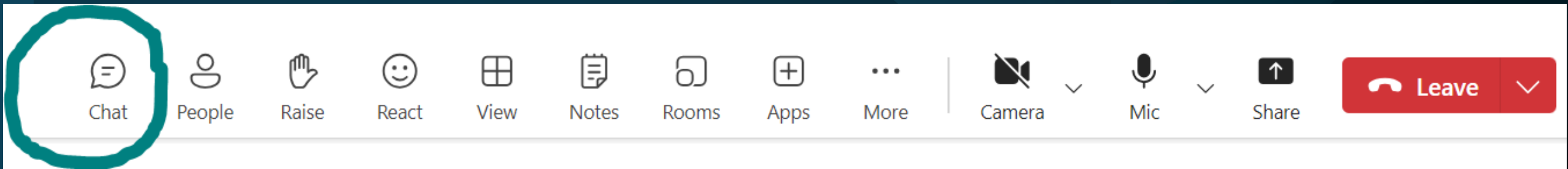


# MonitoringResources.org Orientation for BPA CORs



Sam Cimino (USGS/PNAMP)

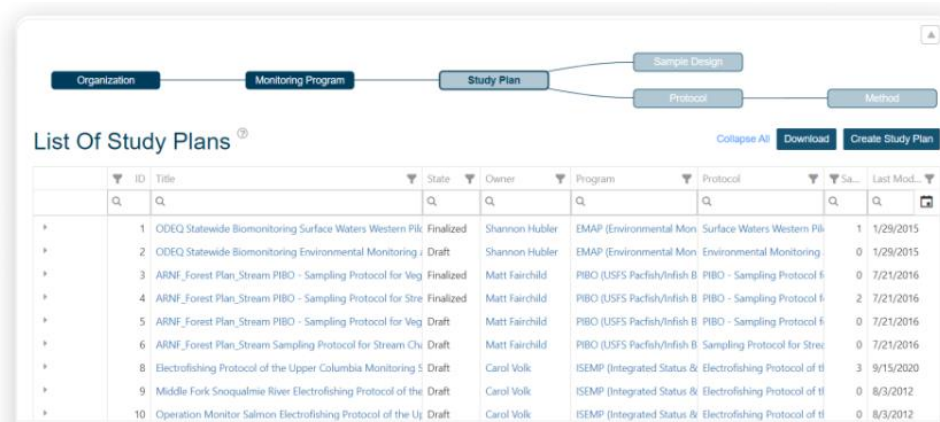
# MonitoringResources.org

## Structured online tool set that supports:

Project design

Metadata documentation

Project collaboration



The screenshot shows a navigation menu with 'Organization', 'Monitoring Program', 'Study Plan', 'Sample Design', 'Protocol', and 'Method'. Below the menu is a 'List Of Study Plans' table with columns for ID, Title, State, Owner, Program, Protocol, Sa..., and Last Mod... The table contains 10 rows of study plan entries.

