

FY 2023 EXCHANGE NETWORK GRANT PROGRAM AWARDS

Office of Mission Support

U.S. Environmental Protection Agency

FY 23 Grants

Recipient Name	Total Number of Awards	Total Amount of Awards
States	13	\$3,869,860.00
Tribes	21	\$6,998,339.00
Territories	1	\$167,090.00
Other	2	599,682.00
All Recipients	37	\$11,634,971.00

Grant ID	Recipient Name	Project Description	Award Amount	Award Date
STATES / INSTRUMENTALITIES OF THE STATE				
BG 96464624-0	Alabama - Department of Environmental Management	This project consists of three activities. The first activity will be to improve the data quality of ADEM's existing system. The second activity will be to prepare for the transition to the D\Y/-SFTIES by implementing activities as outlined in the DW-SFTIES CON OPS document. The third activity will be to modernize or replace ADEM's existing interfacing applications in an API-first method in a way that can be shared with other primacy agencies. The combination of these three activities will enable Drinking Water staff to continue to determine compliance and issue timely and appropriate enforcement during and after ADEM's transition to DW-SFTIES.	\$300,000	3/11/2024

84072201-0	<p>Arizona - Department of Environmental Quality</p>	<p>The project will implement updates to schema and new reporting that will ensure timely and accurate data flow between AZDEQ and EPA.</p>	\$300,000	11/8/2023
84069801-0	<p>Arkansas - Division of Environmental Quality</p>	<p>The proposed project will further allow the Office of Water Quality to collect data in a form that can be readily transmitted to EPA to meet the NPDES eReporting Rule as set forth in 40 C.F.R. Part 127. The goals for this project are to develop an external electronic submission process for applicants seeking coverage under the general permit through termination of coverage; an internal electronic work flow process for processing of applications for coverage under the general permit; and a systematized inspection process for construction stormwater site inspections using technology in the field with a reporting format that enables electronic issuance of inspection reports to permittees and/or site operators and transmission of data to EPA.</p>	\$300,000	9/30/2023
84069701-0	<p>California – San Jose State University</p>	<p>The goal of the project is to incorporate groundwater and fish tissue data into an existing surface water assessment tool to provide data, summary statistics, and comparisons to drinking water and human health standards in a report card format that will be used by government agencies, stakeholders, and the general public to restore low scoring areas and protect high scoring areas from degradation.</p>	\$99,682	9/28/2023
84069401-0	<p>Hawaii - Department of Public Health and Environment</p>	<p>The project will produce geospatial data to enable meaningful environmental health metrics, geo services to increase data value and sharing, and tools to deliver data to stakeholders, including state and federal partners and the public. Prioritized data sets span across Clean Air, Clean Water, Emergency Response, Site Remediation, Solid Waste Management, Safe Drinking Water, Solid Waste, Surface Water Protection, Underground Storage Tank and Vector Control. This supports EN Funding Area 1 as project goals include implementation of a geospatial dashboard, utilization of REST API to improve data</p>	\$300,000	11/8/2023

		integrity and publish data, and on-demand data extracts in tabular and KML formats.		
84070201-0	Idaho – Department of Energy and Environment	This project will allow Idaho DEQ to: Continue building systems to gather, store, and transmit the IPDES program data in an accurate and timely manner to ICIS-NPDES to comply with EPA’s NPDES Electronic Reporting Rule (Appendix A of 40 CFR 127) and improve data management and efficiency; continue development of web-based E-Permitting system for permittee application and report submittals; and assess current E-Permitting System and database and compare them against the business processes requirements for desired system updates/assessment tools.	\$300,000	9/30/2023
84068801-0	Illinois - Department of Health	Develop a system to translate RCRAInfo inbound and outbound services from various existing information systems utilized by the Illinois EPA and, where necessary, build new state systems to send and receive RCRAInfo data.	\$300,000	1/2/2024
BG 97531617-5	Michigan - University of Illinois	The proposed project will building a public facing, lead workforce real-time dashboard to allow for open data and information sharing; provide information on lead certification training sites, licensing exams, candidate counts, workforce recruitment initiatives, career fair locations, and availability of licensed lead professionals using geographical mapping; enable information access to other state partners and managers; and enhance and support current outreach efforts to Michigan residents, environmental health companies and trainers along with the local area community colleges and trade schools.	\$300,000	3/8/2024

