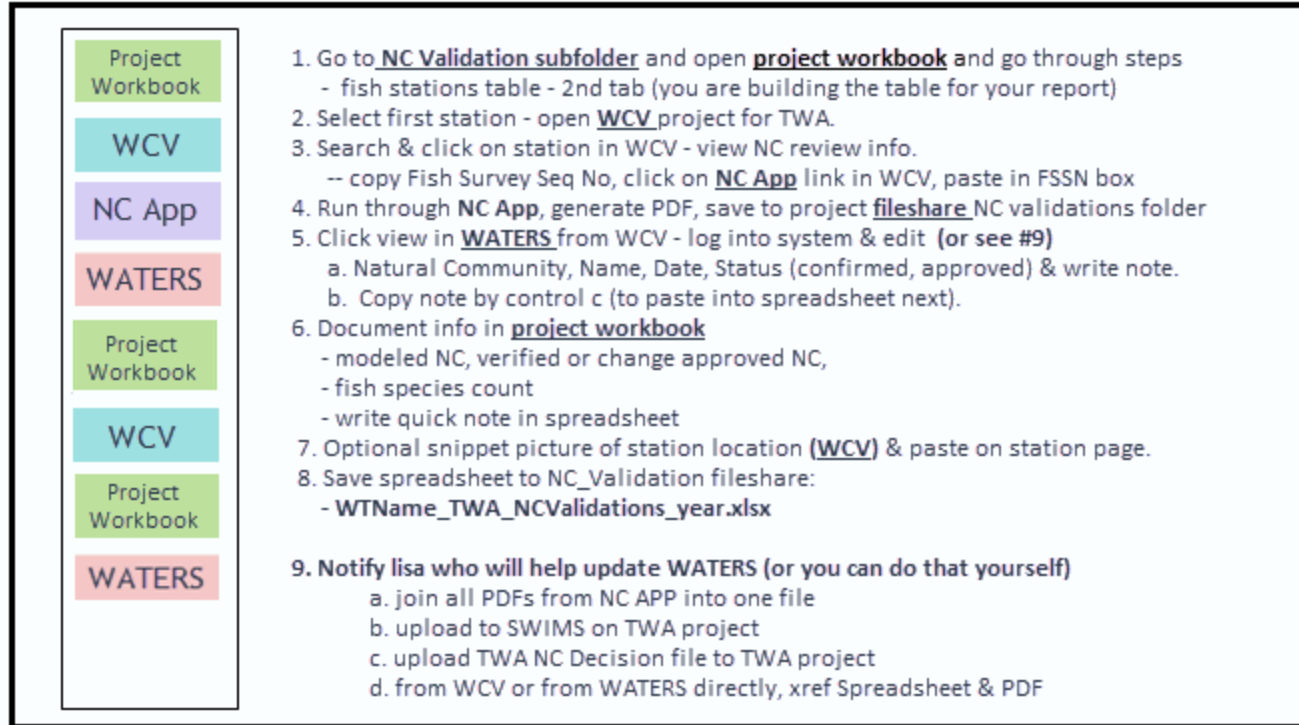
For the TWA report.

Follow these directions if you update information one station at a time.

NC Verification Procedures

Preparation – what you will use (provided in your custom spreadsheet):

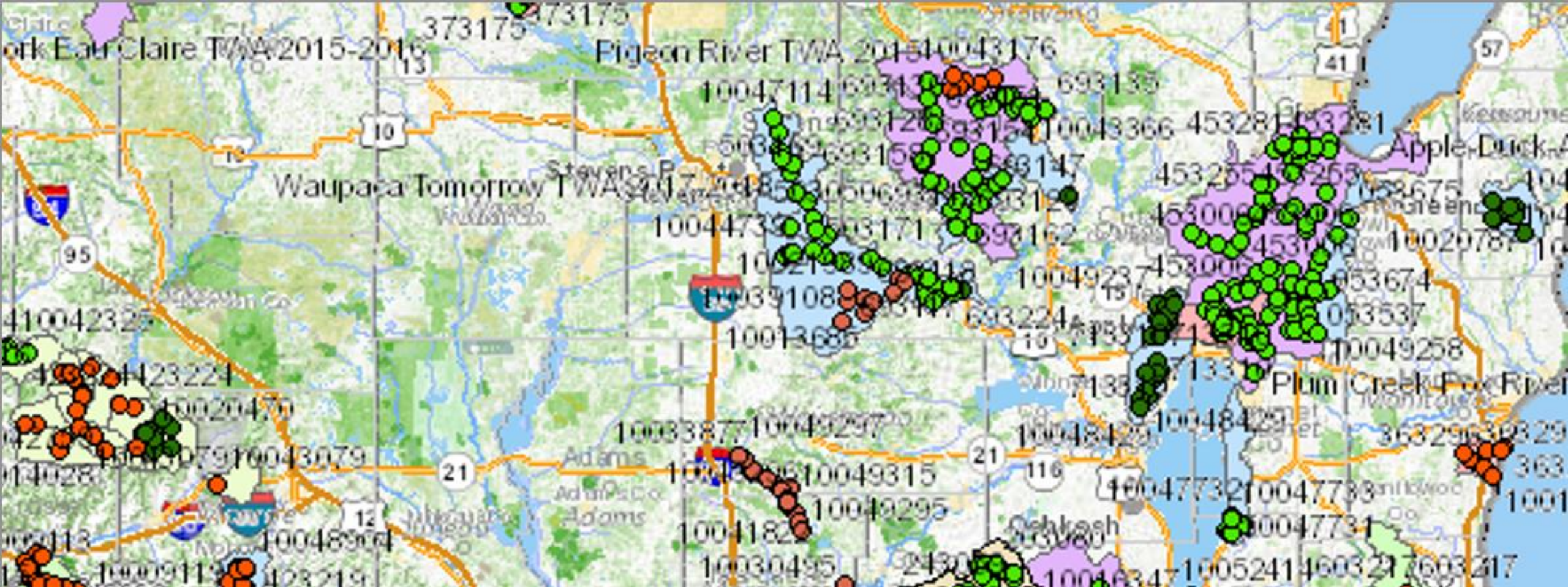
- Access to computer with internet
- Access to TWA planning drive
- TWA project fish survey stations
- Log on permissions to WATERS NC area.
- Log on to WCV using your DNR accounts profile.



