Massachusetts Department of Environmental Protection
Drinking Water State Revolving Fund (DWSRF)

Calendar Year 2027 Drinking Water Construction Project Evaluation Form

PEF No	DW-14078
ReSubmitted PEF No	**DW-13926**
Applicant (PWSID)	3128000
Local Government Unit	**HAVERHILL** 4 Summer Street - Room 100 Haverhill MA, 01830 978-374-2312
Authorized Representative	**Melinda E. Barrett, Mayor | City of Haverhill** 4 Summer Street Haverhill ME 01830 978-374-2300 mayor@cityofhaverhill.com
Primary Contact	**Robert Ward, DPW Director | City of Haverhill** 40 South Porter Street Haverhill ME 01830 978-374-2382 rward@haverhillma.gov
Consultant Firm	**Wright-Pierce**
Primary Consultant Contact	**Amy Coppers | Wright-Pierce** 213 Court Street, Suite 501 Middletown CT 06457 617-750-3052 amy.coppers@wright-pierce.com
Project Name	Radial Collector Well
Project Description	This project includes the construction of a radial collector riverbank well system, and a 24-inch transmission main from the intake to the City's water treatment plant. The radial collector well consists of a vertical shaft caisson with radial collector shafts drilled beneath the river bottom and into the riverbed formation. The proposed supplemental source is being targeted for a capacity of 7MGD to provide much needed redundancy to the City's existing sources as well as the potential to support water needs for adjoining communities for interconnecting Towns. The current supply is being stressed under drought conditions, such as experienced in 2016 and the current drought of 2025-2026 and is the only supply for the City making it vulnerable to any number of threats.

Project Schedule and Costs for Construction Project:

Planning Report Title	Collector Well Technical Memo
Report Date	08/05/2016
Design/Plan Start Date	07/01/2026
Design/Plan End Date	10/01/2027
Is this proposed project subject to Massachusetts Environmental Policy Act (MEPA) review?	Yes, under MEPA review, actual submittal date
MEPA Review Date	10/23/2017
This project is in compliance with the Federal Flood Risk Management Standard (FFRMS) to comply with Executive Order (EO) 14030 which reinstated EO 13690	Not Applicable
Has this proposed project been submitted to the Massachusetts Historical Commission (MHC)?	Submitted and no further study by MHC required
Loan Application Submittal date	10/01/2027

Project Cost Cost Type	Start Date	End Date	Total Cost	Eligible Cost
1	04/01/2028	04/01/2029	$7,700,000.00	$7,700,000.00
2	04/01/2028	04/01/2029	$13,400,000.00	$13,400,000.00
Construction Contingency			$2,110,000.00	$2,110,000.00
Construction Services			$2,321,000.00	$2,321,000.00
Police Traffic Detail			$155,000.00	$155,000.00
Total ($)			**$25,686,000.00**	**$25,686,000.00**

Local Funding Authorization:

Governing body empowered to commit funding:	Haverhill City Council
Type of action required to authorize funding:	City Council Vote
Has local funding been authorized?	Yes
Date of authorization:	09/27/2016
Authorized amount:	$17,168,750.00

Other Assistance:

Are you seeking, or have you been awarded, a loan and/or grant from another program for this project or a portion thereof?	Yes

Assistance	Typeof Assistance	Amount Requested	Amount Received
Federal	Earmark	$1,000,000.00	$1,000,000.00
Total ($)		**$1,000,000.00**	**$1,000,000.00**

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Project Narrative/Checklist	
Project objectives; documentation of public health and water quality issues to be addressed.	☑
Scope of project, key facilities or tasks; environmental and public health benefits.	☑
Identification of project area using site plan and/or locus map.	☑
Planning basis of project; copy of pertinent pages of approved planning document.	☑
For all construction projects, provide the basis of cost estimates and engineering services costs.	☑
Project cashflow schedule.	☑

