

US EPA Region 2 Citizen Science Equipment Loan Program

REQUEST FOR APPLICATIONS

Water Monitoring for New York / New Jersey

March 2022

www.epa.gov/citizenscience

The United States Environmental Protection Agency (EPA Region 2) is inviting applications for use of field and laboratory equipment for water monitoring work. EPA Region 2 has the following equipment available for loan:

- Field Equipment: YSI ProPlus Multi-Parameter Sondes, Garmin GPS units, Turbidity Tubes, Manta Trawl for Microplastic Collection
- Laboratory Equipment for Pathogen Monitoring: Tabletop Incubators with thermometer, IDEXX Quanti-Tray Sealers and inserts, UV Viewing Cabinet with UV bulb, Infrared Thermometer for samples, manual pipette pumps

EPA Region 2 is making this equipment available to NGOs (e.g., volunteer monitoring organizations, citizen science groups, non-government organizations, universities, local governments, etc.) within New York and New Jersey. The deadline to submit applications under the equipment loan program is **Sunday, April 10th**.

This request for applications (RFA) includes:

- 1. Overview
- 2. Project Goal
- 3. Conditions of Equipment Loan Agreement
 - a. Applicants Eligibility
 - b. Equipment Availability
 - c. Schedule
 - d. Documentation and Deliverables
 - e. Technical Assistance
 - f. Ownership
- 4. Application Requirements
- 5. Submission Process
- 6. Notification of Decision
- 7. Contacts



Appendices

- Appendix A. PDF Copy of EPA Region 2 Citizen Science Equipment Loan Application
- Appendix B. EPA Loan Agreement Form 1780/Terms and Conditions
- Appendix C. Consumable Cost Estimates
- Appendix D. EPA Region 2 Citizen Science Equipment Loan Monthly Report Form

Note on hyperlinks: With very few exceptions, all links in this document are external to epa.gov



1. Overview

The U.S. Environmental Protection Agency (EPA) has identified improving water quality as one of its highest priorities. The agency recognizes the value of monitoring data in guiding EPA, States and Tribal Nations in efforts to improve the health of the Nation's waters. There are waters, however, that States, Tribal Nations and EPA are not able to monitor at all or only on a very limited basis. In U.S. EPA Region 2, volunteer water monitoring groups have played a valuable role in supplementing available monitoring data to state regulatory agencies for over twenty-five years.

In recent years, EPA Region 2 has focused on non-profit organizations (e.g., universities, citizen science groups, non-government organizations, local governments, etc.) who have been, or are interested in, collecting data to better understand their local environment and address issues of concern. These projects conducted by volunteers with or without the assistance of government or academia, have been remarkably successful in expanding scientific knowledge, raising public awareness about the environment, and leveraging change over the past decade.

With this equipment loan program, U.S. EPA Region 2 will continue to support the work of nonprofit organizations (e.g., volunteer monitoring organizations, citizen science groups, nongovernment organizations, universities, local governments, etc.) to meet the goal of expanding the number of water bodies which are monitored within their communities.

2. Project Goal

The goal of the EPA Region 2 Citizen Science Water Monitoring Equipment Loan Program is to provide the tools and a framework to enable citizens to take an active role in their community and watershed by providing quality data to enhance environmental stewardship, create healthy and sustainable communities, support community-driven solutions, and to collaborate with government at all levels in protecting the environment. The equipment loan program will allow citizen scientists to have access to uniform monitoring equipment to collect data that can have a meaningful impact in their communities.

3. Conditions of Equipment Loan Agreement

a. Applicants Eligibility

The equipment loan program is open to all non-profit organizations (e.g., volunteer monitoring organizations, citizen science groups, non-government organizations, universities, local governments, etc.) and Tribal Nations in New York and New Jersey. The equipment loan program is open to organizations with a wide spectrum of experience levels – those that are just getting started as well as those with extensive experience.



As in previous years, priority will be given to Tribal Nations, non-profit organizations monitoring urban waters and/or waters in Environmental Justice areas, and organizations that currently provide monitoring data to agencies.