Note that in the Woods Creek "Megaworkbook.xlsx" a lot of data for your table is already there

Use the Mega Workbook for your watershed to download all stations and status information to work on workbook faster.

P	C	R	S	T	U	V	W	X
C_CODE	F-IBI Natural Community	REQUEST_DESCRIPTION_TEXT - FISH SITE SEQUENCE NUMBER IS HERE	REQUEST_STAT	REQUEST_STATUS_NAME	REVIEWER	REVIEWER	REVIEW_DATE	REVIEWER_COMMENTS_TEXT
		Site Seq NoSWIMS Station IdStn NameWBIC Code Natural Community 13067710012892WOODS CREEK - 222M BELOW PATTEN LAKE RD.653300 COOL-WARM MAINSTEM	APPROVED	NC Change Approved	10097479	KLOSIOWSKI, .	4/7/2017	see attached spreadsheet - modeled cool-warm headw
2	COOL-COLD HEADWATER	SRVY_BEGIN_DATE = 22-JUL-08, PRIMARY_STATION_NAME = Cody Creek A2, SRVY_SEQ_NO = 4985239, PRMRY_SRVY_DESC = RESEARCH PROJECT, WATERBODY_TYPE = WADABLE STREAM	PROPOSED	NC Change Needs Review				Modeled natural community not valid based on fish con
3	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					
4	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					
5	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
6	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
7	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
8	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
9	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
10	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
11	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
12	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COLDWATER					Modeled natural community not valid based on fish con
13	Modeled NC Not Verified (Alt 9 of 9)	COOL-WARM HEADWATER	COOL-COLD HEADWATER					Modeled natural community not valid based on fish con



Using the Water Condition Viewer TWA Projects – 2019

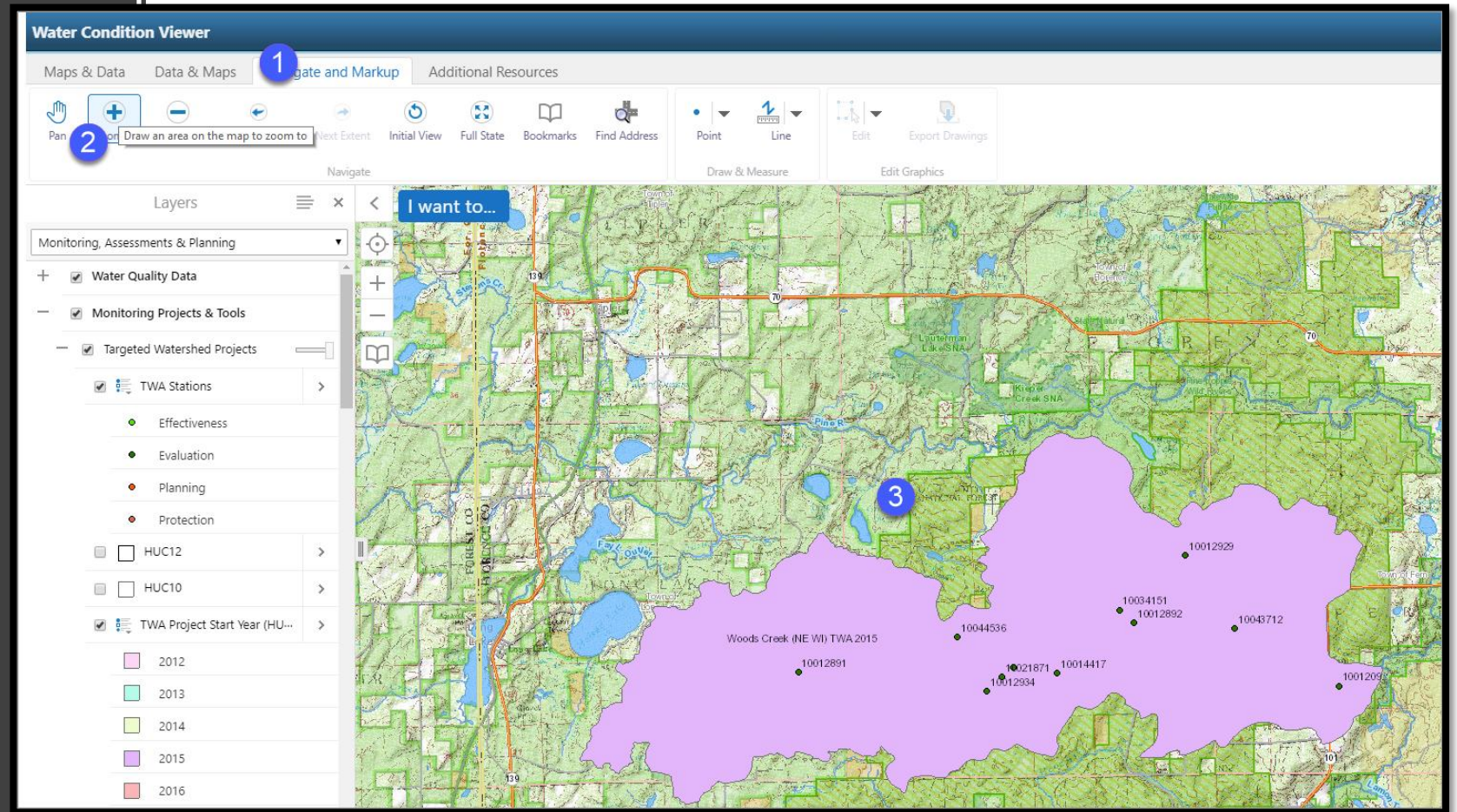
Step by Step guide on
what's available from
within the WCV
application

Use the TWA Project, Navigate to
your TWA Project

Click Navigate and Markup

“+”

Put Box around project area to
zoom in



Water Condition Viewer

Maps & Data | Data & Maps | **Navigate and Markup** | Additional Resources

Navigation and Markup Tools:

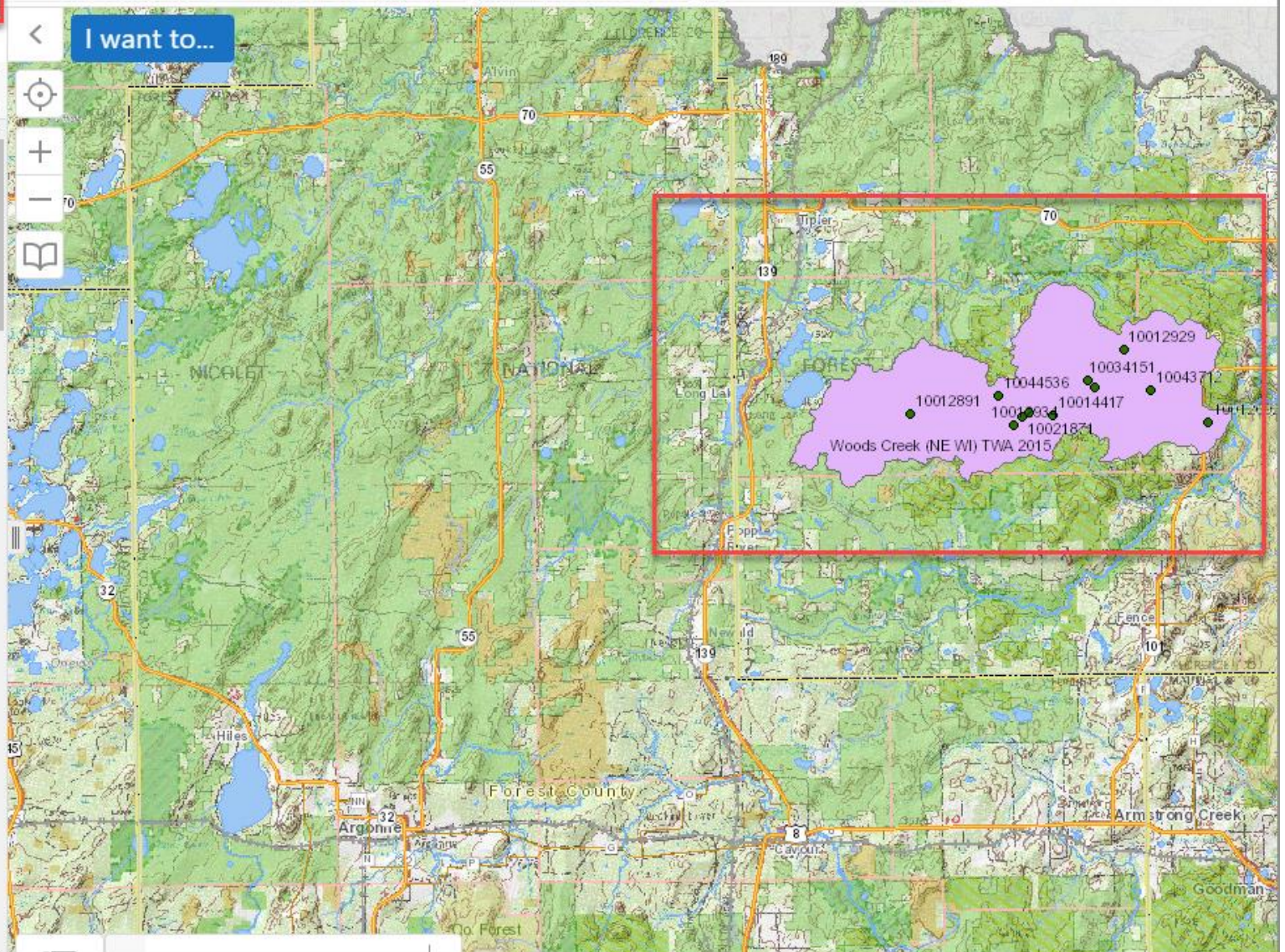
- Zoom In** (+) | **Zoom Out** (-) | **Previous Extent** (↶) | **Next Extent** (↷)
- Initial View** (↻) | **Full State** (🔄) | **Bookmarks** (📖) | **Find Address** (📍)
- Point** (•) | **Line** (—) | **Edit** (✎) | **Export Drawings** (📄)

Draw & Measure | Edit Graphics

Layers

Monitoring, Assessments & Planning

- Water Quality Data**
- Monitoring Projects & Tools**
- Targeted Watershed Projects**
 - TWA Stations**
 - Effectiveness
 - Evaluation
 - Planning
 - Protection
 - HUC12
 - HUC10
 - TWA Project Start Year (HU...**
 - 2012
 - 2013
 - 2014
 - 2015
 - 2016
 - 2017





Cheat Sheet for "Identify" Records

- Layers
- Monitoring, Assessments & Planning
- Water Quality Data
 - Clean Water Act
 - Stream mIBI
 - Stream Fish IBI
 - Fish IBI Stations
 - F-IBI Stream Assessments
 - Fish IBI Assessments
 - Stream TP
 - NW Stream mIBI
 - Lake Assessments
 - Recreational Use E. coli
 - Temperature & Chloride
 - Natural Communities
 - NC Station Status in WATERS
 - Biologist Approved

TWA Stations

Fish IBI Stations

Fisheries Station Points

Natural Community Station Status Records

Natural Community Decision in WATERS

I want to...

Woods Creek (NE WI) TWA 2015 2 1 of 16

Woods Creek (NE WI) TWA 2015 - Station: (10012891)

Fish IBI Stations:Woods Creek 7- 300' Downstream And 100' Upstream From Fr 2156: Good

Fish IBI Stations:Woods Creek - 128m Below Halsey Lake Rd./Fr2156: Excellent

Woods Creek, Code: 040301080106

Popple River, Code: 0403010801

Woods Creek (NE WI) TWA 2015 : 2015

WOODS CREEK - 128M BELOW HALSEY LAKE RD./FR2156 (FMDB Site ID 130676)

NO. 7. 300' DOWNSTREAM AND 100' UPSTREAM FROM FR 2156 (FMDB Site ID 130152)

Woods Creek, (WBIC 653300)

County: Florence

Station: Woods Creek - 128m Below Halsey Lake Rd./Fr2156, Date: 2005, Status:NC Change Needs Review

Station: Woods Creek 7- 300' Downstream And 100' Upstream From Fr 2156, Date: 2012, Status:NC Change Needs Review

Fish IBI: Woods Creek, Condition: Excellent

F-IBI Water: Woods Creek, Condition: Excellent

NC Used: COLDWATER:NC Change Needs Review

NC Used: COLDWATER:NC Change Needs Review

In addition, more than half the number of sites proposed have no data or data approximately 10 years old. 8 streams are listed as Class I Trout streams, while one is listed as Class II

