



# PNAMP Quarterly Status Report

## January – March 2024

### Coordinated Assessments Partnership & HCAX Project

#### Accomplishments

- Provided support for StreamNet Steering Committee meeting

#### In Progress

- New project initiated in collaboration with PSMFC StreamNet to support PNAMP's ongoing work for refining MonitoringResources.org to facilitate connecting methods/protocols/study plans to data sets in StreamNet systems and other systems. This project will engage our Canada DFO colleagues to scope approaches to improve protocol/methods discovery by leveraging the new DFO MASS tool, including evaluating the potential for the MASS tool to improve discovery of protocols/methods and facilitate further documentation in MonitoringResources.org
- The final HCAX workshop is planned for May 21, 2023 and will provide:
  - a brief recap of HCAX progress to date
  - an overview of HCAX data standard development and implementation testing
  - discussion of query system to retrieve data from HCAX
  - review of the updated Data Use Agreement
  - discussion of any remaining tasks and when we can expect to data published
  - planning for future tasks: check-in with data consumers to inform further refinements for analysis and reporting needs
- One of the highest priorities identified at the 2023 CAP Workshop is to review and update as needed the terms and definitions that underpin the Data Exchange Standards (DES) in use for CAP and StreamNet data sharing systems. We are collaborating with partners from Fisheries and Oceans Canada to develop a shared ontology for salmon data terms and definitions.

### Coordination and Communication

#### Accomplishments

- Completed the January, February and March PNAMP newsletters
- Published the 2023 PNAMP Annual Report

#### In Progress

- Developing the PNAMP April, May, June newsletters

### CRBRP Toxics Monitoring Subgroup (TMS)

#### Accomplishments

- February 29, 2024 Toxics Monitoring Subgroup Meeting; Link to [materials on EPA website](#).
  - 51 participants from state, tribal, federal, and other organizations
  - At the meeting, we discussed a process to select Columbia Basin wide screening values for contaminants, featured three lightning talks from subgroup members, and shared online resources that are available for current and future EPA grantees for help with QAPPs, WQX, and more.
  - A link to the meeting recording is available by request.

## In Progress

- The TMS Core Team continues to meet every other week to plan and prepare for quarterly Toxics Monitoring Subgroup Meetings and make progress on tasks.

## Emerging Technologies Information Sessions

### Accomplishments

- Put together a collaborative ETIS Planning Team with team members from 7 different organizations (BPA, CRITFC, IDFG, ODFW, PSMFC, USGS, and WDFW) to help coordinate, organize, and moderate the 2025 Emerging Technologies Information Sessions Webinar Series
  - The ETIS Planning Team met three times: January 31, 2024, February 28, 2024, and March 27, 2024
- Created an ETIS project page on PNAMP.org

### In Progress

- Developing a distribution list for outreach and feedback
- Preparing and sending out a survey to past ETIS participants to gauge their interest in ETIS topics and determine the best timing/schedule for the webinar series
- Creating a list of potential presenters and presentation topics
- Drafting a save the date message, which will include date, time, location, web series objectives, and a brief description of ETIS

## Fish Monitoring Work Group

### Accomplishments

- On January 18, 2024, the full work group convened for updates on tasks and a Tech Talk from Ralph Lampman, the Lamprey Project Lead for Yakama Nation Fisheries. Ralph highlighted the extensive work being done to support of his lamprey research and restoration in his talk titled "Passage, Predation, Contamination and Supplementation: The Importance of Collaborative and Creative Research in Restoring Pacific Lamprey." ([meeting recording](#))
- Marika Dobos, Idaho Department of Fish and Game, gave a presentation on the PNAMP Fish Monitoring Working Group's PIT Tag Array Data and Related Data Analyses task during the PTAGIS Workshop, held from January 30-February 1 in Stevenson, WA ([workshop presentations and posters here](#))
- Presented at the StreamNet Steering Committee meeting on February 20-21, 2024 and contributed updates on FMWG collaborative tasks PNAMP and StreamNet manage together ([meeting presentation deck](#))
- The FMWG Core Team met in January, February, and March to plan and coordinate future work, discuss task progress, and develop agenda for April meeting

### In Progress

- Planning for FMWG Quarterly Meeting (April 18, 2024)
- Coordinating a symposium for a PNAMP, StreamNet, Fisheries and Oceans Canada-hosted symposium at the 2024 WA/BC and Idaho Chapter Annual Meeting (April 29-May 2, 2024)
- Developing work plan for feedback received at the PTAGIS workshop for PIT task
- A Terms and Definitions task created from feedback received at the 2023 CAP Workshop is under development
- The Carrying Capacity draft paper has been edited, figures established, and flow and tone are being adapted by co-authors
- Juvenile Density (Snorkel and Electrofishing) is being summarized and will be concluded in April