EPA Region 2 also includes Puerto Rico and the US Virgin Islands, which have a separate application process. For more detail, please contact the EPA Region 2 Citizen Science Coordinator, Rachael Leta-Graham, at <u>letagraham.rachael@epa.gov</u>.

b. Equipment Availability

This loan program is restricted to equipment only and does not include expendable sampling or analysis supplies, i.e. YSI calibration standards, sampling containers, gloves, coolers, laboratory reagents/standards, Quanti-Trays, sterile DI water, cleaning supplies, etc. For a list of estimated costs, please see Appendix C.

The equipment loaned in 2021 will include the following pieces and their availability. The links lead to either manufacturer sites or an example from a supplier, but are only provided as examples and are not images of the exact equipment:

- Field Equipment:
 - <u>YSI Pro Plus Multiparameter Sonde</u> 7 available
 - Garmin GPS Units: <u>Oregon</u> and <u>Montana</u> 650T models 7 available
 - <u>Turbidity Tubes</u> 7 available
- Laboratory Equipment:
 - Tabletop Incubator and paired calibrated thermometer 5 available
 - IDEXX Quanti-Tray Sealer and Inserts 5 available
 - <u>Calibrated Infrared Thermometer for samples</u> 5 available
 - <u>UV Viewing Cabinet with 365nm long-wave UV light bulb</u> 5 available
 - UV bulb not for disinfection of pathogens, but for viewing trays
 - <u>Manual Pipette Pumps</u> 5 sets available
- Microplastic Collection Equipment:
 - <u>Manta Trawl</u> 1 available

The number of units given to a group will be based on the project needs, as well as the number of groups selected under this RFA.

The Environmental Protection Agency's purchase and loan of these equipment are not endorsements or validation of the units or data produced during the loan program.



c. Schedule

The schedule* for this RFA and resulting loan is as follows:

Applications Due to EPA Region 2	April 10 th , 2022
Applicants Notified of Decision	May 2 nd , 2022
Equipment Delivered & Any Training Provided	Begin May 2022
Projects Commence	Summer 2022
Latest Date for Projects Completed, Equipment	December 16, 2022
Returned	
Final Reports Due to EPA Region 2	June 30, 2023

* Schedule is subject to change.

d. Documentation and Deliverables

The required documentation and deliverables for this project will be the following:

- 1. **Loan Agreement** signed by the organizational point of contact responsible for the equipment. (Appendix B).
- 2. Quality Assurance Project Plan (QAPP). The QAPP is a tool to guide the outlining of project objectives, specifics of sample collection and analysis, including proposed sampling schedule, and the intended use of the data. It is appropriate for an applicant to utilize or build upon an existing, relevant QAPP if one exists. The QAPP must be submitted before the project begins. For more information about QAPPs, see <u>https://www.epa.gov/quality/epa-quality-management-tools-projects</u>. For the EPA Citizen Science QAPP Handbook, see <u>https://www.epa.gov/citizen-science/handbook-quality-assurance</u>
- 3. **Monthly reports** delivered to the EPA Region 2 Citizen Science Coordinator via <u>Google Forms</u> for the duration of the project (Appendix D)
- 4. **Final project report** detailing the objectives, results and impacts of their study. The format may be decided between the loan recipient and EPA Region 2 Citizen Science Coordinator.

e. Technical Assistance

EPA Region 2 is available for help with the QAPP and technical assistance regarding the equipment, as well as other needs that may arise. EPA will provide recipient with training on equipment loaned to them.

The state agencies will be notified of the projects in their jurisdiction and may be able to provide additional technical support as needed and appropriate.



EPA provides a courtesy review of the QAPP but cannot *approve* QAPPs as part of this Equipment Loan Program:

Through the applicable Parts of Title 40, Protection of Environment of the Code of Federal Regulations (CFR), the United States Environmental Protection Agency (EPA) requires that recipients of funds for work involving environmental data comply with either the EPA Quality Policy or the American National Standard ASQ/ANSI E4-2014 "Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs". EPA's quality-related regulations apply to contracts, cooperative agreements, grants, interagency agreements and agency mandates. For example, 2 CFR 1500.11 is the grants Quality Assurance general regulation. In addition, a number of sections in 40 CFR 35 apply to different programs. Contracts are addressed in 48 CFR 46.202.

EPA personnel do not have the authority to approve documentation of an organization's quality system and the implementation of this system for work performed involving the collection and/or use of environmental information when that work is not funded by EPA. This documentation includes but is not limited to Quality Management Plans, Quality Assurance Project Plans, etc. Should EPA choose to use the data collected by a non-funded entity or project at a later date, EPA personnel will ensure a QAPP is prepared for the secondary use of this data.

