Northeast Oklahoma Tribal Collaborative Effort

2014 Exchange Network National Meeting
February 26, 2014

Sheraton Society Hill Hotel
Philadelphia, Pennsylvania

Presenters

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Environmental Specialist
Eastern Shawnee Tribe of Oklahoma

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Business Manager
Wind Environmental Services

Background

- Nine tribes in Ottawa County are all collecting water quality data.
- In 2009, the tribes had a meeting to discuss ways to make the data more available to identify water quality concerns.
- A data exchange group was formed between the Eastern Shawnee Tribe, Wyandotte Nation, Peoria Tribe of Indians of Oklahoma, Seneca-Cayuga Tribe, Miami Tribe, and Ottawa Tribe.

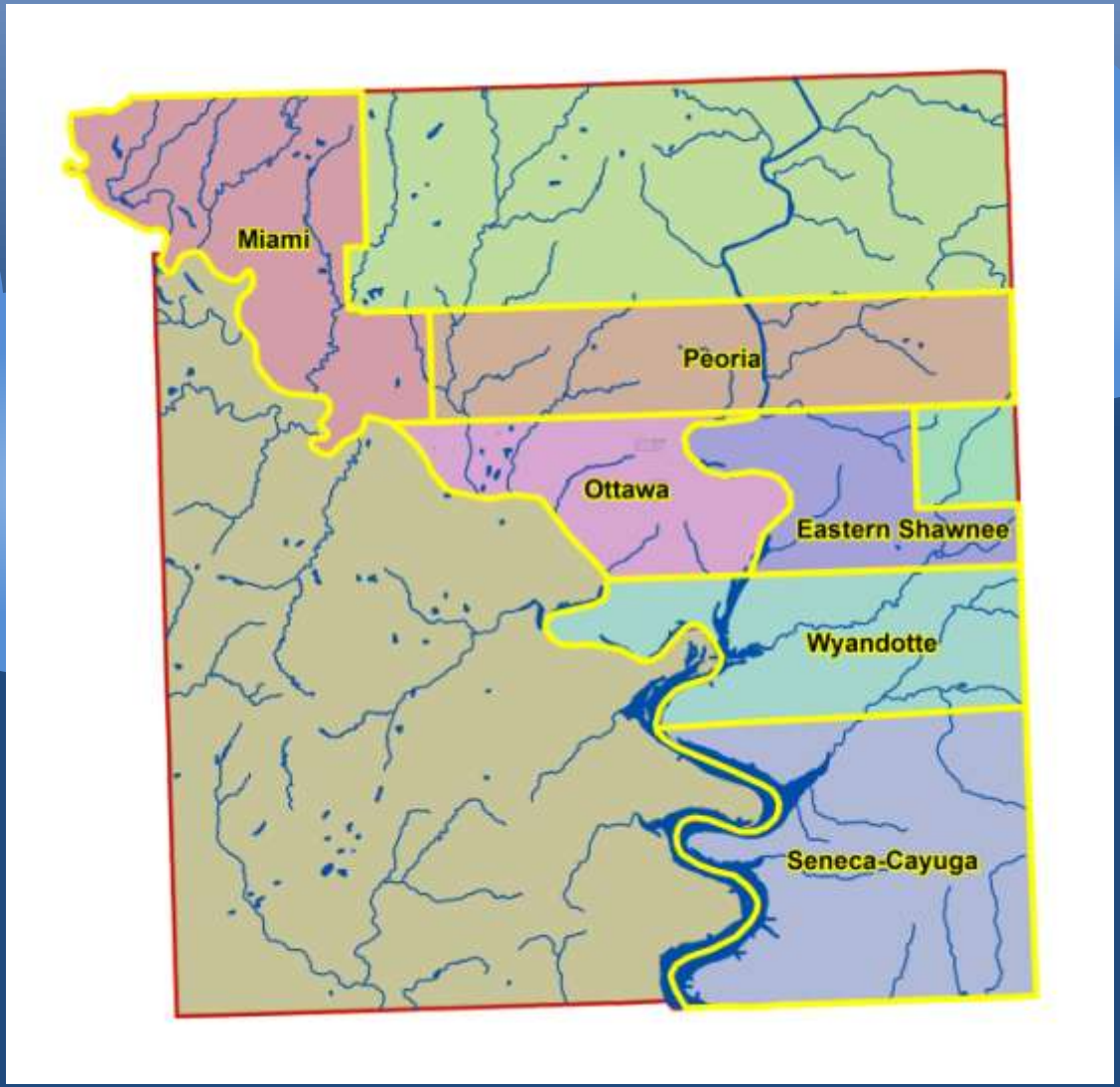
Background

- The Data Exchange group was formed to get a broader view of concerns within the watershed.
- What good is the data we collect if nothing is being done with it?
- We discussed similar sampling methods so the data is not skewed, with limitations because not every Tribe has the ability to sample the same.
- Theoretically, all the Tribes download the water quality data into STORET. With the data exchange, the Tribes can view each others data and create a model to identify pollution points upstream and downstream.
- As a result of the discussions, the group decided to apply for an EPA Data Exchange Grant.