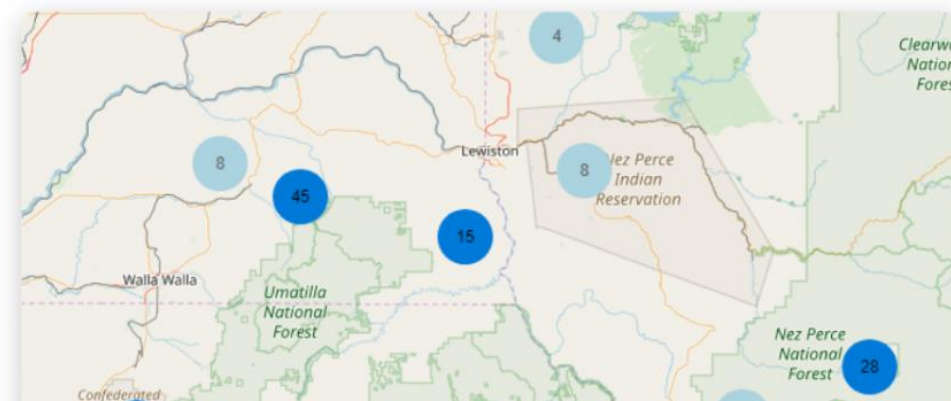
ID	Title	State	Owner	Program	Protocol	Sa...	Last Mod...
1	ODEQ Statewide Biomonitoring Surface Waters Western Pk	Finalized	Shannon Hubler	EMAP (Environmental Mon	Surface Waters Western Pk	1	1/29/2015
2	ODEQ Statewide Biomonitoring Environmental Monitoring	Draft	Shannon Hubler	EMAP (Environmental Mon	Environmental Monitoring	0	1/29/2015
3	ARNF_Forest Plan_Stream PIBO - Sampling Protocol for Veg	Finalized	Matt Fairchild	PIBO (USFS Pacfish/Infish B	PIBO - Sampling Protocol f	0	7/21/2016
4	ARNF_Forest Plan_Stream PIBO - Sampling Protocol for Stre	Finalized	Matt Fairchild	PIBO (USFS Pacfish/Infish B	PIBO - Sampling Protocol f	2	7/21/2016
5	ARNF_Forest Plan_Stream PIBO - Sampling Protocol for Veg	Draft	Matt Fairchild	PIBO (USFS Pacfish/Infish B	PIBO - Sampling Protocol f	0	7/21/2016
6	ARNF_Forest Plan_Stream Sampling Protocol for Stream Ch	Draft	Matt Fairchild	PIBO (USFS Pacfish/Infish B	Sampling Protocol for Stre	0	7/21/2016
8	Electrofishing Protocol of the Upper Columbia Monitoring 5	Draft	Carol Volk	ISEMP (Integrated Status &	Electrofishing Protocol of t	3	9/15/2020
9	Middle Fork Snoqualmie River Electrofishing Protocol of the	Draft	Carol Volk	ISEMP (Integrated Status &	Electrofishing Protocol of t	0	8/3/2012
10	Operation Monitor Salmon Electrofishing Protocol of the Uj	Draft	Carol Volk	ISEMP (Integrated Status &	Electrofishing Protocol of t	0	8/3/2012

### Document

Document and share your methods and protocols.

Plan your study plans and sample designs.

Track your monitoring locations.



### Explore

Discover other's monitoring locations.

View monitoring metadata and data repository.

Export maps and spreadsheets of metadata.

