



Environmental
Protection

New York City's On-Site Water Reuse Grant Program Pilot Program

April, 2018

- Program Vision
- Available Grants and Eligibility
- Application Process and Timeline
- Design, Construction, and Operation & Maintenance
- Sources for More Information

Program Vision

- DEP's sustainability strategy includes:
 - optimizing the city's existing system,
 - promoting water conservation, and
 - preparing for climate change.





On-Site Water Reuse Grant Program:

Incentivize commercial, mixed-use, and multi-family residential sectors to install water reuse systems by covering a portion of efficiency technology capital costs.

Available Grants and Eligibility

Available Grants and Eligibility

Grant Size	Description	Target Water Savings	Funding Amount
Building-scale	Typically 100,000 square feet or more of residential or commercial space	32,000 gallons per day	Up to \$250,000
District-scale	Typically includes the sharing of water between two or more parcels	94,000 gallons per day	Up to \$500,000


- The proposed project is completed by a water service customer of DEP.
- The proposed alternate water source system must be permanent and operational for a minimum of 10 years.
- The Applicant must comply with the Department of Buildings Plumbing Code, all applicable rules and regulations required by the Department of Health, and other applicable rules and regulations.

- The Applicant must provide a complete application package, including an application form, environmental compliance (CEQR) documentation, project work plan, project schedule, budget, and completed DEP Non-Potable Water Calculator workbook.
- The project must be constructed within 4 years of the Funding Agreement approval date and must offset potable water use immediately after the System Certification is issued by Department of Buildings.
- Documentation must be provided showing that the Applicant's system reliably achieves target water savings for 10 years.

Application Process and Timeline

Application Process and Timeline

- Applications can be submitted at any time throughout the year.
- Each application will be evaluated for completeness, feasibility, and respective cost/benefit ratio.
- Number of awards may be limited based on available funding.



Application Form
New York City
Department of Environmental Protection
On-site Water Reuse Grant Program

PROPERTY INFORMATION

Borough:	Block:	Lot:
DEP Account Number(s):		
Service Address (from DEP bill):		
Construction Type (check only one): <input type="checkbox"/> New Construction <input type="checkbox"/> Remodel/Major Alteration <input type="checkbox"/> Re-plumbing		
Project Type (check one): <input type="checkbox"/> Multi-Family Residential (4 or more units) <input type="checkbox"/> Commercial (Non-Residential) <input type="checkbox"/> Mixed Use (Commercial & Residential) <input type="checkbox"/> Other:		
Residential Occupancy Square Footage:	Commercial Occupancy Square Footage:	

PROPERTY OWNER INFORMATION

Owner Name:	
Business Address:	
Phone:	Fax:
E-mail:	

MANAGING AGENT INFORMATION

Owner Name:	
Business Address:	
Phone:	Fax:
E-mail:	

APPLICATION CONTACT INFORMATION
If different than the Owner or Managing Agent, the Owner or Managing Agent must complete the attached Owner Authorization Letter.

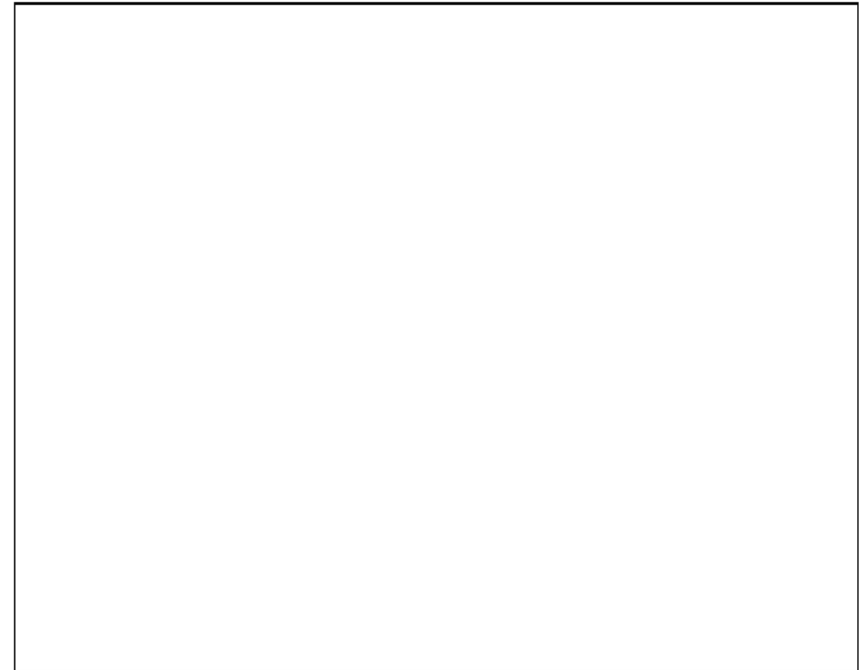
Owner Name:	
Business Address:	
Phone:	Fax:
E-mail:	

