

## Pending New Monetary Awards - All Regions and HQ

Report Last Refresh Date: 2/13/25

| Funding Package Date | Record Type | Grant Family | AAShip Description | Program Code Description (Code)                                                               | Competition Code |
|----------------------|-------------|--------------|--------------------|-----------------------------------------------------------------------------------------------|------------------|
| 12/27/2024           | New Award   | 03D28524     | Region 4           | Solid Waste Management Assistance: J<br>Training Education Studies and<br>Demonstrations (X1) |                  |

| Applicant Name                              | Applicant Type | Project Start Date | Project End Date | Amount      |
|---------------------------------------------|----------------|--------------------|------------------|-------------|
| iii2155 - IDEAGARDEN INSTITUTE INCORPORATED | Not for Profit | 10/1/2024          | 9/30/2025        | \$19,021.00 |

| Project Title | Project Number | Project Description    | Project Status | Project Manager | Project Start Date | Project End Date | Project Budget | Project Actual Cost | Project Variance | Project Risk | Project Impact |
|---------------|----------------|------------------------|----------------|-----------------|--------------------|------------------|----------------|---------------------|------------------|--------------|----------------|
| Project A     | 1              | Project A Description  | Completed      | John Doe        | 2023-01-01         | 2023-03-31       | \$100,000      | \$95,000            | \$5,000          | Low          | High           |
| Project B     | 2              | Project B Description  | In Progress    | Jane Smith      | 2023-04-01         | 2023-06-30       | \$200,000      | \$180,000           | \$20,000         | Medium       | Medium         |
| Project C     | 3              | Project C Description  | On Hold        | Mike Johnson    | 2023-07-01         | 2023-09-30       | \$150,000      | \$150,000           | \$0              | High         | Low            |
| Project D     | 4              | Project D Description  | Planned        | Sarah Brown     | 2023-10-01         | 2023-12-31       | \$300,000      | \$0                 | \$300,000        | Low          | Medium         |
| Project E     | 5              | Project E Description  | Completed      | David Wilson    | 2023-01-01         | 2023-02-28       | \$50,000       | \$50,000            | \$0              | Low          | High           |
| Project F     | 6              | Project F Description  | In Progress    | Emily Davis     | 2023-03-01         | 2023-05-31       | \$120,000      | \$110,000           | \$10,000         | Medium       | Medium         |
| Project G     | 7              | Project G Description  | On Hold        | Chris Miller    | 2023-06-01         | 2023-08-31       | \$80,000       | \$80,000            | \$0              | High         | Low            |
| Project H     | 8              | Project H Description  | Planned        | Alexander Lee   | 2023-09-01         | 2023-11-30       | \$250,000      | \$0                 | \$250,000        | Low          | Medium         |
| Project I     | 9              | Project I Description  | Completed      | Olivia White    | 2023-02-01         | 2023-04-30       | \$70,000       | \$70,000            | \$0              | Low          | High           |
| Project J     | 10             | Project J Description  | In Progress    | Benjamin Green  | 2023-05-01         | 2023-07-31       | \$180,000      | \$160,000           | \$20,000         | Medium       | Medium         |
| Project K     | 11             | Project K Description  | On Hold        | Sophia Black    | 2023-08-01         | 2023-10-31       | \$110,000      | \$110,000           | \$0              | High         | Low            |
| Project L     | 12             | Project L Description  | Planned        | Lucas Brown     | 2023-11-01         | 2024-01-31       | \$220,000      | \$0                 | \$220,000        | Low          | Medium         |
| Project M     | 13             | Project M Description  | Completed      | Mia White       | 2023-01-01         | 2023-03-31       | \$90,000       | \$90,000            | \$0              | Low          | High           |
| Project N     | 14             | Project N Description  | In Progress    | Noah Green      | 2023-04-01         | 2023-06-30       | \$160,000      | \$140,000           | \$20,000         | Medium       | Medium         |
| Project O     | 15             | Project O Description  | On Hold        | Aria Black      | 2023-07-01         | 2023-09-30       | \$130,000      | \$130,000           | \$0              | High         | Low            |
| Project P     | 16             | Project P Description  | Planned        | Ethan Brown     | 2023-10-01         | 2023-12-31       | \$280,000      | \$0                 | \$280,000        | Low          | Medium         |
| Project Q     | 17             | Project Q Description  | Completed      | Isabella White  | 2023-01-01         | 2023-02-28       | \$60,000       | \$60,000            | \$0              | Low          | High           |
| Project R     | 18             | Project R Description  | In Progress    | Jack Green      | 2023-03-01         | 2023-05-31       | \$140,000      | \$120,000           | \$20,000         | Medium       | Medium         |
| Project S     | 19             | Project S Description  | On Hold        | Karen Black     | 2023-06-01         | 2023-08-31       | \$95,000       | \$95,000            | \$0              | High         | Low            |
| Project T     | 20             | Project T Description  | Planned        | Liam Brown      | 2023-09-01         | 2023-11-30       | \$210,000      | \$0                 | \$210,000        | Low          | Medium         |
| Project U     | 21             | Project U Description  | Completed      | Mia White       | 2023-02-01         | 2023-04-30       | \$75,000       | \$75,000            | \$0              | Low          | High           |
| Project V     | 22             | Project V Description  | In Progress    | Noah Green      | 2023-05-01         | 2023-07-31       | \$190,000      | \$170,000           | \$20,000         | Medium       | Medium         |
| Project W     | 23             | Project W Description  | On Hold        | Olivia Black    | 2023-08-01         | 2023-10-31       | \$125,000      | \$125,000           | \$0              | High         | Low            |
| Project X     | 24             | Project X Description  | Planned        | Samuel Brown    | 2023-11-01         | 2024-01-31       | \$230,000      | \$0                 | \$230,000        | Low          | Medium         |
| Project Y     | 25             | Project Y Description  | Completed      | Taylor White    | 2023-01-01         | 2023-03-31       | \$85,000       | \$85,000            | \$0              | Low          | High           |
| Project Z     | 26             | Project Z Description  | In Progress    | Uma Green       | 2023-04-01         | 2023-06-30       | \$170,000      | \$150,000           | \$20,000         | Medium       | Medium         |
| Project AA    | 27             | Project AA Description | On Hold        | Victor Black    | 2023-07-01         | 2023-09-30       | \$105,000      | \$105,000           | \$0              | High         | Low            |
| Project AB    | 28             | Project AB Description | Planned        | Wendy Brown     | 2023-10-01         | 2023-12-31       | \$260,000      | \$0                 | \$260,000        | Low          | Medium         |
| Project AC    | 29             | Project AC Description | Completed      | Xavier White    | 2023-01-01         | 2023-02-28       | \$65,000       | \$65,000            | \$0              | Low          | High           |
| Project AD    | 30             | Project AD Description | In Progress    | Yara Green      | 2023-03-01         | 2023-05-31       | \$155,000      | \$135,000           | \$20,000         | Medium       | Medium         |
| Project AE    | 31             | Project AE Description | On Hold        | Zoe Black       | 2023-06-01         | 2023-08-31       | \$115,000      | \$115,000           | \$0              | High         | Low            |
| Project AF    | 32             | Project AF Description |                |                 |                    |                  |                |                     |                  |              |                |

### Project Description

#### Description:

This action approves funding in the amount of \$19,021 to IdeaGarden Institute Incorporated (IdeaGarden) to create a landscape and technology short-list assessment that evaluates the feasibility of implementing a Design for Transformation pilot in the Environmental Protection Agency Region 4. IdeaGarden will identify the waste characterization in Region 4 and map the existing textile recycling and reuse infrastructure and a comprehensive view of the potential technologies available in the region. The primary states of focus will be Georgia, North Carolina and South Carolina.

#### Activities:

The IdeaGarden will develop US-based kickoff documents, communication tool and technology assessment criteria, draft a week-by-week workplan, create a geographic map populated with potential technology partners across multiple technology categories, preliminary innovator engagement, identify several potential pathways, in person meeting and technology tours.

#### Outcomes:

Results include a holistic overview of regional textile breakdown and reclamation technologies, research, and key actors; Improved understanding of regional industrial symbiosis prospects and regional textile End of Life strategy recommendations; A biomimetic, systems-level lens to clarify regional technological investment decision-making; Investment recommendations for technologies and pathways that go beyond Waste to Energy solutions Alternative "textile transformation" pathways are suggested for review, pilot design, and implementation. Local government, collectors, sorters, resellers, and Region 4 communities are beneficiaries.

#### Subrecipient:

No subawards are included in this assistance agreement.



|            |           |          |          |                                                                         |   |
|------------|-----------|----------|----------|-------------------------------------------------------------------------|---|
| 12/19/2024 | New Award | 96275024 | Region 2 | Toxic Substances Compliance<br>Monitoring Cooperative Agreements<br>(K) | P |
|------------|-----------|----------|----------|-------------------------------------------------------------------------|---|

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|----------------------------------------------------|-------|-----------|-----------|-------------|
| NATURAL AND ENVIRONMENTAL RESOURCES, DEPARTMENT OF | State | 10/1/2024 | 9/30/2025 | \$35,500.00 |
|----------------------------------------------------|-------|-----------|-----------|-------------|

Toxic Substance Control Act-AHERA

Description:

This agreement provides funding to continue a project to verify compliance with the Asbestos Hazard Emergency Response Act (AHERA) in the Puerto Rico's School System. The grant funds, among other things, will provide training to the Department of Natural and Environmental Resources' (DNER) personnel to review local education agency management plans and build local capacity for managing an asbestos compliance program in schools in Puerto Rico. The purpose of this project is to provide funding and resources for state government to conduct asbestos inspections to make an assessment of existing asbestos conditions; asbestos management plans; and design of response actions and maintenance activities to ensure compliance with AHERA. Evaluate compliance assistance to the Local Education Agencies (LEA) in order to assure compliance with AHERA. Funds will cover salary, training, transportation and personal protective equipment.

Activities:

Activities include:

- Personnel training and/or refresher
- Asbestos Management Plan Evaluation - the management plans will be reviewed continuously as part of the school compliance evaluation.
- Removal Actions Evaluation - DNER will evaluate removal actions as necessary.
- Private/Public Schools' Inspections - DNER plans to conduct inspections to schools to reduce asbestos associated risk and improve compliance.
- Quarterly Reports - DNER will prepare and submit quarterly reports 30 days after the end of each quarter (e.g. Jan 30, April 30, July 30, and October 30); and a final report is due 90 days after the end of the project (e.g. Dec 30).

Outcomes:

The evaluation of the plans and inspections will guarantee that the necessary and appropriate actions are carried out, to protect the people and the environment in the island.

Expected outcome include obtaining information about asbestos within PR's school buildings. The intended beneficiaries include the community in PR such as school teachers, students, parents, maintenance personnel, and general public.

Subrecipient:

No subawards are included in this assistance agreement.

|           |           |          |          |                                                                                               |  |
|-----------|-----------|----------|----------|-----------------------------------------------------------------------------------------------|--|
| 1/16/2025 | New Award | 00I57301 | Region 8 | Solid Waste Management Assistance: B<br>Training Education Studies and<br>Demonstrations (X1) |  |
|-----------|-----------|----------|----------|-----------------------------------------------------------------------------------------------|--|

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|----------------------------------------------------------------|----------------|----------|------------|-------------|
| ncfhci7412 - NATIONAL<br>CENTER FOR HEALTH<br>CARE INFORMATICS | Not for Profit | 1/1/2025 | 12/31/2025 | \$40,991.00 |
|----------------------------------------------------------------|----------------|----------|------------|-------------|

NOVARE - Expired Medical Supply and Equipment HUB to support medical training

Description:

NOVARE, a 501(C)(3) nonprofit organization based in Butte, Montana, and established in 2004, is proposing a one-year Sustainable Materials Management (SMM) demonstration project within EPA Region 8 states and the 28 tribal nations in the region. The project aims to create an Expired Medical Supply and Equipment HUB to address the excessive waste generated by hospitals and clinics across the U.S. By repurposing and extending the life cycle of expired medical supplies and equipment, the HUB would cost-effectively support training for nursing schools, medical schools, simulation centers, fire and EMS services, the U.S. Military, and other healthcare training programs nationwide. This project is consistent with EPA's National Recycling Strategy and its goals for Sustainable Materials Management which aims to reduce the environmental impacts of materials across their lifecycle.

Activities:

Simulation training centers, colleges, universities, EMS programs, and the U.S. military conduct extensive medical training without the use of live patients. Most of this training occurs in highly realistic simulation environments, which require up-to-date medical supplies and equipment to closely resemble real clinical settings. While most training programs use new supplies, expired supplies (in their original packaging) work perfectly well for training purposes. Currently, there are 728 accredited healthcare simulation training centers in the U.S., with many more worldwide. While some simulation training centers, especially those located in a hospital setting, use expired medical supplies, most healthcare training programs purchase materials at full cost. NOVARE has identified approximately 231 healthcare training programs within EPA Region 8 that could benefit from repurposed medical supplies and equipment. These programs include nursing schools, medical colleges with simulation centers, fire and rescue stations, paramedic training schools, and military facilities. By redirecting expired materials for educational use, NOVARE enhances hands-on training opportunities for future healthcare professionals, first responders, and our military medical personnel. Additionally, NOVARE sees a significant opportunity to collaborate with the 28 tribes in EPA Region 8, who represent communities with unique healthcare training needs. NOVARE aims to support healthcare in these underserved areas by providing expired medical supplies and equipment for training purposes to these rural and urban tribal healthcare clinics. Beyond Region 8, there are thousands of additional facilities across the U.S. that could benefit from these resources. As demand for high-quality simulation and hands-on learning continues to rise, NOVARE's recycling initiative seeks to meet this need by providing sustainable solutions that both support advanced clinical education and reduce waste.

Outcomes:

The outputs anticipated for this project include:

- Reduction in environmental impacts through source reduction;
- Education and outreach to hospitals, including making recommendations back to the hospitals or clinics on how to improve inventory management and avoid over purchasing;
- Community based social marketing by target stakeholders through engagement, whitepaper highlighting success and ROI, and presenting at supply chain management conferences;
- Completing a life cycle assessment study promote responsible management of hospital supply inventories;
- Completion of quarterly reports and a final report.