# Working Together

## CBFish.org

- proposals
- contracts/SOWs
- annual reports



## MonitoringResources.org

- study plans
- protocols
- methods
- sample designs
  - actuals



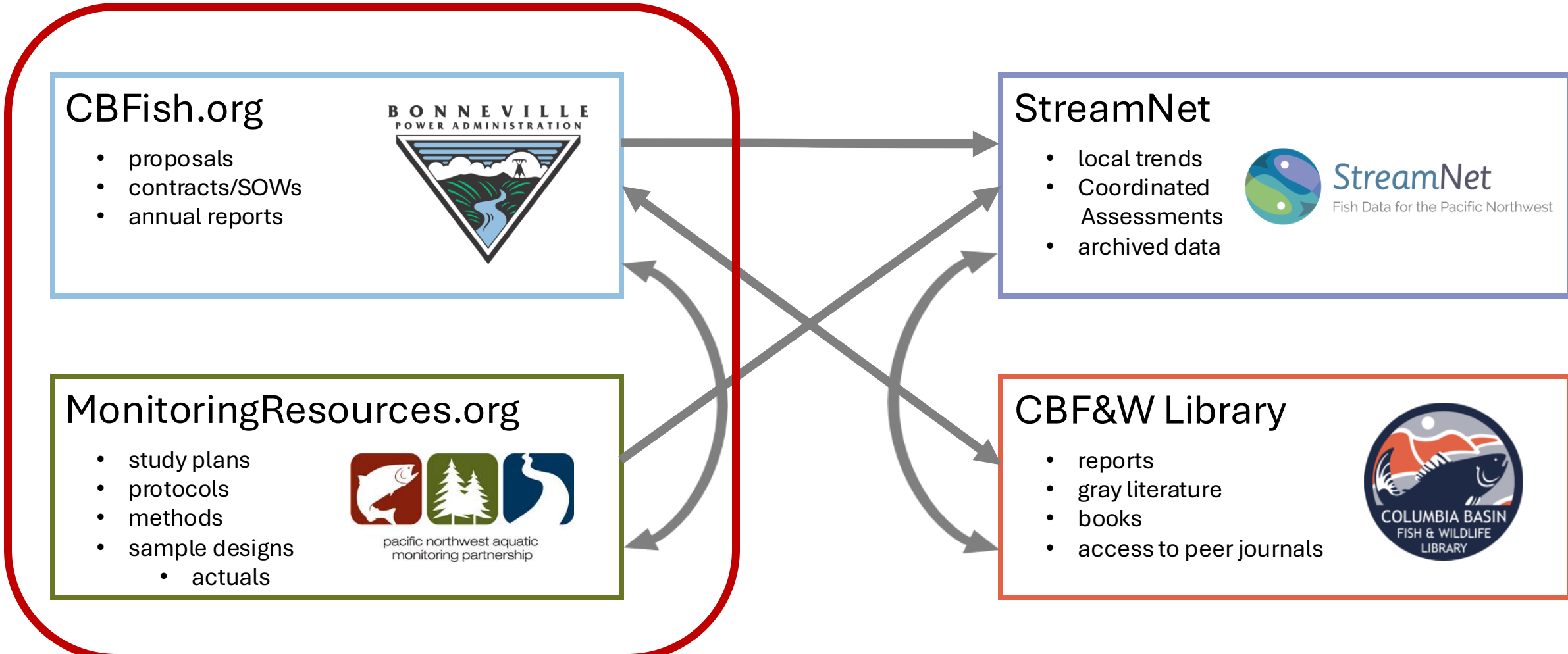
## StreamNet

- local trends
- Coordinated Assessments
- archived data



## CBF&W Library

- reports
- gray literature
- books
- access to peer journals



# BPA Contract Process: SOW

Viewing 2 of 2 Contract Actions

Rev	Type	Status	Request Number	WE Count	Change Type	SOW Status	Start	End	Title
1	Contract Requisition (CR)	ISSUED	CR-358756	18		Locked	12/01/2022	11/30/2023	2002-053-00 EXP ASSESS SALMONIDS ASOTIN CR WS
1	Contract: 84042 REL 23	Issued	CR-358756	18		Locked	12/01/2022	11/30/2023	2002-053-00 EXP ASSESS SALMONIDS ASOTIN CR WS

Viewing 18 of 18 Work Statement Elements Last Modified: Russell Scranton, 12/28/2022

Customize Save Copy

Select	Sort Order	WSE ID	WE ID	Work Element Name	Title	Description	MS	M	L	F	EC	RM	WE Budget
<input type="checkbox"/>													
<input type="checkbox"/>	A	171365	185	Produce CBFish Status Report	Periodic Status Reports for BPA	The Contractor shall report on the status of milestones and	4						\$500
<input type="checkbox"/>	B	171366	119	Manage and Administer Projects	Project Implementation Management and Contract Administration	This work element includes the administrative and technical	11						\$19,300
<input type="checkbox"/>	C	171367	165	Produce Environmental Compliance Document	Environmental Compliance Documentation and Clearance	The statement of work for this project includes activities that	13	●					\$4,000
<input type="checkbox"/>	D	171368	132	Produce Progress (Annual) Report	2022 Annual Report - January 2022 - December 2022	WDFW will continue work to finalize the 2022 Annual Report	3	●					\$13,500
<input type="checkbox"/>	E	171369	132	Produce Progress (Annual) Report	Draft 2023 Annual Report	WDFW will begin to prepare a DRAFT 2023 Annual Report	2	●					\$5,000
<input type="checkbox"/>	F	171370	157	Collect/Generate/Validate Field and Lab Data	WDFW Asotin Creek Adult Steelhead Data Collection: Weir Operation	Collect data to estimate the abundance, productivity, survival	7	●		●	●	●	\$99,023
<input type="checkbox"/>	G	171371	162	Analyze/Interpret Data	WDFW Asotin Creek Steelhead Adult Population Escapement, Abundance & Distribution	Provide adult steelhead weir escapement estimates for the	3	●		●		●	\$10,000
<input type="checkbox"/>	H	171372	157	Collect/Generate/Validate Field and Lab Data	WDFW Asotin Creek Juvenile Steelhead Data Collection: Rotary Screw Trapping (Smolt T	Collect data to estimate the abundance, productivity, survival	7	●		●	●	●	\$66,750