Project Location

Located In NE Oklahoma

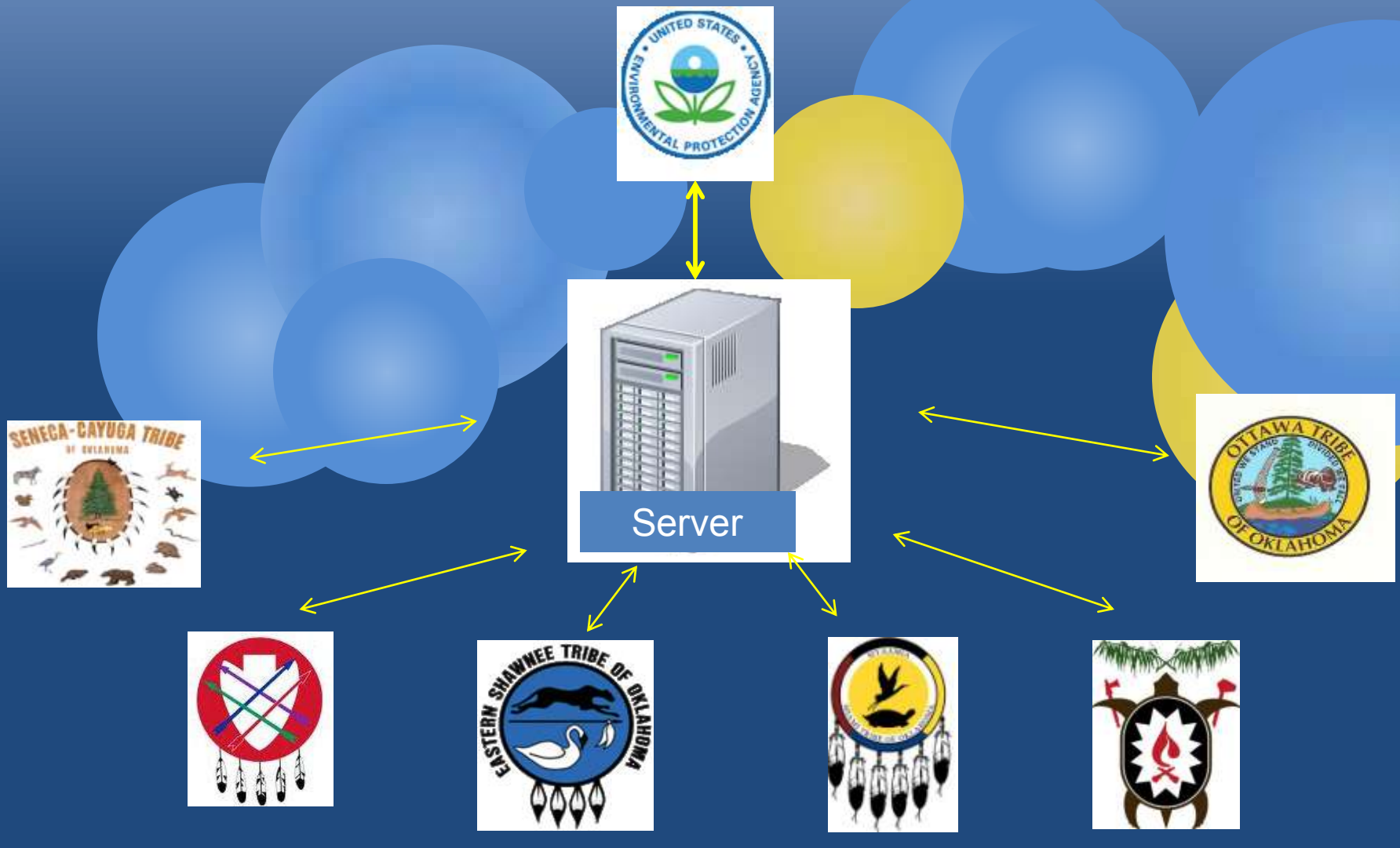
Project Location



Exchange Network Grant

- The Eastern Shawnee Tribe acted as the lead Tribe and applied for a Data Exchange grant through the EPA in 2010.
- This grant was written to acquire funds to set up the node for information sharing and modeling of water quality data.
- The initial grant was awarded in 2011 and the initial web application was developed and is now in production allowing partner Tribes to more effectively share information amongst partners but also to more effectively submit information to Storet.
- Based on the initial success of the project a second grant has been applied for to expand the capabilities of the Tribal collaborative project. Adding additional capabilities as well as additional parameters to the initial web & mobile applications.