The outcomes anticipated for this project include:

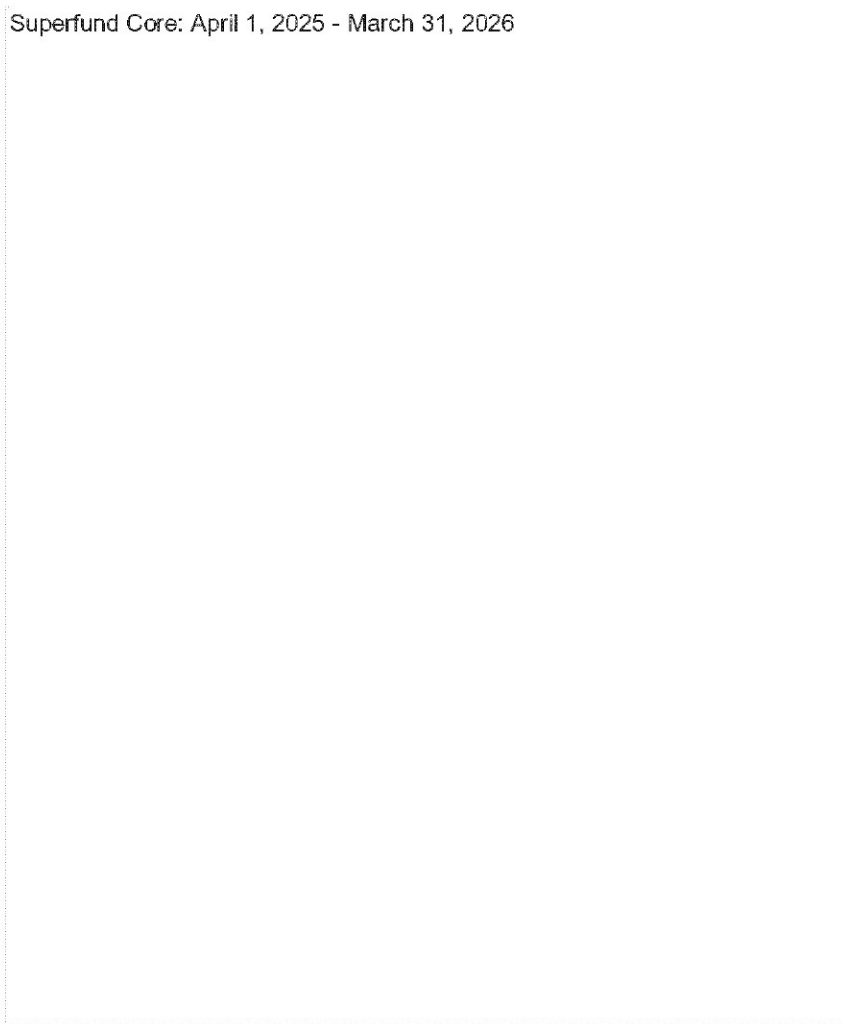
- Increased awareness in hospitals and clinics of their inventory management systems and how to maximize the use of existing projects and avoid over purchasing;
- Improved systems within hospitals to extract out useable expired



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|----------|-----------|----------|----------|-----------------------------------------------------------------------------------|
| 2/5/2025 | New Award | 10E00768 | Region 5 | Superfund State and Indian Tribe Core P<br>Program Cooperative Agreements<br>(VC) |
|----------|-----------|----------|----------|-----------------------------------------------------------------------------------|

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|----------------------------------------------|-------|----------|-----------|-------------|
| WISCONSIN DEPARTMENT<br>OF NATURAL RESOURCES | State | 4/1/2025 | 3/31/2026 | \$56,250.00 |
|----------------------------------------------|-------|----------|-----------|-------------|

Superfund Core: April 1, 2025 - March 31, 2026



**Description:**

This agreement provides funding to Wisconsin Department of Natural Resources to conduct Superfund Core activities that is not assignable to specific sites but will support the recipient's response program under the Comprehensive Environmental Response, Compensation and Liability Act. Activities include program management and supervision; cooperative agreement and contract administration; fiscal and contract management activity; legal assistance, including cost recovery and litigation activities; and administrative and general clerical/technical support.

**Activities:**

Non-Site-specific activities to be performed include the following: removals, site assessment, support to EPA for specific Superfund sites, state-lead Superfund activities, five-year reviews, and Superfund Core. The role of the Core funding is to provide oversight and support to help the Superfund program function effectively.

**Outcomes:**

Anticipated outcomes, expected deliverables and intended beneficiaries include outcomes Core funds will be used to ensure a quality Superfund Program continues to be implemented in Wisconsin. This includes maintaining a well-trained staff that can accurately respond in a timely manner. In addition, Core funding provides for Management oversight and sound fiscal policy.

**Outputs** The 5 major outputs that will be achieved using Core funding include:

1. Preparation of routine program assessments,
2. Preparation of Core Cooperative Agreement (CA) application,
3. Development of new or revised guidance documents,
4. Updating the Quality Management Plan (QMP) as needed, and
5. Revising administrative rules to include new technical and policy related information.

Direct beneficiaries of this program include residents of the state of Wisconsin.

**Subrecipient:**

No subawards are included in this assistance agreement.

|          |           |          |          |                                                 |   |
|----------|-----------|----------|----------|-------------------------------------------------|---|
| 2/5/2025 | New Award | 10E00767 | Region 5 | Hazardous Substances Response<br>Trust Fund (V) | P |
|----------|-----------|----------|----------|-------------------------------------------------|---|

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|----------------------------------------------|-------|----------|-----------|-------------|
| WISCONSIN DEPARTMENT<br>OF NATURAL RESOURCES | State | 4/1/2025 | 3/31/2026 | \$60,856.00 |
|----------------------------------------------|-------|----------|-----------|-------------|

Superfund Multi-Site/ Management Assistance Support: April 1, 2025 - March 31, 2026

Description:

This agreement may fund the participation of the recipient in activities including but not limited to the review of remedial investigation and feasibility studies, proposed plans, and records of decision at Superfund sites in Wisconsin when the Environmental Protection Agency (EPA) is the lead agency for remedial action. This can also include review of information, attending site-related meetings and participating in five-year reviews.

Activities:

Activities to be performed include the following support agency activities, providing information on the Superfund activities at the site to citizens, public officials, EPA, the media, contractors, and any other interested parties on request; reviewing and commenting on technical issues in the areas of remediation, redevelopment, endangered resources, fisheries, water resources management.

Outcomes:

The anticipated deliverables include helping Region 5 achieve Goal 6: Safeguard and Revitalize Communities and Objective 6.1: Clean Up and Restore Land for Productive Uses and Healthy Communities by supporting non-site-specific activities under the Comprehensive Environmental Response, Compensation, and Liability Act (FY2022-2026 EPA Strategic Plan). The expected outcomes include utilizing the funding in this cooperative agreement, WDNR intends to support to EPA for activities related to implementation of Superfund. WDNR participation in these efforts will also ensure that all state specific applicable, relevant and appropriate requirements (ARARs) are identified and complied with. WDNR will also provide field oversight assistance so that project construction work is completed in accordance with the approved plans and specifications. The intended beneficiaries include the state of Wisconsin.

Subrecipient:

No subawards are included in this assistance agreement.



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|----------|-----------|----------|----------|--------------------------------------------------------|---|
| 2/5/2025 | New Award | 96717301 | Region 7 | State and Tribal Response Program<br>Grants - BIL (4W) | P |
|----------|-----------|----------|----------|--------------------------------------------------------|---|

|                                |              |           |           |             |
|--------------------------------|--------------|-----------|-----------|-------------|
| WINNEBAGO TRIBE OF<br>NEBRASKA | Indian Tribe | 10/1/2024 | 9/30/2025 | \$67,000.00 |
|--------------------------------|--------------|-----------|-----------|-------------|

FY24 BIL Winnebago Tribe of Nebraska CERCLA 128(a) Tribal Response  
Program

Description:

The primary objectives of EPA's CERCLA Section 128(a) State and Tribal Response Program grants are to provide financial support to States, US Territories, and Tribal Nations to (1) establish or enhance the four statutory elements of an effective state or Tribal response program, as specified in CERCLA Section 128(a)(2), (2) maintain and update, at least annually, a public record of sites, pursuant to CERCLA § 128(b), that includes the name and location of sites at which response actions have been completed during the previous year and the name and location of sites at which response actions are planned to be addressed in the next year, and (3) conduct a limited number of brownfield site assessments or cleanups that will help establish or enhance the state or Tribal Nation's response program. The Infrastructure Investment and Jobs Act ("IIJA") provided additional funding to carry out the Section 128(a) grant program.

The purpose of this award is to enhance the capacity of Winnebago Tribe of Nebraska's brownfields response program to meet the Section 128(a) elements. Winnebago Tribe of Nebraska will oversee and perform planning, assessment, and cleanup of brownfields sites throughout the Tribal land.

Activities:

Winnebago Tribe of Nebraska will perform the following activities: timely survey and inventory of brownfield sites, which are properties whose expansion, redevelopment, or reuse may be complicated by the presence of hazardous substances. It also includes oversight and enforcement authorities to ensure that response actions protect human health and the environment; resources to provide meaningful public involvement; mechanisms for approval of cleanup plans, and verification of complete responses. The objective of this project is to assist in remediating and reusing brownfields sites throughout the Tribal land. Activities will include: prioritizing sites for assessment, procuring qualified environmental professional, conducting Phase 1 & 2 Enviro site assessments, with appropriate quality assurance, cleanup planning, public notice, implementation of cleanup and required reporting.

Outcomes:

Winnebago Tribe of Nebraska will expand public education and outreach of the Winnebago Tribe of Nebraska Response Cleanup Program to underserved communities, assess up to 5 sites through the tribal targeted brownfield assessment program and cleanup of up to 5 sites. Additional deliverables include 4 quarterly reports, final performance report, ACRES property profiles for each site, quality assurance documents, up to 5 site eligibility determinations.

Subrecipient:

No subawards are included in this assistance agreement.

|           |           |          |                                    |                                                                                 |   |
|-----------|-----------|----------|------------------------------------|---------------------------------------------------------------------------------|---|
| 1/14/2025 | New Award | 84112801 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 2/3/2025  | New Award | 84113501 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |

|                       |                                               |          |           |             |
|-----------------------|-----------------------------------------------|----------|-----------|-------------|
| RADFORD UNIVERSITY    | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$74,819.00 |
| UNIVERSITY OF ALABAMA | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$74,995.00 |

Mushroom-based adsorptive filtration membranes for selective water purification

Nanoplastics Removal by Metal Organic Frameworks

**Description:**

The goal of the project is to develop a low-cost and sustainable alternative to petroleum-based filtration membranes derived from mushrooms and mushroom waste to remove a variety of contaminants including lead from drinking water.

**Activities:**

The objectives include (1) Develop and characterize a chitin/polyglucan-based adsorptive filtration membrane derived from mushrooms and mushroom waste using simple low-energy synthesis and minimal chemicals, (2) Test techniques to alter the pore size and chemical composition of the membranes through the use of sustainable additives including glycerol-based carbon nanoparticles., (3) Demonstrate the ability of the filtration membranes to provide clean water through the removal of a variety of pollutants including heavy metals (lead), arsenic, dyes (methylene blue), antibiotics (trimethoprim), and PF AS (perfluorooctanoic acid (PFOA)), and (4) Conduct a cost-benefit evaluation to determine the cost and scalability of the proposed systems.

**Outcomes:**

Deliverables will include annual and final reports. Additionally, the project will develop an innovative water filter membrane made from mushrooms that can remove various contaminants, including lead, from drinking water. The expected outcomes include better drinking water safety and quality, improved human health, and reduced illness from drinking water. Direct beneficiaries of this assistance agreement include residents of the communities in Virginia, the general public, drinking water safety professionals, and public health officials.

**Subrecipient:**

No subawards are included in this assistance agreement.

**Description:**

This agreement provides funding under People, Prosperity and Planet (P3) program to the University of Alabama. Specifically, the project will develop a metal-organic framework that will enable selective adsorption of various nanoplastics at low concentrations in water.

**Activities:**

Project activities include (1) synthesizing and characterizing metal organic framework variants with diverse organic ligands, (2) assessing the selective adsorption performance of the metal organic frameworks towards nanoplastics, and (3) evaluating the selective adsorption capacity in the presence of other competitive adsorbates using real water samples.

**Outcomes:**

Anticipated deliverables include innovative technology that will provide efficient treatment of nanoplastics from water, annual reports, and a final report. Expected outcomes include the mitigation of nanoplastic contamination in aquatic environments and safer drinking water. Intended beneficiaries include officials responsible for water treatment, the local community, public health, and the environment.

**Subrecipient:**

No subawards are included in this assistance agreement.



|           |           |          |                                    |                                                                                 |   |
|-----------|-----------|----------|------------------------------------|---------------------------------------------------------------------------------|---|
| 1/3/2025  | New Award | 84112901 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 1/14/2025 | New Award | 84112701 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |

|                               |                                               |          |           |             |
|-------------------------------|-----------------------------------------------|----------|-----------|-------------|
| Clem U - Clemson University   | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |
| GEORGIA TECH<br>RESEARCH CORP | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |

Electrochemical Process for Recovering Nitrogen and Phosphorus from Source-Separated Urine to Reduce Nutrient Loads to Domestic Wastewater Treatment Plants

Solar Powered Ionization with Coaxial Electrodes (SPICE) for Water Disinfection

Description:

The goal of this project is to develop a novel approach of concomitant stabilization of fresh source-separated urine with preferential struvite precipitation using a sacrificial Mg anode and carbon-based gas-diffusion cathode.

Activities:

The activities include developing and testing a pilot-scale novel electrochemical treatment system to stabilize urine waste and separate and recover nutrients such as nitrogen and phosphorous. The team will evaluate performance of continuous recovery system by conducting life-cycle and techno/economic analysis.

Outcomes:

The anticipated deliverables include annual and a final report. Additionally, the project will provide results across several scales relevant to developing electrochemical processes for treating source-separated urine. The expected outputs include a development and design of an electrochemical process: to 1) prevent the transformation of fresh source-separated urine to the putrid liquid that results from urea hydrolysis and microbial growth, 2) stabilize and precipitate the recoverable nutrients, N and P, from urine in a form that may be recovered for recycling in agriculture, and 3) reduce N and P released to the environment degrading quality of natural water bodies. Direct beneficiaries of this program include residents of the communities in South Carolina state, the general public, and the environment.