[View Additional Details](#)

Woods Creek (NE WI) TWA 2015

Woods Creek

10012891

10044536

10021871

1001-41

10012934

Popple River

Navigation and Markup Tools:

- Pan
- Zoom In
- Zoom Out
- Previous Extent
- Next Extent
- Initial View
- Full State
- Bookmarks
- Find Address
- Point
- Line
- Edit
- Export Drawings

Layers Panel:

- Monitoring, Assessments & Planning
 - Water Quality Data
 - Monitoring Projects & Tools
 - Targeted Watershed Projects
 - TWA Stations
 - Effectiveness
 - Evaluation
 - Planning
 - Protection
 - HUC12 **turn on**
 - HUC10
 - TWA Project Start Year (HU...
 - 2012
 - 2013 **turn off**
 - 2014
 - 2015
 - 2016
 - 2017

Information Pop-up:

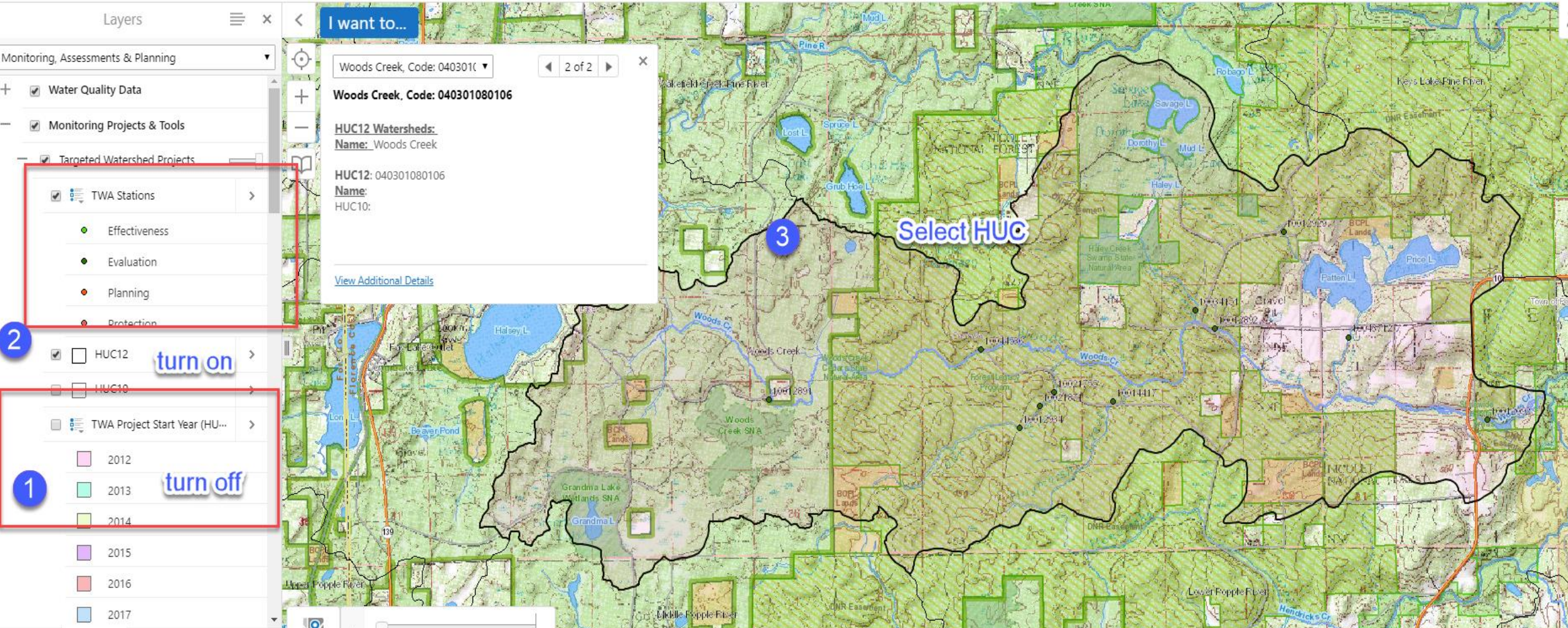
I want to... Woods Creek, Code: 04030106 2 of 2

Woods Creek, Code: 040301080106

HUC12 Watersheds:
Name: Woods Creek

HUC12: 040301080106
Name:
HUC10:

[View Additional Details](#)



Maps & Data Data & Maps **Navigate and Markup** Additional Resources

1 View additional details

2 show buffer options

Woods Creek, Code: 040301080106

Description

HUC12 Watersheds:
Name: Woods Creek
HUC12: 040301080106
Name:
HUC10:

Details

OBJECTID
808

HUC12
040301080106

Name
Woods Creek

HUType
S

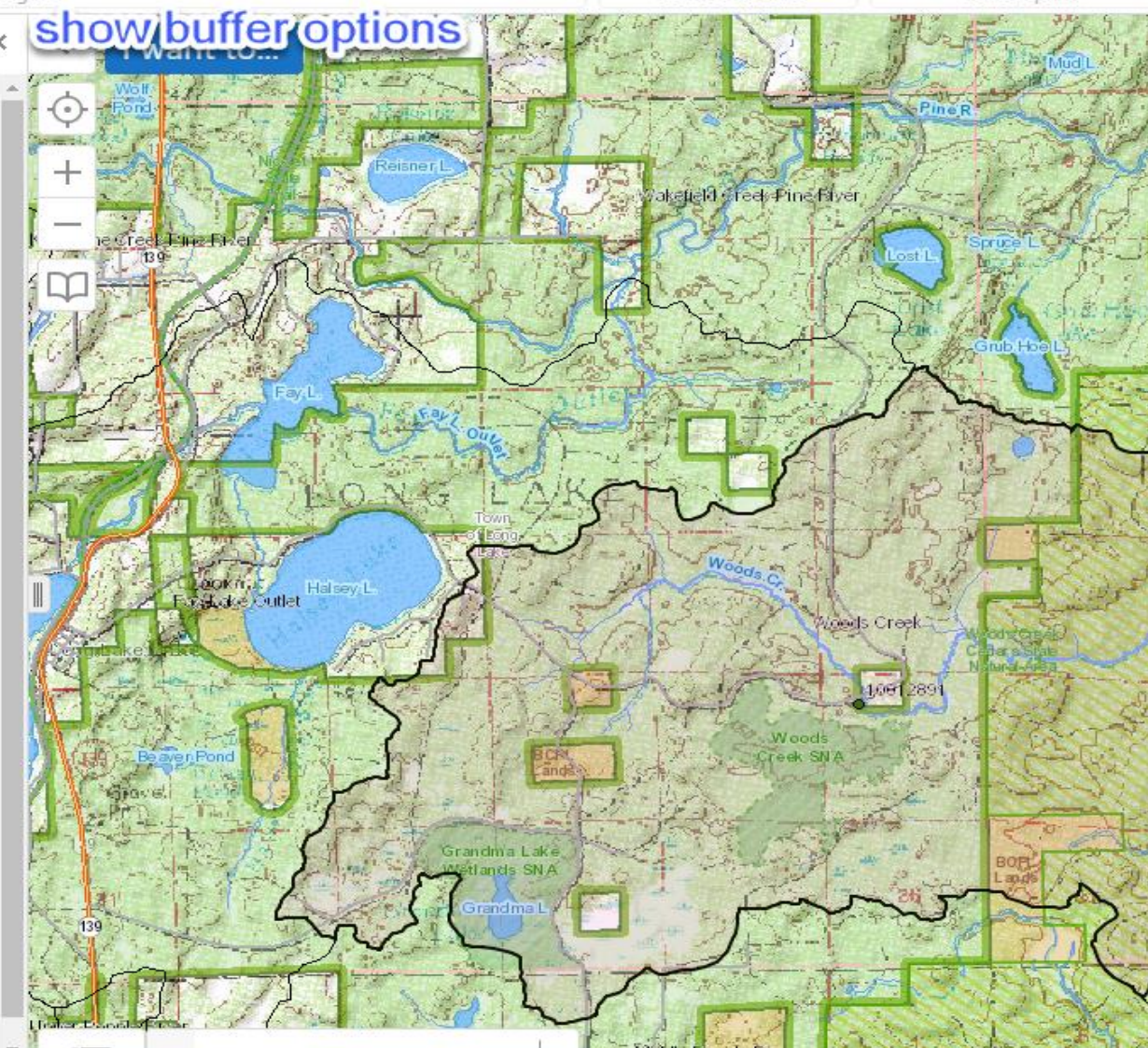
HUMod
TF

ToHUC
040301080107

SHAPE
N/A

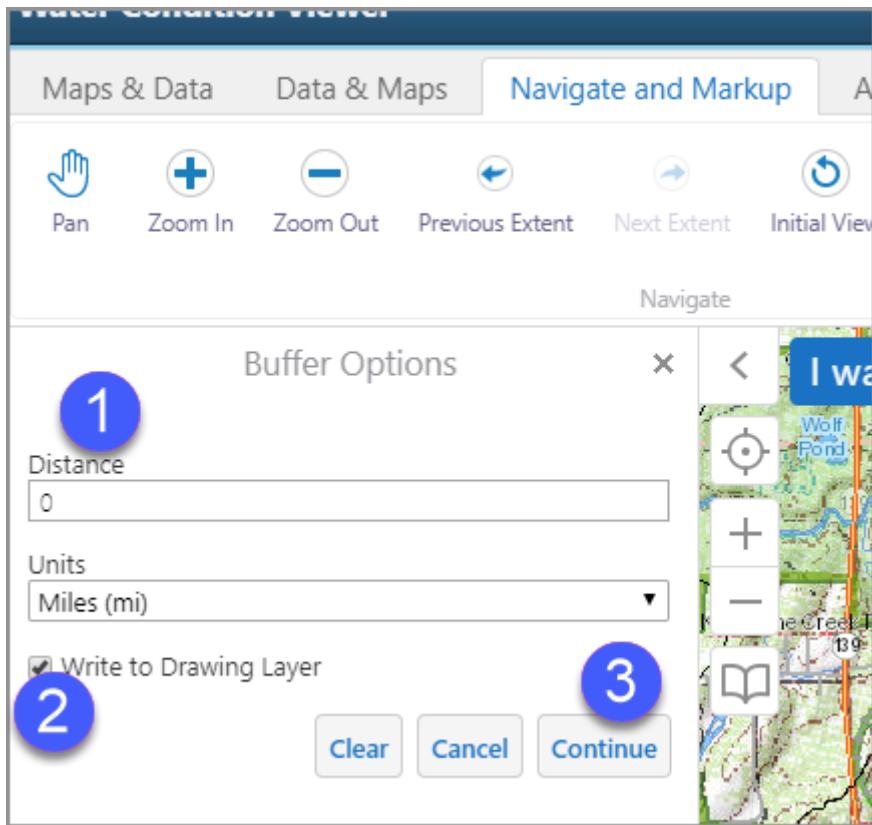
SHAPE.AREA
111336531.7728

SHAPE.LEN
73990.6016



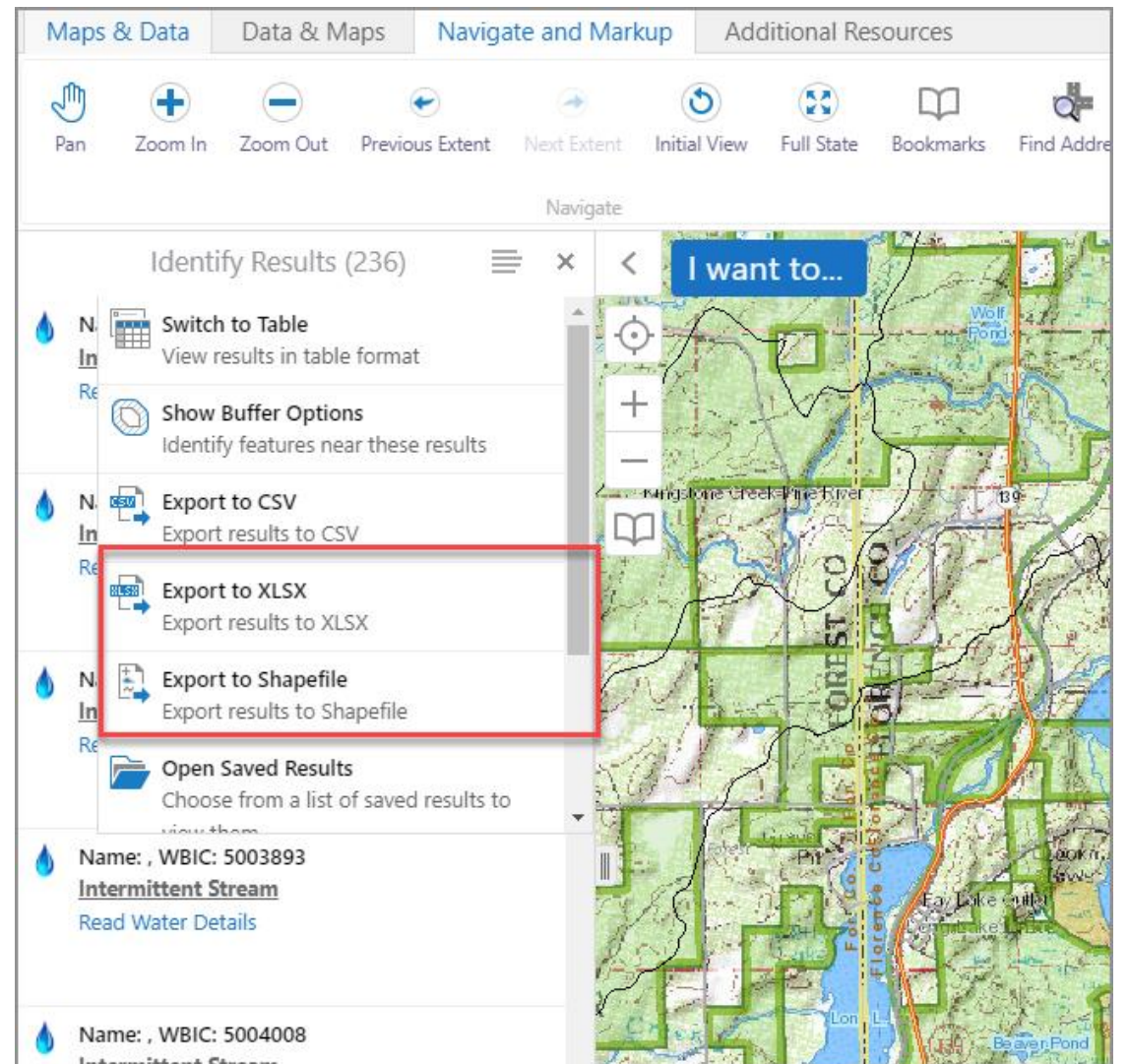
The screenshot shows a GIS application interface. At the top, there are tabs for 'Maps & Data', 'Data & Maps', 'Navigate and Markup', and 'Additional Resources'. Below the tabs is a toolbar with various navigation and editing tools. A red circle with the number '1' highlights the 'View additional details' button. A red circle with the number '2' highlights the 'show buffer options' button. The main map area displays a topographic map of a watershed area, with various features like lakes (e.g., Reiser L., Fay L., Halsey L., Grandma L.), rivers (e.g., Woods Cr., Pine R.), and land use patterns. The map is overlaid with a grid and various colored polygons representing different land use or watershed boundaries. The left sidebar shows a metadata panel for the selected feature, 'Woods Creek', with details such as HUC12, name, and area.

Select HUC12 to make downloading data from layers that are turned “on” super easy.



You are making a “graphic” of the watershed, then putting a “buffer” around the watershed and grabbing any layer that is turned “on” and within the “buffer” of the watershed.

You can export as excel table and/or shapefile. I do both. Excel for tables and analysis. Shapefile for mapping.



Identify Results (356)



I want to...

Fish IBI Stations:Haymarsh Creek - 107.4m Below Goodman

Grade: Poor

Station ID: 10014417, Water: Haymarsh Creek

Count: 1, Values: 30

NC Used: COOL-WARM HEADWATER

NC Review Needed: Y

IBI used: INTERMITTENT IBI

WBIC: 655400, AU: 1458489

Start: 2015 end: 2015

Stand Alone: N

More: [Monitoring Data](#)

Fish IBI Stations:Unnamed Creek 13-16 - 46m Ab Shore Rd: Excellent

Station ID: 10012929, Water: Creek 13-13 (T39n, R16e)