USEPA provides QAPP preparation information and templates for voluntary, non-EPA funded projects/collection of environmental data solely as a public service. Use of this information and/or templates neither represents nor implies endorsement by EPA or EPA's intent to use the data generated.

f. Ownership

All materials, software, maps, studies, reports, and other products or data, regardless of physical form or characteristics, produced as a result of this solicitation, in whole or in part, under an agreement with EPA shall be made available to EPA in the formats in which it is stored or maintained. EPA shall have an unrestricted right to use any products or data specified to be delivered.

All equipment provided to the applicants belongs to EPA Region 2 and will remain EPA equipment for the duration of the loan. Applicant agrees to maintain equipment in good working condition and return within the approved timeframe. Applicant agrees to notify EPA of loss or damage to the equipment. Damaged equipment may be repaired by EPA or may need to be returned to EPA without replacement, depending on circumstances. In the event of complete loss or damage, the applicant will be responsible for the full cost of replacement.



4. Application Requirements

The application process of this loan program is a simplified online form. Applicants must submit an application, available here: <u>https://forms.gle/6zHJHK2eP67m5A9z5</u> (PDF copy also available as Appendix A). The applications will be ranked in a competitive process by a Review Committee, that will be composed of regional EPA staff.

Using the Selection Criteria below, the Review Committee will assign a score to each application, and based on these scores, assign a rank order to each. The goal of the Review Committee will be to equally distribute the equipment as best it can based upon ranked applications.

a. Application Process

- All applications must be received by April 10, 2022.
- Applicants **must** submit applications **electronically** through either the <u>online</u> <u>application form</u> (Appendix A) or through email to the EPA Region 2 Citizen Science Coordinator (contact information below).
- **b.** Selection Criteria will be used to review all project applications:
 - Scientific merit: Is a project scope defined and scientifically sound? Is the organization capable of carrying out their proposed project? Are critical parameter measurements specified for the project? How effectively will the data be used? Will the data be used comparatively within the study area or will it be used in comparison to other networks or standards?
 - **Feasibility**: How likely is it to work? If the proposed project is part of an existing project, how will the use of this equipment enhance the existing effort? If the proposed project is new, can it be implemented in a timely manner?
 - **Relevance**: How responsive is the project to an environmental concern? Does this project address local environmental concerns or public health issues? Is the research community-driven rather than supporting EPA and/or state/local/tribal governments?
 - Impact: Is there potential for a significant impact on a community? Is the project located in an area of Environmental Justice concern? What is the degree to which results of the project may have broad application or affect an area of research? Will the organization be working to include individuals from disadvantaged communities in their training/education program when conducting the project?



5. Submission Process

Applications must be submitted no later than **Sunday, April 10, 2022.** No late submissions will be considered. Applicants must submit their applications via the <u>online form</u> or via email to the EPA Region 2 Citizen Science Coordinator. Unless prior approval is given, applications received through postal delivery, or any other method will not be accepted.

To submit your application via email or include any relevant files to your online application, send an email to the EPA Region 2 Citizen Science Coordinator, Rachael Leta-Graham, at <u>letagraham.rachael@epa.gov</u>. You will receive an email within 24 hours confirming receipt of submission.

6. Notification of Decision

Decision notification to applicants is expected by May 2, 2022. The EPA Region 2 Citizen Science Coordinator will reach out to the selected groups, who will begin the process of writing their Quality Assurance Project Plans (QAPPs) and/or other documentation at this time. Projects cannot start until this documentation been received. The equipment may be made available at EPA's discretion prior to the project start to begin training appropriate staff.

7. Contacts

For any inquiries and for application/document submission, contact the EPA Region 2 Citizen Science Coordinator:

Rachael Leta-Graham U.S. Environmental Protection Agency Region 2 2890 Woodbridge Avenue Edison, NJ 08837 (732) 321-4438 <u>letagraham.rachael@epa.gov</u>



APPENDIX A

COPY OF 2022 EPA REGION 2 CITIZEN SCIENCE EQUIPMENT LOAN PROGRAM APPLICATION

2022 EPA Region 2 Citizen Science Equipment Loan Application

Open to New York & New Jersey for Water Monitoring Equipment

Direct any questions to: Rachael Leta-Graham, Citizen Science Coordinator letagraham.rachael@epa.gov

* Required

Your Contact Information

1. Name of Your Organization: *

2. City: *

3. State: *

Mark only one oval.