Subrecipient:

No subawards are included in this assistance agreement

Description:

This project aims to develop a solar-powered, chlorine-free drinking water disinfection process. The solar powered ionization with coaxial electrodes (SPICE) system will be built by coupling a coaxial-electrode copper ionization cell (CECIC) with a solar panel as the power source.

Activities:

The research team will: (i) design and fabricate the copper ionization cell and the solar panel control unit; (ii) assemble the system components and (iii) test the system with synthetic and surface water samples. The team will design and fabricate a solar power control unit with an integrated sensor network for efficiently powering both the pump and CECIC. The team will test the completed system for prolonged periods of time to ensure the long-term stability and ability to provide safe drinking water.

Outcomes:

Deliverables will include annual and final reports. Additionally, the project is expected to produce multiple peer-reviewed publications in journals. Outcomes include the fabrication of a functioning SPICE system able to continuously produce drinking water with a safe effluent copper concentration below the EPA standard. The proposed research will create a more accessible and sustainable disinfection approach compatible for point-of-use (POU) in remote areas, developing communities, and disaster regions in the US. Direct beneficiaries of this program include water quality managers, human health and the environment, and the general public.

Subrecipient:

No subawards are included in this assistance agreement.

|           |           |          |                                    |                                                                                 |   |
|-----------|-----------|----------|------------------------------------|---------------------------------------------------------------------------------|---|
| 1/15/2025 | New Award | 84112201 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 1/22/2025 | New Award | 84112501 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |

|                                             |                                               |          |           |             |
|---------------------------------------------|-----------------------------------------------|----------|-----------|-------------|
| CARNEGIE MELLON<br>UNIVERSITY               | Private<br>University                         | 3/1/2025 | 2/28/2027 | \$75,000.00 |
| TEXAS A&M ENGINEERING<br>EXPERIMENT STATION | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |

Low-Cost Methods for Black Carbon Source Apportionment

Electrified Titanate Nanowire Membrane for Point-of-Use Water Purification

Description:

The goal of this project is to develop a low-cost method for community-scale measurement and source apportionment of black carbon in fine particulate matter.

Activities:

The objectives include (1) developing an algorithm that can use existing cellphone-based method to determine fossil fuel and biomass burning contributions to black carbon and 2) apply the developed algorithm to samples collected in various environments.

Outcomes:

Deliverables will include annual and final reports. Additionally, the project will develop a low-cost cellphone camera based methods to measure black carbons in the ambient air and to analyze their source apportionments to fossil fuels and biomass burning. Outcomes include a low-cost method for determining the concentrations and sources of black carbon. Direct beneficiaries of this assistance agreement include residents of the communities in Pennsylvania, air quality assessors, air pollution mitigators, public health professionals, and the general public.

Subrecipient:

Description:

This project aims to develop a small, off-grid, and easily applicable electrochemical advanced oxidation process (EAOP) equipped with a conductive titanate nanowire-modified membrane for feasible and cost-effective point-of-use water purification and disinfection.

Activities:

The research team will undertake the following research tasks: (i) synthesis of ultrathin and conductive titanate nanowires; (ii) development of lab-scale electrified flow reactor and evaluation of the treatment performance for micropollutant degradation and microbial inactivation, respectively; (iii) integration of the treatment system and investigation of the water matrix impact under prolonged treatment period; and (iv) techno-economic analysis for real-world application scenario assessment.

Outcomes:

Deliverables will include annual and final reports. Additionally, the project is expected to produce multiple peer-reviewed publications in journals. Outcomes include the fabrication of titanate nanowire membrane products, the development of a lab-scale electrified flow reactor, and the demonstration of effective micropollutant removal and microbial inactivation performance. The proposed research will potentially provide on-demand access to clean and safe drinking water in resource-limited settings. Direct beneficiaries of this program include water quality managers, human health and the environment, and the general public.

Subrecipient:

No subawards are included in this assistance agreement.



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| 1/22/2025 | New Award | 84112601 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 1/22/2025 | New Award | 84113001 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |

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| NEW JERSEY INSTITUTE<br>OF TECHNOLOGY | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |
| NEW JERSEY INSTITUTE<br>OF TECHNOLOGY | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |

Nanobubble-enabled foam fractionation: Characterization and application for PFAS removal in complex water matrixes

Nanobubble-Enhanced Soil Remediation: A Green And Efficient Strategy For Oil Contamination Cleanup

Description:

This project aims to develop a nanobubble-enabled foam fractionation process to remove perfluoroalkyl and polyfluoroalkyl substances (PFAS) from wastewater.

Activities:

The team will examine: 1) the colloidal properties of nanobubble foam under variations of water chemical properties such as pH changes, salinity and presence of co-existing natural organic matters and synthetic surfactants; 2) the removal efficiency of PFAS with different carbon chain lengths in synthetic water and real water to simulate contaminated ground water, landfill leachate and brine wastewater from regenerative backwash processes in reverse osmosis membrane filtration and ion exchange; and 3) PFAS removal performances of foam fractionation using nanobubbles, microbubbles and macro bubbles that may yield different foaming ability and structures.

Outcomes:

Deliverables will include annual and final reports. Additionally, the project is expected to produce multiple peer-reviewed publications in journals. Outcomes will optimize parameters including surfactant type and dosage, water chemistries, bubble size, flow rate, and operating mode to achieve maximum PFAS removal from wastewater. The proposed research will devise an innovative approach to address the pressing challenge in separating PFAS from dilute and complex waste streams. Direct beneficiaries of this program include water quality managers, human health and the environment, and the general public.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

The goal of this project is to develop a green and powerful washing process using nanobubbles water for soil contaminant removal.

Activities:

The objectives include 1) characterizing various gaseous nanobubbles in both water and oil and to utilize different types of nanobubbles for the removal of oil from soil; (2) assessing the potential enhancement of oxidation power in soil remediation using ozone (O<sub>3</sub>) nanobubbles, compared to traditional ozonation methods, by exploring the possibility of increased production of hydroxyl radicals (OH) resulting from nanobubble bursting; (3) exploring the synergistic effects of combining nanobubble technology with other factors, such as mechanical stirring, ultrasonic sound, and surfactants, in order to further enhance the efficiency of oil removal from soil and (4) elucidating the mechanisms underlying the interaction between nanobubbles and oil, including processes such as adsorption and desorption, and to examine the effects of nanobubbles on the removal of oil from the soil surface.

Outcomes:

Deliverables will include annual and final reports. The project will develop peer-reviewed journal articles, conference presentations, soil washing protocols, and patent applications. Additionally, the recipient will develop transformative knowledge to alleviate soil contamination in different affected small, rural, tribal communities via devising this novel soil washing technique or process using nanobubbles. Direct beneficiaries of this assistance agreement include residents, environmental professionals, public health officials, the communities in New Jersey and the general public.

Subrecipient:

No subawards are included in this assistance agreement.

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| 1/22/2025 | New Award | 84113301 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 1/23/2025 | New Award | 84112101 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |

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| TEXAS A&M ENGINEERING<br>EXPERIMENT STATION | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |
| NORTHERN KENTUCKY<br>UNIV                   | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$75,000.00 |

Development of AI-based Software Tool for Prediction of Chemical Exposure and Toxicity

Farms with Clean and Healthy Air: A Novel Intelligent System for Real-Time Monitoring and Reporting of Air Quality

Description:

The goal of this project is to design and develop an innovative AI-assisted, data-driven software tool capable of predicting exposure-related toxicity of chemicals.

Activities:

The objectives include (1) building extensive database of chemical exposure and toxicity; (2) applying Graph Neural Networks (GNN) to encode molecular geometric information; (3) developing AI-based Quantitative Structure-Activity Relationship (QSAR) to predict chemical exposure and toxicity; (4) Translating the AI-based QSAR model into a software tool; and (5) testing and validating the tool.

Outcomes:

Deliverables will include annual and final reports. Additionally, the project develop a novel AI-based software tool for predicting chemical toxicity that is more efficient and affordable than the traditional High-Throughput Screening and Quantitative Structure-Activity Relationship (QSAR) modeling. The expected outcomes include better understanding of potential exposure and toxicity of chemicals and chemical mixtures, improved chemical safety and management, improved human health through better prevention of toxic exposure to chemicals, especially pesticides. Direct beneficiaries of this project include residents of the communities in Texas, chemical risk assessors, public health professionals, toxicologists, and the general public.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

This agreement provides funding under People, Prosperity and Planet (P3) program to the University of Northern Kentucky. Specifically, the project will develop a cost-efficient air quality monitoring system for livestock producers that enhances human health and safeguards rural environments.

Activities:

Project activities include (1) designing an embedded air pollutant measurement system to quantify indoor gas concentrations, (2) selecting and calibrating ammonia, carbon dioxide, and methane detectors capable of operating in harsh livestock environments, (3) estimating ventilation rate of agricultural buildings, (4) installing these systems to ensure functionality in real world application, and (5) creating training videos to educate farmers on air quality.

Outcomes:

Anticipated deliverables include an innovative air quality monitoring and report system for animal feed operations and agricultural buildings, annual reports and final reports. Expected outcomes include the empowerment of producers to effectively manage air emission inventories and possess decision making tools to implement air quality control and protect the environment. Intended beneficiaries include agricultural producers, rural communities, public health, and the environment.

Subrecipient:

No subawards are included in this assistance agreement.



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| 2/3/2025   | New Award | 84112401 | Office of Research and Development | P3 Award: National Student Design Competition for Sustainability - Phase I (SU) | C |
| 12/12/2024 | New Award | 97T05501 | Region 9                           | Community Grants Program (CG)                                                   | P |

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| WEST VIRGINIA<br>UNIVERSITY   | State<br>Institution of<br>Higher<br>Learning | 3/1/2025  | 2/28/2027 | \$75,000.00 |
| coh2439 - COUNTY OF<br>HAWAII | County                                        | 1/15/2025 | 1/14/2029 | \$80,000.00 |

Novel Process and Supply Network Design for the Recovery of Key Fertilizer  
Macronutrients for Safe and Reliable Drinking Water

Community Grants Program - Water Meter Replacement

Description:

This agreement provides funding under People, Prosperity and Planet (P3) program to the University of West Virginia. Specifically, the project will develop a comprehensive nutrient recovery system from wastewater treatment plants and other polluted streams. This innovative system aims to both mitigate nutrient pollution in wastewater sources and utilize recovered nutrients as raw materials for agricultural fertilizers.

Activities:

Project activities include (1) developing membrane technology to selectively separate nutrients, (2) conducting process design, techno-economic analysis, and life-cycle analysis for integrated nutrient recovery, and (3) implementing statewide supply chain management for nutrient recovery.

Outcomes:

Anticipated deliverables include surface modified nanofiltration membranes for filtering nutrients, a machine learning model to optimize the design and nutrient recovery, annual reports, and a final report. Expected outcomes include reducing nutrient pollution in freshwater bodies and addressing eutrophication issues. Intended beneficiaries include wastewater treatment plants, local communities, public health and the environment.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

The Department of Water Supply, County of Hawaii will be using these funds to replace old water meters that are not accurately recording water consumption.

This assistance agreement provides full federal funding in the amount of \$80,000. Preaward costs are approved back to 01/15/2025. See terms and conditions.

Activities:

Replace six faulty water meters on Hawaii Island.

Outcomes:

The anticipated deliverable is to completed contracts and installation of six new water meters.

The potential environmental outcomes for this project would be that customers are billed appropriately and although it would likely result in higher water bills for these specific customers, they will be able to realize their actual water use and evaluate their systems for inefficiencies or leaks. These results would only be recognized upon actual replacement of the meters. It is anticipated that there will be an increase of at least 5% in consumption or 33,500 gallons per day or 12,227,500 gallons per year, which in turn would result in an increase in revenues of approximately \$61,015.23 per year.

This may also trigger customers to look at on-site efficiencies and/or repair leaks that would end up in less water use on the property and in turn, require DWS to pump less water and reduce the energy use which in turn, reduces the Department's overall carbon footprint on the environment.

The intended beneficiaries would be the entire population of Hawaii Island (207,615). Any water conservation that occurs in one community will mean more water reserves for the entire island.

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| 1/6/2025 | New Award | 03D32825 | Region 4 | Environmental Education Grants (NE) | C |
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| APPALACHIAN STATE<br>UNIVERSITY | State<br>Institution of<br>Higher<br>Learning | 1/1/2025 | 12/31/2027 | \$80,000.00 |  |
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Environmental Education Grants Program

Description:

This project provides funding to Appalachian State University to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in North Carolina and Coastal Alaska specifically Boone, Wilmington, Newland, North Carolina, and Nehalem, Port Heiden, Alaska. The grantee will do this by increasing youth engagement using immersive technology by increased understanding of climate change indicators and local impact and an among youth 12-18. Increased engagement in global impacts of climate change among participants. Foster empathy among participants towards vulnerable communities impacted by climate change.

Activities:

This project will increase public awareness and knowledge about environmental issues in North Carolina and Coastal Alaska specifically Boone, Wilmington, Newland North Carolina, and Nehalem, Port Heiden, Alaska and provide middle and high school students ages 13-18 the skills necessary to make informed decisions and to take responsible actions. Activities to be performed during this project period include A series of short 360&deg; videos showing local climate impacts will be created by students and teachers at the school communities where the project will be piloted (two in North Carolina and two in Alaska). The videos will be shown to the school in the other part of the state and also on the opposite side of the country as part of a series of three lessons. Lessons will incorporate activities using the EPA climate indicator portal (<https://www.epa.gov/climate-indicators>) including the Community Connections Story Map (<https://tinyurl.com/communityconnectstorymap>), and the EJScreen mapping tool <https://www.epa.gov/ejscreen> to discuss climate justice issues.