# BPA Contract Process : RM&E Metadata – (RM)

For RM&E Work Elements 156, 157, & 162, metadata is documented in MonitoringResources.org

- This means documentation of Protocols, Methods, Study Plans, & Sample Designs are all documented in MonitoringResources.org

Study Plan: [Asotin Adult Sampling and Analysis \(2002-053-00\) v1.0 \(ID: 637\)](#)  
Protocol: [Asotin Adult Sampling and Analysis\(2002-053-00\) v1.0 \(ID: 295\)](#)  
Sample Design

Sample Design	ID	Name
	6275	WDFW Asotin Creek Adult Steelhead Data Collection: Weir Operation - Washington Department of Fish and Wildlife (WDFW) v1.0

*\*To find out more information about which sampling sites occur in which years, you can view the sample sites and sampling schedule on the Sample Design in Monitoring Resources by clicking [here](#).*

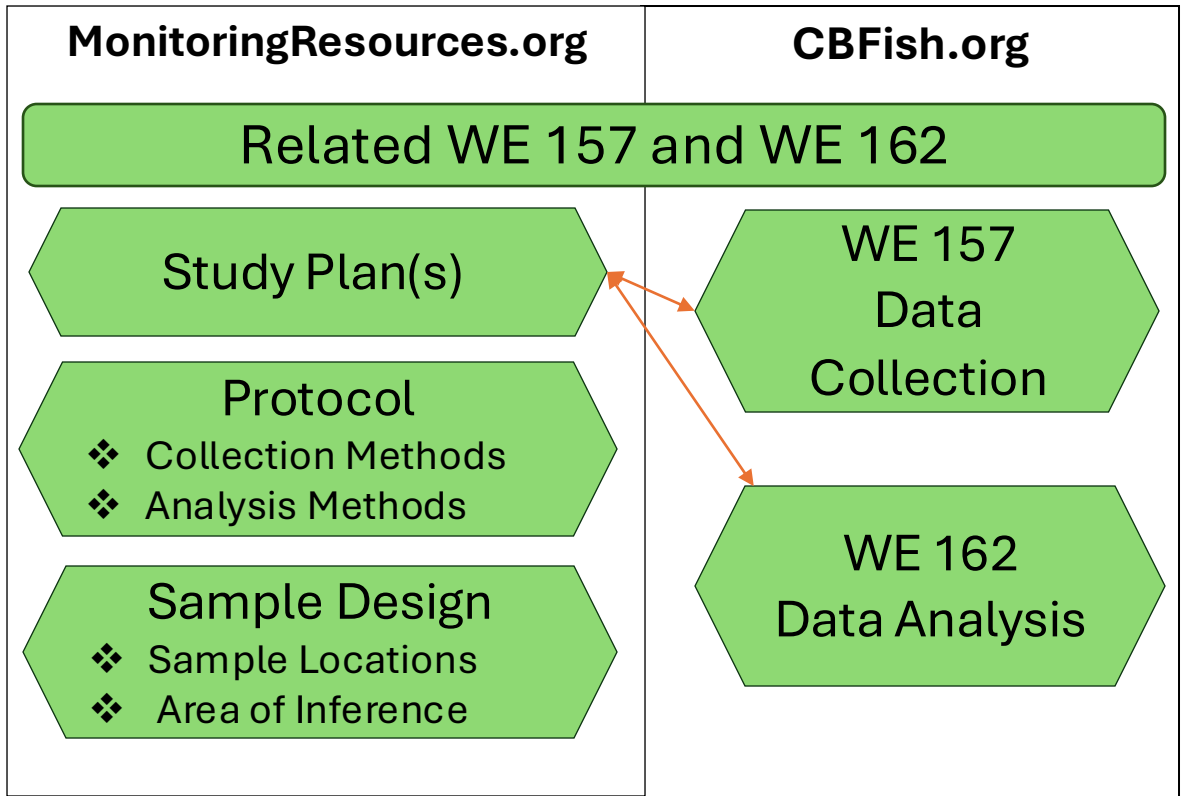
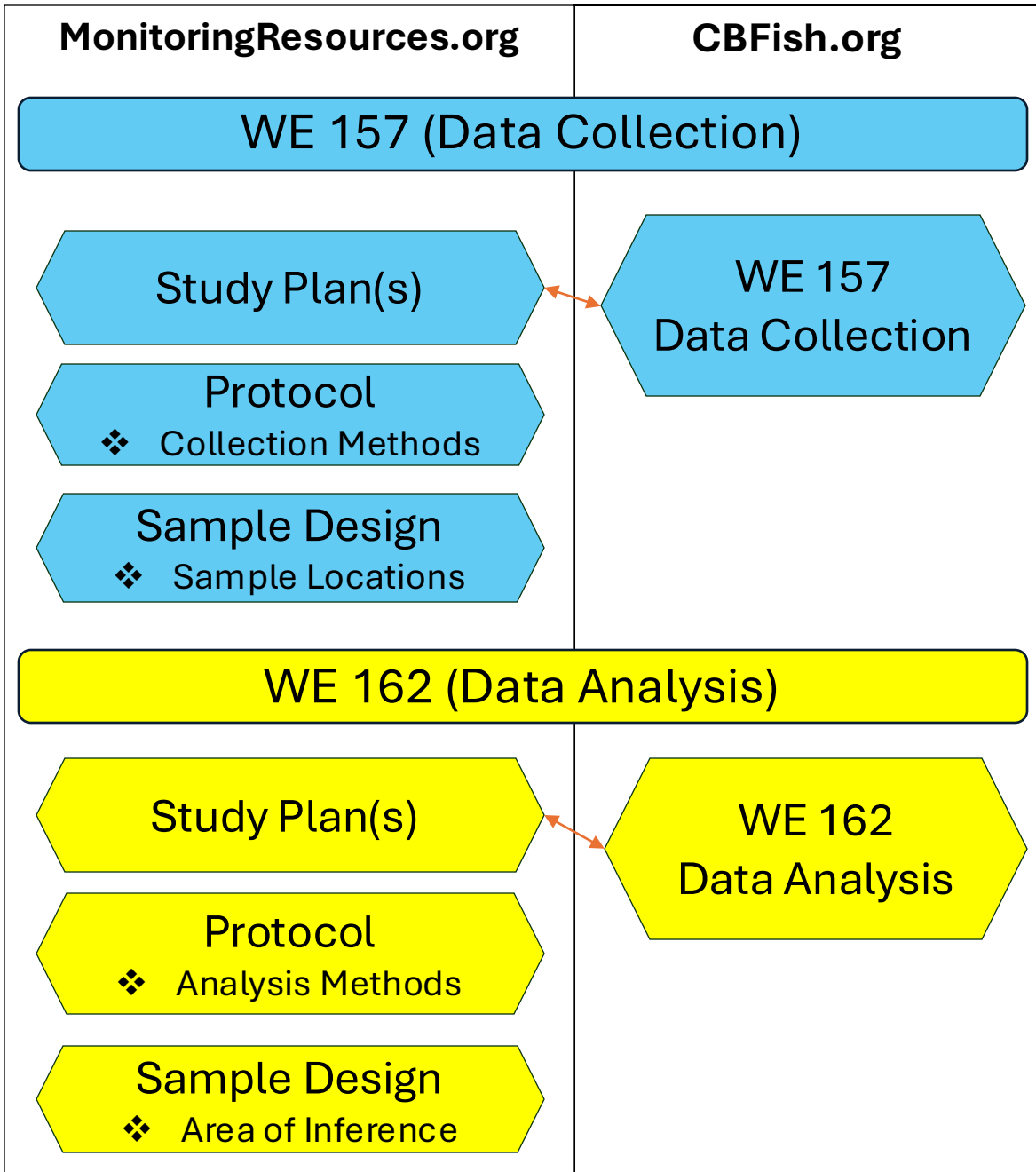
Select which Calendar Year to determine WorkElement Locations from:

- 2018 (4 location(s))
- 2019 (4 location(s))
- 2020 (4 location(s))
- 2021 (4 location(s))
- 2022 (4 location(s))

Location data is now entered in [MonitoringResources.org](#). You can add locations to your [sample design there](#).

Data Repositories - The following list represents all data repositories associated to this sample design.

- PTAGIS Website
- Fish Monitoring (SN Trends)
- Fish Inventory System
- Spawning Ground Survey Database (SGS)
- WDFW Genetics Unit Database



MonitoringResources.org  
& CBFish.org  
WE Relationships

## Data

### Data

+ Coordinated Assessments

Local Scale Data

Data Store

Maps and GIS Data

+ Habitat Evaluation Procedures (HEP)

Protected Areas

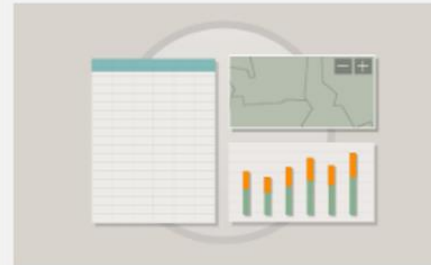
### Coordinated Assessments



High level indicators of fish population health:

- Abundance estimates
- Survival rates
- Recruits per spawner
- Proportionate natural influence

### Local Scale Data



Summarized, local-scale data that closely resemble data as originally collected in the field:

- Abundance indexes and estimates
- Hatchery returns
- Harvest

An Access version is available here.