- Grant recipients will receive a Conditional Acceptance Package, pending DOB permitted design
- Once DOB permitted design is received, Grantee signs the DEP's Grant Funding Agreement, and other paperwork.
- Disbursement of up to 50% of the total grant will be made upon approval of Funding Agreement.



ON-SITE WATER REUSE SYSTEM DESCRIPTION

Please provide a brief description of on-site water reuse system including: design for non-potable water system – description of alternate water sources to be used, description of treatment, description of non-potable applications.



CHECKLIST FOR THE APPLICATION PACKAGE

1. Application Form
2. Project Work Plan
3. CEQR Compliance Documentation
4. Schedule
5. Budget
6. Completed DEP Non-Potable Water Calculator (download at nyc.gov/dep/reusegrant)

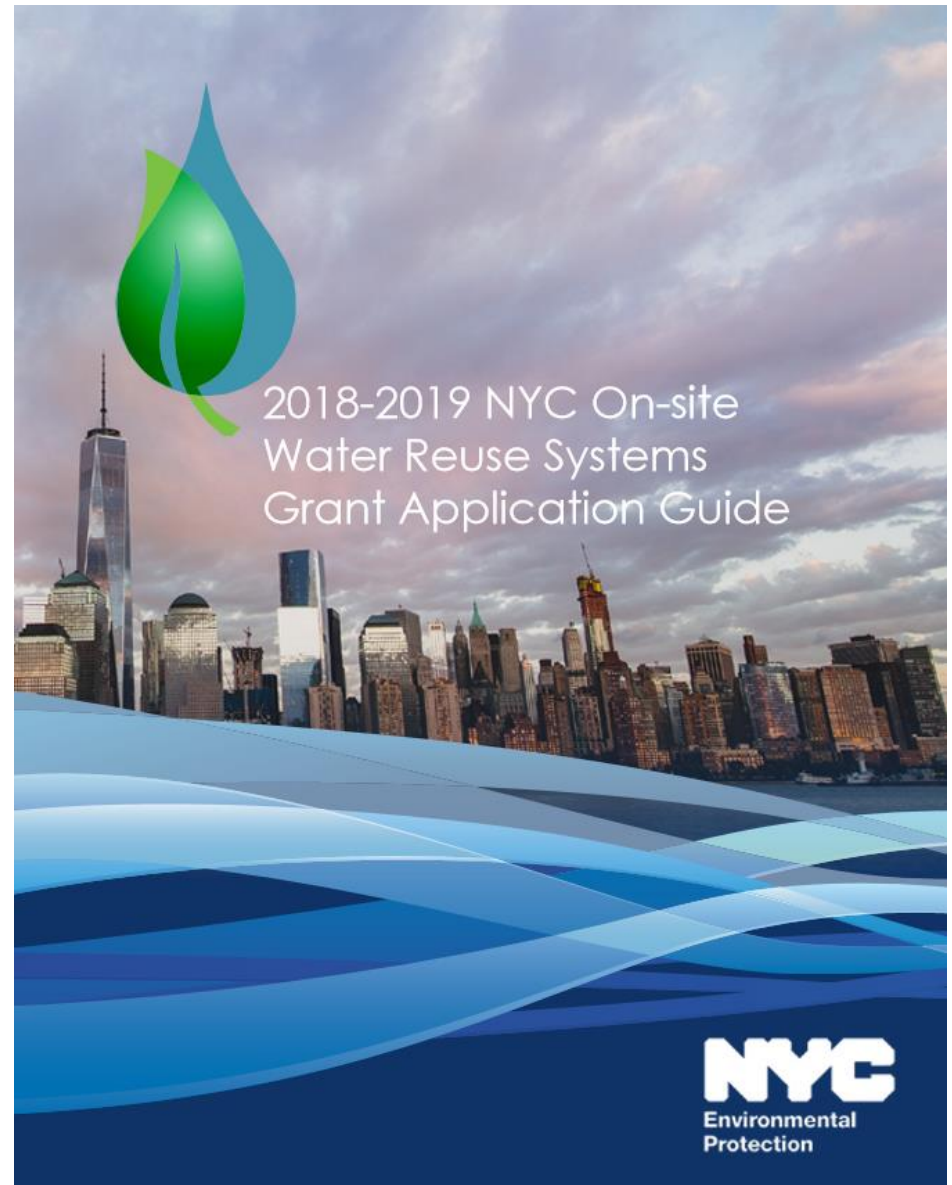
MAILING ADDRESS

Attention: On-site Reuse Grant Program Manager
New York City Department of Environmental Protection
59-17 Junction Boulevard, 11th Floor
Flushing, NY 11373

- The Grantee must commence construction within 6 months and complete construction and commissioning within 4 years of Funding Agreement approval date.
- The final disbursement of the remaining grant total will be processed once Project Completion Form and Department of Buildings System Certification are completed and submitted.

Design, Construction, and Operation & Maintenance

- A guide has been developed for property owners and building managers to navigate New York City's regulations for the design, construction and operation of on-site water reuse systems.



- Definitions of terms related to alternative water sources and treatment
- New York City specific information on allowed treatment systems and end uses

Treatment Overview



Black Water



Black water is the most contaminated source of water available on-site; however, it is often one of the easiest to collect as it does not require a separate collection system and can typically be collected at a single location prior to discharge to the sewer. **In addition to the filtration and disinfection requirements for all other alternate water sources, black water systems also require biological treatment to lower the levels of organic material in the water.** This is typically achieved by introducing simple bacteria into the wastewater to digest the organic material. The bacteria are then filtered out in a downstream treatment process.

Gray Water



Gray water quality is highly variable and site- specific. Gray water contains many of the same contaminants as black water, but in much lower quantities because it has not come into contact with food or human waste. **Filtration and disinfection is usually sufficient, without further treatment, to meet water quality criteria.**