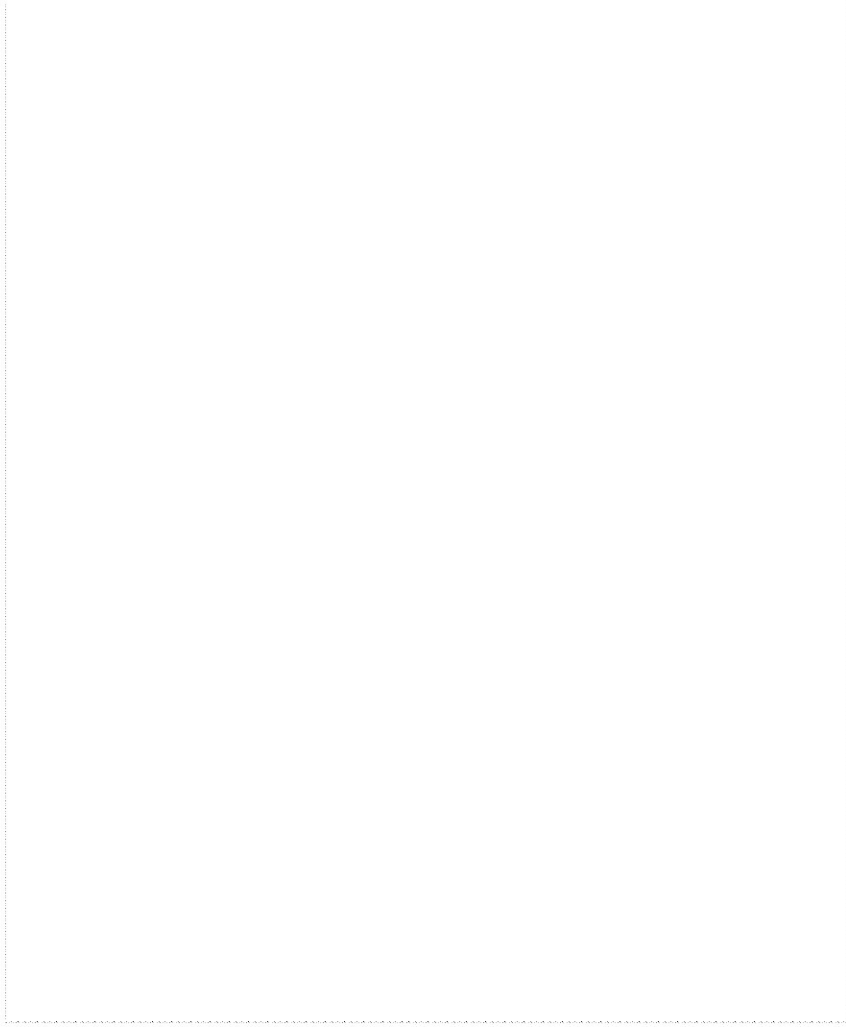
Outcomes:

1. Increased public awareness and knowledge about environmental issues in North Carolina and Coastal Alaska specifically Boone, Wilmington, Newland North Carolina, and Nehalem, Port Heiden, Alaska



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It is anticipated that this project will result in the following deliverables: The main outputs for the project will be an educational module with all supporting materials including slides and training videos for teachers; a collection of eight 360-degree videos; a webpage housing all educational materials created for the project; and a collaborative student digital map. Expected outcomes of the project include increased understanding of climate change indicators and local impacts among youth ages 13-18, increased engagement in global impacts of climate change among participants and foster empathy among participants towards vulnerable communities impacted by climate change. The intended beneficiaries include North Carolina and Coastal Alaska specifically Boone, Wilmington, Newland North Carolina, and Nehalem, Port Heiden, Alaska.

**Subrecipient:**

Subawards will fund Two public schools in North Carolina and two public schools in Alaska. The applying institution (Appalachian State University) will create subaward contracts for each partner school specifying items that must be purchased with the subaward funds, as these will support implementation of the strategy.

Subrecipients will increase understanding of climate change indicators and local impacts among youth 13-18. Increased engagement in global impacts of climate change among participants. Foster empathy amongst participants towards vulnerable communities impacted by climate change. In order to accomplish these goals, the project will be guided by the following objectives: Students will explore examples of climate indicators and explain how they are used to collect data about climate trends today by analyzing graphs. Reflect on the current and potential effects of a warming climate on their local environment and on their community. Learn how to make a 360 degree video to tell a story as an immersive experience. Describe how and why climate change affects parts of the country and world differently. Read about how communities are working together to address climate impacts in their region. Discu

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| 2/6/2025 | New Award | 02J94001 | Region 10 | Environmental Education Grants (NE) | C |
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| mcd8678 - MASON<br>CONSERVATION DISTRICT | Special<br>District | 2/1/2025 | 8/31/2026 | \$80,000.00 |
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Mason County Environmental Explorations

Description:

This project provides funding to the grantee to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in Mason County, Washington.

This project funds activities for Title 1 K &dash; 12 students in Mason County to visit and engage in outdoor learning experiences at local natural areas and businesses and classroom-based learning. Collectively, these experiences build student connections to the local environment and local industries that depend on healthy ecosystems (e.g. salmon and shellfish industries and forestry). The students will be able to explore and consider careers in environmental fields. The grant will educate students and the community about water quality and sustainable resource management and enhance understanding of climate change impacts on human health and local ecosystems. The grant project underscores the importance of environmental stewardship, encouraging voluntary actions to protect and enhance the local environment, and acknowledging and integrating Indigenous Knowledge.

Activities:

This project will increase public awareness and knowledge about environmental issues in Mason County, Washington and provide students and teachers the skills necessary to make informed decisions and to take responsible actions.

Activities to be performed during this project period include educational visits to local natural areas and businesses, participate in many outdoor learning experiences from shellfish dissection to macroinvertebrate surveys and cultural connection to the land, and build career-relevant skills.

Outcomes:

It is anticipated that this project will result in the following deliverables: providing a range of hands-on experiences and classroom-based learning for all grade levels including field trips and outdoor activities designed to heighten awareness of local environmental issues and nurture a stronger bond between students and the natural world.

Expected outcomes of the project include below: (short-term) &dash; a percentage of students reporting heightened awareness of local environmental issues. (medium-term) &dash; increase in the number of hours dedicated to environmental education in schools. (long-term) - students actively participating in sustainability and environmental initiatives within their underserved communities.

The intended beneficiaries will be 3,350 underserved students and 100 teachers and 50 community members in Mason County, Washington. ,

Subrecipient:

The sub-grant program will enable the grantee to give six subawards to identified non-profit organizations or school districts to help with the local natural area and business visits and outdoor learning activities for the students.



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| 2/11/2025 | New Award | 02F77601 | Region 6 | Environmental Education Grants (NE) | C |
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| uohs2427 - UNIVERSITY OF<br>HOUSTON SYSTEM | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/28/2027 | \$86,400.00 |
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Enhancing Environmental Protection Education in Greater Houston Area

Description:

This project provides funding to the University of Houston Downtown to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in Houston, Texas. The grantee will do this by providing a four-day teacher training program on soil and water quality sampling; providing 20 sessions to students on topics including the water cycle, stormwater runoff, conservation projects, and environmental careers; and conducting four field trips with students in urban lakes and watersheds that include facilitating student-led projects.

Activities:

This project will increase public awareness and knowledge about environmental issues in Houston, Texas and provide students, teachers and families the skills necessary to make informed decisions and to take responsible actions. Activities to be performed during this project period include: five four-day teacher training programs conducted on water quality sampling; 20 student workshops conducted on water cycle, stormwater runoff, conservation practices, and environmental careers; and four field trips conducted with students and teachers at urban lakes and watersheds on nutrient pollution, watershed pollution, and student-led projects.

Outcomes:

It is anticipated that this project will result in the following deliverables: five four-day teacher training programs conducted, 25 teachers trained, 20 student workshops conducted, four field trips conducted with students and teachers, and 600 students positively impacted through student workshops and/or field trips, and quarterly progress reports submitted. Expected outcomes of the project include: more teachers incorporating water cycle education into their teaching, increased environmental stewardship of teachers and students, increase student understanding of water quality issues, and more students choosing environmental careers. The intended beneficiaries include students, teachers and families in Houston, Texas.

Subrecipient:

The recipient will provide five subawards to local education agencies that are served through this program by the recipient with teacher training programs, student workshops, and field trips. The subawards will go towards teacher participation stipends and support school expenses for field trips. The subawards will encourage teacher participation in the teaching training program. The subawards will also enable teachers and students to participate in the field trips by supporting costs such as bus costs.

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| 1/13/2025 | New Award | 00A01706 | Region 1 | Environmental Education Grants (NE) | C |
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| WOONASQUATUCKET<br>RIVER WATERSHED<br>COUNCIL | Not for Profit | 2/1/2025 | 1/31/2027 | \$100,000.00 |  |
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Environmental Justice Education for Students and Teachers in Urban Rhode  
Island Watersheds

Description:

This project provides funding to Woonasquatucket River Watershed Council to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques to increase environmental literacy and encourage behavior that will benefit the environment. The project takes place in two of the most disadvantaged and environmentally impaired neighborhoods of Providence, Rhode Island: Olneyville and Lower South Providence. While focused on Olneyville and Lower South Providence, the grant activities extend watershed wide (Woonasquatucket River Watershed) and will also include cities such as Central Falls, Pawtucket and Woonsocket, Rhode Island. The grantee will design, demonstrate and disseminate environmental education practices by developing a 10 session environmental and watershed curriculum, which will be tested by 10-15 middle and high school students, who will help refine, design, and adapt it for other watersheds. Over 60 educators from at least 15 schools will implement the new curriculum. The curriculum and trainings will increase climate literacy and stewardship in local neighborhoods adversely impacted by flooding events, urban heat island, poor air quality, and exposure to toxics. The curriculum and training will build understanding and capacity of middle and high school students, teachers, and urban residents to increase resilience to storms and extreme weather, prepare for disasters and improve local environmental conditions.

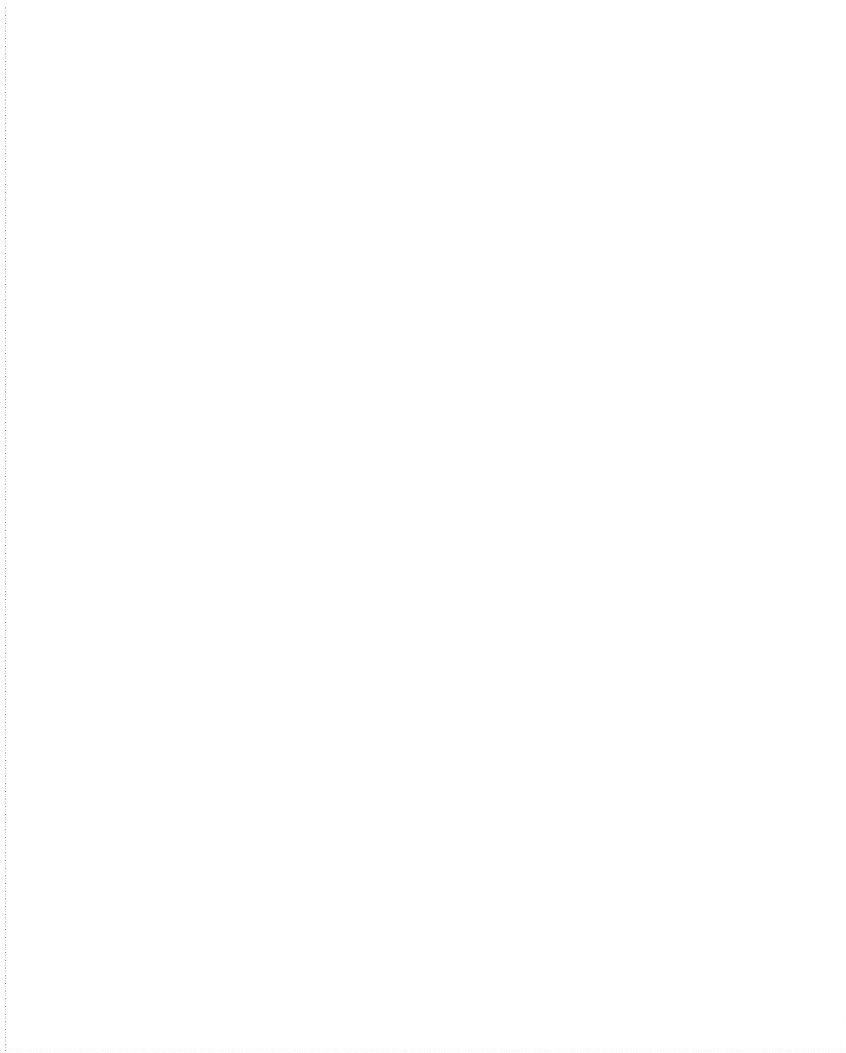
Activities:

This project will increase public awareness and knowledge about environmental issues in two environmentally impaired neighborhoods of Providence, Rhode Island: Olneyville and Lower South Providence and support watershed wide actions in the Woonasquatucket River Watershed. The project will provide education and training on environmental issues to provide students, educators, and community residents with the skills necessary to make informed decisions and to take actions to improve environmental conditions



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and protect public health. Activities to be performed during this project period include developing a 10-session environmental and active watershed curriculum, which will be tested by 10-15 middle and high school students, who will help refine, design, and adapt it for other watersheds. In addition to the curriculum, over 60 educators from 15 schools will implement the curriculum in local schools.

Outcomes:

It is anticipated that this project will result in the following deliverables: Steering and Curriculum Team will understand disproportionate environmental, health, climate, and other cumulative impacts; development of a 10 session curriculum; at least 30 middle and high school students will directly participate in curriculum development and testing; host tours across Providence, Rhode Island to develop an awareness and understanding of community needs and concerns; at least 60 teachers will be trained on Woonasquatucket Watershed curriculum.

Expected outcomes of the project include: learning and training opportunities for youth in multiple watersheds in Rhode Island; effective collaboration between community based organizations, educators, students, and community members; increased water and climate literacy and stewardship in neighborhoods with environmental justice concerns; and educators from Title I schools will effectively use a new watershed based curriculum adapted to local school and community conditions, reducing barriers that have historically prevented youth from participating in programming and accessing outdoor spaces.

The intended beneficiaries include middle and high school students, educators, and community leaders in living in environmentally impaired neighborhoods and diverse neighborhoods including areas where linguistic isolation is cited at highest rates in the nation. These populations already experience climate change related impacts such as severe storms, flooding, and urban

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| 1/21/2025 | New Award | 97T32801 | Region 9 | Environmental Education Grants (NE) | C |
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| cffmf7576 - CENTER FOR<br>THE FORCE MAJEURE<br>FOUNDATION | Not for Profit | 3/1/2025 | 2/28/2027 | \$100,000.00 |
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Environmental Education Grants

Description:

This project provides funding to Center for the Force Majeure Foundation (CFM) to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in Nevada County, Placer County, and El Dorado County, California and surrounding forests but is designed to serve students drawn from communities served by four different school districts. Washoe students who live in Douglas and Carson counties in Nevada, and in Alpine County, CA; and Kings Beach students who live in North Tahoe and Truckee areas.