### Data Store



### Maps and GIS Data



# Connecting the Data with the Metadata

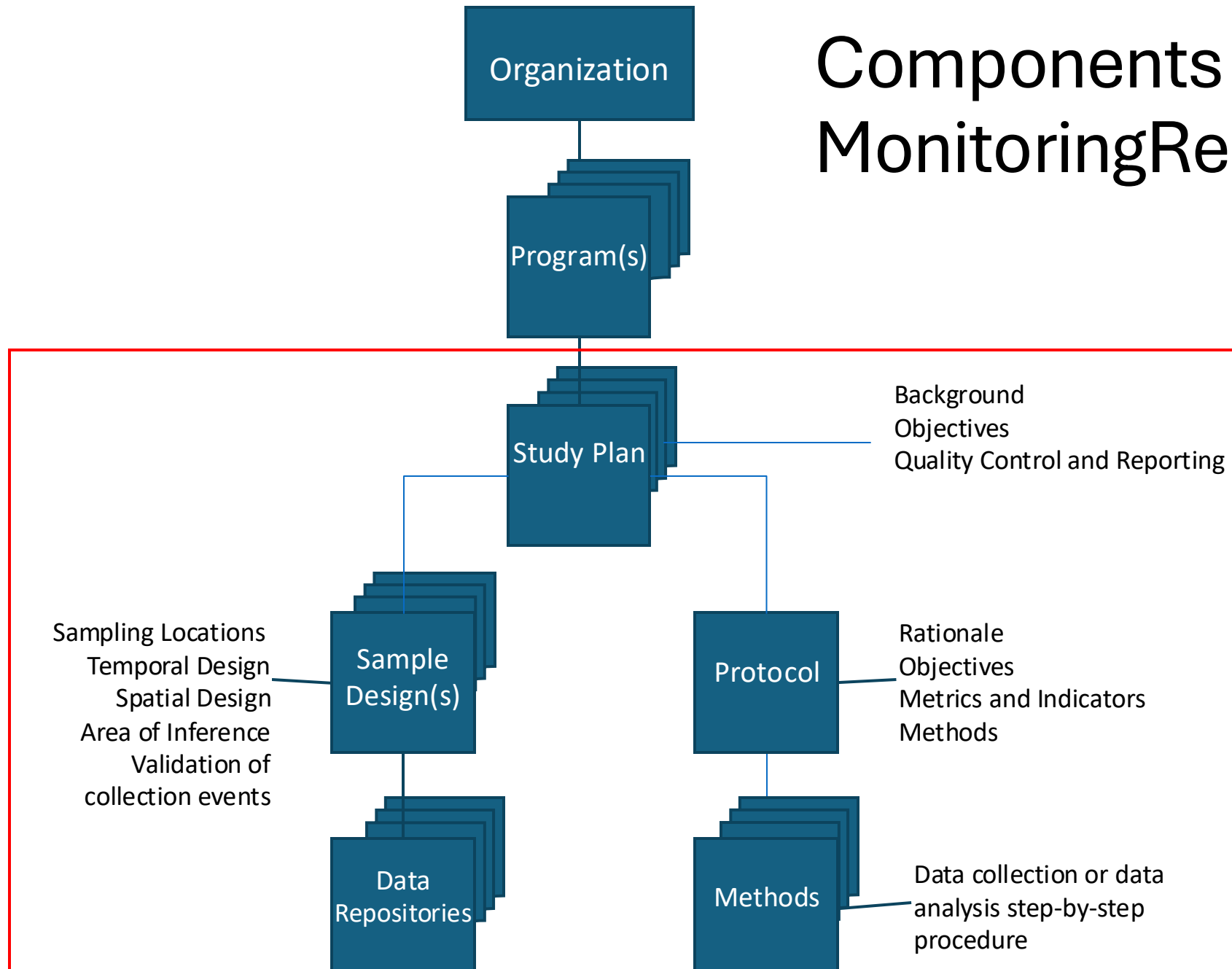
WE deliverable:  
“An accessible, error-checked dataset with metadata”

## Publishing Data via StreamNet Requires Metadata

- Coordinated Assessments Exchange (CAX)
- Trends Data
- Data Store

<https://www.StreamNet.org>

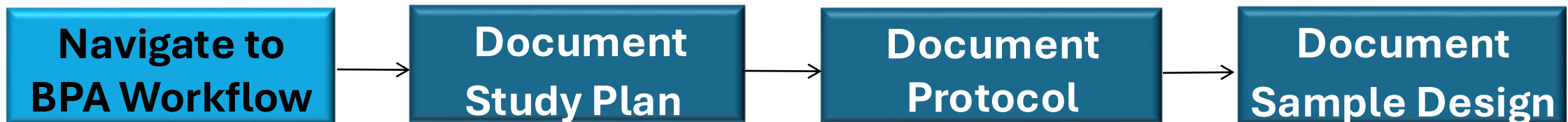
# Components of MonitoringResources.org



Documentation of metadata using the **BPA Workflow** allows users to document all the required fields in a BPA contract (Study Plan, Protocol, Sample Design(s)) in one user friendly workflow.

# Documentation Using the BPA Workflow

1. In MonitoringResources.org, contractors will navigate to the BPA Workflow Documentation
2. Create a Study Plan and **link** to an existing Protocol  
**OR...**
3. Create a Study Plan and **create** a new Protocol
4. Create One or Multiple Sample Designs



After completing the documentation, users then perform their field work. Then, after performing field work for the season or the year, they should return to their sample design to revise planned locations to **validate the actual locations** that they sampled, for the dates they sampled, and add post-implementation notes about each site sampled.