Northeast Oklahoma Tribal Data Exchange Application



The Exchange Node Technical Details

- The node is based on the node 2.1
- Currently is capable of exchanging WQX data flows
- Application is built on the Microsoft .NET platform
- Database is Microsoft SQL Server 2008
- GIS capabilities are built on Esri ArcGIS Server 10.2.1
- Public side web site is build using php and joomla CMS

Public Information Site

The public side of the site is designed as a landing page for the node and is open to the public for viewing. This allows for outreach to the community and for member Tribes to post information and up coming meeting information.

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Welcome

This site is a collaborative effort of six Tribes located within Ottawa County in Northeast Oklahoma

Current Intertribal Projects

- EPA Data Exchange Network Project
- National Tar Creek Conference

> *Working together as neighbors allows us to more effectively protect our communities from environmental hazards...*

Participating Tribes

- Eastern Shawnee Tribe
- Wyandotte Nation
- Ottawa Tribe
- Seneca Cayuga Tribe
- Peoria Tribe
- Miami Nation

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Member Tribes Login

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NEOK Tribal Environmental Events Calendar

March 2013 | Print | Week | Month | Agenda

Sun | Mon | Tue | Wed | Thu | Fri | Sat

Participating Tribes

- Eastern Shawnee Tribe
- Wyandotte Nation
- Ottawa Tribe
- Seneca Cayuga Tribe
- Peoria Tribe
- Miami Nation

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EPA Environmental Exchange Network

Environmental Information: exchange Network

The Exchange Network is a partnership among States, Territorie
Protection Agency that is revolutionizing the exchange of servic

The Exchange Network is a partnership first envisioned in 1998.

We are representatives from States, Tribes, Territories, and EP
high-quality environmental data. Through our primary dec
Leadership Council and the Network Operations Board, al
administration of the Network, basing decisions on collaborative

As environmental decision makers, we recognize that today's
and the environment by improving the way we share and u
revolutionized the exchange of that information by providing se

With higher-quality, more accessible data, we're able to make
And better decisions lead to better outcomes.

Together, we are remaking the way our agencies exchange envi
a way that benefits both our nation and our environment.

The Water Quality Exchange (WQX) allows Network Partners t
As the primary framework for sharing data at the national le
Warehouse, WQX replaces the distributed STORET database.
distributed STORET database in September 2008.

For information on the Northeast Oklahoma Tribal Exchange N
presentation. This was presented the past August 2012 at the IT

NEOK Exchange Network Presentation

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NEOK Tribal Environmental Programs GIS BaseMap

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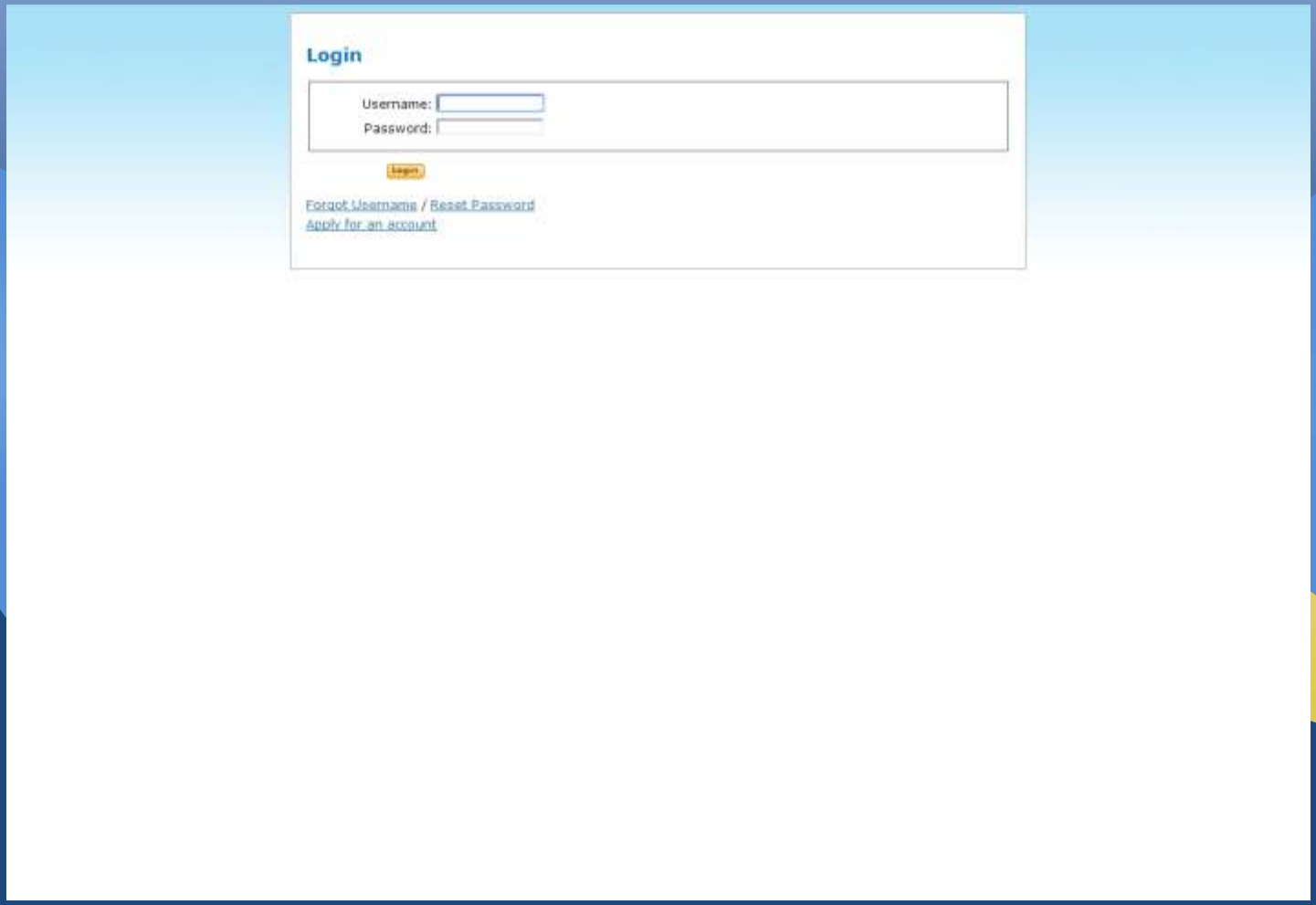
Members Section of the Site (aka the node)

