

## PRE-APPLICATION FOR THE CLEAN WATER STATE REVOLVING FUND FFY 2018 LOAN FUNDS

## Water Division Wastewater Engineering Bureau



**RSA/Rule**: RSA 486:14

nor y naice hor tools			
Applicant: CITY OF BERLIN			
Project Name: Sanitary Sewer Inflow/I	Infiltration Reduction	Project: Building Dem	olition
Location: BERLIN, NH – MUNICIPAL SE	WERS		
Proposed Project Description: The City roof drains and/or foundation drains thas been able to demolish a few similar funds to complete the demolition and wide flat roofs has been estimated to and frequency of the storm event. This envisions funding the demolition of inflow/infiltration source that contributed eveloped, but is turned into green states.	nat are connected dire r buildings using local site restoration proce range between 800 t s does not include the the City-owned, aba tes to the City's CSO.	funds; however, the Ciess. The direct inflow rest to 12,000 gpm, dependent impact of foundation and oned properties to Once demolished, the	wer system. The City ity does not have the unoff rate from Cityding on the intensity drains. This project remove this directed land is not typically
Waterbody Effected:			
Name: ANDROSCOGGIN RIVER	<u> </u>		
Assessment Unit ID: NH letters  (see <a href="http://www2.des.state.nh.us/WaterShed SWQA">http://www2.des.state.nh.us/WaterShed SWQA</a> for a map tool to determine Assessment Unit ID and a Impaired? <a href="X">X</a> Yes No If yes, will the project address to	numbers <u>A/SWQA Map.aspx</u> a water quality report card to c	determine impairment status).	
Please check only one project category  Wastewater Stormwater/Nonpoint Source X Wastewater with Stormwater/No		onent(s)	
ESTIMATED TIMELINE AND COST INFORMATION			
	Start Date	Completion Date	Cost
1. Authority to Borrow Funds			
2. Design Engineering*			
3. Construction	September 2018	October 2019	\$475,000
4. 5% Construction Contingency			\$25,000
5. Construction Engineering*			
6. Other Costs (Please Specify):			

(603) 271-3503 PO Box 95 Concord, NH 03302-0095 www.des.nh.gov **Total Estimated Costs** 

\$500,000

Notes: \* CWSRF funding for engineering services requires the use of the Qualifications Based Selection process described in Env-Wq 509.

## **RATIONALE FOR COST ESTIMATES**

Are the cost estimates for the project supported by a document (e.g., facility plan, preliminary design report, etc.) that is signed by an engineer? If <u>no</u>, please reference the document and identify the engineer:

If <u>no</u>, describe the rationale for the cost estimates (attach additional information if necessary): <u>Refer to</u> the attached spreadsheet with cost estimates of the various projects that have been completed to date as well as known properties remaining to be demolished

TYPE OF PROJECT			
	Asset Management		
Χ	Check here if the project includes asset management for wastewater assets		
	Check here if the project includes asset management for stormwater assets		
	Percentage or dollar value of <b>Total Estimated Costs</b> (page 1) directly related to asset management:100%		
	Planning Evaluations		
	Check here if the project includes a planning evaluation or evaluations		
	Percentage or dollar value of <b>Total Estimated Costs</b> (page 1) directly related to planning evaluation(s):		
	Septage Receiving Facilities		
	Check here if the project includes construction of a new or upgraded septage receiving facility		
	Percentage or dollar value of <b>Total Estimated Costs</b> (page 1) directly related to the septage receiving facility:		
	Brown Grease Receiving Facilities		
	Check here if the project includes construction of a new or upgraded brown grease receiving facility		
	Percentage or dollar value of <b>Total Estimated Costs</b> (page 1) directly related to the brown grease receiving facility:		
	Comprehensive Energy Audit Measure Implementation:		
	Check here if the project includes the implementation of comprehensive energy audit measure(s)		
	Percentage or dollar value of <b>Total Estimated Costs</b> (page 1) directly related to the implementation of comprehensive energy audit measures:		
Has a c	omprehensive energy audit been conducted at the facility? Yes No <u>X</u> Planned;		
	If "Yes" or "Planned," when?		
Please	indicate specific measure(s) to be implemented from the energy audit report:		