# Live Tutorial: MonitoringResources.org

Welcome Andy \* [Log Out](#) [Help](#)

Search



**Monitoring Resources**

sponsored by: [pacific northwest aquatic monitoring partnership](#)

[HOME](#) | [PORTFOLIO](#) | [CREATE & FIND](#) | [STUDY PLAN SUMMARY](#) | [MONITORING EXPLORER](#) | [COMMUNITY](#) | [LEARN](#)

Document and share your methods and protocols.  
Plan your study plans and sample designs.  
Track your monitoring locations.

[DOCUMENT](#)

Discover other's monitoring locations.  
View monitoring metadata and data repository.  
Export maps and spreadsheets of metadata.

[DISCOVER](#)

# Monitoring Resources

>Learn

>Training Resources

## Training Resources

Click any of the following training resources to learn about protocols, methods, sample designs, and more.



### [Adding a Colleague in MonitoringResources.org](#)

A quick tutorial on how to add colleagues in MonitoringResources.org to help you collaborate on draft content or review draft content.

Learn how to add collaborators or reviewers



### [BPA Workflow - MonitoringResources.org Orientation](#)

This training focuses on some of the new, simplified, more efficient tools in Monitoring Resources aimed to help users document all components of their BPA contracts. It also helps orient users on how and where to get started when documenting their metadata.



### [BPA Workflow Navigation and Guidance](#)

Guidance concerning the documentation of Study Plans, Protocols, and Sample Designs using the BPA Workflow in MonitoringResources.org.

The BPA Workflow allows users to document all their metadata requirements for BPA contracts with work elements (WE) 157 and 162 in one seamless and user friendly workflow on MonitoringResources.org.

Last updated January 21, 2024.

LEARN

About

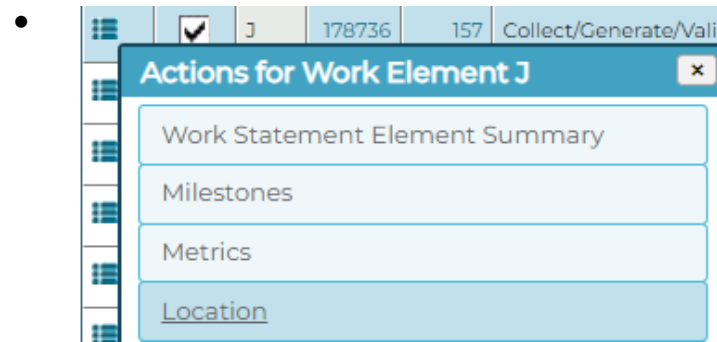
FAQ

Glossary

**Training Resources**

# Additional Information/Tips:

- The Comprehensive view of the Study Plan, Protocol, and Sample Designs can be found in the **Study Plan Summary**
- Location information in the SOW is supplied from the Sample Design and while it doesn't have a moon on the SOW grid, you can select location from the context menu on CBFish



- The Protocol and Study Plan Background , Rational, and Objectives should match **WE description**
  - Tip: If the description of the WE is “Conduct monitoring” consider copying background into the SOW WE description
- As a COR you should ensure the protocol and WE descriptions are consistent
  - Tip: If descriptions are inconsistent, contact BPA RM&E Staff

# Contact Information and Resources

## For Content MR Help:

- Contact the Monitoring Resources team at:
  - [gs-monitoringresources@usgs.gov](mailto:gs-monitoringresources@usgs.gov)
- Resources for MonitoringResources.org
  - Training Resources – Videos & Guidance Documents  
<https://www.monitoringresources.org/Resources/Training/Index>
  - FAQ Page:  
<https://www.monitoringresources.org/Resources/Home/FAQ>
  - BPA Workflow Guidance Document:  
<https://www.pnamp.org/document/15264>



## For CBFish Content Help

- Resources for Bonneville Power Administration Project Sponsors
  - RM&E Project SME: (see project contact)
  - RM&E Implementation Lead: Brady Allen
  - Email support: [rmesupport@bpa.gov](mailto:rmesupport@bpa.gov),