New Jersey

🔵 New York

4. Type of Organization: *

Check all that apply.

5. Brief Description of Organization: * Including your organization's general purpose/goals

6. Website:

Facebook counts too!

7. Name of Contact: *

8. Email: *

Is your organization or project located in an Environmental Justice area? *
 If so, please let us know the location you are referring to

Your Equipment Request

 Field Equipment for Water Quality: * for in-situ measurements

Check all that apply.

- YSI Multi-parameter Sonde (Temp, DO, pH, Conductivity, Salinity)
- Turbidity Tube
- Handheld Garmin GPS unit

N/A

11. Lab Equipment for Pathogen Analysis: * for analysis of e.coli, enterococcus or total coliforms

Check all that apply.

- Tabletop Incubator & Thermometer
- Idexx Quantitray Sealer
 - UV Light with Box
- Infrared Thermometer (for samples)
- N/A
- 12. Field Equipment for Microplastic Collection: *

Will not work with canoes/kayaks! Requires regular access to a boat - minimum 18 feet.

Check all that apply.



- 13. How many people do you expect will use this equipment regularly? *
- 14. Does anyone in your organization have prior experience with the equipment you are requesting? Please describe. *

15. Will you need training to use the equipment you are requesting? *

Mark only one oval.

Yes No Maybe	
Your Project Information & Data Use	A Quality Assurance Project Plan (QAPP) is required for most projects in order to receive the equipment. - If you already have one for this project, please submit with this application. - If not, that's ok! If you are selected to receive equipment, EPA will follow up with documentation requirements based on intended data use Recipients will submit a Final Report to EPA Region 2 - a template can be provided.

2022 EPA Region 2 Citizen Science Equipment Loan Application 16. Please provide a description of your project, its goals and reason for requesting each set of equipment: * If you already have some kind of QAPP/project plan, feel free to note that below & email your document to letagraham.rachael@epa.gov after submitting the application. Name of Waterbody(s) you will be sampling: * 17. List specific parameters to be measured for this project: * 18. 19. Estimated sampling start date: * Example: January 7, 2019 Estimated sampling end date: * 20. Example: January 7, 2019

- 21. Estimated number of locations: *
- 22. Number of Planned Sampling Events: *
- 23. Sampling Frequency (monthly/weekly/etc.): *
- 24. If you plan to consistently sample on specific days of the week, please let us know:

Check all that apply.

Mondays

Tuesdays

Wednesdays

Thursdays

Fridays

Saturdays

Sundays

I don't know yet

I won't be sampling on specific weekdays

25. What is your intended use of the data you will collect? *

Check all that apply.

Educational

Screening Level

Assessment Level (i.e. waterbody listings)

26. Please describe how your project data will be used and how the data will be distributed to your user and/or the public: *

Examples: education only / publish on Facebook for public info / work with local governments to fix issues / areawide report card / submit to state / etc.

Funding & Partners

27. Please list your organization's funding mechanisms:

28. Is your organization able to purchase the required consumables, whether through your own funds, grants, etc?: * For YSI units: calibration fluids only / For lab equipment: consumables will run about \$10/sample 29. If you are currently an EPA grantee, or have received an EPA grant in the last 24 months, please list the grant and EPA project officer here. Please also describe any other grants you have received related to this project: *



30. Do you have any partners for this project? *

this includes states, municipalities, environmental groups, schools, universities, etc.

Mark only one oval.

____ Yes

Maybe

No

31. If yes, please provide the groups you will partner with and any relevant contact info:

Wrap Up

32. Please provide any additional comments you have here:

33. Check all that apply for your project/organization: *

Check all that apply.