The grantee will do this by creating a process for answering questions about hydrology, fire-adapted landscapes and climates respond to the re-introduction of intentional fire through a teaching and learning model with tribal students that can be shared for the future. CFM will look at controlled burn sites at Sagehen from the last 10 years of intentional fire to deepen watershed focused environmental education within a community of Washoe students and then have them mentor other students who live in the watershed.

After taking field trips to learn about hydrology, water cycles, stream health, and fire predictive software, students will measure, compare and contrast water content in the soils on burn scars and compare them with samples from untreated tracts of land.

Activities:

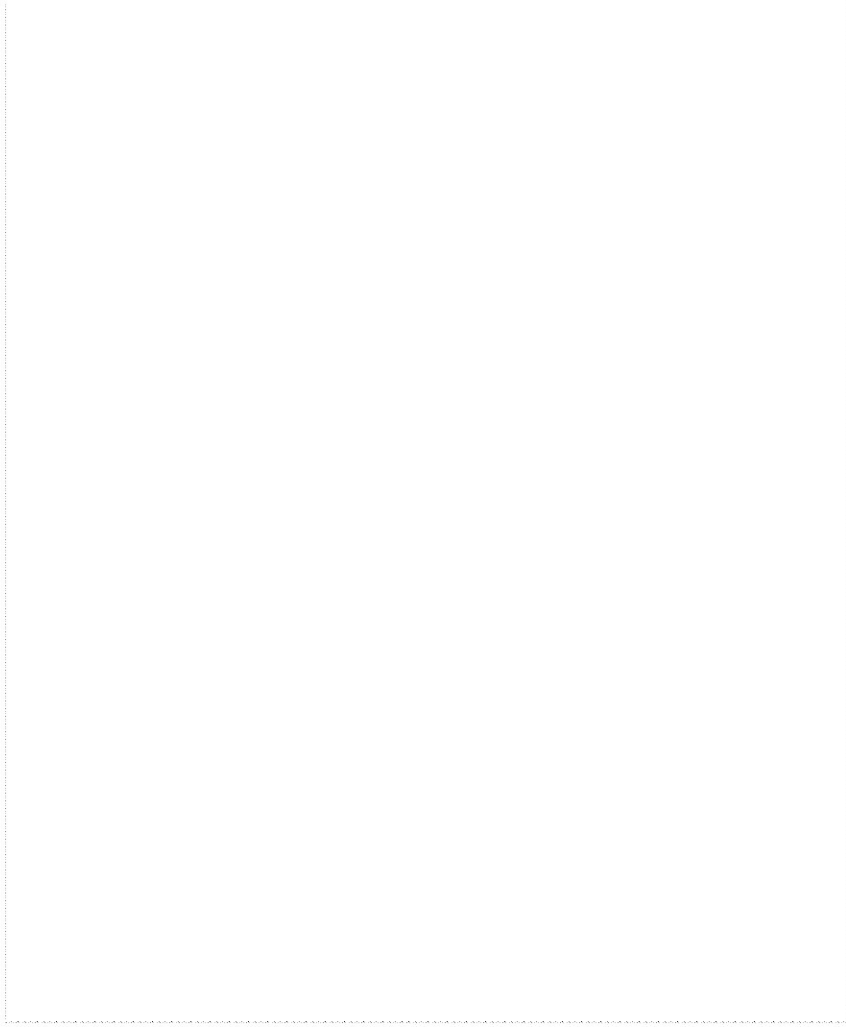
This project will increase public awareness and knowledge about environmental issues in Nevada County, Placer County, El Dorado County, Alpine County, California, Douglas and Carson counties in Nevada, and North Tahoe and Truckee areas. and provide students the skills necessary to make informed decisions and to take responsible actions.

Activities to be performed during this project period include: recruiting 15 Washoe high school student to participate in paid internships that will occur



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over the grant period. CFM will plan field trips to at least three sites where land managers have implemented controlled burns. After taking field trips to learn about hydrology, water cycles, stream health, and fire predictive software, students will measure, compare and contrast water content in the soils on burn scars and compare them with samples from untreated tracts of land. Participants will disseminate their model by collaborating with high school students in the Tahoe Truckee Unified School District by sharing findings and model during a cross-cultural field trip.

**Outcomes:**

It is anticipated that this project will result in the following deliverables: recruit at least 14 Washoe students, recruit at least 15 Tahoe-Truckee school district students, conduct four two-day field experiences and one three-day field experience, involve at least six scientists to teach, three educators to develop the curriculum, and at least 4 Elder Washoe Knowledge-Keepers in first four field experiences.

Expected outcomes of the project include: Increase in the number of participants in underserved communities reporting greater feelings of connection to nature and culture, youth participants' increased awareness of careers in environmental fields, and students implement and lead sustainability/EJ-related projects in their homelands, creating innovative solutions to real-world problems.

Long-term outcomes are youth will be empowered through their increased understanding of "good fire" towards careers in fire science and ecosystems become more resilient through their restoration and overall improvement through the implementation of successful management plans. Another long-term outcome will be the creation of a framework for building place-based curriculum that is grounded in Indigenous wisdom teachings for use in other tribal communities.

The intended beneficiaries include Washoe Tribal high school students whose families no longer live near the forests of Tahoe.

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| 1/21/2025 | New Award | 97T32901 | Region 9 | Environmental Education Grants (NE) | C |
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| mina7014 - MARIANA ISLANDS NATURE ALLIANCE (MINA) | Not for Profit | 5/1/2025 | 4/30/2026 | \$100,000.00 |
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Schools for Environmental Conservation (SFEC) - MiNA

Description:

This project provides funding to the Mariana Islands Nature Alliance to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in the Commonwealth of the Northern Mariana Islands.

The grantee will do this by engaging seven Title I Schools and three schools and community clubs in underserved villages in educational activities and fields experiences that address environmental issues on their school campuses and villages. The students will be tasked with creating and implementing a sustainable Conservation Action Plan for their school campuses or villages with a focus on climate change mitigation through responsible action and practices of plastic recycling and the movement towards the creation of a circular economy designed to keep plastics out of the ocean. The project aims to increase plastic recycling at participating Title I public schools by 80% and to increase island-wide awareness of climate change and plastic recycling in the general community by 30% by the end of the 2024-2025 school year.

Activities:

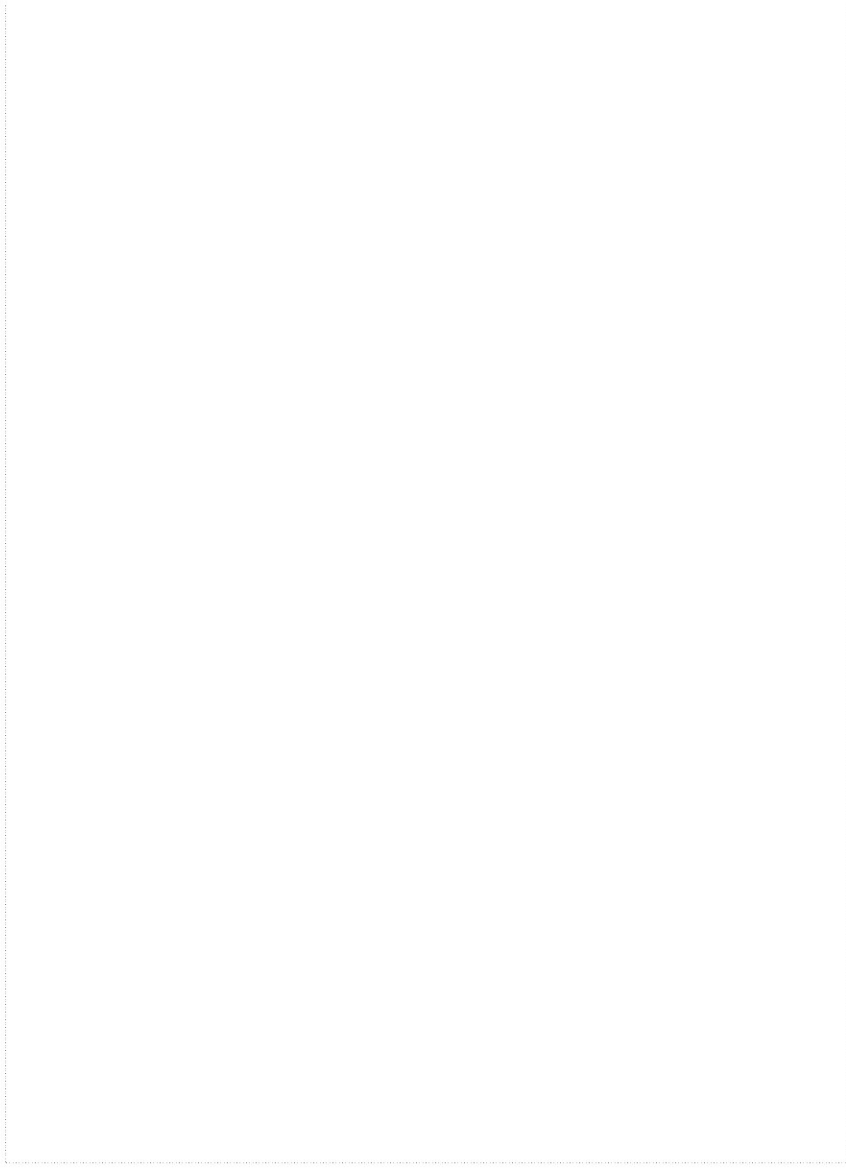
This project will increase public awareness and knowledge about environmental issues in disadvantaged communities in the Commonwealth of the Northern Mariana Islands and provide school teachers, students, and community members with the skills necessary to make informed decisions and to take responsible actions. Activities to be performed during this project period include:

- Recruiting ten schools, 50 students, and ten community groups to participate in the one-year program.
- Supporting the development and implementation of ten Conservation Action Plans (CAPs).
- Planning and facilitating field experiences and workshops focusing on climate change and plastic pollution, marine conservation, terrestrial conservation, and recycling efforts.



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- implementing plastic recycling program in disadvantaged villages on the islands of Tinian and Rota.
- Transporting a 3-in-1 Plastic Recycling Machine to Tinian that will allow the community to create different products out of the 100% recycled plastics.

**Outcomes:**

It is anticipated that this project will result in the following deliverables:

- Ten developed Conservation Action Plans
- Ten implemented environmental projects addressing the impacts of climate change and plastic pollution on Title 1 school campuses
- 12 presenters from governmental, nongovernmental, and environmental agencies are confirmed for marine, terrestrial, and recycling field experiences
- Five indigenous leaders are confirmed to share traditional knowledge on climate change adaptation strategies
- One orientation and one Final Presentation workshop for all participants.
- Islands of Tinian, Rota, and Saipan have a sustainable plastic recycling program with 15, 15, and 20 recycling bins distributed throughout underserved villages, respectively.
- Two datasets of student assessment prior to and after the implementation of an environmental program focusing on climate change literacy and plastic pollution

**Expected outcomes of the project include:**

- Increased awareness and education of climate change literacy of climate change literacy and environmental stewardship in Saipan's disadvantaged communities and Tinian and Rota's Title I schools.
- Ten teachers and 50 students are more educated on climate change literacy, plastic pollution, marine conservation projects and strategies, and recycling.
- Improved curriculum in climate change literacy and plastic pollution in Title I schools and schools located in disadvantaged villages.

**Subrecipient:**

Subrecipients will recruit teacher and student groups to create climate change less plans and design and implement Conservation Action Plans that will support climate change awareness and resiliency. The final CAP projects will be s

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| 1/27/2025 | New Award | 02J94301 | Region 10 | Environmental Education Grants (NE) | C |
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| SUSTAINABLE SEATTLE | Not for Profit | 2/1/2025 | 6/30/2026 | \$100,000.00 |
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City/Classroom Climate Action Plan

**Description:**

This project provides funding to the grantee to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in the Seattle, Washington area.

Seeking representation from schools, local governments, Tribes, universities, businesses and non-profits, this project will create a collective learning community. The project area spans two counties and nine school districts with potential to engage at least six Title 1 high schools. Sustainability Ambassadors will support 100 educators in developing City/Classroom Climate Action Plans as a framework for educating 10,000 students. These efforts will provide students and their families an increased understanding of the local impacts of climate change, its disproportionate impacts on underserved communities, and the role of Indigenous Knowledge in climate resilience planning.

**Activities:**

This project will increase public awareness and knowledge about environmental issues in the Seattle, Washington area and provide students, teachers, and community members the skills necessary to make informed decisions and to take responsible actions.

Activities to be performed during this project period include activities to empower youth to reduce greenhouse emissions and improve equity outcomes. The project will focus on coalition building to establish a broad, cross-sector coalition of learning partners using collective impact strategies that advance empowering the youth involved in the project; recruiting and supporting teacher fellows, and through them teaching their peers, to design problem-based, place-based learning experiences that advance the goal of the project; and establish a shared communications strategy to exchange information, celebrate success, and build a lively, youth-voices ecosystem of communications pathways and platforms across the coalition to amplify what's working and encourage more people to engage.

**Outcomes:**

Some of the deliverables include: 30 city/classroom climate change action plan curriculum pathways, integrating environmental justice, indigenous knowledge, green jobs, and community projects developed; 20 green job profiles published; and 4 green jobs career exploration panels formed; and some high school courses in digital media, video production, and social media content marketing engaging in local climate storytelling.

Expected outcomes of the project include below: (short-term) – 15 teacher fellows and 35 teacher peers engage 4,500 students (at least 600 students from Title 1 schools) in 6-12 months; (medium-term) – 30 teacher fellow and 70 teacher peers engage 10,000 students (at least 1,200 students from Title 1 schools) in 12-24 months; (long-term) – youth are actively reducing their carbon footprint, participating in civic processes, sharing their knowledge with their families, and leading changes in their communities.

The intended beneficiaries will be 10,000 underserved students and 100 teachers, and many community partners and families involved and benefitting from the project in the Seattle, Washington area.