Count: 1, Values: 100

NC Used: COLDWATER

NC Review Needed: Y

IBI used: COLDWATER IBI

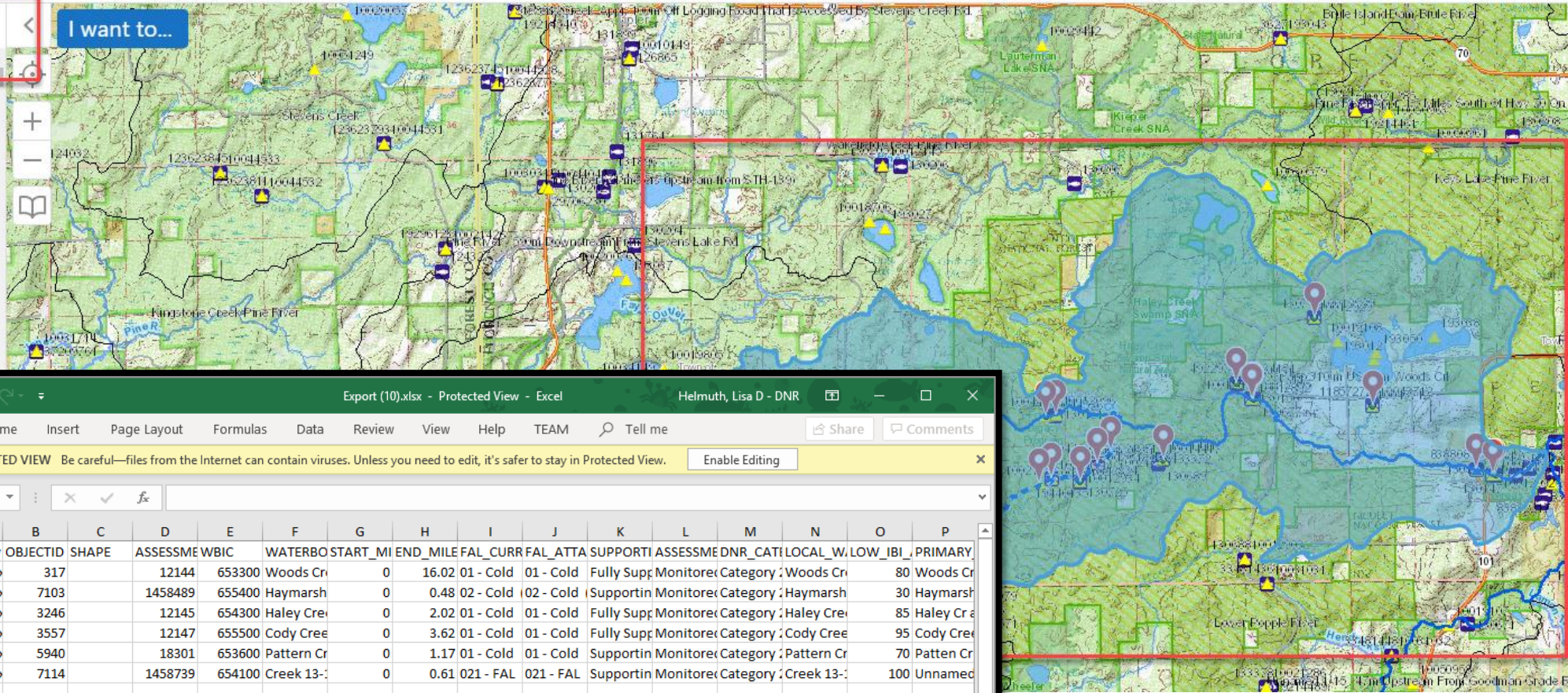
WBIC: 654100, AU: 1458739

Start: 2015 end: 2015

Stand Alone: N

More: [Monitoring Data](#)

Displaying 1 - 50 (Total: 356)



Export (10).xlsx - Protected View - Excel

File Home Insert Page Layout Formulas Data Review View Help TEAM Tell me Share Comments

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

V16

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	geometry	OBJECTID	SHAPE	ASSESSME	WBIC	WATERBO	START_MI	END_MILE	FAL_CURR	FAL_ATT	SUPPORTI	ASSESSME	DNR_CAT	LOCAL_W	LOW_IBI	PRIMARY
2	Geocorte	>	317	12144	653300	Woods Cr	0	16.02	01 - Cold	01 - Cold	Fully Supp	Monitore	Category	Woods Cr	80	Woods Cr
3	Geocorte	>	7103	1458489	655400	Haymarsh	0	0.48	02 - Cold	02 - Cold	Supportin	Monitore	Category	Haymarsh	30	Haymarsh
4	Geocorte	>	3246	12145	654300	Haley Cre	0	2.02	01 - Cold	01 - Cold	Fully Supp	Monitore	Category	Haley Cre	85	Haley Cr
5	Geocorte	>	3557	12147	655500	Cody Cree	0	3.62	01 - Cold	01 - Cold	Fully Supp	Monitore	Category	Cody Cree	95	Cody Cree
6	Geocorte	>	5940	18301	653600	Pattern Cr	0	1.17	01 - Cold	01 - Cold	Supportin	Monitore	Category	Pattern Cr	70	Patten Cr
7	Geocorte	>	7114	1458739	654100	Creek 13-	0	0.61	021 - FAL	021 - FAL	Supportin	Monitore	Category	Creek 13-	100	Unname
8																
9																
10																
11																
12																
13																
14																
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16																
17																
18																
19																
20																
21																
22																

Fish IBI Stations Stations mBI Results Total Phosphorus Samples NC Station Status in WATERS NC Station Decisions in W ...

100%

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.

Enable Editing

I24

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	geometry	STATION	MONIT_ST	PLAN_NAME	PLAN_ID	OBJECTIVE	PLAN_SEQ_NO	START_YEAR	END_YEAR	PLAN_STATUS	PLAN_STAGE	START_DATE	WASHED_C	HUC_COD	END_DATE	SHAPE	OBJECTID
2	X: 645595.	10012092	104221	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		14384
3	X: 639781.	10034151	49229756	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		39868
4	X: 636275.	10012934	151030	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		20505
5	X: 642833.	10043712	1.19E+08	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		666561
6	X: 638141.	10014417	151708	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		21162
7	X: 641530.	10012929	151026	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		20501
8	X: 635502.	10044536	1.24E+08	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		712648
9	X: 636670.	10021871	19440029	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		28400
10	X: 640164.	10012892	151006	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		20481
11	X: 636965.	10021755	19385874	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		28287
12	X: 631282.	10012891	151005	Woods Cr	North_TW	Woods Cre	112204945	2015	2015	EVALUATI	REPORT	42005	GB17	04030108	42369		20480

Intermittent Streams

Major Roads

County Boundary

County and Local Roads

State Natural Areas (SNA)

24K Hydrography Streams and Riv

...

+

...



Once you have your stations downloaded for the watershed, you can search for the relevant surveys and NC data that you need. Through the **Water Condition Viewer** screens you click on **Identify** from the **NC Station Review Status** link to pull up the NC App, enter the Fish Survey Seq No and then **“View: Click Here”** to view the **WATERS** record to update decision.

The screenshot displays the Water Condition Viewer interface. At the top, there are search fields for "Quick Find" and "Coordinates". A blue button labeled "I want to..." is visible. Below the search fields, a popup window displays information for a selected station: "Station: Unnamed Creek 13-16 - 46m Above North Shore Rd, Date: 2005, Status: NC Change Needs Review". The popup is divided into sections: "Water: Unnamed WBIC: 654100 View: Click Here", "Survey Date: 2005 NC Tool", "Modeled NC: COOL-WARM HEADWATER", "NC Status: NC Change Needs Review", "NC Code Used: COLDWATER", "Decision: Modeled NC Not Verified (Alt 9 of 9)", "Mon. Seq.No: 151026", "Station: Unnamed Creek 13-16 - 46m Above North Shore Rd", "Survey: SRVY_BEGIN_DATE = 07-SEP-05, PRIMARY_STATION_NAME = Unnamed Creek 13-16 - 46m Above North Shore Rd, SRVY_SEQ_NO = 82067, PRMRY_SRVY_DESC = BASELINE MONITORING, WATERBODY_TYPE = WADABLE STREAM", "Reviewer:", "Date:", and "Notes: Modeled natural community not valid based on fish community tests and fish database tool. Best alternative natural community is recommended based on passing 9 of 9 tests. This decision should be reviewed by the water quality biologist." At the bottom of the popup, there are links for "Add to Results" and "View Additional Details". The background is a topographic map with a red pin and a red box highlighting a specific location.