Quality Assurance Project Plan (QAPP) will be in place before start of project
Be able to purchase own sampling & analysis supplies (i.e. YSI calibration solutions,
deionized water, IDEXX quanti-trays & reagents)
Provide monthly status updates for duration of project
Data and report available within 6 months of project completion
Collaboration with a State or Local Government with specific uses of the data identified
Equipment and/or data to be used for Community Outreach or Education
All or part of project located in Environmental Justice area
Equipment will be returned on time (December 16, 2022) and maintained in good working
condition

If you currently have any supporting documentation (site map with sampling stations/sampling schedule/QAPP/Project Plan), please submit to Rachael Leta-Graham at letagraham.rachael@epa.gov

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APPENDIX B

EPA Loan Agreement Form 1780/Terms and Conditions Example Document

o 7.	Unite	d States			
	Environmenta	l Protection Agen	ıcy		
THATAL PROTECTO	Washing	ton, DC 20460			
	PERSONAL PROPE	ERTY LOAN AGRI	EEMENT		
1. Loan Number	2. Loan	n Date:			
		From:		_To:	
Recipient					· · · · ·
Address:		P	Point of Contact:		
		F	Phone/Fax:		
			Phone/Pax.		
4. Purpose of Loan:					
	$\mathbf{\Lambda}$				
 The property described t recipient named above 	pelowns offered by file U.S. Env for a period not to exceed one v	aronmental Protecti ear. (Give complete	on Agency f description	or use without char and identification n	ge to the umbers, if
any.) Use continuation	sheet if necessary.		•	,	-
Item Number	Description	EI	PA Decal	Serial Number	Acquisition Cost
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	•				
			\mathbf{X}		
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6. This agreement is entere	d into with the understanding th	at the property iden	tified shall r	emain that of the U	S.
6. This agreement is entere Environmental Protecti	d into with the understanding th on Agency and that this agreem	at the property iden ent may be terminat	tified shall r	emain that of the U ssion of a ten (10) o	S. Jay prior
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6. This agreement is entere Environmental Protecti written notice to the rec Name/Title of EPA Author	d into with the understanding th on Agency and that this agreem ipient by EPA (see full terms ar Environmenta ized Official	at the property iden ent may be terminat nd conditions on rev al Protection A Sig ecipient	ttified shall r ted by submi verse). Agency mature	emain that of the U ssion of a ten (10) o	S. lay prior

Terms and Conditions of Loan

- 1. The Recipient shall:
 - A. return the loaned property in like condition as when received from EPA, normal wear and tear excepted, and free of contamination, on or before the expiration date (as set forth in Section 2 of the first page of this Loan Agreement), unless the loan period is formally extended or terminated before the expiration date;
 - B. in case of loss or damage of the loaned property, reimburse EPA at the current price of the replacement or repair;
 - assume all cost involved in preparing, handling, loading, disconnecting, and transporting the loaned property from and to EPA;
 - D. indemnify and pold harmless the United States against any and all liability loss, damages, glaims, and costs incidental thereto as a result of Recipient's use or possession of the loaned property; and
 - E. use the loaned property only for the purpose specified in the loan agreement.
- 2. The loaned property shall not be modified, loaned, or transferred to a third party without the prior written permission of EPA.
- 3. The Recipient shall account for, or permit physical inspection of, the loaned property by EPA after notification from EPA.
- 4. Title to the loaned property is vested in and will remain with the United States and the loaned property shall be used only for official purposes (as described in Section 4 of the first page of this Loan Agreement).

I have read and understand the terms and conditions of this loan agreement.

Signature



APPENDIX C

CONSUMABLE COST ESTIMATES

LIST OF SUPPLIES AND REAGENTS SUGGESTED (Avail. In Spanish)

** Prices are estimated and this is not an exclusive list ** Suggested vendors available as well

FOR BACTERIOLOGICAL ANALYSIS USING IDEXX

- REAGENTS/SAMPLE CONTAINER

- For 100 Sample Analyses smaller quantities available for most items
 - Sample Collection Vessel, 120 mL, Sterile (\$115 per 100)
 - Without sodium thiosulfate
 - With Sodium thiosulfate (dechlorinating agent)
 - Quanti-Tray 2000 (\$155 per 100)
 - Reagent/Snap Packs (\$650 per 100)
 - Enterolert if measuring Enterococcus
 - Colilert if measuring Total Coliform and/or *E. coli*
 - Colilert-18 if measuring Fecal Coliforms
 - Quanti-Tray Comparator (\$31 for 1) purchased annually

STERILE DEIONIZED WATER FOR SAMPLE DILUTIONS AND QUALITY CONTROL

- Deionized Water, 90 mL, Sterile One Use (\$112 for 50)
- Deionized Water, 99 mL, Sterile One Use (\$133 for 50)

*NOTE: 90 mL for sample dilution (10%) and 99 mL for QC Blank and Positive control samples.