84072301-0	<p style="text-align: center;">Montana-</p> <p>National Resources and Environmental Protection Cabinet</p>	<p>The proposed Water Quality, Waste Management, and Remediation Data Integration and Public Transparency Project implements data collection, analytics and infrastructure for water quality, waste management, and remediation data and information. The Water Quality, Waste Management, and Remediation Data Integration and Public Transparency Project improves data consistency by transitioning MTDEQ to the use of web services for water quality and remediation data collection and reporting. The use of web services to provide up-to-date water quality and remediation data ensures data is reported consistently and is useful to other regulatory jurisdictions and the public. In addition, this project will enable MTDEQ to display data through platforms such as GIS and a citizen facing dashboard so that environmental data can be easily accessed, viewed, analyzed, and shared publicly.</p>	\$300,000	7/8/2024
84068901-0	<p style="text-align: center;">Oklahoma –</p> <p>Department of Environmental Quality</p>	<p>DEQ's Operator Certification program trains and licenses all operators that work in water and wastewater plants, groundwater systems, and sewage lagoons in the state of Oklahoma. Through the Operator Certification program, operators are properly trained to treat and monitor the outgoing product from water facilities, supporting the protection of human health and the environment. The Operator Certification program supports other federally mandated programs under the jurisdiction of DEQ, including public water supply, Drinking Water State Revolving Fund (DWSRF), and the National Pollutant Discharge Elimination System (NPDES) permitting program. A new, updated database that allows for public and internal interfaces to better support licensing, testing, and training for certified operators is needed. The project requires consultation with Information Technology (IT) professionals, the work-up process for bidding and selection, start-up and troubleshooting, transfer of data from current, minimally supported, database, and outreach to both external and internal customers.</p>	\$300,000	1/9/2024

84070101-0	Oregon - Department of Environmental Quality	ODEQ is requesting funding under the EN Grant Program to organize and catalog environmental data (air), provide data access to internal/external stakeholders, and streamline data retrieval processes.	\$275,00	1/13/2024
84069301-0	Pennsylvania - Department of Environmental Quality	The goals of this project are to automate the ICIS data flows from PA DEP to EPA, modernize the ICIS data flows in PA and to clean up the data to enable the automation of the dataflows, and to 0 CFR part 127. The fourth goal is to produce a technical white paper on making the PA eDMR system CROMERR compliant.	\$295,532	3/14/2024
84072401-0	Utah – Department of Environmental Quality	The Uinta Basin houses the oil and gas industry for the state of Utah. Currently the area is in non-attainment for ozone. The Uinta Basin is a low income, ethnically diverse population. The oil and gas industry has expanded greatly in the last five (5) years making it increasingly difficult to inspect all facilities in a timely fashion as well as collect data on emissions at the facility level. The area is remote with limited internet access, and currently the facilities struggle to identify if they are on State or Federal land, increasing delay in inspections and incorrect permitting from facilities. DAQ is requesting funding for OMIA in order to ensure all facilities are inspected in a timely fashion, increase data collection, apply risk assessment for facilities, maintain regulatory boundaries, and provide quick turn-around for inspection reports to facilities. DAQ believes with OMIA, it will help EPA and the State gain attainment in the Uinta Basin and aid in the EPA goal to improve Air Quality 10% by 2026 and reduce NOx 21% by 2026.	\$299,979	1/24/2024
84070301-0	Vermont – University of Vermont	The goals of this project are to Standardize data management best-practices and data storage formats (including metadata) among the mountain observatories to ensure interoperability among the different mountain observatories; engage area stakeholders that use mountain weather data for subnational weather and mountain snowmelt forecasting to improve their forecast products thus aiding communities in being more	\$500,000	2/1/2024

		responsive to and resilient against flooding events; identify how to adapt our monitoring practices to align with national and international climate monitoring objectives in high-elevation environments; and establish a publicly shared web portal that will make our collective montane data FAIR (Findable, Accessible, Interoperable, and Reusable) through an Application Programming Interface (API)-first approach and interactive visualizations of collective data.		
84072101-0	Washington – State Department of Natural Resource	The applicant proposes to develop new data gathering applications and to re-use the existing Nearshore Data Exchange (NSX) hosted by the Northwest Indian Fisheries Commission to streamline data collection and accelerate sharing of coastal stream and estuarine data with the community science enabled Acidification Nearshore Monitoring Network and Climate Resilience Youth Internship programs. The field data gathering apps and posting to the NSX would streamline data collection and accelerate access to data as interactively viewable maps and charts. This would facilitate data sharing among a larger, more diverse group of stakeholders.	\$299,349	1/27/2024
Tribes				
84076701-0	Tribe, Region 1 - Houlton Band of Maliseet Indians	The goals of this project are to increase the number of sites assessed on a continuous basis for dissolved oxygen, temperature, conductivity, and streamflow, develop digital entry forms; and incorporate open-source technology and tools into quality control checks.	\$299,795	1/24/2024
BG00A01170-1	Tribe, Region 1 - Narragansett Indian Tribe	This project will allow the Narragansett Indian Tribe (NIT) to create and implement an electronic database that will improve the management, review, quality control, and analysis of environmental data; develop assessment tools for reporting and data sharing; and provide the ability to submit data to WQX. This will greatly reduce staff time as it streamlines the data entry process and gives us more efficient methods of sharing solid data that has been checked for quality control.	\$198,598	12/19/2023

84069001-0	Tribe, Region 1 – Penobscot Indian Nation	The proposed Project will allow the Penobscot Indian Nation (PIN) to increase the continuous monitoring of various water quality parameters and streamflow as well as better assess whether water quality standards are being met. It will also allow both PIN and Houlton Band of Maliseet Indians (HBMI) to: a) take advantage of collaborative efforts to store, clean, manage, visualize and share continuous temperature data for use by a wide variety of audiences, b) more easily document and diagram our data workflows and c) generate data management language for future EN grants, Quality Management Plans (QMPs) and Quality Assurance Project Plans (QAPPs)	\$499,015	2/10/2024
84077001-0	Tribe, Region 3 - Upper Mattaponi Indian Tribe	The goal of the project is to increase tribal capacity for storage, access, and upload of air quality data as well as building a web tool for visibility of collected water and air quality data.	\$300,000	2/24/2024
84069201-0	Tribe, Region 5 - Red Lake Band of Chippewa Indians	The proposed project will reuse/leverage existing tools for environmental data management and exchange and will provide training opportunities for tribal partners along with support for data submittals. Additionally, there will be improved support for water quality data QC and assessment by adding and enhancing tools for calculating water quality criteria, analyzing QC data, and graphically displaying these results.	\$499,999	1/17/2024
84069501-0	Tribe, Region 6 - Choctaw Nation of Oklahoma	The goals of this project are to improve and expand the Tribe's data collection process, utilizing improved technology and data collection methods and create content utilizing the data collected and processed improved to share with all applicable parties. To achieve these goals, funding will be utilized to procure contractors to install scales, monitoring equipment, and IT equipment at two recycling facilities. With this equipment, the EPS will be able to collect accurate data on the	\$300,000	2/1/2024

		amount of material received at the facilities and the amount of each category of recyclable materials that are shipped out. This information will be shared with the public, other Tribes, and entities, and used for promotional and educational recycling campaigns.		
84072601-0	Tribe, Region 6 – Eight Northern Indian Pueblos Council	The goals of this project are: Streamlining environmental data management processes, electronic environmental reporting/reduction of paper reporting; and improving business processes to help streamline data management and increase capacity of participating programs by increasing the flow of water assessment data to EPA (via A'ITAINS) for tribes.	\$500,000	3/20/2024
84068701-0	Tribe, Region 6- Muscogee (Creek) Nation	This project aims to develop recycling and facility compliance systems that will assist in decision making and streamline reporting efforts while also working on a data governance framework that will outline how data is exchanged and shared within the tribe.	\$300,000	1/18/2024
02F37101-0	Tribe, Region 6 - Ottawa Tribe of Oklahoma	This project seeks to build on the Tribal Partners' successes in establishing physical, digital and organizational infrastructure by developing a public web tool for water resource information. Incorporating data visualizations, interactive maps and contextualized metrics, the web tool will increase the discovery and accessibility of existing water quality data uploaded to EPA's Water Quality Portal (WQP) and provide analytical tools that support decision-making. The project's four goals—assessment, design, development, and dissemination—ensure the tool will be responsive at a local scale and cultural contexts by prioritizing community consultations and iterative cycles of development with key tribal stakeholders. Building collaborative capacity to share, understand and take action regarding water resources will deepen the scope for inter-tribal action that protects water resources, ecosystems and human health.	\$368,285	9/26/2023

BG-97752005-3	Tribe, Region 7 - Santee Sioux Nation of Nebraska	The project focuses on the deployment of “in situ” water quality sensors that can measure specific parameters or various parameters automatically at established intervals. The sensors will be compatible with the internet of things, IoT and be available in real time online via web applications.	\$210,100	2/23/2024
84070001-0	Tribe, Region 9 - Big Valley Band of Pomo Indians of the Big Valley Rancheria	This project will assist the Tribe to develop data management systems for habitat and water management to identify areas of intensive irrigation for water management and environmental impact assessment on the nearby ecosystems. The Project goals include: 1) Develop a Strategic Plan for water use collection and evaluation in the Big Valley Sub Basin; 2) Data Upload Tool Planning and Implementation; and 3) Outreach, Training, and Support Activities for tools, data collection and evaluation.	\$208,791	3/28/2024
84070701-0	Tribe, Region 9 - Habematolel Pomo of Upper Lake	This project will build upon an existing framework for digitizing aquatic and environmental data collection, improving data management schema, completing QAQC procedures, and uploading data into both public access state/federal databases (California Environmental Data Exchange Network [CEDEN]/Water Quality eXchange [WXQ]). Project partners will develop new projects including California Endangered Species Act (CESA) listed fish species (Clear Lake Hitch) observation network, continuous stream monitoring, watershed health assessment, and work with a consultant to develop/implement a local data access portal, to improve adaptive collaborative management.	\$499,604	3/28/2024
84070401-0	Tribe, Region 9 - Redwood Valley Rancheria	The proposed project will enable the Tribe to build the data management capabilities necessary to effectively manage environmental programs, increase data collection, and streamline data sharing. With recent staffing turnover, the Tribe needs additional documentation, tools, and capacity building for environmental data collection and management. The funds requested in this application will enable the Tribe to build a data management plan, employ expanded water quality	\$256,725	2/16/2024

		monitoring, catalog, and build capacity around existing tools and procedures, build services for automated data submission, and build tribal capacity through training.		
84079401-0	Tribe, Region 9 - Yurok Tribe	The proposed project will assist with the development of a strategic plan for collecting, managing, and assessing data; assessment of current data collection systems/technology, available tools and updates; planning and implementation of improved database and management systems; and building reporting capacity for the Yurok Tribe.	\$297,346	3/26/2024
84069901-0	Tribe, Region 10 - Burns Paiute Tribe	Goals of this project are to build tribal capacity to add electronic data collection tools and processes that will streamline and modernize the Tribe's data entry, transfer, storage, and sharing capacity. The ability to streamline the collection process, while populating an interactive data-rich website and flowing information to regional repositories will improve the Tribe's ability to share information across our programs while facilitating cross-jurisdictional data comparisons and exchanges to inform regional decision-making processes.	\$268,326	2/14/2024
84071601-0	Tribe, Region 10 - Confederated Tribes and Bands of the Yakama Nation	The proposed project will allow the Tribe to expand its network of in situ sensors in the Yakima River and Klickitat River to better monitor water quality, as well as build tribal capacity to streamline and modernize processes and tools for water quality data collection, storage, visualization, and sharing. The ability to streamline the collection process, while populating an interactive data-rich website and flowing information to regional partners will improve its ability to share information across its programs while facilitating cross-jurisdictional data comparisons and exchanges to inform regional decision-making processes, and better monitor the effects of its ongoing habitat restoration efforts that are focused on protecting and restoring culturally important fish populations.	\$299,990	3/8/2024

84072501-0	Tribe, Region 10 - Confederated Tribes of the Umatilla Indian Reservation	The Confederated Tribes of the Umatilla Indian Reservation owns, developed and supports the Centralized Data Management System (CDMS). The CDMS system is used by two other Tribes and the Columbia River Intertribal Fish Commission in a partnership under the Intertribal Data Management group to house authoritative data on Fisheries and Water Quality. The Tribes are requesting funds to update aging software libraries as well as develop new tools for uploading, querying, exporting and visualizing data. The goal is to provide a robust system to support tribal sovereignty through the ownership and management of data.	\$300,000	1/26/2024
BG 02J08101-2	Tribe, Region 10 - Kootenai Tribe of Idaho	The proposed project would allow KTOI to update stream temperature monitoring equipment to include Bluetooth sensors, with the goal of adding this data to the NorWeST public data portal while also using the data for in-house management activities. Another goal would be to continue staff-supported data dissemination which includes entering water data into WQX and air data to AQS. The Tribal air station also needs equipment upgrades in order to continue service. Other goals would be to upgrade the Kootenai Tribe's website to include real-time air quality information and advisories.	\$299,967	3/29/2024
84069601-0	Tribe, Region 10 - Nez Perce Tribe	The goal of this project is to develop a website platform to host a suite of data visualizations and/or dashboards; creating a geoprocessing service tool and corresponding dataflows to migrate field data from mobile devices to centralized database repositories; and expanding the use and development of mobile data collection applications.	\$299,912	11/21/2023
84069101-0	Tribe, Region 10 - Shoshone Bannock Tribes of the Fort Hall Reservation of Idaho	The Shoshone-Bannock Tribes seeks to enhance interdepartmental data sharing, streamline permit application processes, and improve public access to environmental data through the development and expansion of data sharing platforms and public data portals. They propose to accomplish this through 2 goals: Goal 1 - Data Sharing Platform Expansion and Goal 2 - Public Data Portal Development. The Shoshone-Bannock Tribal Environmental Data Exchange and Public	\$292,000	1/10/2024

		Engagement Initiative will not only enhance the tribe's ability to manage environmental resources effectively but also empower tribal members to actively participate in the decision-making processes that impact their environment. By fostering collaboration among tribal departments and increasing public access to environmental data, this project has the potential to serve as a valuable model for other tribes and the EPA, demonstrating the benefits of data sharing and public engagement in environmental management.		
84077401-0	Tribe, Region 10 - Tulalip Tribes of Washington	The goal of this project is to develop a field-centric database with a mobile data collection application, transfer historic data into the new database, and obtain new equipment to optimize field data collection.	\$499,886	2/9/2024
TERRITORIES				
M-00906324-1	Guam - Environmental Protection Agency	The goal of this project is the integration and development of the Emission Inventory System (EIS) and Combined Air Emissions Reporting (CAER) programs into the Guam Environmental Protection Agency's (GEPA) WALTERS (Water Air Land Territorial Environmental Records System). The proposed project will enable seamless sharing of air emissions data between EIS, CAER, and WALTERS programs, enhancing the accuracy and efficiency of air emissions reporting in Guam.	\$167,090	4/3/2024