**Subrecipient:**

Six community-based groups locally will be selected in association with Title 1 high schools, their feeder schools, and city-designed neighborhood service areas to strengthen student, family, and community learning partnerships.



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| 2/3/2025 | New Award | 953A0088 | Region 3 | Environmental Education Grants (NE) | C |
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| palsef7962 - PP&L<br>Sustainable Energy Fund | Not for Profit | 1/1/2025 | 12/31/2026 | \$100,000.00 |
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Description:

This project provides funding to the Sustainable Energy Fund to implement its Environmental Education project. The grantee will educate students and community members about climate change's impact on our energy infrastructure. Through hands-on workshops, they will learn about sustainable energy technologies that also learn about the impacts of climate change on our infrastructure. These workshops will improve the environmental literacy of the attendees.

The grantee will hold workshops and conferences that will teach students new knowledge, critical thinking and problem-solving skills with respect to sustainable energy technologies.

Activities:

This project will increase public awareness and knowledge about environmental issues with respect to sustainable energy technologies in the Allentown area of Pennsylvania. The project will be located at DeSales University in Center Valley, Pennsylvania as well as the Sustainable Energy Fund offices in Schnecksville, Pennsylvania.

The grant has two target audiences. The conference attendees are professors, teachers (K-12) and college students. The Energypath Science Fair's audience is middle and high school students from 5th to 12th grades. To reach a diverse and underserved audience, staff will use the EPA EJ Screen data base to determine the socioeconomic indicators of low income and perform marketing outreach to schools in those areas.

Outcomes:

It is anticipated that this project will result in the following deliverables in terms of career development and environmental education capacity building. A science fair will be held, and the students in attendance will greatly improve their energy literacy.

Expected outcomes of the project include: The desired outcome of these workshops and conferences is to increase the passion for sustainability energy and also the knowledge of energy concepts in both students and teachers.

The intended beneficiaries include middle school, high school and college students, as well as teachers and professors in the Allentown area of Pennsylvania.

Subrecipient:

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| 2/7/2025 | New Award | 02F77401 | Region 6 | Environmental Education Grants (NE) | C |
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Weaving Student Led Decision Making and Action into STEAM Powered Blue  
Carbon Place-Based Experiences

Description:

This project provides funding to The Artist Boat, Inc. to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in Galveston, League City, Houston, Texas City, and La Marque, Texas. The grantee will do this by providing six teachers a professional development program and 625 grade 7-12 students an environmental footprint assessment workshop, an Eco-Art workshop, a student inquiry-based workshop, an eco-art kayak adventure, a blue carbon workshop, and facilitate student environmental action plans.

Activities:

This project will increase public awareness and knowledge about environmental issues in Galveston, League City, Houston, Texas City, and La Marque, Texas, and provide students and teachers the skills necessary to make informed decisions and to take responsible actions. Activities to be performed during this project period include: providing a teacher professional development workshop, hosting an environmental footprint assessment workshop with students, hosting an Eco-Art workshop with students, hosting a student inquiry-based workshop, providing an eco-art kayak adventure to students, conducting a blue carbon workshop with students, and facilitating student environmental action plans.

Outcomes:

It is anticipated that this project will result in the following deliverables: six teachers provided a professional development program; 625 grade 7-12 students provided six educational workshops, an eco-art kayak workshop, and assistance crafting environmental action plans; a completed evaluation of the program; and quarterly reports submitted to EPA throughout the project period. Expected outcomes of the project include: increased teacher knowledge of wetland ecology and blue carbon ecosystems, increased student knowledge of Galveston Bay ecosystems and climate change, increased environmental student literacy, and increased environmental stewardship by students and teachers. The intended beneficiaries include students and teachers of Galveston, League City, Houston, Texas City, and La Marque, Texas.

Subrecipient:

Clear Creek Independent School District, Raul Yzaguirre Schools For Success School District, Texas City Independent School District, Odyssey Academy, Inc. Independent Charter District, and Galveston Independent School District are the subaward recipients. Artist Boat, Inc. will help help teams of students at schools within these school districts pick a locally relevant environmental issue and work with each other to implement an action plan to address and improve the issue. Examples of potential projects are students increasing awareness over using trash and recycling cans or students implementing planting of native plants at their school. Through the subawards the subaward recipients will purchase supplies and/or software so students have the materials they need to complete the action plan projects. The subawards will support the success of the student participation in completing action plan projects.



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| 2/15/2025 | New Award | 97T33001 | Region 9 | Environmental Education Grants (NE) | C |
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| UNIVERSITY OF<br>CALIFORNIA, SANTA<br>BARBARA | State<br>Institution of<br>Higher<br>Learning | 4/1/2025 | 3/31/2027 | \$100,000.00 |  |
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Environmental Education- Cultivate Environmental Stewards

Description:

This project provides funding to University of California, Santa Barbara to implement its project, which will design, demonstrate, and disseminate environmental education practices, methods, and techniques, that will serve to increase environmental literacy and encourage behavior that will benefit the environment in communities of Kern, San Luis Obispo, Santa Barbara, and Ventura County, CA. The grantee will do this by training and supporting teachers of grades K-12 students (ages 5-18 years old) in these four counties to implement solutions-focused environmental education focused on sustainability of the land and food systems. Two professional development programs will be offered: One will be a remote format and take place over 6 months of the academic year (up to 60 teachers) and one will be a week-long summer institute offered in person (up to 30 teachers). This will increase the capacity of up to 90 teachers to support youth in environmental stewardship, impacting up to 8000 students. The grantee will work with five local nonprofits that focus on environmental education to develop and implement professional development for local teachers that focuses on revitalizing land and sustainable food systems. These activities include outdoor connections to the land, a focus on solutions, interdisciplinary instruction, and uses the global competency model to support student and teacher learning.

This assistance agreement provides full federal funding in the amount of \$100,000. See terms and conditions.

Activities:

This project will increase public awareness and knowledge about environmental issues in the Hawaiian Islands of Maui, Molokai, Hawaii, and Kauai, American Samoa (Tutuila, Aunuu, Manua, Ofu, and Olosega), the Commonwealth of the Northern Mariana Islands (Saipan, Tinian, and Rota), Guam and Palau and provide educators and students the skills necessary to make informed decisions and to take responsible actions. Activities to be performed during this project period include: refining and expanding the existing Champions of Coastal Resilience (CCR) wetland education curriculum

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| 2/10/2025 | New Award | 00A01804 | Region 1 | Hazardous Substances Response<br>Trust Fund (V) | P |
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| ENVIRONMENTAL<br>SERVICES, NEW<br>HAMPSHIRE DEPARTMENT<br>OF | State | 2/15/2025 | 6/30/2026 | \$100,100.00 |
|--------------------------------------------------------------|-------|-----------|-----------|--------------|

Tibbetts Road Site Technical Support Services Related to On-Going Long-Term Response Actions

and methods for use in Hawaii and modifying it to scale and use in selected additional Pacific Islands, training a cohort of trainers from subaward recipient organizations or schools to use new CCR Wetland Case Study pedagogy and resources, and providing ongoing support for CCR trainers as they facilitate local teacher training and support student classroom and field-based learning.

**Outcomes:**

It is anticipated that this project will result in the following deliverables: one set of Champions of Coastal Resilience (CCR) Trainer Guide Materials (including a printed guide, a website portal with access to digital resources including GIS activities and assessments surveys, a CCR Trainer Kit), eight teacher trainers joining the CCR train-the-trainer program, 80 teachers participating in CCR trainings and subsequently engage 1,920 students in classroom and field-based learning and stewardship activities, and 80 wetland field study and stewardship events for students. Expected outcomes of the project include: 1) enhanced partnerships between teachers, schools and community partners, 2) increased wetland education and stewardship activities in secondary schools, 3) increased community awareness of the need for coastal resilience, and 4) increased wetland restoration efforts. The intended beneficiaries include educators, students, and local organizations (subaward recipients) in Hawaii (Maui, Molokai, Hawaii, and Kauai), American Samoa (Tutuila, Aunuu, Manua, Ofu, and Olosega), the Commonwealth of the Northern Mariana Islands (Saipan, Tinian, and Rota), Guam and Palau.

**Subrecipient:**

The grantee proposes to work with five local nonprofits that focus on environmental education (Explore Ecology, Wilderness Youth Project, Santa Barbara Botanic Gardens, Santa Barbara Natural History Museum) and community environmental issues (Santa Barbar

**Description:**

This agreement funds the New Hampshire Department of Environmental Service's program to determine background concentrations of metal contaminants and the conditions responsible for continued metal contamination above cleanup levels, as well as potential cleanup times, in overburden and bedrock groundwater encompassing the Tibbetts Road Site, located in a rural residential area of Barrington, New Hampshire. These findings will be used to inform future remedial decisions for the Site.

**Activities:**

- Review relevant Site background documents and information.
- Provide on-Site observation of specific scheduled field activities to be completed by the Responsible Party (RP), as appropriate.
- Provide review and concurrence and/or technical comments on written reports, letters/memorandum, calculations, and other work product prepared by the RP.
- Participate in project meetings/conference calls as warranted based on the project scope and the needs of the Agencies.

**Outcomes:**

- Ensure quality science-based technical support for the long-term response action, including implementation of 6th Five Year Review recommendations.
- Ensure conformance with requirements of the AROD.
- Return of the Site property to productive use.
- Restoration of an aquifer historically used for drinking water.
- Delisting of the Site from the National Priorities List (NPL).

The intended beneficiaries of the cooperative agreement are residents of Barrington, New Hampshire.

**Subrecipient:**



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| 2/5/2025  | New Award | 12E00775 | Region 5  | Hazardous Substances Response Trust Fund (V)         | P |
| 9/12/2024 | New Award | 02J72701 | Region 10 | Indian Environmental General Assistance Program (GA) | P |

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| ILLINOIS ENVIRONMENTAL<br>PROTECTION AGENCY | State        | 4/1/2025  | 3/31/2026 | \$120,531.00 |
| PILOT POINT TRIBAL<br>COUNCIL               | Indian Tribe | 10/1/2024 | 9/30/2025 | \$133,081.00 |

FY25 IL EPA Management Assistance

Pilot Point FY25 GAP

Description:

This agreement may fund the participation of the recipient in activities including but not limited to the review of remedial investigation and feasibility studies, proposed plans, and records of decision at Superfund sites in Illinois when the Environmental Protection Agency (EPA) is the lead agency for remedial action. This can also include review of information, attending site-related meetings and participating in five-year reviews.

Activities:

Activities to be performed include the following support agency activities: complete oversight support activities for sites, broken down as: 1) Remedial Investigations and Feasibility Studies support for sites, 2) Remedial Design/Remedial Action support for sites, 3) Long-Term Remedial Action support for sites, 4) Operation & Maintenance support for sites, 5) Five Year Review support for sites, and 6) Non Time-Critical Removal Actions (non-NPL) support for sites.

Outcomes:

The anticipated deliverables include supporting EPA in activities related to implementation on the Superfund program. The expected outcomes include ensuring all state-specific applicable or relevant and appropriate requirements (ARARs) are complied with. Illinois EPA will also provide field oversight assistance to ensure project construction work is completed in accordance with the approved plans. The intended beneficiaries include Illinois residents.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

The Native Village of Pilot Point will establish an environmental program. The Tribe will build administrative and programmatic capacity for improved grant management and daily environmental program operations by improving its Policies and Procedures. A focus area is to conduct an education and outreach effort within the local community, including assessing environmental priorities and improving local awareness thru the development of an EPA-Tribal Environmental Plan. The Tribe will develop a coastal hazards mitigation program, conduct baseline water quality monitoring, and carry out climate adaptation planning within the community.

Activities:

Workplan activities will involve development of an improved Policy and Procedures document to enable the Tribe to build a firm foundation for federal grants management, and address key vulnerabilities that resulted in past grant mis-management problems. The development of an EPA-Tribal Environmental Plan will enable the Tribal Council, community members, environmental program staff, and local and regional partners to better understand the critical issues and needs for sound environmental protection, improvements, and long term priorities. Climate projects including coastal zone mitigation and baseline water quality monitoring will enable the Tribe to create a baseline of environmental conditions and a data set for addressing near term and future climate problems. This data will be owned by the Tribe, and will help them make informed decisions on pursuing future grant opportunities as they strategize for future resiliency.

Outcomes:

The Native Village of Pilot Point and the EPA expect the Environmental Program capacity to succeed in its first year by developing a solid Administrative Management system, engaging the tribal residential community, governing body of the Tribe, and partners in EPA Tribal Environmental Agreement development, build a coastline hazards mitigation program, and conduct baseline water quality monitoring which will deliver a data set enabling both EPA and the Tribe to protect human health and the environment in the

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| 1/16/2025 | New Award | 84111601 | Office of Research<br>and Development | Science to Achieve Results (STAR)<br>Program (RD) | C |
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| THE REGENTS OF THE<br>UNIVERSITY OF<br>COLORADO | State<br>Institution of<br>Higher<br>Learning | 3/1/2025 | 2/29/2028 | \$157,667.00 |
|-------------------------------------------------|-----------------------------------------------|----------|-----------|--------------|

Biocompatible Polymer Database from Flavor & Fragrance Molecules

future. Overall, these efforts will serve the tribal community for years to come.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

This proposal seeks to revolutionize plastic production through the exploration of polymers derived from biocompatible flavor and fragrance (F&F) molecules and natural products.

Activities:

The project objectives include developing a method to synthesize polymers utilizing biocompatible flavor and fragrance molecules as building blocks. The project aims to develop a portfolio of these flavor and fragrance molecules structural and chemical properties, and establish an open-access database of the polymers and properties. Furthermore, the project will conduct comprehensive economic and life cycle analyses on selected viable flavor and fragrance molecules to determine the potential environmental impacts. The work aims to implement actionable and scalable change towards polymer synthesis techniques and utilizing existing molecules as building blocks.

Outcomes:

Anticipated deliverables include a comprehensive dataset of polymerizable flavor and fragrance molecules and their physical and chemical properties, as well as annual and final reports. This work will produce outputs that will be used to construct a public-access database and a TEA/LCA model analysis of the flavor and fragrance polymers. Intended beneficiaries include manufacturers and communities affected by pollution from conventional plastics, as the bio-based F&F molecules offer sustainable plastics alternatives.