- QUALITY CONTROL SAMPLES

- Enterococcus faecalis, 100-1000 CFU (\$94 for pack of 10 pellets)
 - Used for positive controls and demonstration of capability testing of analysts using Enterolert Test
 - Performed on each batch of samples; QC pellets available from several vendors (e.g. Sigma, NSI, etc.) at similar prices
- As an alternative, there is a "QC PACK" available from IDEXX for *Enterococcus*. It contains a positive control and two types of negative control organisms. A set of 3 organisms in triplicate is approximately \$175.
- E. coli, 1000-2000 CFU (\$94 for 10 pack)
 - Used for positive controls and demonstration of capability testing of analysts using Colilert for Total Coliform and/or *E. coli* and Colilert-18 tests for Fecal Coliform.
 - Performed on each batch of samples; QC pellets available from several vendors (e.g. Sigma, NSI, etc.) at similar prices
- As an alternative, there is a "QC PACK" for E. coli and Fecal Coliforms:
 - **Colilert and Total Coliform and/or** *E. coli* **Testing** It contains a positive control and two types of negative control organisms. A set of 3 organisms in triplicate is approximately \$175
 - **Colilert-18 and Fecal Coliform Testing** It contains a positive control and negative control organism. A set of 2 organisms in triplicate is approximately \$175.

LIST OF SUPPLIES AND REAGENTS SUGGESTED (Avail. In Spanish)

** Prices are estimated and this is not an exclusive list ** Suggested vendors available as well

RECOMMENDED CONSUMABLES, LAB SUPPLIES, SAFETY EQUIPMENT

- Clorox Disinfecting Spray and Paper Towels
- Pipettes, 10 mL, Sterile, Individually Wrapped, One Time Use
- Data Sheets
- Pen with black ink; Indelible Marker
- Dedicated microbiological waste container
- Waterproof Laser Labels
- Safety Glasses
- Disposable Gloves (preferably Nitrile)
- Sample Bottle Outer Plastic Bags (i.e. ziplock bags)
- Cooler and Ice

LIST OF REAGENTS FOR YSI MULTIPARAMETER SONDE

- pH Buffers 4, 7, 10
 - pH Buffer Pack, 500 mL (1 pint) Each of 4, 7, and 10 unit pH buffers (\$30)
 - other sizes and individual bottles available
 - \circ 1 Liter each
 - pH 4 (\$21)
 - pH 7 (\$21)
 - pH 10 (\$22)
- <u>Conductivity Standards</u>
 - For Freshwater: 1,000 S/cm (1 mS/cm)
 - 1 Liter (\$30)
 - 1 quart (\$78)
 - 8 pints per case (\$133)
 - For Brackish Waters: 10,000 S/cm (10 mS/cm)
 - 1 Liter (\$25)
 - 1 quart (\$78)
 - 8 pints per case (\$133)
 - For Marine Waters: 50,000 S/cm (50 mS/cm)
 - 500 mL (\$10)
 - 8 pints per case (\$133)



APPENDIX D

Copy of 2022 EPA REGION 2 CITIZEN SCIENCE EQUIPMENT LOAN PROGRAM Monthly Report Form

2022 Monthly Report Template

For EPA Region 2 Citizen Science Equipment Loan Program

* Required

1. For Sampling Dates from

Example: January 7, 2019

2. For Sampling Dates to

Example: January 7, 2019

- 3. Organization Name *
- 4. Total Number of Individuals Engaged in Sampling: *
- 5. Approximate Cumulative Number of Hours Sampling: *

Field Work

Only fill out fields relevant to your project

6. Number of Stations Visited

- 7. Number of YSI Readings Taken (one recording of all parameters, not individual)
- 8. Number of Turbidity Tube Readings Recorded
- 9. Number of Samples Collected for Pathogens
- 10. Number of Samples Collected for Microplastics
- 11. Number of Samples Collected for Other (please identify type)

Analysis

Only fill out fields relevant to your project

12. Number of Pathogen Samples Analyzed for Enterococcus

13. Number of Pathogen Samples Analyzed for E.coli

14. Number of Pathogen Samples Analyzed for Total Coliforms

- 15. Number of Microplastic Samples Processed
- 16. Number of Samples Analyzed for other parameters (please specify)

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