Everything is Connected!

Remember that all these different applications and workbooks are interlinked.

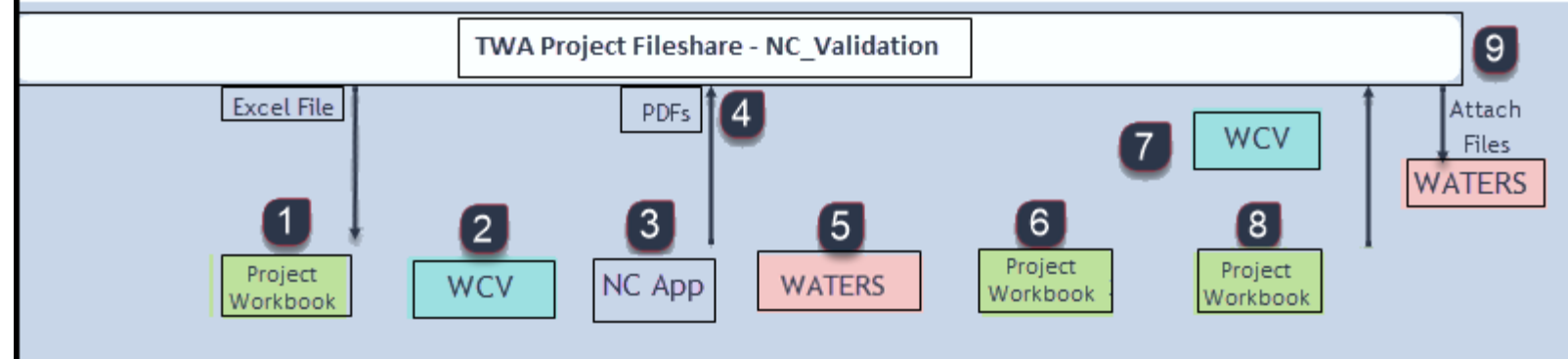
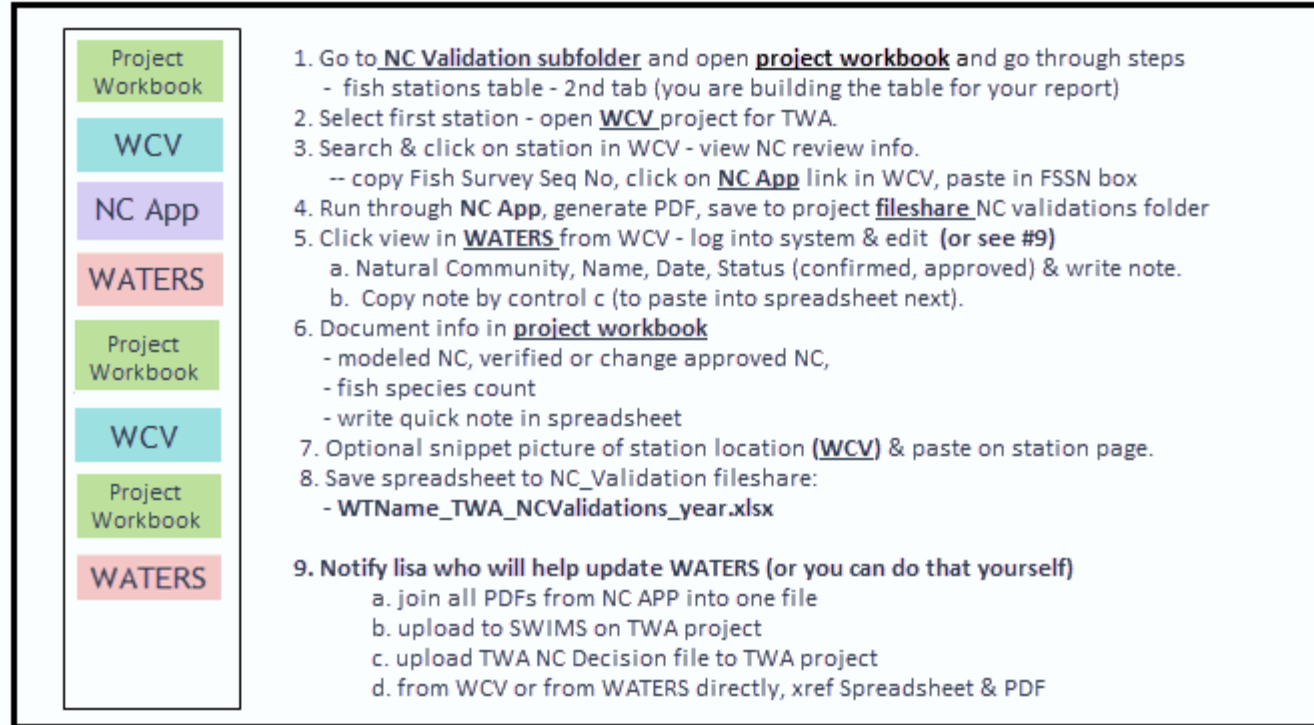
If you go through one or two stations following directions at right, you may get the hang of the big picture faster than you think!

Please give this a try!!!!

NC Verification Procedures

Preparation – what you will use (provided in your custom spreadsheet):

- Access to computer with internet
- Access to TWA planning drive
- TWA project fish survey stations
- Log on permissions to WATERS NC area.
- Log on to WCV using your DNR accounts profile.



Your feedback is Critical

Please provide feedback on this automated feedback table.

Your thoughts – positive or critical yet constructive– will help create a better set of tools for you in the future.

What works

What doesn't

Can you figure out what to do if things don't work right.

Thanks So Much! Many Happy Data Thoughts!

Share feedback on these training materials and process flow.

-- Lisa

Person	Overall Clarity	Written Directions	Clarity of graphics	Helpfulness of Skype Meeting	Usefulness of Project Workbook	Water Condition Viewer setup	Clarity of NC App	WCV links to N app and water
Aartilla								
Amrhein								
Asplund								
Beranek								
Cunningham								
Hudak								
Kleist								
Klosiewski								
Minahan								
Raab								
Raleigh								
Rock								
Ruesch								
Shupryt								
Willger								
Wirt								

Please don't be shy about grading this hard! We can't improve the materials and work support if we don't know what you need.
Thanks!!!