Subrecipient:

The subaward to University of Northern Colorado (\$385,385) will be used to carry out the polymer synthesis and characterization using flavor and fragrance molecules and to assist in the generation of the open-access database and publishing of materials. The subaward to the National Renewable Energy Laboratory (\$99,999) will be used to conduct the complete techno-economic assessment and life-cycle analysis portions of the work on the selected fragrance and flavor molecule sourced polymers.



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| 1/22/2025 | New Award | 84111901 | Office of Research and Development | Science to Achieve Results (STAR) Program (RD)                                                                  | C |
| 1/16/2025 | New Award | 02J95001 | Region 10                          | Surveys-Studies-Investigations-Demonstrations and Special Purpose Activities relating to the Clean Air Act (XA) | P |

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| NEW YORK UNIVERSITY                              | Private<br>University | 3/1/2025 | 2/29/2028 | \$157,688.00 |
| OREGON DEPARTMENT<br>OF ENVIRONMENTAL<br>QUALITY | State                 | 1/1/2025 | 6/30/2029 | \$200,000.00 |

Harnessing Nature: Enzyme Engineering for Polymer Synthesis and Degradation

ODEQ NO2 Roadside Monitoring 2025

Description:

The project aims to engineer and analyze leaf-branch compost cutinase (LCC), an enzyme which has been demonstrated to effectively degrade polyethylene terephthalate (PET) and other plastics. The purpose of this award is to enhance plastic waste management by using renewable materials, and reduce the dependency on non-renewable materials in plastics production and degradation.

Activities:

The activities to be performed in this project are developing an LCC enzyme that is stable and effectively degrades polyesters and other plastics, and enhance LCC to synthesize polyesters and other plastics from renewable materials. Additionally, the project will develop a comprehensive database of polyester degrading enzymes using experimental data generated from this work and existing data.

Outcomes:

The outcomes of this work include engineered and optimized LCC enzymes that are capable of sustainably degrading polyesters and PETs, and synthesizing using renewable furan monomer molecules to reduce the dependence on non-renewable fossil fuel resources for plastics production, as well as annual and final reports. The project will also deliver a comprehensive and open-access database using generated and existing data to enhance the future of sustainable plastics management. Intended beneficiaries of this program include will include the general public, leaders in the plastics manufacturing and waste management industry, communities affected by environmental pollution from industry and plastics production, human health, and the environment.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

This agreement provides funding to Oregon Department of Environmental Quality (ODEQ). Specifically, the recipient will implement a permanent Tier 2, Near-Road Nitrogen Dioxide (NO<sub>2</sub>) monitoring station that will meet the design specified in 40 CFR Part 58. Using preliminary analysis of six factors: Annual Average Daily Traffic, fleet mix, congestion patterns, roadway design, terrain, and meteorology that ODEQ identified road segments of interest.

Activities:

The activities include the purchase of an Air Monitoring Shelter that will monitor multi-pollutants. An air sampling instrumentation that's a Federal Reference Method (FRM). The NO<sub>2</sub> monitoring station will result in the collection of valid and representative continuous data on the ambient concentrations of NO<sub>2</sub> and other extra parameters such as formaldehyde, black carbon, carbon monoxide, and Volatile Organic Compounds (VOCs).

Outcomes:

The anticipated deliverables include the installation of the Air Monitoring Shelter for monitoring NO<sub>2</sub> and formaldehyde, black carbon, carbon monoxide, and VOCs.

The expected outcomes include the purchase of the air monitoring shelter with the NO<sub>2</sub> monitoring support instruments. To install the shelter and calibrate instruments and to have a successful establishment of the Near-Road NO<sub>2</sub> station by 7/31/25.

The intended beneficiaries include ODEQ and the public of Oregon State.

Subrecipient:

No subawards are included in this assistance agreement.

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| 1/21/2025  | New Award | 84103501 | Office of Mission Support             | Environmental Information Exchange Network Grant Program (OS) | C |
| 11/15/2024 | New Award | 84107501 | Office of the Chief Financial Officer | Environmental Finance Center Grants (AI)                      | C |

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| WEST VIRGINIA<br>DEPARTMENT OF<br>ENVIRONMENTAL<br>PROTECTION | State | 10/1/2024 | 9/30/2027 | \$200,000.00 |
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| t6310 - SaNDAl Cares | Not for Profit | 1/1/2025 | 12/31/2025 | \$200,400.00 |
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Develop Phase 2 eReporting Rule Information

DataGen PREPARED

Description:

This project by the West Virginia Department of Environmental Protection (WVDEP) proposes to upgrade the state's Electronic Submission System (ESS) and Environmental Resource Information System (ERIS) in order to comply with Phase 2 of EPA's electronic reporting rule. This project is expected to benefit WVDEP and its regulated community by streamlining permitting and reporting, resulting in increased compliance with regulations; accurate, on-time data submission to EPA; and successful implementation of permitting and enforcement programs.

Activities:

Activities to be performed include: Upgrading the state's Electronic Submission System (ESS) and Environmental Resource Information System (ERIS) in order to comply with Phase 2 of EPA's electronic reporting rule.

Outcomes:

Anticipated deliverables include: Upgraded ESS and ERIS data systems.

Expected outcomes include: Timely streamlined permitting and reporting that results in increased compliance with regulations; accurate, on-time data submission to EPA; and successful implementation of the NPDES Permits, General Permits, and Enforcement programs.

Project beneficiaries include: WVDEP and its regulated community.

Subrecipient:

No subawards are included in this assistance agreement.

Description:

This agreement provides funding to support SaNDAL Cares Inc. (Provider/recipient) to provide technical assistance and related support to underserved communities in Huntington, WV; Dublin, VA; Dover, DE; and nationwide. The Provider will deliver data fluency related training, education, and technical assistance to help underserved communities develop data fluency, evaluation capability, and reporting capacity within their organizations. The Provider's services are critical to solidifying the post award reporting accuracy for communities who have received an EPA grant but may lack the necessary data related fluency or evaluation capacity to fulfill the reporting and evaluation requirements. This increased performance relating to data fluency and reporting will enable Huntington, WV, Dublin, VA, Dover, DE, and other nationwide underserved communities to better communicate how awarded EPA grants improved the outcomes related to environmental health.

Activities:

The activities include conducting virtual and in-person training sessions, providing self paced data fluency/evaluation related coursework, developing and distributing comprehensive training materials and tools, establishing user-friendly data systems, and providing participants with personalized coaching and office hours.

Outcomes:

The anticipated deliverables include numerous training sessions conducted; training materials developed and distributed; 130 participants (10 each in Huntington, Dublin, and Dover, plus 100 nationwide) trained on analytics capacity-building, data reporting, and AI upskilling; and the implementation of data systems in the 3 target communities. The expected outcomes include increased knowledge and skills in data management and reporting among participants, improved ability to comply with EPA grant requirements, enhanced community engagement and participation in environmental monitoring, the adoption of sustainable data management practices in target communities, and the increased capacity of communities to manage and report on environmental grants. The intended beneficiaries include Huntington, WV,



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| 9/9/2024 | New Award | 97239804 | Region 2 | Direct Implementation Tribal Cooperative Agreements (DI) | P |
| 2/7/2025 | New Award | 09E00783 | Region 5 | Hazardous Substances Response Trust Fund (V)             | P |

SAINT REGIS MOHAWK  
TRIBE

Indian Tribe

10/1/2024

9/30/2028

\$207,281.00

WISCONSIN DEPARTMENT  
OF NATURAL RESOURCES

State

4/1/2025

3/31/2026

\$227,845.00

Saint Regis Mohawk Tribe - PWSS DITCA 2024-2028

Superfund Site Assessment Program: April 1, 2025 - March 31, 2026

Dublin, VA, Dover, DE, and underserved communities nationwide.

**Subrecipient:**

No subawards are included in this assistance agreement.

**Description:**

Technical Assistance and training will be provided to enhance the knowledge of the Saint Regis Mohawk Tribe Community Water System managers and operators.

**Activities:**

The proposed project will allow Saint Regis to monitor the surface water system effectively and efficiently and provide a high level of technical assistance to the community served.

**Outcomes:**

Saint Regis Mohawk Tribe's goal is to provide safe drinking water, through a safe water supply, to its residents and the community served.

**Subrecipient:**

No subawards are included in this assistance agreement.

**Description:**

This agreement funds the recipient's program to perform site characterization activities such as preliminary assessments and site inspection at potential or confirmed hazardous waste sites.

**Activities:**

**Site Assessment Activities**

Activities to be performed include the following site assessment related actions activities from site discovery, through evaluation and scoring until a site is either designated as No Further Remedial Action Planned (NFRAP) or moved forward through either State or Federal cleanup authority. This includes traditional site assessment activities of Pre-CERCLA Screenings (PCS&rsquo;s); Preliminary Assessments (PA&rsquo;s); Site Inspections (SI&rsquo;s); Expanded Site Investigations (ESI&rsquo;s); and Hazard Ranking System (HRS) scoring packages.

**Removal Activities**

WDNR will continue to work with EPA&rsquo;s removal program to provide assistance with outreach, referral preparation, site visits, and preparation of applicable or relevant and appropriate requirements (ARARs). WDNR will also review and comment on action memos, work plans, and summary reports or PolReps. WDNR will respond to all requests for input in a timely manner. WDNR will participate in training opportunities in emergency response to better assist EPA with emergency, time critical, and non time critical responses. Grant dollars will be used to cover costs related to completing these activities and other approved activities related to removals assistance.

**Outcomes:**

The anticipated deliverables and expected outcomes dates are as follow: &bull; Pre-CERCLA Screening Assessment &bull; Preliminary Assessment PA &bull; Site Inspection plus SI Work Plan &bull; Site Reassessment The expected outcomes include the following: &bull; A Pre-CERCLA - Screening will determine if the site potentially score and whether further site assessment

9/27/2024

New Award

96290000

Region 2

Assistance for Small and  
Disadvantaged Communities Drinking  
Water Grant Program (SDWA 1459A)  
(L8)

P

|                          |              |           |           |              |
|--------------------------|--------------|-----------|-----------|--------------|
| SENECA NATION OF INDIANS | Indian Tribe | 10/1/2024 | 6/30/2025 | \$239,000.00 |
|--------------------------|--------------|-----------|-----------|--------------|

Cattaraugus Water System Improvements

work is warranted. • Preliminary Assessment - Sites will receive additional evaluation and site investigation work. The information will determine the future course of action. Environmental data will be gathered for the sites in order to determine what the next steps should be. The sites proposed for SI under this agreement will be conducted an ESI level of effort in attempts to expedite the decision form NPL listing. • Expanded Site Inspection- Secure enough information to determine whether to proceed with an HRS scoring package. • Site Reassessment- The typical outcome for a SR if for the site to be NFRAPed. • Hazard Ranking System Scoring Package &ndash; expect to assist on the completion of 2HRS Scoring Package during this project period.

**Subrecipient:**

No subawards are included in this assistance agreement

**Description:**

The agreement provides funding to Seneca Nation of Indians to implement projects and activities that assist public water systems serving tribes to comply with National Primary Drinking Water Regulations (NPDWRs) or otherwise further the health protection objectives of the SDWA. Specifically, the recipient will replace and install water mains and service lines to improve the reliability and serviceability of the Community Water System on the Cattaraugus Territory.

**Activities:**

The activities include replacing and installing 58,000 feet of 10-inch PVC water main, 71,000 feet of 8-inch PVC water main, 3,000 feet of water service lines, and associated valves, hydrants, and connections in order to improve the reliability and serviceability of the Community Water System on the Cattaraugus Territory. The project will serve 1,038 homes and 78 administrative buildings and businesses with upgraded water facilities. Through evaluation and water modeling, the water system was identified to have major leakage from unidentified sources in excess of 20% of the total daily water produced by the system which is an Indian Health Service Deficiency Level 3. The Nation worked with IHS to pursue federal funding by listing the proposed project in the FY 2022 IHS Sanitation Deficiency System (SDS).

This grant will partially fund construction operations in early 2025. Specifically, this grant will fund 2,134 ft of 8" HDPE watermain (at \$112/LF) from station B0+00 to station B122+00 as shown on the Cattaraugus Water System Improvements-Contract D plans (pages C-114 to C-132). Quantities are based on actual bid price received.

**Outcomes:**

The anticipated deliverables include upgraded water services to tribal members, homes and businesses in the Cattaraugus Territory served by the Cattaraugus Community Water System.

The expected outcomes include safe drinking water delivered to the communities served, reduced water loss and increased efficiency in the Community Water System.

The intended beneficiaries include the Seneca Nation of Indians Community, including homes, businesses and administrative buildings.

**Subrecipient:**



|          |           |          |                                                           |                                                      |  |
|----------|-----------|----------|-----------------------------------------------------------|------------------------------------------------------|--|
| 2/5/2025 | New Award | 02J93201 | Office of Chemical<br>Safety and Pollution<br>Preventions | Pollution Prevention Grants Program - B<br>BIL: (4U) |  |
|----------|-----------|----------|-----------------------------------------------------------|------------------------------------------------------|--|

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| STATE OF WASHINGTON | State | 3/1/2025 | 2/29/2028 | \$239,961.00 |
|---------------------|-------|----------|-----------|--------------|

FY 24-25 BIL Pollution Prevention P2

Description:

This Bipartisan Infrastructure Law (BIL) project will provide technical assistance (e.g., information, training, tools) to businesses to help them develop and adopt source reduction practices (also known as pollution prevention (P2)). P2 means reducing or eliminating pollutants from entering any waste stream or otherwise being released into the environment prior to recycling, treatment, or disposal. P2 practices can help businesses save money by reducing their resource use, expenditures, waste and liability costs, while at the same time reducing their environmental footprint and helping to protect human health and the environment. Through collaboration with subject matter experts, the Washington Department of Ecology aims to provide businesses with tailored solutions using on-site and off-site technical assistance strategies and deliver innovative training sessions. These technical assistance approaches will lead to a decreased release of pollutants associated with energy production, cleaning systems, and painting practices. These approaches are also designed to empower businesses to conserve natural resources, leading to a healthier environment and improved human health.