## Intensively Monitored Watersheds Forum

### Accomplishments

- The 2024 River Restoration Northwest Symposium session entitled “Key Results from Intensively Monitored Watersheds: Incorporating Lessons Learned into Restoration Programs and Project Design” was held February 7 in Stevenson, WA. The session, co-organized by PNAMP, featured a poster by Kasey Bliesner (ODFW) and oral presentations by Robert Bilby (Science Advisory Panel, SRFB), Eli Asher (WA GSRO), and Stephen Bennett (Utah State University).
- Assisted Laura Weatherly (Fisheries and Oceans Canada) in organizing a virtual workshop entitled “Lessons Learned in Salmon Habitat Restoration from Intensively Monitored Watersheds of the Pacific Northwest.” The workshop, held March 26, focused on Washington state IMWs and featured presentations by Robert Bilby (Science Advisory Panel, SRFB), Correigh Greene (NOAA Fisheries) and Mike LeMoine (Skagit River System Cooperative), Joseph Anderson (WDFW), Stephen Bennett (Utah State University), Jamie Lamperth (WDFW) and Eli Asher (WA GSRO), and George Pess (NOAA Fisheries) and included two panel discussions.
  - Workshop details and recoding here: <https://psf.ca/knowledge-exchange-workshop-intensively-monitored-watersheds/>

### In Progress

- Assembling core team to help plan a virtual IMW workshop for the fall

## [MonitoringResources.org](https://MonitoringResources.org)

### Accomplishments

- Reviewed, provided feedback, and finalized 3 methods from January 1st – March 31st, 2024
- Reviewed, provided feedback, and finalized 1 protocol from January 1st – March 31st, 2024
- Finalized the development work on the MonitoringResources.org and MonitoringExplorer.org tune-up
  - Monitoring Explorer API – Configuration and Library Update
  - Monitoring Resources Site – Configuration and Library Update
- Finalized the development work cleaning up the user interface (UI) and streamlining the functionality of the “Actual” data event documentation in the Sample Design tool
  - Updated the UI for Validating Data Collection Events
  - Allow for the deletion of uploaded data collection events
- Finalized the development work reducing the duplication of effort in the BPA Workflow
  - Provide the ability to add existing protocols to the top of the Study Plan documentation in the BPA Workflow and give the option to autofill background and objectives
- Updated metric and indicator categories and subcategories and added new metrics to the Monitoring Resources metric library per the request of CA DWR
  - New metrics - "Cyanobacteria: ABUNDANCE", "Cyanobacteria: PRESENCE/ABSENCE", "Cyanobacteria: TAXON", "Contaminants/Toxics/Pollutants: MICROCYSTIN", "Contaminants/Toxics/Pollutants: CYLINDROSPERMOPSIN", "Contaminants/Toxics/Pollutants: ANATOXIN", "Contaminants/Toxics/Pollutants: SAXITOXIN"
- Met with BPA staff to walk through and discuss MonitoringResources.org development progress in FY24 and prioritize future development
- Coordinated biweekly meetings with ESA Sitka to discuss current and future development
- Provided one-to-one guidance and assistance to MonitoringResources.org users at CA DWR, USGS, PSMFC, and NOAA

### In Progress

- Started a new project in collaboration with PSMFC StreamNet and Canada DFO to support PNAMP’s ongoing work for refining MonitoringResources.org to facilitate connecting methods/protocols/study plans to data sets in StreamNet systems and other systems.
  - See above – the Coordinated Assessments Partnership for more detail
- Preparing a presentation for the Idaho WA/BC AFS conference on connecting MonitoringResources.org to published data using large language models to preserve the data lifecycle
- Assisting project sponsors interested in MonitoringResources.org guidance with one-to-one webinar sessions

- Developing a clearer association between methods and metrics and using these metric associations to assist with metadata discover via cluster models and key word search
- Creating a more user-friendly Monitoring Explorer with better search functionality and updated layers
- Documenting existing and established methods not yet present in MonitoringResources.org
- Updating layers in MonitoringResurces.org and the Monitoring Explorer map to align with NPCC
- Creating a tutorial video on how to validate actual sampling locations
- Creating a help video on how to copy/paste equations and special characters from GitHub into Monitoring Resources.
- Investigating connections between MonitoringResources.org and the Salmon Data Discovery Tool and SalHub
  - Exploring the creation and use of ontologies

### **Outstanding Issues**

- Putting together a virtual MonitoringResources.org training/orientation walking through the BPA Workflow for CORs
- Creating a “Getting Started” module for MonitoringResources.org guiding new users on the best approach to documenting their metadata
- How do we link the Study Plan Summary to other regional data systems?
- How do we simplify the process for users to enter information in MonitoringResources.org?

## [Steering Committee Meeting Series](#)

### **Accomplishments**

- Set a date for the collaborative StreamNet Executive Committee and PNAMP Steering Committee meetings to be held November 6-7, 2024

### **In Progress**

- Planning for mid-year Steering Committee meeting initiated