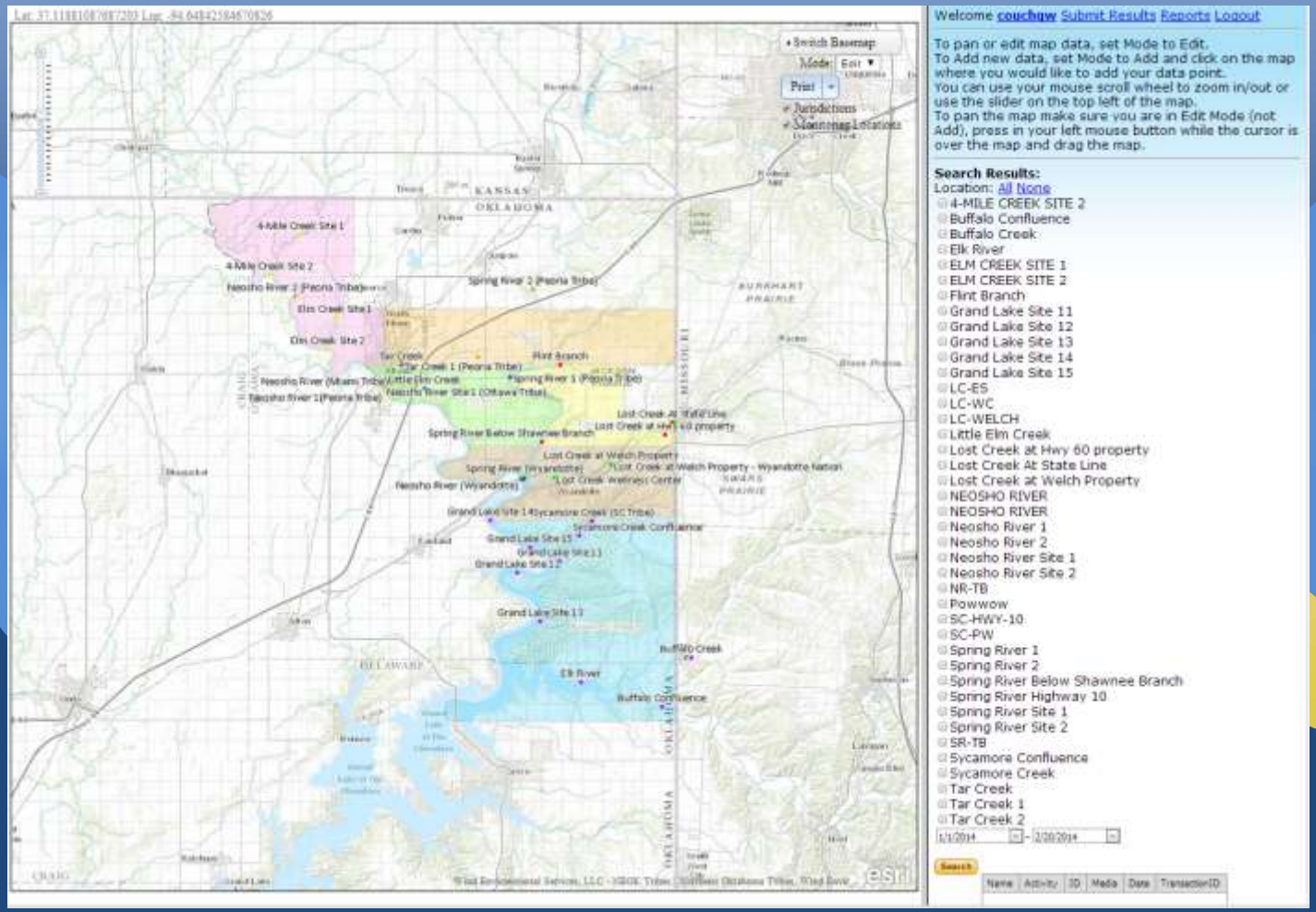
This section of the site is where member tribes can enter data view data, submit information to EPA Storet, run reports, and ultimately run analytical processes on the data.

Member tribes login screen



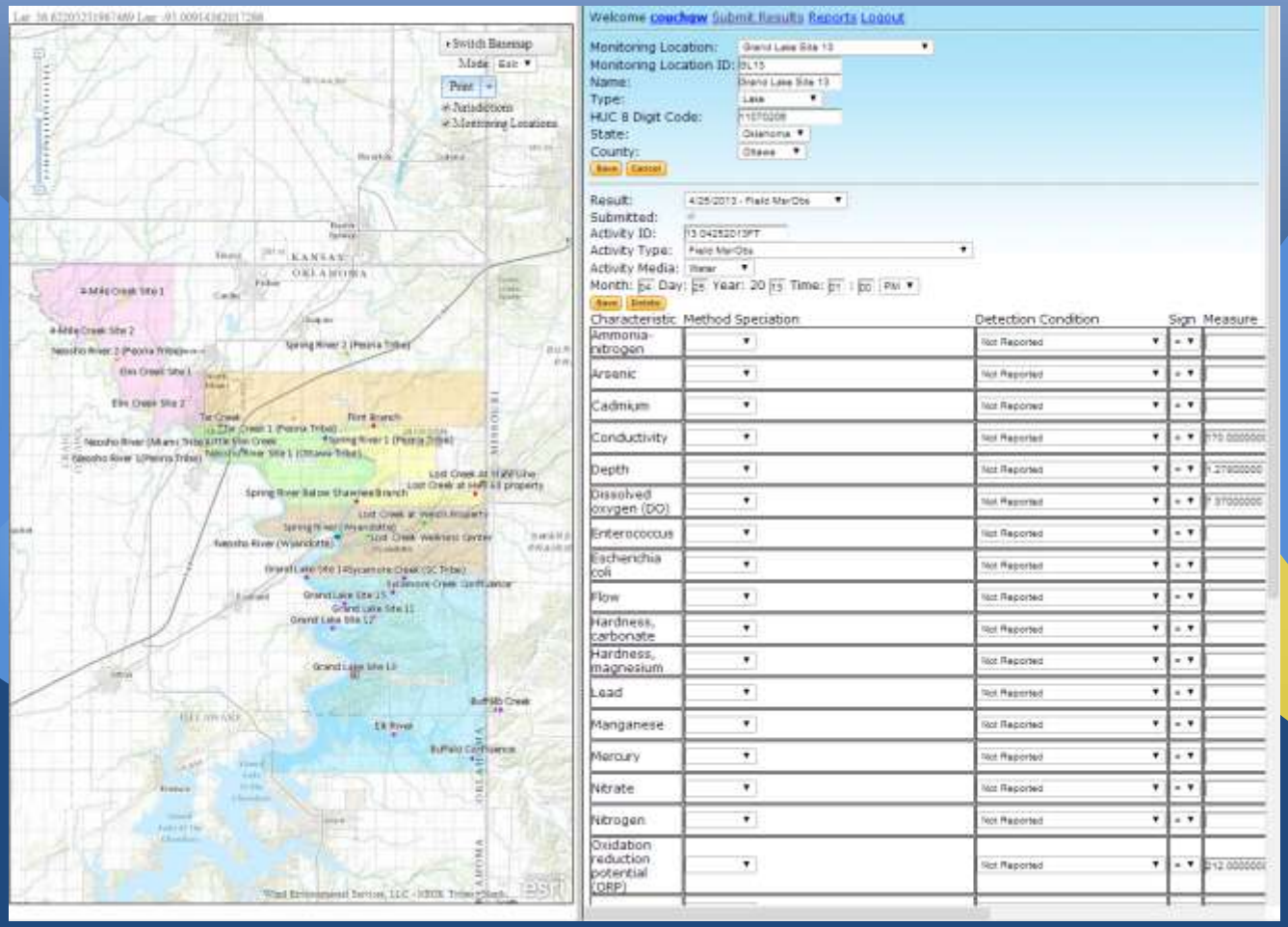
Each staff member has their own unique login and privileges