Activities:

This proposal aims to promote Pollution Prevention (P2) solutions through expert-led initiatives for businesses. Firstly, the Washington Department of Ecology will collaborate with an energy efficiency consultant to offer customized solutions, facilitating the adoption of P2 practices, from process adjustments to equipment upgrades. Secondly, they will engage a consultant to implement clean-in-place (CIP) equipment in food and beverage facilities, automating cleaning processes to notably cut water usage and toxic chemical use. Lastly, partnering with the Pollution Prevention Resource Center (PPRC), they will provide spray paint efficiency training using a virtual reality tool, which can reduce toxic paint consumption and the release of hazardous emissions. Their partners will deliver both on-site and off-site technical assistance to industries, fostering natural resource conservation and reducing toxic chemical use and hazardous waste generation.

Outcomes:

The technical assistance conducted by the grantee will benefit facilities in Washington state. The grantee is expected to report on P2 performance measures (outputs and outcomes) and note who will benefit from the technical assistance as well as commit to following-up with facilities to find out whether the technical assistance was adopted and implemented.

Subrecipient:

No subawards are included in this assistance agreement.

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|-----------|-----------|----------|----------|----------------------------------|---|
| 1/15/2025 | New Award | 96277625 | Region 2 | Source Reduction Assistance (X9) | C |
|-----------|-----------|----------|----------|----------------------------------|---|

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| THE RESEARCH<br>FOUNDATION FOR THE<br>STATE UNIVERSITY OF<br>NEW YORK | State<br>Institution of<br>Higher<br>Learning | 4/1/2025 | 3/31/2027 | \$242,000.00 |
|-----------------------------------------------------------------------|-----------------------------------------------|----------|-----------|--------------|

Green Solar Technology to Power the Future

Description:

The State University of New York (SUNY) at Binghamton will build upon their research in low-lead perovskite solar technology to reduce hazardous lead pollution in the manufacturing, deployment, operation, and end-of-life management of solar panels. The applicant will optimize and test its perovskite technology which uses 85% less lead content than traditional solar technology. The applicant will then provide technical assistance, education, and outreach to its partners which include solar panel manufacturers, energy delivery companies, nonprofit organizations, planning agencies, and local communities. At the end of the project, a workshop will be held at SUNY Binghamton to present its case study and lessons learned on this solar technology. The applicant will also hold a solar technology demonstration in the city of Binghamton which will highlight no-cost options for disadvantaged communities to adopt solar technology.

Activities:

The State University of New York (SUNY) at Binghamton will build upon their research in low-lead perovskite solar technology to reduce hazardous lead pollution in the manufacturing, deployment, operation, and end-of-life management of solar panels. The applicant will optimize and test its perovskite technology which uses 85% less lead content than traditional solar technology. The applicant will then provide technical assistance, education, and outreach to its partners. Its partners are expected to include HB Fuller (solar manufacturer), Avangrid (New York State [NYS] clean energy provider), Southern Tier 8 (planning agency for Southern Tier of NYS), and Network for Sustainable Tomorrow (local non-profit). The partnership with HB Fuller and Avangrid will promote the adoption of the low-lead perovskite solar technology. The partnership with Southern Tier 8 and Network for Sustainable Tomorrow will promote the adoption of this less toxic solar technologies in disadvantaged communities in NYS. Following the research and optimization of this solar technology, a workshop will be held at SUNY Binghamton to present its case study and lessons learned on this solar technology. The applicant will also hold a solar technology demonstration in the city of Binghamton which will highlight no-cost options for disadvantaged communities to adopt solar technology. A case study and success story will be generated and widely shared throughout NYS. This will support NYS's goals in making solar energy more accessible for homes, business and communities the NYS and helping to achieve NYS's goal of achieving 10+ gigawatts of distributed solar energy by 2030.

Outcomes:

Anticipated deliverables:

- One workshop targeting industry, planning groups and non-profit community groups.
- One solar demonstration targeting disadvantaged communities
- One case study
- One success story

Expected Outcomes:

- Pounds of Hazardous Materials: 250,000 lbs of lead
- Metric Tons of Carbon Equivalent (MTCE): 1200 MTCE
- Gallons of Water Conserved: 0
- Cost Savings: To be determined

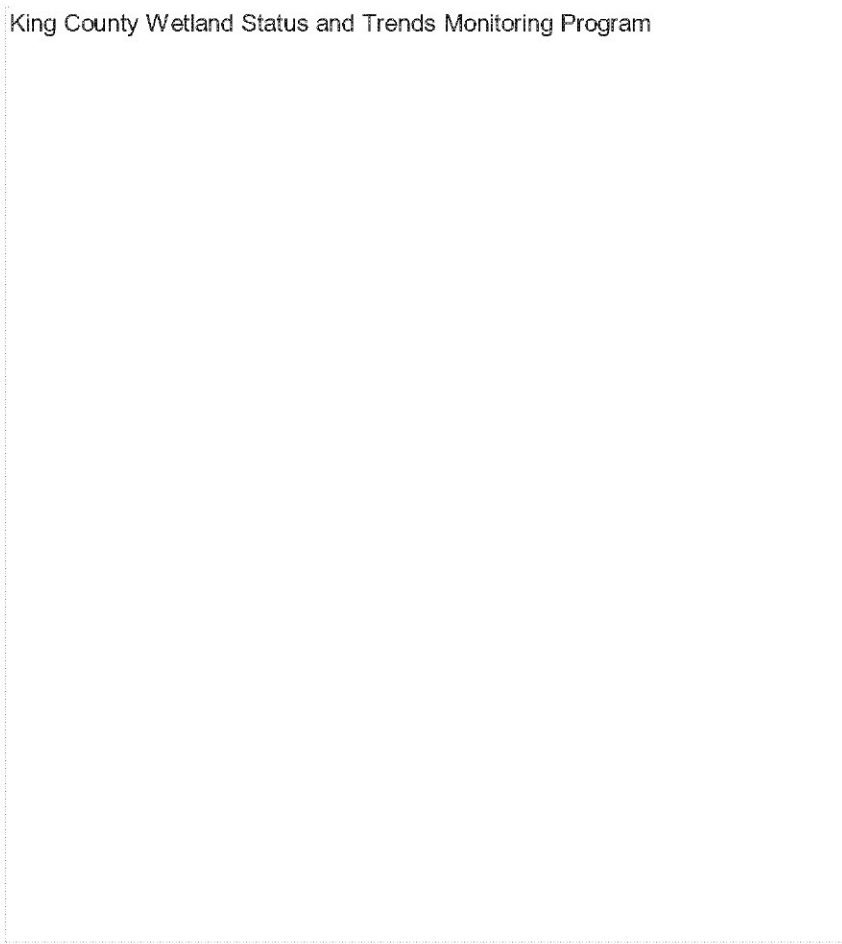
Intended Beneficiaries:

- HB Fuller (solar panel manufacturer)
- Avangrid (clean energy provider)
- Southern Tier 8 (planning agency serving the 8 counties of the Southern Tier of NYS)
- Network for Sustainable Tomorrow
- Disadvantaged communities in New York State



|           |           |          |           |                                                     |   |
|-----------|-----------|----------|-----------|-----------------------------------------------------|---|
| 9/13/2024 | New Award | 02J83401 | Region 10 | Regional Wetland Program<br>Development Grants (CD) | B |
|-----------|-----------|----------|-----------|-----------------------------------------------------|---|





Description:

The agreement provides funding to King County, WA. Specifically, the grant recipient will undertake the development of a wetland status and trends monitoring program that aims to enhance local wetlands by inventorying and assessing them with an emphasis on identifying wetlands that have a high potential for restoration. The project will involve the evaluation of wetland health, developing assessment methodologies, and monitoring the effectiveness of local conservation efforts. Additionally, the project aims to increase wetland conservation, promote climate resiliency, and support environmental equity in priority communities.

Activities:

The activities include developing more highly refined wetland maps, identifying potentially restorable wetlands, and creating a new wetland and buffer assessment method. King County will collaborate with The Washington Department of Ecology to publish this new wetland and buffer assessment method for public use. Additionally, King County will work to create a web-based plant list that identifies climate resilient plants that are native to Western Washington.

Outcomes:

Anticipated deliverables and expected outcomes include better local wetland maps and tools that are available state-wide, leading to increased wetland and wetland buffer identification for potential protection and restoration efforts within King County. Direct beneficiaries includes local and tribal governments, county and state agencies, and professionals in wetland consulting, restoration, protection and permitting within King County as well as the rest of Western Washington.

Subrecipient:

No subawards are included in this assistance agreement.

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| 1/14/2025 | New Award | 96277424 | Office of Chemical<br>Safety and Pollution<br>Preventions | Pollution Prevention Grants Program - C<br>BIL: (4U) |  |
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| DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK | State | 4/1/2025 | 3/31/2028 | \$253,955.00 |  |
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New York State Green Chemistry Initiative for the Chemical Manufacturing Industry

Description:

This agreement provides funding under the Infrastructure Investment and Jobs Act (IIJA) to the New York State Department of Environmental Conservation (NYSDEC). The recipient will provide technical assistance (e.g., information, training, tools) to businesses to help them develop and adopt source reduction practices (also known as pollution prevention (P2)). P2 means reducing or eliminating pollutants from entering any waste stream or otherwise being released into the environment prior to recycling, treatment, or disposal. P2 practices can help businesses save money by reducing their resource use, expenditures, waste and liability costs, while at the same time reducing their environmental footprint and helping to protect human health and the environment. Specifically, the NYSDEC will partner with the New York State Pollution Prevention Institute to provide training and technical assistance to the chemical manufacturing sector in New York State. The training will focus on increasing the awareness and adoption of green chemistry principles during product design, manufacture, marketing, and distribution. The technical assistance will include a series of in-person green chemistry training sessions, industry-specific green chemistry webinars, and on-site technical assistance projects with individual companies. The proposed project will improve human health and the environment in communities by reducing air, water, and/or land releases of Toxics Release Inventory (TRI) reportable chemicals through the application of green chemistry.

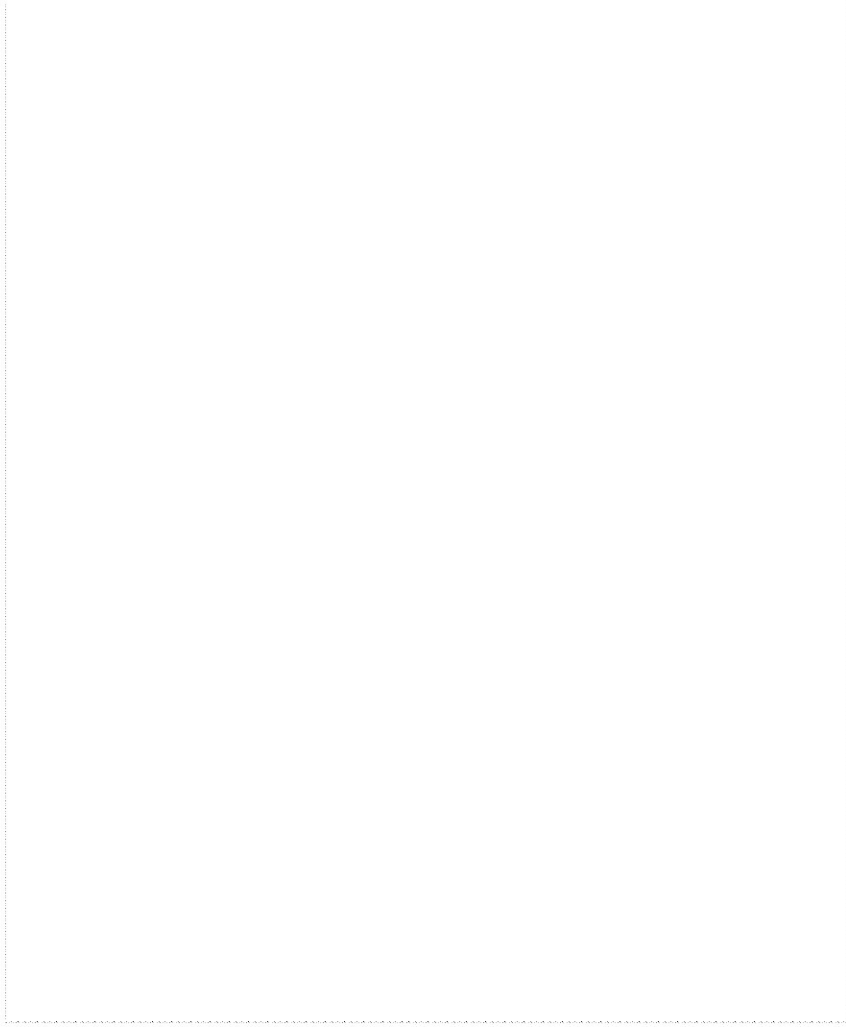
Activities:

The priorities for P2 technical assistance (information, training, and tools) align with one or more of the program's national emphasis areas (NEAs). Specifically, the project(s) activities will address the Chemical Manufacturing, Processing, and Formulations NEA. NYSDEC will partner with the NYSP2I to provide technical assistance to the chemical manufacturing sector in New York State. The training will focus on increasing the awareness and adoption of green chemistry principles during product design, manufacture, marketing, and distribution. The technical assistance will include a series of in-person green



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chemistry training sessions, industry-specific green chemistry webinars, and on-site technical assistance projects with individual companies. The proposed project will improve human health and the environment in communities by reducing air, water, and/or land releases of Toxics Release Inventory (TRI) reportable chemicals through the application of green chemistry. As such, this project closely aligns with the Chemical Manufacturing, Processing, and Formulations NEA.

**Outcomes:**

The technical assistance conducted by the recipient will benefit facilities and, if applicable, may address underserved communities. The recipient is expected to report on P2 performance measures (outputs and outcomes) and note who will benefit from the technical assistance as well as commit to following-up with facilities to find out whether the technical assistance was adopted and implemented.

**The anticipated deliverables include:**

- Develop green chemistry training material tailored to chemical manufacturing companies in New York State
- Provide four in-person one-day training sessions on green chemistry in different locations throughout New York State.
- Provide direct on-site technical assistance to at least two chemical companies in New York State
- Create and conduct two industry-specific green chemistry webinars to the Chemical Manufacturing industry in NYS.
- Create two case studies and one success story based on on-site technical assistance to two companies.
- Create Final report which will measurable results achieved.

**The expected outcomes include:**

- Reduction of hazardous materials/chemicals: To be determined
- Reduction of metric tons of carbon equivalent: To be determined
- Reduction of gallons of water: