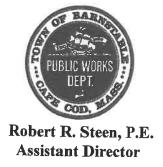


## Daniel W. Santos, P.E.

# The Town of Barnstable Department of Public Works

382 Falmouth Road, Hyannis, MA 02601 508.790.6400



January 14, 2020

Secretary Kathleen A Theoharides Executive Office of Energy and Environmental Affairs (EEA) Attn: MEPA Office 100 Cambridge Street, Suite 900 Boston, MA 02114

RE: Town of Barnstable Comprehensive Wastewater Management Plan Expanded Environmental Notification Form

Dear Secretary Theoharides:

On behalf of the Town of Barnstable we are pleased to submit the attached Comprehensive Wastewater Management Plan (CWMP) and Expanded Environmental Notification Form (EENF) with a request for a Single Environmental Impact Report (SEIR) in accordance with MEPA regulations.

This CWMP is the culmination of years of wastewater planning efforts within the Town. The Town undertook this effort in order to address the multiple wastewater needs of the community. The recommended plan is a three-phase, 30-year plan, which includes substantial sewer expansion throughout the Town as well as non-traditional projects (which are anticipated to be submitted as a Notice of Project Change), in order to reduce nutrient loading to coastal waters and meet total maximum daily loads (TMDLs) for embayments. The plan also provides for fresh water pond and drinking water source protection, and supports sustainable growth.

Attached please find two copies of the CWMP and EENF. The appendices and an electronic copy of the CWMP have been provided on a flash drive, which can be found in the inside cover of the CWMP report. We look forward to continued coordination with MEPA on this important project. Please feel free to contact me with any questions regarding this document.

Sincerely,

Daniel W. Santos, P.E.

### Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs Massachusetts Environmental Policy Act (MEPA) Office

#### **Environmental Notification Form**

For Office Use Only	
EEA#:	
MEPA Analyst:	

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Barnstable Comprehensive Wastewater Management Plan (CWMP)					
Street Address: Town-Wide					
Municipality: Barnstable		W	Watershed: Multiple (see report)		
Universal Transverse Me	rcator Coordinate				
=		Lc	ongitude: Town-	wide	
Estimated commenceme			Estimated completion date: 7/1/2050		
Project Type: Town-wide		St	Status of project design: 10 %complete		
Proponent: Town of Barn					
Street Address: 367 Mair	Street				
Municipality: Barnstable (			ate: MA	Zip Code: 02601	
Name of Contact Person	Daniel W. Santo	s, P	.E.		
Firm/Agency: Barnstable		Stı	reet Address: 38	32 Falmouth Road	
Municipality: Barnstable (			ate: MA	Zip Code: 02601	
Phone: 508-790-6400	Fax: 508-790-64	06	1		
			daniel.santos@	town.barnstable.ma.us	
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)? ⊠Yes □No					
If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:					
a Single EIR? (see 301 CMR 11.06(8))  a Special Review Procedure? (see 301 CMR 11.09)  a Waiver of mandatory EIR? (see 301 CMR 11.11)  Phase I Waiver? (see 301 CMR 11.11)  (Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)					
Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)? 11.03(5)(a)(2) & 11.03(5)(a)(3) Which State Agency Permits will the project require? See Section 8.4 of Report Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres: Unknown at this time. Anticipate future applications for Clean Water SRF assistance.					

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			Para Sin Etanun
Total site acreage	N/A		
New acres of land altered	BIRLE BILLEYA	0	
Acres of impervious area	N/A	N/A	N/A
Square feet of new bordering vegetated wetlands alteration		0	San Francisco
Square feet of new other wetland alteration		0	
Acres of new non-water dependent use of tidelands or waterways		0	
STRUCTURES	TEL TELLINI		
Gross square footage	N/A	N/A	N/A
Number of housing units	N/A	N/A	N/A
Maximum height (feet)	N/A	N/A	N/A
TRANSPORTATION		SERVE SE	Property of the
Vehicle trips per day	N/A	N/A	N/A
Parking spaces	N/A	N/A	N/A
WASTEWATER	120011-50-5114	ALL STATE OF THE PARTY.	TUENTEN E
Water Use (Gallons per day)	N/A	N/A	N/A
Water withdrawal (GPD)	N/A	N/A	N/A
Wastewater generation/treatment (GPD)	1,670,000 (average daily flow to BWPCF)	1,914,500 (existing average daily flow of parcels to be sewered)	3,584,500
Length of water mains (miles)	N/A	N/A	N/A
Length of sewer mains (miles)	85	190	275
Has this project been filed with MEPA  ☐ Yes (EEA #) ⊠No	A before?		1.
Has any project on this site been filed  ☐ Yes (EEA #) ⊠No	d with MEPA before	?	

### GENERAL PROJECT INFORMATION - all proponents must fill out this section

#### PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site: The project site is the Town of Barnstable which is includes residential, commercial and limited industrial and agricultural land uses. The attached Comprehensive Wastewater Management Plan provides extensive detail on the Town's wastewater needs.

Describe the proposed project and its programmatic and physical elements: *Project is a Town-wide Comprehensive Wastewater Management Plan. The details of the plan are explained in extensive detail in the attached Comprehensive Wastewater Management Plan, specifically in Section 5.* 

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

Section 8 of the attached Comprehensive Wastewater Management Plan describes the project alternative, which would be a "No Action" alternative. The Town considers the "No Action" alternative

to be highly undesirable, irresponsible and inconsistent with the Local Comprehensive Plan of the Town and the Cape Cod community at large. In addition, the "No Action" alternative would result in regulatory issues for the Town as well as potential legal challenges.

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative: These mitigation measures are discussed in Section 8 of the attached Comprehensive Wastewater Management Plan.

If the project is proposed to be constructed in phases, please describe each phase:
The project is proposed to be constructed in phases. This is described in detail in Section 5 of the attached Comprehensive Wastewater Management Plan.

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:  Is the project within or adjacent to an Area of Critical Environmental Concern?
if yes, does the ACEC have an approved Resource Management Plan? Yes No; If yes, describe how the project complies with this plan.
Will there be stormwater runoff or discharge to the designated ACEC? Yes No; If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC.
RARE SPECIES:  Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/priority_habitat_home.htm)  \[ \textstyle \text{Yes} (Specify
HISTORICAL /ARCHAEOLOGICAL RESOURCES:  Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?  Yes (Specify)   No
The project is a Town-wide wastewater plan involving the installation of sewer infrastructure throughout the Town of Barnstable, which has numerous historic areas. When in historic districts, above ground components of the

projects (pump stations, etc.) may be subject to review, which is anticipated to be handled on a project by project basis. Candidate sites for these facilities will be reviewed against available mapping during preliminary design to determine if there are any anticipated historical / archaeological impacts.
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources? ☐Yes (Specify)   ☑No
The Town does not anticipate the project to involve any demolition or destruction of inventoried historic or archaeological resources.
WATER RESOURCES: Is there an Outstanding Resource Water (ORW) on or within a half-mile radius of the project site?YesXNo; if yes, identify the ORW and its location
(NOTE: Outstanding Resource Waters include Class A public water supplies, their tributaries, and bordering wetlands; active and inactive reservoirs approved by MassDEP; certain waters within Areas of Critical Environmental Concern, and certified vernal pools. Outstanding resource waters are listed in the Surface Water Quality Standards, 314 CMR 4.00.)
Are there any impaired water bodies on or within a half-mile radius of the project site? _XYesNo; if yes, identify the water body and pollutant(s) causing the impairment: See attached list.
Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission?Yes _XNo
STORMWATER MANAGEMENT:
Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations: The project will have create minimal new impervious areas. Stormwater management BMPs will be incorporated as necessary for any new impervious surfaces.
MASSACHUSETTS CONTINGENCY PLAN: Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes No _X; if yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase, and Response Action Outcome classification):
The project involves multiple projects that include the installation of sewer infrastructure, generally within right-of-ways. Any properties that work is proposed on will be screened during the preliminary design process.
Is there an Activity and Use Limitation (AUL) on any portion of the project site? Yes No; if yes, describe which portion of the site and how the project will be consistent with the AUL:
Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN?  Yes No; if yes, please describe:
SOLID AND HAZARDOUS WASTE:
If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood: Refer to Section 8.3.16 of the attached Comprehensive Wastewater Management Plan.
Will your project disturb asbestos containing materials? Yes No _X; if yes, please consult state asbestos requirements at <a href="http://mass.gov/MassDEP/air/asbhom01.htm">http://mass.gov/MassDEP/air/asbhom01.htm</a>
Describe anti-idling and other measures to limit emissions from construction equipment: Refer to Section 8.3.16 of the attached Comprehensive Wastewater Management Plan

#### **DESIGNATED WILD AND SCENIC RIVER:**

designated \	ct site located wholly or partially within a defined river corridor of a federally  Wild and Scenic River or a state designated Scenic River? Yes No _X;  ify name of river and designation:
resources of Yes No if yes, will the resources of Yes No if yes,descri	the project have the potential to impact any of the "outstandingly remarkable" a federally Wild and Scenic River or the stated purpose of a state designated Scenic River?; if yes, specify name of river and designation:; e project will result in any impacts to any of the designated "outstandingly remarkable" the Wild and Scenic River or the stated purposes of a Scenic River; be the potential impacts to one or more of the "outstandingly remarkable" resources or ses and mitigation measures proposed.
ATTACHM	ENTS:
1	List of all attachments to this document

- - Town of Barnstable Comprehensive Wastewater Management Plan (CWMP)
- 2. U.S.G.S. map (good quality color copy, 8-1/2 x 11 inches or larger, at a scale of 1:24,000) indicating the project location and boundaries. Locus Map provided in CWMP(Figure 1-1)
- 3.. Plan, at an appropriate scale, of existing conditions on the project site and its immediate environs, showing all known structures, roadways and parking lots, railroad rights-of-way. wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities.
  - Numerous figures provided in CWMP
- Plan, at an appropriate scale, depicting environmental constraints on or adjacent to the 4 project site such as Priority and/or Estimated Habitat of state-listed rare species. Areas of Critical Environmental Concern, Chapter 91 jurisdictional areas, Article 97 lands. wetland resource area delineations, water supply protection areas, and historic resources and/or districts.
  - Numerous figures provided in CWMP
- 5. Plan, at an appropriate scale, of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase). Numerous figures provided in CWMP
- List of all agencies and persons to whom the proponent circulated the ENF, in accordance 6. with 301 CMR 11.16(2). List provided in CWMP.
- List of municipal and federal permits and reviews required by the project, as applicable. 7. List provided in Section 8.4 of CWMP.
- 8. List of Impaired Waters in Town of Barnstable

## <u>LAND SECTION</u> – all proponents must fill out this section

<ul> <li>I. Thresholds / Permits</li> <li>A. Does the project meet or exceed any review</li> <li>Yes _X_ No; if yes, specify each threshold</li> </ul>	thresholds related to <b>land</b> (see 301 CMR 11.03(1)
II. Impacts and Permits  A. Describe, in acres, the current and proposed	<b>= 1</b> ()
Footprint of buildings Internal roadways Parking and other paved areas Other altered areas Undeveloped areas Total: Project Site Acreage	Existing Change Total
B. Has any part of the project site been in activ	es of land in agricultural use (with prime state or
locally important agricultural soils) will b  C. Is any part of the project site currently or pro Yes_XNo; if yes, please descri indicate whether any part of the site is the the Department of Conservation and Re	oposed to be in active forestry use? be current and proposed forestry activities and ne subject of a forest management plan approved by
accordance with Article 97 of the Amend	ion of land held for natural resources purposes in dments to the Constitution of the Commonwealth to cle 97? Yes _X No; if yes, describe:
E. Is any part of the project site currently subject restriction, agricultural preservation restriction, Yes_X_No; if yes, does the project inv_YesNo; if yes, describe:	et to a conservation restriction, preservation riction or watershed preservation restriction?
F. Does the project require approval of a new up in an existing urban redevelopment project describe:	rban redevelopment project or a fundamental change ect under M.G.L.c.121A? YesX_ No; if yes,
G. Does the project require approval of a new u existing urban renewal plan under M.G.I	rban renewal plan or a major modification of an L.c.121B? Yes NoX_; if yes, describe:
III. Consistency  A. Identify the current municipal comprehens Title: Town of Barnstable Comprehensive Plan	
<ol><li>adequacy of infrastructure: Projection</li></ol>	t will promote targeted economic development ect will improve sewer infrastructure I have minimal impact on open space.

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA) RPA: Cape Cod Commission

Title: Cape Cod Regional Policy Plan Date: February 22, 2019

- D. Describe the project's consistency with that plan with regard to:
  1) economic development: Project will promote targeted economic development
  2) adequacy of infrastructure: Project will improve sewer infrastructure
  3) open space impacts: Project will have minimal impact on open space.

### **RARE SPECIES SECTION**

I.	. Thresholds / Permits  A. Will the project meet or exceed any review thresholds related to rare species or habitat (see 301 CMR 11.03(2))? YesX_ No; if yes, specify, in quantitative terms:				
(NOTE: If you are uncertain, it is recommended that you consult with the Natural Herita Endangered Species Program (NHESP) prior to submitting the ENF.)					
	B. Do	es the project require any state permits related to rare species or habitat?Yes _X No			
	C. Do	es the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in the current Massachusetts Natural Heritage Atlas (attach relevant page)? YesX_ No.			
	D. If y	ou answered "No" to <u>all</u> questions A, B and C, proceed to the <b>Wetlands, Waterways, and Tidelands Section</b> . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Rare Species section below.			
H.		es the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural Heritage Atlas (attach relevant page)? Yes No. If yes,  1. Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)? Yes No; if yes, have you received a determination as to whether the project will result in the "take" of a rare species? Yes No; if yes, attach the letter of determination to this submission.  2. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? Yes No; if yes, provide a summary of proposed measures to minimize and mitigate rare species impacts  3. Which rare species are known to occur within the Priority or Estimated Habitat?			
		4. Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act? Yes No			
		4. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? Yes No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations? Yes No			
	B. Will	the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? Yes No; if yes, provide a summary of proposed measures to minimize and mitigate impacts to significant habitat:			

### WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits A. Will the project meet or exceed any review thresholds related to wetlands, waterways, and tidelands (see 301 CMR 11.03(3))? Yes _X No; if yes, specify, in quantitative terms:						
B. Does the project require any state permits (or a local Order of Conditions) related to waterways, or tidelands? Yes _X No; if yes, specify which permit:						
C. If you answered "No" to <u>both</u> questi answered "Yes" to <u>either</u> question A or Waterways, and Tidelands Section bel	question B, fill out the re	the <b>Water Supply Section</b> . If you emainder of the Wetlands,				
II. Wetlands Impacts and Permits  A. Does the project require a new or a Act (M.G.L. c.131A)? Yes No; if yes, list the date and MassDibeen issued? Yes No; Wathe project require a Variance from	No; if yes, has a Notice  EP file number:;  as the Order of Conditior	of Intent been filed? Yes if yes, has a local Order of Conditions as appealed? Yes No Will				
B. Describe any proposed permanent the project site:	or temporary impacts to	wetland resource areas located on				
C. Estimate the extent and type of implicate whether the impacts are temporary	pact that the project will by prary or permanent:	nave on wetland resources, and				
Coastal Wetlands	Area (square feet) or Length (linear feet)	Temporary or Permanent Impact?				
Land Under the Ocean Designated Port Areas Coastal Beaches Coastal Dunes Barrier Beaches Coastal Banks Rocky Intertidal Shores Salt Marshes Land Under Salt Ponds Land Containing Shellfish Fish Runs Land Subject to Coastal Storm Flowage  Inland Wetlands Bank (If) Bordering Vegetated Wetlands Isolated Vegetated Wetlands Land under Water Isolated Land Subject to Flooding Borderi ng Land Subject to Flooding Riverfront Area						
3. fill or structure in a velocity	ect?Yes No; if yor of a dam?Yes zone or regulatory floo	yes, what is the area (in sf)? _ No; if yes, describe: dway? Yes No				

<ul> <li>4. dredging or disposal of dredged material? Yes No; if yes, describe the volume of dredged material and the proposed disposal site:</li> <li>5. a discharge to an Outstanding Resource Water (ORW) or an Area of Critical</li> </ul>
Environmental Concern (ACEC)? Yes No 6. subject to a wetlands restriction order? Yes No; if yes, identify the area (in sf): 7. located in buffer zones? Yes No; if yes, how much (in sf)
E. Will the project:  1. be subject to a local wetlands ordinance or bylaw? Yes No  2. alter any federally-protected wetlands not regulated under state law? Yes No; if yes, what is the area (sf)?
III. Waterways and Tidelands Impacts and Permits  A. Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91? Yes No; if yes, is there a current Chapter 91 License or Permit affecting the project site? Yes No; if yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:
B. Does the project require a new or modified license or permit under M.G.L.c.91?YesNo if yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependent use? Current Change Total If yes, how many square feet of solid fill or pile-supported structures (in sf)?
C. For non-water-dependent use projects, indicate the following:  Area of filled tidelands on the site:  Area of filled tidelands covered by buildings:  For portions of site on filled tidelands, list ground floor uses and area of each use:
Does the project include new non-water-dependent uses located over flowed tidelands?  Yes No  Height of building on filled tidelands
Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.
D. Is the project located on landlocked tidelands? Yes No; if yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:
E. Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations?Yes No; if yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:
F. Is the project non-water-dependent <b>and</b> located on landlocked tidelands <b>or</b> waterways or tidelands subject to the Waterways Act <b>and</b> subject to a mandatory EIR?YesNo;  (NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)
G. Does the project include dredging? Yes No; if yes, answer the following questions:  What type of dredging? Improvement Maintenance Both

	What is the proposed dredge volume, in cubic yards (cys)depth (ft);  What is the proposed dredge footprintlength (ft)depth (ft);
	Will dredging impact the following resource areas?
	Intertidal Yes No; if yes, sq ft
	Outstanding Resource Waters Yes No; if yes, sq ft
	Other resource area (i.e. shellfish beds, eel grass beds) Yes No; if yes
	sq ft
	If yes to any of the above, have you evaluated appropriate and practicable steps
	to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?
	If no to any of the above, what information or documentation was used to support this determination?
	Provide a comprehensive analysis of practicable alternatives for improvement dredging in
	accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis.
	Sediment Characterization
	Existing gradation analysis results?YesNo: if yes, provide results.
	Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6?YesNo; if yes, provide results.
	Do you have sufficient information to evaluate feasibility of the following management
	options for dredged sediment? If yes, check the appropriate option.
	Beach Nourishment
	Unconfined Ocean Disposal
	Confined Disposal:
	Confined Aquatic Disposal (CAD)
	Confined Disposal Facility (CDF)
	Landfill Reuse in accordance with COMM-97-001
	Shoreline Placement
	Upland Material Reuse
	In-State landfill disposal
	Out-of-state landfill disposal
	(NOTE: This information is required for a 401 Water Quality Certification.)
IV	. Consistency:
	A. Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone? Yes No; if yes, describe these effects and the projects consistency with the policies of the Office of Coastal Zone Management:
	B. Is the project located within an area subject to a Municipal Harbor Plan? Yes No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

### WATER SUPPLY SECTION

I.	Thresholds / Permits  A. Will the project meet or exceed any review thresholds related to water supply (see 301 CMR 11.03(4))? YesX_ No; if yes, specify, in quantitative terms:							
	B. Does the project require any state permits related to <b>water supply</b> ?Yes _X No; if yes, specify which permit:							
	C. If you answered "No" to <u>both</u> questions A and B, proceed to the <b>Wastewater Section</b> . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Water Supply Section below.							
II.	Impacts and Permits  A. Describe, in gallons per day (gpd), the volume activities at the project site:	e and sourc	e of water us	se for existing a	and proposed			
	Municipal or regional water supply Withdrawal from groundwater Withdrawal from surface water Interbasin transfer	Existing	Change	<u>Total</u>	_			
	(NOTE: Interbasin Transfer approval will be requester supply source is located is different from the from the source will be discharged.)	iired if the b he basin an	asin and cor d community	nmunity where where the was	the proposed stewater			
	B. If the source is a municipal or regional supply is adequate capacity in the system to accommod	, has the m late the pro	unicipality or ject? Ye	region indicates No	ed that there			
	C. If the project involves a new or expanded wit source, has a pumping test been conducted? sites and a summary of the alternatives consider	Yes	No; if yes, at	tach a map of	water the drilling			
	D. What is the currently permitted withdrawal at day)?Will the project require an increase much of an increase (gpd)?	in that with	ed water sup drawal?\	ply source (in g resNo; if	gallons per yes, then how			
	Does the project site currently contain a water water main, or other water supply facility, or will a YesNo. If yes, describe existing and property of the project site currently contains a water water main, or other water supply facility or will be a water main, or other water supply facility or will be a water main.	he project i	nvolve const	ruction of a nev	v facility?			
	Capacity of water supply well(s) (gpd)  Capacity of water treatment plant (gpd)	<u>Da</u>	isting Avg ily Flow	Project Flow	Total			
	F. If the project involves a new interbasin transfedirection of the transfer, and is the interbasin transfer.	er of water, nsfer existin	which basins g or propose	are involved, vd?	what is the			
	G. Does the project involve:  1. new water service by the Massachus the Commonwealth to a municipality or v.  2. a Watershed Protection Act variance alteration?  2. a watershed by the Massachus the Commonwealth to a municipality of v.  2. a watershed by the Massachus the Commonwealth to the Commonwealth	vater distric ? Yes	t? Yes _ No; if ye	No es, how many a	cres of			
	3. a non-bridged stream crossing 1,000 - 12 -	or less tee	t upstream of	r a public surfa	ce drinking			

water	supply	for	purpose	of	forest	harvesting	activities?		Yes	No
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III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

### **WASTEWATER SECTION**

II.

l.	Thresholds / Permits  A. Will the project meet or exceed any 11.03(5))? _X_ Yes No; if yes, sp	review t ecify, in	hresholo quantita	ds relate tive term	d to <b>wa</b> :	stewate	r (see 3	01 CMR
	B. Does the project require any state per specify which permit: See section 8.4 of	ermits re	lated to	wastew	ater? _	X Yes	S N	o; if yes,
	C. If you answered "No" to <u>both</u> question <b>Generation Section</b> . If you answered "of the Wastewater Section below.	ns A and Yes" to	d B, pro <u>either</u> q	ceed to t uestion A	he <b>Trar</b> A or que	<b>sportat</b> stion B,	ion T fill out tl	raffic ne remainder
II.	Impacts and Permits  A. Describe the volume (in gallons per dexisting and proposed activities at the proposed systems or 314 CMR 7.00 for sewer systems)	oject sit	type of e (calcu	disposal late acco	of wast ording to	ewater g 310 CN	eneration	on for 0 for septic
			Existing	1	Change	<u>e</u>	Total	
	Discharge of sanitary wastewater Discharge of industrial wastewater		1,670,0	000	1,914,5	500	3,584,	500
	TOTAL		1,670,0	00	1,914,5	500	3,584,	500
	Discharge to groundwater		Existing		Change	2	<u>Total</u>	
	Discharge to outstanding resource water Discharge to surface water	•						
	Discharge to municipal or regional waste facility	water	1,670,0	00	1 014 5		2.5047	
	TOTAL		1,670,0		1,914,5 1,914,5		3,584,5 3,584,5	
			ABOVE	FLOWS	S ARE A	VERAG	E DAIL	Y FLOWS
	B. Is the existing collection system at or the measures to be undertaken to accom	near its nmodate	capacit the pro	y? \ ject's wa	res _X_ stewate	_ No; if y	yes, the	n describe
	C. Is the existing wastewater disposal fa yes, then describe the measures to be un Discussed at length in CWMP.	ncility at one	or near en to acc	its permi commoda	tted cap ate the <sub>l</sub>	pacity? _ project's	X Yes wastew	S No; if rater flows:
	D. Does the project site currently contain wastewater disposal facility, or will the pr     No; if yes, describe as follow	oject inv	ewater to	reatmen nstructio	t facility n of a n	, sewer r ew facilit	main, or y? _X_	other _Yes
		<u>Permitte</u>	<u>ed</u>	Existing Daily Flo		Project	Flow	<u>Total</u>
	Wastewater treatment plant capacity (in gallons per day)	2,700,00		1,670,00 FLOWS		1,914,5 VERAG	00 E DAILY	3,584,500 FLOWS
	E. If the project requires an interbasin tra	ansfer of asin tran	f wastev isfer exi	vater, wh sting or r	ich bas new?	ns are ir	ivolved,	what is the

The project will involve interbasin transfer of wastewater and treated effluent. Wastewater will be collected from the Halls Creek, Centerville River, Three Bays, Popponesset Bay, and Barnstable Harbor Watersheds will be treated at the Barnstable Water Pollution Control Facility (BWPCF) in Lewis Bay Watershed. Treated effluent will be disposed of at the BWPCF and likely at a yet to be determined supplemental disposal location (watershed undetermined at this time).

F. Does the project involve new sewer service (MWRA) or other Agency of the Commonwealth	by the Massachi n to a municipalit	usetts Water Res y or sewer distric	sources Authority ct? Yes _X_ No
G. Is there an existing facility, or is a new facility treatment, processing, combustion or disposal of wastewater reuse (gray water) or other sewage is the capacity (tons per day):	of sewage sludge	e, sludge ash, or	it screenings
Storage Treatment Processing Combustion Disposal	Existing	Change	<u>Total</u>
H. Describe the water conservation measures to wastewater mitigation, such as infiltration and in	to be undertaken iflow removal.	by the project, a	and other
Consistency A. Describe measures that the proponent will t	ake to comply w	ith applicable sta	ite, regional, and

#### III.

- local plans and policies related to wastewater management. This project is the Town's Comprehensive Wastewater Management Plan and is intended to be an effort to comply with federal, state, and regional plans/policies related to wastewater management.
- B. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan? \_\_\_\_ Yes \_\_\_\_ No; if yes, indicate the EEA number for the plan and whether the project site is within a sewer service area recommended or approved in that plan: Project is a comprehensive wastewater management plan.

### TRANSPORTATION SECTION (TRAFFIC GENERATION)

	nresholds / Permit  . Will the project meet or exceed any review th 11.03(6))? YesX_ No; if yes, sp	nresholds related pecify, in quantita	to <b>traffic gener</b> tive terms:	ation (see 301 CMR
N	. Does the project require any state permits re o; if yes, specify which permit: Portions of the ture within state highways.	elated to <b>state-c</b> e project will requi	ontrolled roadw ire access permit	ays?X_Yes s to install
Tı	. If you answered "No" to <u>both</u> questions A an ransportation Facilities Section. If you answer remainder of the Traffic Generation Section	vered "Yes" to ei	the <b>Roadways a</b> t <u>ther</u> question A o	and Other or question B, fill out
II. Tra A.	affic Impacts and Permits  Describe existing and proposed vehicular train	ffic generated by	activities at the	
	Number of parking spaces Number of vehicle trips per day ITE Land Use Code(s):	Existing	Change	Total
В.	What is the estimated average daily traffic or Roadway  1 2 3	roadways servi Existing	ing the site? Change	<u>Total</u>
C.	If applicable, describe proposed mitigation memory project proponent will implement:	neasures on state	e-controlled road	ways that the
D.	How will the project implement and/or promo and services to provide access to and fr	te the use of tran	nsit, pedestrian a ite?	and bicycle facilities
C.	Is there a Transportation Management Assomanagement (TDM) services in the area of if and how will the project will participate	the project site?	at provides trans Yes	portation demand No; if yes, describe
D.	Will the project use (or occur in the immedia facilities? Yes No; if yes, general	te vicinity of) war ly describe:	ter, rail, or air tra	nsportation
E.	If the project will penetrate approach airspace Massachusetts Aeronautics Commission Air of Proposed Construction or Alteratic (CFR Title 14 Part 77.13, forms 7460-1 and	space Review Fon with the Feder	orm (780 CMR 1	11.7) and a Notice
De	onsistency escribe measures that the proponent will take to traffic, transit, pede	to comply with m	unicipal, regiona	I, state, and federal

services:

## TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

i.	Thresholds  A. Will the project meet or exceed any review thresholds related to <b>roadways or other</b> transportation facilities (see 301 CMR 11.03(6))? Yes _X No; if yes, specify, in quantitative terms:
	B. Does the project require any state permits related to <b>roadways or other transportation facilities?</b> X_ Yes No; if yes, specify which permit: <i>Portions of the project will require access permits to install infrastructure within state highways.</i>
	C. If you answered "No" to <u>both</u> questions A and B, proceed to the <b>Energy Section</b> . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Roadways Section below.
II.	Transportation Facility Impacts  A. Describe existing and proposed transportation facilities in the immediate vicinity of the project site:
	B. Will the project involve any  1. Alteration of bank or terrain (in linear feet)?  2. Cutting of living public shade trees (number)?  3. Elimination of stone wall (in linear feet)?

III. Consistency -- Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

### **ENERGY SECTION**

I.	Thresholds / Permits  A. Will the project meet or exceed any review thresholds  Yes _X No; if yes, specify, in quantitative terms:	related to <b>energy</b> (see 301 CMR 11.03(7))
	B. Does the project require any state permits related to which permit:	energy?Yes _X No; if yes, specify
	C. If you answered "No" to <u>both</u> questions A and B, productions answered "Yes" to <u>either</u> question A or question B, fill out below.	ceed to the <b>Air Quality Section</b> . If you at the remainder of the Energy Section
II.	Impacts and Permits  A. Describe existing and proposed energy generation and Capacity of electric generating facility (megawatts) Length of fuel line (in miles) Length of transmission lines (in miles) Capacity of transmission lines (in kilovolts)  B. If the project involves construction or expansion of an	Existing Change Total
	the facility's current and proposed fuel source     the facility's current and proposed cooling source	e(s)?
	C. If the project involves construction of an electrical traunused, or abandoned right of way?YesNo; if ye	nsmission line, will it be located on a new, es, please describe:
	D. Describe the project's other impacts on energy faciliti	es and services:
III.	Consistency Describe the project's consistency with state, municipal, enhancing energy facilities and services:	regional, and federal plans and policies for

### **AIR QUALITY SECTION**

I.	Thresholds A. Will the project meet or exceed any rev 11.03(8))? Yes _X No; if yes, speci	iew thresholds rela fy, in quantitative to	ited to <b>air qualit</b> erms:	y (see 301 CMR	
	B. Does the project require any state perr specify which permit:	mits related to <b>air</b> q	juality? Ye	s _X No; if yes,	
	C. If you answered "No" to <u>both</u> questions <b>Section</b> . If you answered "Yes" to <u>either</u> q Quality Section below.	s A and B, proceed uestion A or quest	to the <b>Solid an</b> ion B, fill out the	d Hazardous Waster remainder of the Ai	e ir
II.	Impacts and Permits  A. Does the project involve construction or 7.00, Appendix A)? Yes No; if yes per day) of:	modification of a r , describe existing	major stationary and proposed e	source (see 310 CM missions (in tons	ΙR
		Existing	<u>Change</u>	<u>Total</u>	
	Particulate matter Carbon monoxide Sulfur dioxide Volatile organic compounds Oxides of nitrogen Lead Any hazardous air pollutant Carbon dioxide				
	B. Describe the project's other impacts on	air resources and	air quality, includ	ling noise impacts:	

#### III. Consistency

- A. Describe the project's consistency with the State Implementation Plan:
- B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