Description		Score
Part IV - Project Ranking **Tier Classification** **1. Project Tier** Based on the Tier descriptions presented in the Instruction and Guidance document, what Tier do you believe best characterized your project? *Consultant Note: Narrative page 2-1, Appendix C, M*	Not requested or Not documented	0
	Tier I	100
	Tier II	200
	Tier III	300
	Tier IV	400
	Tier V	500
	Scored Point	*Consultant: 400*
a) If Tier V project, is there Water Main repair/replacement including full lead service for lead service line replacement (Main to water meter)? *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
b) If Tier V project, do the PFAS concentrations of samples collected from the finished water tap of combined sources have documented concentrations of 10 ppt or greater? *Consultant Note: Not Applicable*	Answer with note in comment box and include PFAS ppt amount.	0
	Scored Point	*Consultant: 0*
2. Water Quality **a)** Does the proposed project address serious existing water quality and/or treatment technique issues? *Consultant Note: Narrative page 2-1, Appendix B, C*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
b) Do the water quality monitoring results show an exceedance of a state or federal water quality allowable limit? "Allowable Limit" refers to MassDEP, MCL, MRDL, Action Level or ORSGL as applicable. *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
c) Has the water quality limit been greater than or within 80% of the state or federal water quality allowable limit in over half of the samples taken within the past 18 months? *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
d) Has the running annual average (RAA) exceeded 80%? *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
e) If project addresses emergent contaminants, the Emergent Contaminant Questionnaire is required to be filled out and attached as part of PEF documentation. *Consultant Note: No, Narrative page 2-1, Appendix P*	Enter Yes or No in comment box.	0
	Scored Point	*Consultant: 0*

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3. Documented Actions Does the proposed project address deficiencies found during a sanitary survey or other Mass DEP documented actions? *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
Check list: Please indicate if any of the following are attached to your PEF. **a)** Emergency Response Logs *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
b) Emergency Repair Logs *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
c) Enforcement Documentation *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
d) Engineering Report *Consultant Note: Yes, Appendix M - Collector Well Memo*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
e) Hydraulic Study *Consultant Note: Yes, Appendix J - Phase II River and Land Well Exploration*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
f) Inventory Report (include life expectancy of components) *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
g) Leak Detection Reports *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
h) Master Plan (excerpts) *Consultant Note: Yes, Appendix C - 2010 Master Plan*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
i) Photos of tuberculated pipe or pipe coupons *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*

j) Renewable Energy Feasibility Study	Answer with note in comments	0
Consultant Note: Not Applicable	**Scored Point**	*Consultant: 0*
k) Sanitary Survey Report (applicable sections)	Answer with note in comments	0
Consultant Note: Not Applicable	**Scored Point**	*Consultant: 0*
l) Tank Inspection Report	Answer with note in comments	0
Consultant Note: Not Applicable	**Scored Point**	*Consultant: 0*
m) Water Quality Results	Answer with note in comments	0
Consultant Note: Not Applicable	**Scored Point**	*Consultant: 0*
n) Other	Answer with note in comments	0
Consultant Note: Not Applicable	**Scored Point**	*Consultant: 0*
Assignment of Additional Points	Not requested or Not documented	0
1. Population Affected by the Project (as justified in the narrative):	25 to 3,299	5
	3,300 to 9,999	10
Consultant Note: Narrative page 2-1, Appendix D, E, O	10,000 to 99,999	15
	100,000 and above	20
	Scored Point	*Consultant: 15*
2. Energy Efficiency and Renewable Energy:	Not requested or Not documented	0
a) Do you have an audit or feasibility study for the energy component?	Project will result in energy efficiencies without audit	4
Consultant Note: Narrative page 2-1	Project will result in energy efficiencies with audit	6
	Scored Point	*Consultant: 4*
b) Do you have a feasibility study for the proposed renewable energy?	Not requested or Not documented	0
Consultant Note: Not Applicable	Project will result in on-site renewable energy power generation without feasibility study	4
	Project will result in on-site renewable energy power generation with feasibility study	6
	Scored Point	*Consultant: 0*
3. Affordability	Not requested or Not documented	0
a) Does the system's service area have a median income of $83,168 or less? (That is, 80% of the 2020-2024 State Median Household Income (MHI) in 2024 dollars of $103,960.) To answer this question, Applicants may use the MHI prepared by the Massachusetts Department of Housing & Community Development based on U.S. Census Bureau data for the most appropriate city, town, or census designated place. If the service area includes more than one such designated MHI area, a weighted overall average based on population served in each of the covered MHI areas times the MHI for that area plus the same for any other such area, and divided by the total number served, shall be used to calculate the combined MHI. Alternatively, applicants may provide a service area specific MHI from an independent income survey covering the service area, provided that said independent survey is no more than eleven years old at the time of the application. *Consultant Note: Narrative page 2-2, Appendix E*	Yes	8
	Scored Point	*Consultant: 0*