NHDES-W-09-002			2018 C	WSRF Pre	e-application	on
Provide a description of the need for the projequality, or the environment:	ROJECT Nect and ho		ject will pr	rotect pu	blic health	, water
The City currently operates a licensed CSO at Administrative Order No. 011-044 to prepare plan has been submitted and the City is awain pre-application was identified in the Draft LT extraneous sources of I/I within the sanitary for the discharge of untreated wastewater decorated to the Androscoggin River.	e and subrating commerced to the commerc	nit a Long- nents fron City cont tem. The	Term Conn the EPA. inues to b project w	trol Plan The wo e proacti ill also re	(LTCP). A rk identific ve in remo	draft ed in this oving potential
P	ROJECT E	DATA				
1. All Projects:  Water Quality & Public Health: Project v	vould addı	ress (check	call that a	pply):		
Federal/State administrative order/consent decree <u>X</u>						
Surface water quality impairment <u>X</u>						
Chronic NPDES compliance issue(s)						
Surface water quality in unimpaired waters						
NPDES MS4 Compliance Issue(s)						
Recommendation in:  NH State Nonpoint Source Plance Watershed-based plan that no 2010 Piscataqua Region Com Chronic flooding that causes  2. Traditional Wastewater Projects: (Stormw	neets Clea prehensiv a water qu ater/Nonj	e Conserva Jality prob	ation and I Iem	Managen	nent Plan	
Population Served by Wastewater Treatmen		dent Popula	ation	Non-Re	esident Pop	ulation*
Population Receiving Collection:	Present	Projected	Projected Year	Present	Projected	Projected Year
At this facility	10,051	10,225	2017			
From system that discharges to this facility (if any)						
*The portion of the population that does not live was Non-resident population includes transient, season				-	em infrastrı	ucture.
Green Project Reserve  Percentage or dollar value of the Total					the follow	ving <u>and</u>

Percentage or dollar value of the <b>Total Estima</b> t	ted Costs (page 1) allocated to the following <u>and</u>			
the relevant section number from 2012 CWSRF Green Project Reserve guidance:				
http://des.nh.gov/organization/divisions/wate	er/wweb/documents/gpr-guidance.pdf			
Section Number				
Water Efficiency	Energy Efficiency			
Green Infrastructure	_ Environmentally Innovative			

Sustainability (complete all that apply):
Average monthly facility flow as a percentage of design capacity:68%
List the pollutant(s) and loading(s), as percentage of design capacity, that exceed, on an average monthly basis, 80% design loading capacity:None
Will the project reduce flow or loadings, or increase design capacity of the WWTF?
Yes_X No How?_By reducing I/I, influent flows to the treatment plant will be
<u>reduced.</u>
Will the project implement a climate change adaptation or mitigation?
Climate change adaptation or mitigation measures means a project that implements a climate change adaptation or mitigation strategy as outline by USEPA's <i>Adaptive Response Framework for Drinking Water and Wastewater Utilities</i> at <a href="http://water.epa.gov/infrastructure/watersecurity/climate/upload/epa817f12009.pdf">http://water.epa.gov/infrastructure/watersecurity/climate/upload/epa817f12009.pdf</a> . For a list of adaptation measures, see page 17 of USEPA's <i>Adaptation Strategies Guide for Water Utilities</i> at <a href="http://water.epa.gov/infrastructure/watersecurity/climate/upload/epa817k13001.pdf">http://water.epa.gov/infrastructure/watersecurity/climate/upload/epa817k13001.pdf</a> . Mitigation measures will be related to energy efficiency improvements as approved by NHDES.  Yes No _X How?:
Will the project address excessive infiltration and inflow? Yes_X_ No
Will the project provide for reuse or recycling of:
stormwater,
wastewater, or
treatment products
3. Stormwater and Nonpoint Source Projects: (attach additional narrative if more space is needed)  Protection of Water Quality
If the project addresses an MS4 compliance issue, describe the permit requirement being met:
<del></del>
If the project addresses chronic flooding, describe the water quality problem caused by flooding:

Plan, a watershed-based plan, or the 2010 Pi	ation in the NH Nonpoint Source Management scataqua Region Comprehensive Conservation and mmendation being implemented, including the			
<u>Green Infrastructure</u> Project would address (check al	ll that apply):			
Disconnection of impervious cover from a sto	ormwater drainage system			
If checked, estimate # of square feet	of impervious cover disconnected:			
Protection or restoration of natural hydrolog	Protection or restoration of natural hydrology, floodplains, and wetlands			
If checked, describe how the project or wetlands:	protects or restores natural hydrology, floodplains,			
Improved stream connectivity with respect t	o aquatic life			
If checked, describe the barriers to be be reconnected:	e removed and estimate the # of miles of stream to			
	_			
Smart Growth as defined in RSA 9-B:3				
If checked, describe how the propose smart growth:	ed project addresses water quality goals through			
APPLICANT IN				
Name:James A. Wheeler	Signature*:			
Title: <u>City Manager</u>	Date:			
Email: <u>jwheeler@berlinnh.gov</u> Phone No.: <u>603-752-7532</u>				
*Must be signed by applicant to be included in Clean	Watershed Needs Survey			
(see $\mbox{\bf RATIONALE}$ FOR COST ESTIMATES, Page 2).				
Return by June 15, 2018 to:  Daniel.Fenno	o@des.nh.gov AND <u>Kathleen.Bourret@des.nh.gov</u>			

2018-05-02 www.des.nh.gov Page 5 of 6

29 Hazen Drive

NH Department of Environmental Services

PO Box 95 Concord, NH 03302-0095