Sample site selection menu / map



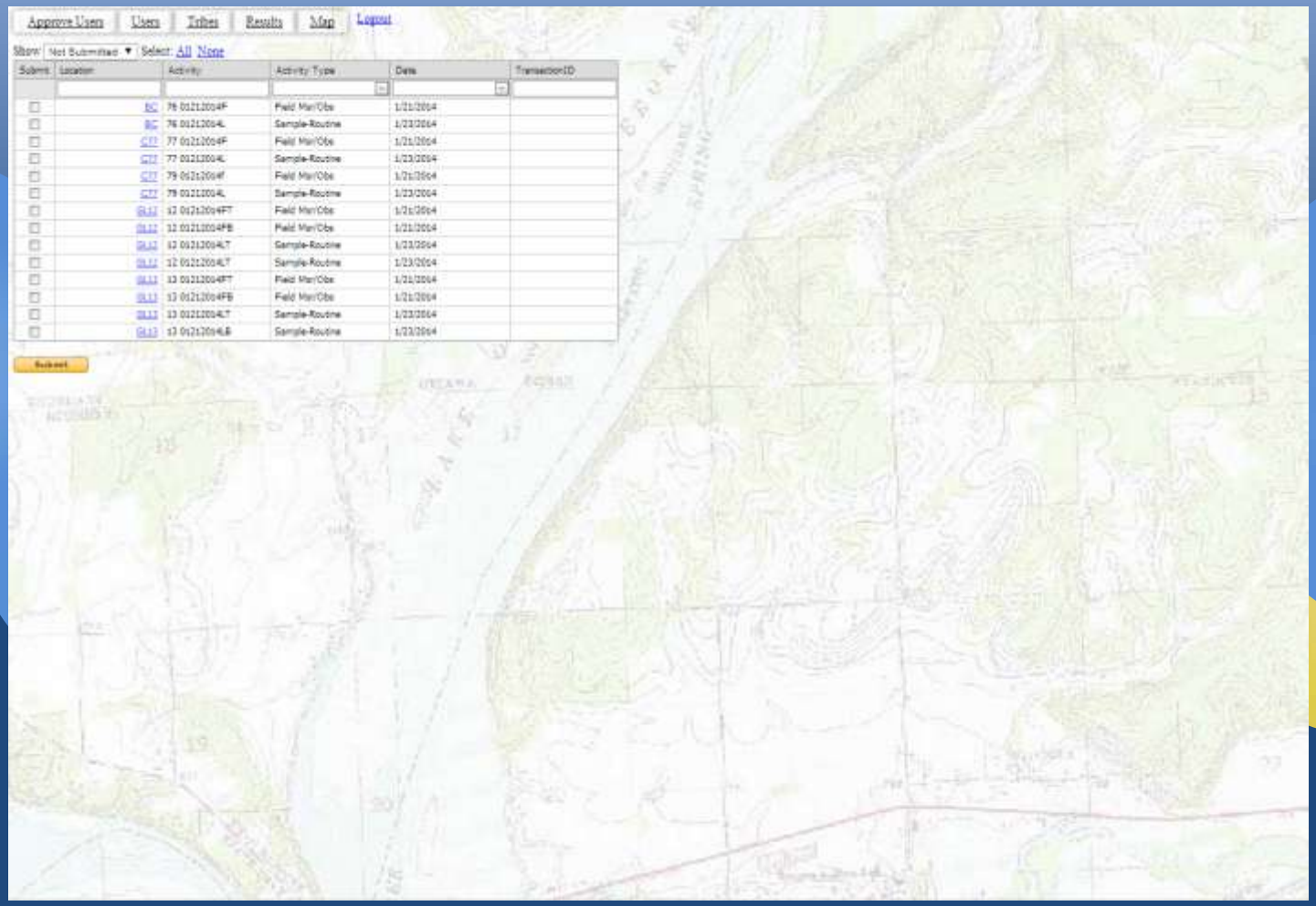
Tribal staff can select sites by clicking the map or selecting the site in the locations list
Member tribes can view information submitted by other member tribes (if allowed) but can only edit & submit their respective Tribes data