Rainwater



Precipitation is typically clean when it falls from the sky; however, rainwater may become contaminated during collection or from particulate matter in the atmosphere. Rainwater systems typically require the least amount of treatment. In general, debris excluders, first flush diverters, and filtration provide adequate treatment to maintain a rainwater system. **Disinfection of rainwater may be required for some uses.**

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Design Approval & Permitting

Construction

Reuse System Certification Requirements

1 Submit DEP On-Site Water Reuse Application

Agency: DEP

Outcome: Conditional Acceptance Package pending DOB permitted design

2 Sign Conditional Acceptance Package

Agency: DEP

Outcome: Applicant confirms they will execute the Funding Agreement and required paperwork

3 Submit a Copy of Approved DOB Permitted Design to DEP

A copy of the on-site water reuse system may require approval by the Department of Health and Mental Hygiene.

Agency: DEP, DOHMH

Outcome: DEP will send Grant Acceptance Package to Grantee

4 Submit Grant Acceptance Package

Includes the Funding Agreement and Restrictive Covenant.

Agency: DEP

Outcome: Upon approval and execution of Grantee Agreement DEP issues initial grant reimbursement (requires copies of invoices)

5 Construct System

Inspections shall be conducted during construction, after construction completion and periodically based on the City's discretion.

Agency: DOB

Outcome: Inspection Reports

6 Phase 1, Construction Completion Certification

Verification that system was constructed in accordance with plans, specifications and codes.

Agency: DOB, Office of Technical Certification and Research

Outcome: Construction Completion Certificate from DOB

7 Phase 2, Wet Testing Certification

The system shall be certified confirming the absence of leaks and the integrity of the system components.

Agency: DOB, Office of Technical Certification and Research

Outcome: Wet Testing Certificate from DOB

8 Phase 3, Start-up Testing Results

Start-up testing shall continue for a two-week period, demonstrating 100% compliance with the water quality requirements, with the results being submitted to DOB

Agency: DOB, Office of Technical Certification and Research

Outcome: Start-up lab results, on record with DOB demonstrating compliance with quality requirements

9 Phase 4, Temporary Use Testing Results

During the temporary use mode, treated water from the system shall be directed into the reuse water reservoirs and shall be utilized for applications identified in Buildings Bulletin 2010-027.

Agency: DOB, Office of Technical Certification and Research

Outcome: Monthly reports of results submitted to DOB, on a weekly basis for initial 3 months

10 Phase 5, Final Acceptance and System Certification

Agency: DOB, Office of Technical Certification and Research

Outcome: Certificate issued confirming compliance with the 2014 NYC Construction Codes

11 Submit DOB System Certification to DEP On-site Water Reuse Program Manager

Agency: DOB, Office of Technical Certification and Research

Outcome: Reimbursement of remaining grant value (requires copies of invoices)

Design Approval & Permitting

1 Submit DEP On-Site Water Reuse Application

Agency: DEP

Outcome: Conditional Acceptance Package pending DOB permitted design

2 Sign Conditional Acceptance Package

Agency: DEP

Outcome: Applicant confirms they will execute the Funding Agreement and required paperwork

3 Submit a Copy of Approved DOB Permitted Design to DEP

A copy of the on-site water reuse system may require approval by the Department of Health and Mental Hygiene.

Agency: DEP, DOHMH

Outcome: DEP will send Grant Acceptance Package to Grantee

4 Submit Grant Acceptance Package

Includes the Funding Agreement and Restrictive Covenant.

Agency: DEP

Outcome: Upon approval and execution of Grantee Agreement DEP issues initial grant reimbursement (requires copies of invoices)

- After receiving *conditional* acceptance, design must be permitted and approved by the Department of Buildings before receiving complete approval for the On-site Water Reuse Grant Program

Construction

5

Construct System

Inspections shall be conducted during construction, after construction completion and periodically based on the City's discretion.

Agency: DOB

Outcome: Inspection Reports

- Inspections during construction will be at Department of Buildings' discretion
- Construction reports to DEP are required, frequency is set by the Grant Funding Agreement

Reuse System Certification Requirements

6 Phase 1, Construction Completion Certification

Verification that system was constructed in accordance with plans, specifications and codes.

Agency: DOB, Office of Technical Certification and Research

Outcome: Construction Completion Certificate from DOB

7 Phase 2, Wet Testing Certification

The system shall be certified confirming the absence of leaks and the integrity of the system components.

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Agency: DOB, Office of Technical Certification and Research

Outcome: Reimbursement of remaining grant value (requires copies of invoices)

- System certification is through Department of Buildings
- Final step in On-site Water Reuse Grant Program is to submit Department of Buildings System Certification

Sources for More Information

nyc.gov/dep/reusegrant

NYC
NYC Resources | 311 | Office of the Mayor

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On-Site Water Reuse Grant Program

The On-site Water Reuse Grant Program provides commercial, mixed-use, and multi-family residential property owners with incentives to install water reuse systems. This grant program builds on the [Comprehensive Water Reuse Program](#), which offers a 25% discount to customers who install successful water reuse systems.

Water reuse systems, sometimes called water recycling systems, make more efficient and safe use of rainwater, black water, or gray water when properly designed and operated. The grant program promotes the construction of these systems at both the building-scale and district-scale by covering a portion of efficiency technology capital costs.


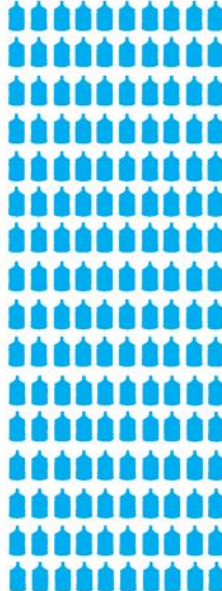


Photo Credit: Natural Systems Utilities

Available Grants

Grant Size	Eligibility Criteria	Target Water Savings	Funding Amount
Building-scale	Typically 100,000 square feet or more of residential or commercial space	32,000 gallons per day	Up to \$250,000
District-scale	Typically includes the sharing of water between two or more parcels	94,000 gallons per day	Up to \$500,000

Turn off the water while you brush your teeth and save up to **800** gallons a month for a family of four. That is the equivalent of **160** water coolers bottles per month.



Source: Water Use It Wisely

- Visit the website for general information and program updates:
 - Grant Workshops
 - Application Process
 - Supporting Documents

<ul style="list-style-type: none">Residential Water Efficiency ProgramsNon-Residential Water Efficiency ProgramsWater Distribution System OptimizationWater Supply Shortage ManagementWater Saving TipsWater Conservation Seminars for Building Managers	
<ul style="list-style-type: none">› Air Pollution Control› Noise Codes & Complaints	
Business and Professionals	
<ul style="list-style-type: none">› Forms & Permits› Support for Businesses› Doing Business with DEP› Asbestos Abatement› Construction, Demolition & Abatement	
About DEP	
<ul style="list-style-type: none">› Inside DEP› News› Capital Projects› Careers at DEP› Environmental Reviews› Interagency MOUs› A to Z Index› Contact Us	
	Grant Workshops <p>Workshops and webinars that explain the eligibility requirements of the program and guide users through the online application can be arranged upon request. If you would like to receive program updates, schedule a pre-application meeting, or host a workshop for a group of 10 or more people, please email reusegrant@dep.nyc.gov.</p>
	Application Process <p>Interested private property owners must complete and submit an application for funding. Applications are reviewed on a rolling basis and can be submitted at any time throughout the year.</p> <p>The Application Form is available in the Grant Application Guide.</p> <ul style="list-style-type: none">• Grant Application Guide (PDF)• Building-Scale Calculator (XLS)• District-Scale Calculator (XLS)
	Applicable Codes and Regulations <ul style="list-style-type: none">• Buildings Bulletin 2010-027 (PDF)• Water Recycling Systems Appendix C (PDF)
	Legal Agreement and Restrictive Covenant <p>Before submitting a grant application, grantees must review the Legal Agreement and Restrictive Covenant that are required to participate.</p> <ul style="list-style-type: none">• Grant Funding Agreement (PDF)• Declaration of Restrictive Covenant (PDF)
	Comprehensive Water Reuse Program <p>Buildings with successful on-site water reuse systems are eligible for the Comprehensive Water Reuse Program (CWRP). The CWRP provides a 25% water and wastewater fee discount to DEP customers who install water reuse systems that reduce the building's water consumption by at least 25%.</p> <p>Download the Comprehensive Water Reuse Program Application (PDF).</p>

- Grant Funding Agreement and Declaration of Restrictive Covenant are located at the bottom of the program webpage

2018-2019 ON-SITE NON-POTABLE WATER REUSE FUNDING AGREEMENT

This Funding Agreement ("Agreement") is made by and between the City of New York (the "City"), acting through the Department of Environmental Protection ("DEP"), located at 59-17 Junction Boulevard, Flushing, NY 11373, and the [NAME OF GRANTEE] (the "Grantee") of the property located at [PROPERTY ADDRESS] ("Premises").

WITNESSETH

WHEREAS, pursuant to the New York City On-Site Non-Potable Water Reuse Grant Program ("WRGP"), DEP established a program to award a total amount of up to five hundred thousand dollars (\$500,000) for qualified projects which use on-site non-potable water reuse systems on private property in New York City for the purpose of conserving potable water ("Program"); and

WHEREAS, the Grantee submitted to DEP a proposal to install and operate an on-site non-potable water reuse system within non-city owned property, and

WHEREAS, DEP has determined that the Grantee's proposal will meet the Program goals and provide significant benefit to the City and has chosen the Grantee's proposal for this purpose.

NOW THEREFORE, the parties, in consideration of the mutual agreements contained herein, agree as follows:

A. Term.

This Agreement shall be effective upon registration pursuant to Charter § 328 and shall remain in effect for a period of ten (10) years ("Term") from the date of the final distribution of the Grant Award. The Grantee shall complete all construction within four (4) years from the Notice to Proceed date at which time the maintenance period ("Maintenance Period") shall begin. This Agreement may be extended in writing upon the mutual consent of the parties.

B. Scope of Work.

1. Grantee shall install and operate an on-site non-potable water reuse system in accordance with and as more fully described in the scope of work attached as Appendix A ("Scope of Work") and with the maintenance plan ("Maintenance Plan") attached as Appendix C (collectively the "Project").
2. Grantee shall adhere to the timeline set forth in Appendix A. Failure to render satisfactory progress or to complete the Project to the satisfaction of DEP may be

All grant program inquiries
can be directed to:
reusegrant@dep.nyc.gov