## SOLID AND HAZARDOUS WASTE SECTION

I.	Thresholds / Permits  A. Will the project meet or exc 301 CMR 11.03(9))? Yes	eed any review t _X No; if yes,	thresholds relate specify, in quan	ed to <b>solid or hazardous waste</b> (s titative terms:	see
	B. Does the project require an _X No; if yes, specify which	y state permits re permit:	elated to <b>solid a</b>	nd hazardous waste? Yes	
	C. If you answered "No" to bot Resources Section. If you an remainder of the Solid	swered "Yes" to	either question	the <b>Historical and Archaeologic</b> A or question B, fill out the selow.	:al
H.	Impacts and Permits  A. Is there any current or prop combustion or disposal of solid of the capacity:	osed facility at th waste? Yes	e project site for	r the storage, treatment, processir what is the volume (in tons per da	ıg, y)
	Storage Treatment, processing Combustion Disposal	Existing	<u>Change</u>	<u>Total</u>	
	B. Is there any current or propodisposal of hazardous waste? _ of the capacity:	osed facility at th Yes No;	e project site for if yes, what is th	the storage, recycling, treatment ne volume (in tons or gallons per d	or ay)
	Storage Recycling Treatment Disposal	Existing	Change	<u>Total</u>	
	C. If the project will generate so alternatives considered for re-u	olid waste (for ex se, recycling, an	ample, during de d disposal:	emolition or construction), describe	÷
	D. If the project involves demo Yes No	lition, do any buil	ldings to be dem	nolished contain asbestos?	
	E. Describe the project's other	solid and hazard	lous waste impa	cts (including indirect impacts):	
III.	Consistency Describe measures that the pr	oponent will take	e to comply with	the State Solid Waste Master Plan	ո։

#### HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

1.	Thresholds / Impacts  A. Have you consulted with the Massachusetts Historical Commission? Yes _X No; if yes, attach correspondence. For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? Yes No; if yes, attach correspondence
	B. Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? Yes No; if yes, does the project involve the demolition of all or any exterior part of such historic structure? Yes No; if yes, please describe:
	C. Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? Yes No; if yes, does the project involve the destruction of all or any part of such archaeological site? Yes No; if yes, please describe:
	D. If you answered "No" to <u>all parts of both</u> questions A, B and C, proceed to the <b>Attachments and Certifications</b> Sections. If you answered "Yes" to <u>any part of either</u> question A or question B, fill out

#### II. Impacts

Describe and assess the project's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

the remainder of the Historical and Archaeological Resources Section below.

The project is a Town-wide wastewater plan involving the installation of sewer infrastructure throughout the Town of Barnstable, which has numerous historic areas. When in historic districts, above ground components of the projects (pump stations, etc.) may be subject to review, which is anticipated to be handled on a project by project basis. Candidate sites for these facilities will be reviewed against available mapping during preliminary design to determine if there are any anticipated historical / archaeological impacts.

#### III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources: Candidate sites for these facilities will be reviewed against available mapping during preliminary design to determine if there are any anticipated historical / archaeological impacts.

### **CERTIFICATIONS:**

1. The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

(Name) Cape Cod Times

(Date) January 17, 2020

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

Signatures:

1/14/20 gul W Sento, P.E.		
Date Signature of Résponsible Officer or Proponent	Date	Signature of person preparing ENF (if different from above)
Daniel W. Santos, P.E.		
Name (print or type)	Name (p	rint or type)
Barnstable Department of Public Works		
Firm/Agency	Firm/Age	ency
_382 Falmouth Road		
Street	Street	
Hyannis/MA/02601		
Municipality/State/Zip	Municipa	lity/State/Zip
_508-790-6400		
Phone	Phone	

### Attachment: Town of Barnstable Impaired Waters\*

Location	Category	Pollutants addressed by TMDL
Bearses Pond	4a	Mercury in Fish Tissue
Bumps River	4a	Fecal Coliform
Centerville River	4a	Estuarine Bioassessments
		Fecal Coliform
		Nitrogen (Total)
Cotuit Bay	4a	Fecal Coliform
		Nitrogen (Total)
Halls Creek	4a	Fecal Coliform
Hyannis Harbor	4a	Fecal Coliform
Maraspin Creek	4a	Fecal Coliform
Mill Creek	4a	Fecal Coliform
North Bay	4a .	Estuarine Bioassessments
		Fecal Coliform
Popponesset Bay	4a	Estuarine Bioassessments
Prince Cove	4a	Estuarine Bioassessments
		Fecal Coliform
Santuit River	4a	Fecal Coliform
Seapuit River	4a	Fecal Coliform
Shoestring Bay	4a	Estuarine Bioassessments
		Fecal Coliform
Snows Creek	4a	Fecal Coliform
Stewarts Creek	4a	Fecal Coliform
Wequaquet Lake	4a	Mercury in Fish Tissue
West Bay	4a	Estuarine Bioassessments
Barnstable Harbor	5	Estuarine Bioassessments
		Fecal Coliform
Hamblin Pond	. 5	Mercury in Fish Tissue
		Dissolved Oxygen
Hyannis Inner Harbor	5	Fecal Coliform
		Nitrogen (Total)
Lewis Bay	5	Estuarine Bioassessments
		Fecal Coliform
Lovells Pond	5	Chlorophyll-a
		Excess Algal Growth
		Oxygen Dissolved
		Phosphorus (Total)
		Secchi disk transparancy
Middle Pond	5	Oxygen Dissolved
Mystic Lake	5	Oxygen Dissolved Oxygen Dissolved
Red Lily Pond	5	Fecal Coliform
any rona		recar Conform strient/Eutrophication Biological Indicat