Sample result entry screen



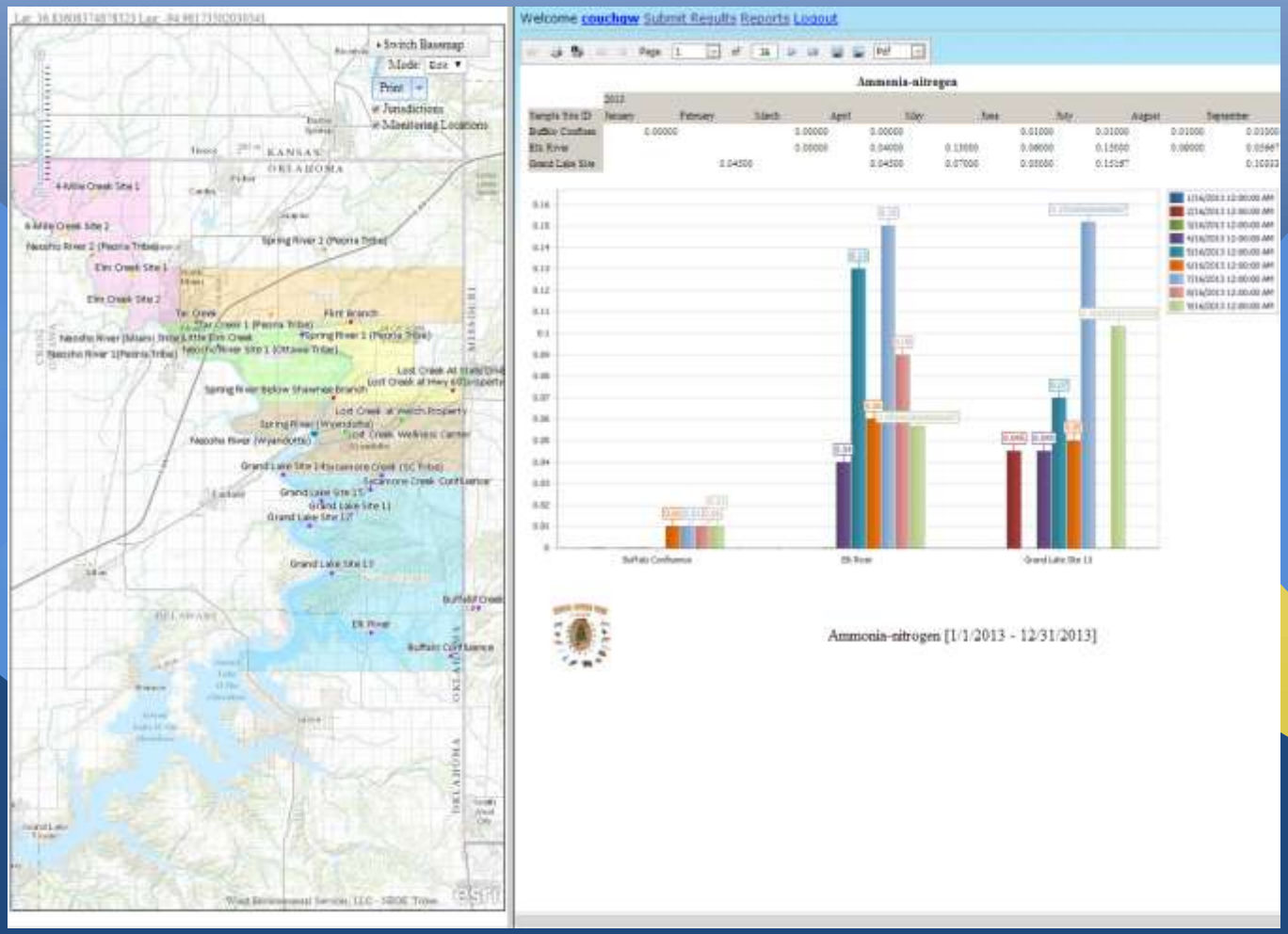
Tribal staff enter and store sample results into the system through this interface

