LETTER OF TRANSMITTAL

JC ENGINEERING

2854 Cranberry Highway East Warcham, MA 02538



Telephone: 508-273-0377 Facsimile: 508-273-0367

Bradley Bertolo

TO:		n of Bourne		DATE:	08/02/22 JOB NO. 6203
		d of Health		RE:	
		erry Avenue		_	77 Puritan Road
	Buzz	ards Bay, MA 025	532	-	Buzzards Bay, MA 02532
				-	
WE AI	RE SEN	DING YOU:	X Enclosed	Under separate co	over via X the following
			X Plans	Brochures	
					Contract Documents
	Engle				
				he permit and variance	ion for 77 Puritan Road,
	mera	ang a check in the		po	
			. ,		
THESE	E ARE T	RANSMITTED a	s checked below:		
	X	_For Approval	Resubmit	_	Copies for Approval
		_For Your Use	Approved as Not	ed	Copics for Distribution
	<u>X</u>	As Requested	Returned		Approved as Submitted
		Returned	For Review and	Comment _	For Your Information
REMA	RKS	Please feel free	to contact the office w	vith any questions.	
		***************************************			0 10 0 +1
COPY '	TO:	File		SIGNED:	Godle, Blitch



August 2, 2022

JC ENGINEERING, Inc.

Civil & Environmental Engineering

2854 Cranberry Highway East Wareham, Massachusetts 02538 Ph. 508-273-0377 – Fax 508-273-0367

Town of Bourne Board of Health 24 Perry Avenuc Buzzards Bay, MA 02532

RE: Local Upgrade Approvals and Variance Requests At 77 Puritan Road, Buzzards Bay, MA

Dear Members of the Board,

Please find enclosed a sewage disposal design drawing entitled "Proposed Septic System Upgrade at 77 Puritan Road, Buzzards Bay, MA" dated July 18, 2022 for your review and approval. This project involves the installation of a septic system using an innovative/alternative treatment (Mircrofast Unit) within the buffer zone of a salt marsh and coastal bank. Due to site constraints, we are requesting the following variances from the Town of Bourne Regulations:

- 1. A 21.2' variance (150.0' 128.8') for the setback from the leaching facility to the edge of the wetlands.
- 2. A 88.7' variance (150.0' 61.3') for the setback from the leaching facility to the top of coastal bank.

Also, in accordance with 310 CMR 15.401 - 15.405, the following local upgrade approvals are requested from 310 CMR 15.211 & 15.221(7):

- 1. A 4.5' waiver (10.0' 5.5') for the setback from the leaching facility to the front property line.
- 2. A 9.3' waiver (20.0' 10.7') for the setback from the leaching facility to the foundation wall.
- 3. A 2.3' waiver (10.0' 7.7') for the setback from the septic tank to the front property line.
- 4. A 2.0' waiver (10.0' 8.0') for the setback from the septic tank to the foundation wall.
- 5. A 1.0' waiver (4.0' 3.0') for the maximum depth of cover over the septic system components.

We appreciate your time and consideration on this matter. Please contact me if you have any questions or concerns.

Sincerely, Bradley Bestolo

Bradley M. Bertolo, EIT, CSE

Project Engineer



Bourne Board of Health Application for Local Upgrade Approvals



This application is to be submitted to the office of the Bourne Board of Health for the upgrade of a failed or nonconforming septic system where full compliance, as defined in 310 CMR 15.404(1) and the Bourne Board of Health regulations is not feasible. In accordance with the established procedures of the Bourne Board of Health, this application for local upgrade approval is relevant to requests for relief which have not been approved administratively and require approval at a public meeting.

Please note that local upgrade approvals shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

If a system upgrade cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the Board of Health Regulations and procedures, a variance will be required. Please visit www.townofbourne.com/health for the full regulations.