b) Will the rates to the end users, after implementation of the project, exceed 1% of the median household income of the service area? If so, indicate which range below best describes the resultant rate. Provide supporting documentation of current residential rates. *Consultant Note: Narrative page 2-2, Appendix G*	Not Requested or Not Documented	0
	Resultant rate 1.0% to 1.249% of MHI	2
	Resultant rate 1.25% to 1.499% of MHI	4
	Resultant rate 1.5% to 1.749% of MHI	6
	Resultant rate greater than 1.75% of MHI	8
	Scored Point	*Consultant: 6*
c) EJ communities (either affected by it, or serviced by project) *Consultant Note: Narrative page 2-2, Appendix E*	Not requested or Not documented	0
	Yes	1
	Scored Point	*Consultant: 1*
d) Is this a small system? (serving < 10,000 customers) *Consultant Note: Not Applicable*	Not requested or Not documented	0
	Small System	4
	Scored Point	*Consultant: 0*
4. Consolidation/Restructuring **a)** Does the project consolidate or restructure a PWS to eliminate a public health problem or capacity development problem? *Consultant Note: Not Applicable*	To take over 1-2 systems	2
	To take over 3 or more systems	4
	Not requested or Not documented	0
	Scored Point	*Consultant: 0*
b) Is the applicant restructuring or otherwise preparing to consolidate with or take operation of one or more public water supply systems? *Consultant Note: Not Applicable*	Not requested or Not documented	0
	Yes - Noted in plan (note how many in comments)	4
	Scored Point	*Consultant: 0*
c) What is the reason for each proposed consolidation/takeover? *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
5. Compliance with Enforcement Order **a)** Is the project needed to ensure compliance with a federal or state court or administrative order as of the PEF submittal date? Please note the date of the order and describe the order and how the project will allow the system to comply in the narrative. *Consultant Note: Not Applicable*	Achieves marginal compliance with enforcement order	0
	Achieves moderate compliance with enforcement order	10
	Achieves substantial compliance with enforcement order	20
	Scored Point	*Consultant: 0*
b) Is the project needed to come into or maintain compliance with 310 CMR 22.00, the SDWA, or other required or related federal or state permit or approval, including the Department's approval of a new drinking water source? Please state the compliance need and describe how the project will enable the system to come into or maintain compliance in the narrative. *Consultant Note: Not Applicable*	Answer with note in comments	0
	Scored Point	*Consultant: 0*
6. Resilience and Adapation *Consultant Note: Narrative 2-2, Appendix Q, S, T*	Not requested or Not documented	0
	Project Addresses Resilience and Adaptation	1
	Scored Point	*Consultant: 1*
7. First Time PEF Submittal or first time in more than 5 years *Consultant Note: Not Applicable*	Not requested or Not documented	0
	First Time PEF Submittal	1
	Scored Point	*Consultant: 0*

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8. New Technologies **a)** Does the project include any of the "new technologies" approved by the MassDEP Drinking Water Program per the most recent published listing. (only within the past 5 years) *Consultant Note: Not Applicable*	Not requested or Not documented	0
	Yes	4
	Scored Point	*Consultant: 0*
9. Best Management Practice (BMP) as defined on the Clean Water Trust's website **a)** Does the public water system have an asset management plan or a plan that is utilized for rehabilitation or replacement of water works and maintenance equipment? *Consultant Note: Narrative page 2-2*	Not requested or Not documented	0
	Yes	4
	Scored Point	*Consultant: 4*
b) Has the applicant adopted the BMP of Enterprise Fund and Full Cost Pricing? *Consultant Note: Narrative page 2-2, Appendix N*	Not requested or Not documented	0
	Yes	4
	Scored Point	*Consultant: 4*
c) Has the applicant adopted the BMP of Inter-Municipal Agreement (as Host Community)? *Consultant Note: Not Applicable*	Not requested or Not documented	0
	Yes	2
	Scored Point	*Consultant: 0*
d) Has the applicant adopted the BMP of Leak Mitigation? *Consultant Note: Narrative page 2-3, Appendix V*	Not requested or Not documented	0
	Yes	2
	Scored Point	*Consultant: 2*
Total		**Consultant: 437**

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Certified By	Kieth Germain
Submitted On	07/22/2026