#### Town of Barnstable Comprehensive Wastewater Management Plan

#### **Distribution List**

#### A copy of the CWMP/EENF has been sent to the following:

Secretary of Energy and Environmental

**Affairs** 

Executive Office of Energy and Environmental Affairs (EEA)

Attn: MEPA Office

100 Cambridge Street, Suite 900

Boston MA 02114

Mass DEP- Boston Commissioner's Office

One Winter Street, 2nd Floor

Boston, MA 02108

MassDEP Southeastern Regional Office 20 Riverside Drive Lakeville, MA 02347

Attention: MEPA Unit

Massachusetts Department of Transportation Public/Private Development Unit 10 Park Plaza, Suite #4150 Boston, MA 02116

Massachusetts Department of Transportation

District #5 Box 111

1000 County Street Taunton, MA 02780

Attn: MEPA Coordinator

Cape Cod Commission

3225 Main Street P.O. Box 226

Barnstable, MA 02630

Massachusetts Historical Commission

The MA Archives Building 220 Morrissey Boulevard

Boston, MA 02125

Attn: Ms. Brona Simon

Coastal Zone Management

Attn: Project Review Coordinator 251 Causeway Street, Suite 800

Boston, MA 02114

Division of Marine Fisheries (South Shore)

Attn: Environmental Reviewer 836 South Rodney French BLVD

New Bedford, MA, 02744

Department of Agricultural Resources

Attn: MEPA Coordinator

138 Memorial Avenue, Suite 42 West Springfield, MA 01089

Natural Heritage and Endangered Species

Program

Massachusetts Division of Fisheries &

Wildlife

1 Rabbit Hill Road

Westborough, MA 01581

Energy Facilities Siting Board

Attn: MEPA Coordinator

One South Station

Boston, MA 02110

Department of Energy Resources Attn: MEPA Coordinator 100 Cambridge Street, 10th floor Boston, MA 02114

Department of Public Health Director of Environmental Health 250 Washington Street Boston, MA 02115

**DCR** 

Attn: MEPA Coordinator 251 Causeway St. Suite 600 Boston MA 02114

Town of Mashpee Board of Selectmen Mashpee Town Hall 16 Great Neck Road North Mashpee, MA 02649

Town of Mashpee Conservation 16 Great Neck Road North Mashpee, MA 02649

Town of Mashpee Board of Health 16 Great Neck Road North Mashpee, MA 02649

Town of Mashpee Planning Board 16 Great Neck Road North Mashpee, MA 0264

Town of Sandwich Planning and Development 16 Jan Sebastian Drive Sandwich, MA 02563 Town of Sandwich Conservation Commission 16 Jan Sebastian Drive Sandwich, MA 02563

Town of Sandwich Health Department 16 Jan Sebastian Drive Sandwich, MA 02563

Town of Sandwich Board of Selectman 130 Main Street Sandwich, MA 02563

Town of Yarmouth Board of Selectman 1146 Route 28 South Yarmouth, MA 02664

Town of Yarmouth Planning Division 1146 Route 28 South Yarmouth, MA 02664

Town of Yarmouth Conservation 1146 Route 28 South Yarmouth, MA 02664

Town of Yarmouth Health Department 1146 Route 28 South Yarmouth, MA 02664

Town of Yarmouth Department of Public Works 1146 Route 28 South Yarmouth, MA 02664 Town of Yarmouth Town Administrator 1146 Route 28 South Yarmouth, MA 02664

Town of Barnstable Town Council 367 Main St Hyannis, MA 02601

Town of Barnstable Planning and Development 367 Main St Hyannis, MA 02601

Town of Barnstable Conservation 200 Main St Hyannis, MA 02601

Town of Barnstable Health Division 200 Main St Hyannis, MA 02601

## Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs

#### MEPA Office

100 Cambridge St., Suite 900 Boston, MA 02114 Telephone 617-626-1020

The following should be completed and submitted to a local newspaper:

#### PUBLIC NOTICE OF ENVIRONMENTAL REVIEW

PROJECT: Town of Barnstable Comprehensive Wastewater Management Plan

LOCATION: Town of Barnstable, Town-wide

**PROPONENT:** Town of Barnstable

The undersigned is submitting an Expanded Environmental Notification Form ("EENF") to the Secretary of Energy & Environmental Affairs on or before January 12, 2020

This will initiate review of the above project pursuant to the Massachusetts Environmental Policy Act ("MEPA", M.G.L. c. 30, s.s. 61-62I). Copies of the EENF may be obtained from:

Town of Barnstable Department of Public Works Attn: Griffin Beaudoin, P.E., Town Engineer 382 Falmouth Road, Hyannis, MA 02601 (508)-790-6400

Copies of the EENF are also being sent to the Conservation Commission and Planning Board of The Town of Barnstable where they may be inspected.

The Secretary of Energy & Environmental Affairs will publish notice of the EENF in the Environmental Monitor, will receive public comments on the project for 30 days, and will then decide, within seven days, if an Environmental Impact Report is needed. A site visit and consultation session on the project may also be scheduled. All persons wishing to comment on the project, or to be notified of a site visit or consultation session, should write to the Secretary of Energy & Environmental Affairs, 100 Cambridge St., Suite 900, Boston, Massachusetts 02114, Attention: MEPA Office, referencing the above project.

By: Town of Barnstable Department of Public Works