1. Facility Name and Address:

	Owner's Name	Richard J. Kokoszka and Jeanette C. Kokoszka
	Facility's Street Add	ress 77 Puritan Road, Buzzards Bay, MA 02532
	Owner's Telephone	Number
	Owner's E-mail Addr	ess
	Owner's Mailing Add	77 Puritan Road, Buzzards Bay, MA 02532
2. Ap	oplicant or Preparer's I	Name and Address (if different from above):
	Preparer's Name	BRADLEY M. BERTOLO, EIT, CSE
	Company	JC ENGINEERING, INC.
	Telephone Number	508-273-0377
	E-mail Address	bbertolo@jceng.org
	Mailing Address	2854 CRANBERRY HIGHWAY
	State/ Zip Code	E. WAREHAM, MA 02538
3. Typ	pe of Facility (check al	that apply):
	Residential	Commercial ☐ Institutional ☐ School ☐ Industrial

4. Describe Facility (i.e. single-family dwelling, 45 seat restaurant):
EXISTING THREE BEDROOM, SINGLE FAMILY DWELLING
5. Type of Existing System (check all that apply): Conventional Title 5 I/A System Privy
☐ Pressure Dosed ☐ Single Cesspool ☐ Overflow Cesspool Systems ☐ Other
6. Describe Existing System Components: SEPTIC TANK TO LEACHING PIT
7. Design Flow per 310 CMR 15.203 (in gallons/ day):
Design flow of existing system: 330 GPD
Design flow of proposed upgraded system: 330 GPD
Total design flow of facility: 330 GPD
8. The proposed upgrade is (check all that may apply):
☐ Required following inspection pursuant to 310 CMR 15.301. Date of inspection:
☐ Required by order, letter, for a building permit, etc. (attach copy of correspondence) ☐ Voluntary
9. Describe the proposed upgrade to the system: PUMP AND FILL EXISTING COMPONENTS.
9. Describe the proposed upgrade to the system:
-ABSORPTION SYSTEM CONSISTING OF (3) 500 GALLON LEACHING CHAMBERSALL NEW COMPONENTS TO BE H-20 RATED.
10. Local Upgrade Approval is requested for (check all that apply & describe on letter of request): *This information must also be listed on the design plans*
☐ Reduction in setback(s) – describe and list all reductions or attach separate sheet:
☐ Reduction in SAS area of up to 25% - describe:
☐ Reduction in separation between the SAS and high groundwater – describe in detail:
☐ Relocation of water supply well -explain:
☐ Use of only one deep hole in proposed disposal area
 ☐ Use of a sieve analysis as a substitute for a perc test (attach copy of sieve results) ☐ Other requirements of 310 CMR 15.000 or Bourne Board of Health Regulations that cannot
be met – describe and specify sections of the Code:
DUE TO THE LOCATION OF ADJACENT RESOURCE AREAS (COASTAL BANK AND
SALT MARSH), THE INSTALLATION OF THE LEACHING FACILITY WILL NEED A WAIVER FROM THE LOCAL WETLAND SETBACK REGULATION WHICH REQUIRES
150 FEET. THE PROPOSED LEACHING FACILITY IS LOCATED 61.3 FEET FROM THE
NEAREST COASTAL BANK AND 128.8 FEET FROM THE SALT MARSH.

be completed) A. An upgraded system in full compliance with 310 CMR 15.000	0 is not feasible:
B. An alternative system approved pursuant to 310 CMR 15.28	3 to 15.288 is not feasible:
C. Shared system is not feasible:	
D. Connection to a public sewer is not feasible:	
12. In order for this Application for Local Upgrade Approval to be deem accompanied by the following:	ed complete, it must be
 □ Any Application or Permit Fees paid to the Town of Bourne. □ Application for Disposal System Construction Permit signed & □ Seven sets of complete plans and specifications. One with or □ Cover letter addressed to the Board of Health members desc □ If abutter notification is required, one of each of the following ▶ A copy of the certified list of abutters from the Ass ▶ Sample letter for abutter notification postmarked ▶ Proof of certified mailing (receipts) meeting requir □ Approval from Conservation Commission (if applicable) 	riginal stamp of design engineer. cribing specific requests. g must be submitted: sessor's Department 10 days prior to meeting date
13. Certification:	
"I certify under penalty of law that this document and all attachments, to belief, are true, accurate, and complete. I am aware that there may be submitting false information, including, but not limited to, penalties or fideliberate violations."	significant consequences for
Facility Owner's Signature	Date
Print Name	_
, , , , , , , , , , , , , , , , , , ,	Date 8/3/33
Print NameBRADLEY M. BERTOLO, EIT, CSE	
For Office Use Only	
Completed Application Received: Reviewed By: _	
Circle all that apply: Approved Continued E	Disapproved Other

11. Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section <u>must</u>



TOWN OF BOURNE

Board of Assessors 24 Perry Avenue Buzzards Bay, MA 02532 (508) 759-0600 Ext. 1510 ♦ Fax (508) 759-8026



Rui Pereira, MAA Director of Assessing

August 2, 2022

Bradley Bertolo JC Engineering, Inc. 2854 Cranberry Highway E. Wareham, MA 02538

Re: Abutters List for Map 19.2 Parcel 100

Property address: 77 Puritan Road

As required by the Bourne Board of Health, pursuant with section 310 CMR 15.411(1), this is to certify that the attached list of names and addresses constitutes all of the parties in interest as shown on the most recent tax list of the Town of Bourne.

Abutting properties are: Map 19.2 Parcels 81, 88, 98, 99, 101 & 135.

Your payment of \$10.00 has been received by the Bourne Assessor's Office.

Please be advised that this abutters list is only good for 30 days from the date on this letter. Expired abutters list can be recertified for an additional filing fee.

See enclosed for abutters mailing addresses.

Board of Assessors

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	Bourne MA	ST Zip Cd/County	MA 01581	VA 98310	NH 03062	MA 02532	MA 02532	MA 02532
		Mailing City	WESTBOROUGH	BREMERTON	NASHJA	BUZZARDS BAY	BÚZZARDS BÁY	BUZZARDS BAY
		t Mailing Street	4 UPTON ROAD	1024 MAGNUSON WAY	S MYSTIC COURT	79 PURITÀN RD	75.PURITAN RD	24 PERRY AVE
Report		LCt/Cl Bk-Pg(Cert) /Dt	218654 2/22/2019	230388 6/29/2022	225512 3/3/2021	225678 3/23/2021	229066 2/4/2022	8692
Report #24; Owner Listing Report	Fiscal Year 2023	Location	72 PURITAN RD	70 PURITAN RD Y 1010	1 CRANBERRY RD Y 1010	79 PURITAN RD Y 1010	75 PURITAN RD Y 1010	O PURITAN RD Y 9300
ABUTTERS LIST	Key IN 3393,3400,3408,3409,3411,3443	Owner	DUFFY FINTAN A & CATHERINE TRS DUFFY LIVING TRUST	9		TRS LIVING TRU	ļ	TOWN OF BOURNE
Extract: Database	Filter. Sort:	Key Parcel ID	3393 19.2-81-0	3400 19.2-88-0	3408 19.2-98-0	3409 19.2-99-0	3411 19,2-101-0	3443 19:2-135-0

9

Total Records

No	FEE
10.	

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Bourne, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct()	Repair()	Upgrade 💢	Abandon() -	Complete System	☐ Individual Components
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Location 77 Puritan Rd	Owner's Name Richard + Jeanette Kokoszka
Map/Parcel# 19.2	Address 77 Puritan Rd. Buzzards Bay MA
Lot# 100	Telephone#
Installer's Name	Designer's Name JC Engineering, Inc Address 2854 Cranberry Hwy E. Wareham MA Telephone# 508-273-0377 02538
Address	Address 2854 Cranberry Hwy E. Wareham MA
Telephone#	Telephone# 508-273-0377 02538
ype of Building Single tamily dwelling	Lot Size 10,056 sq. ft.
welling - No. of Bedrooms 3	No of pareons Showers () Cafeteria ()
	No. of persons Showers (), Cafeteria ()
Design Flow (min. required) 110 bed gran: Date July 18 2022 Number 17 Purille Proposed Site Plan at 77 Purille Proposed Site Plan at	od Calculated design flow 330 Design flow provided 336.1 gpd r of sheets Revision Date An Rd
Description of Soil(s) See plan	
Soil Evaluator Form No. Na	ame of Soil Evaluator Bradley Bertolo Date of Evaluation May 13, 2022
DESCRIPTION OF REPAIRS OR ALTERATIONS_ Septic tank of Microfast Model 0.5	Pump + Remove existing components. Install 1500 gallon insert, D-box, and (3) 500 gallon leaching chambers
The undersigned agrees to install the above describ	ed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and on until a Certificate of Compliance has been issued by the Board of Health.
Signed	
Inspections	
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