Sample result submittal / Tribal Admin page



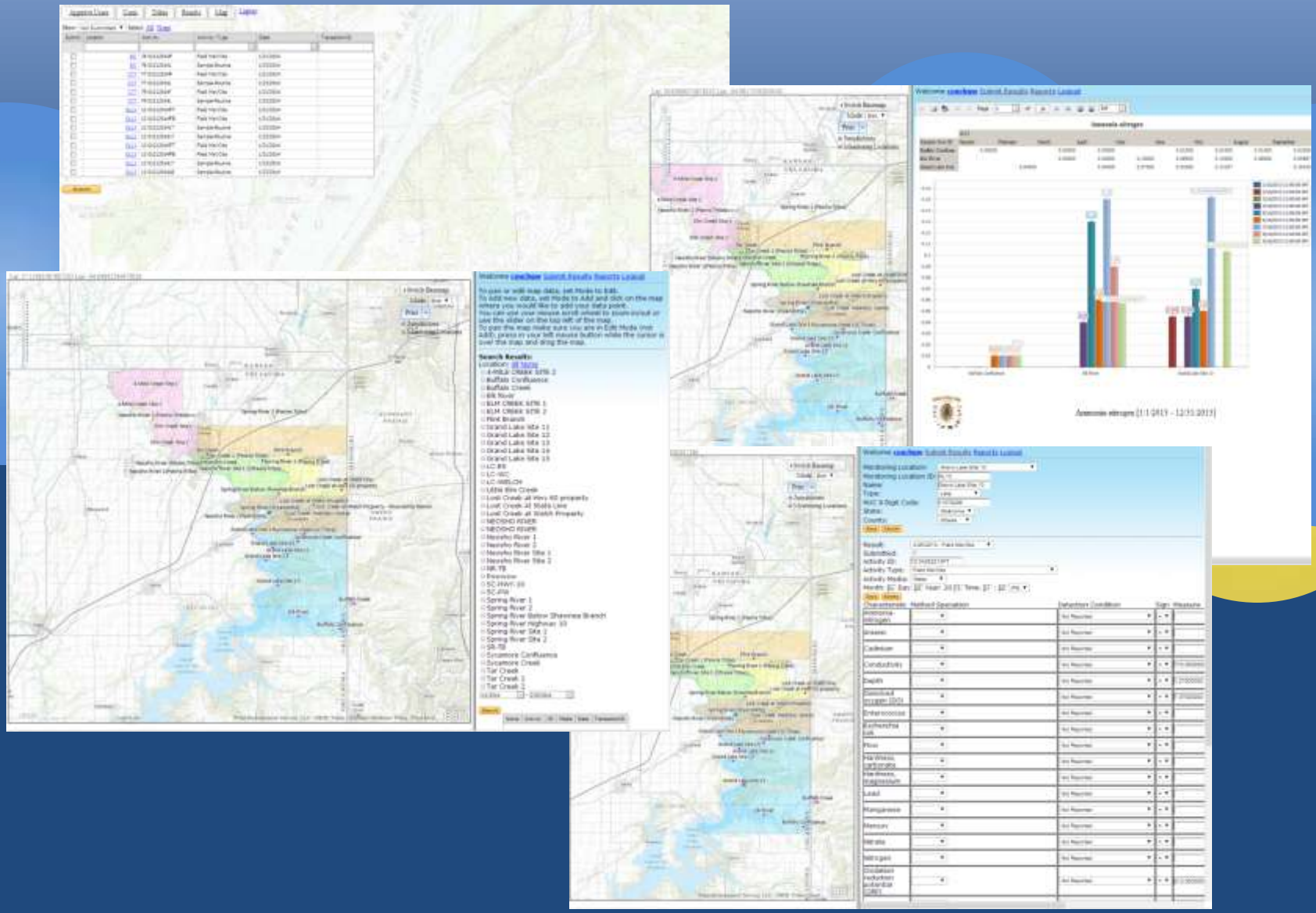
Tribal admin staff can submit results to EPA Storet, approve new users (within their Tribe), set which member Tribes can view their data, and Update Tribal information

Generating reports, graphs, and trend analysis

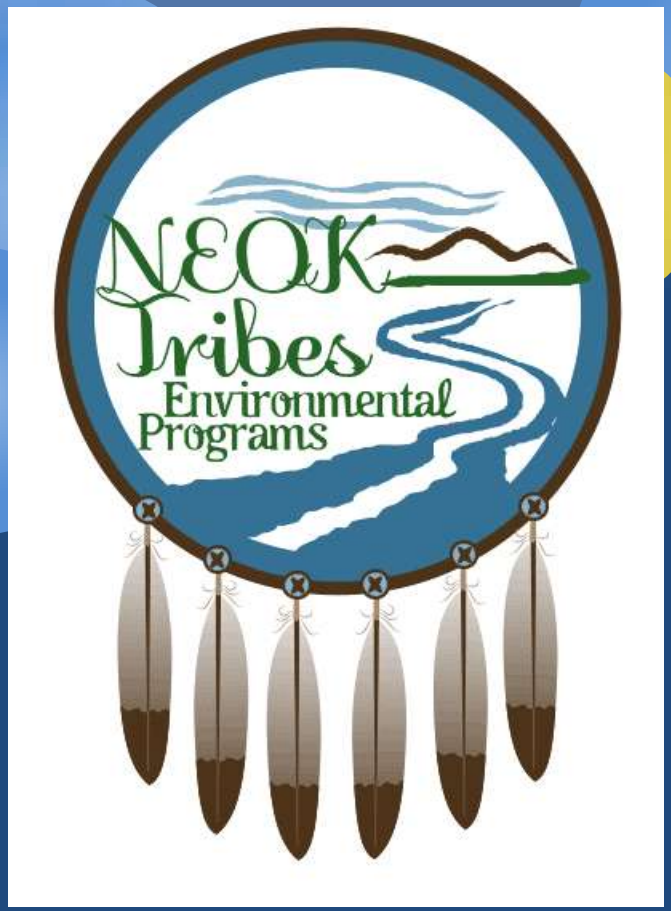


Tribal admin staff can generate reports off of their tribes data or a combination of participating members data. Additionally Tribal admin staff can run trending reports and create data exports from this area of the application.

NEOK Tribal Data Exchange Node



Working together to benefit the community



Questions

www.neok-tribes.org

Thank You

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