

MANCHESTER-BY-THE-SEA

BOARD OF HEALTH

TOWN HALL - 10 CENTRAL STREET

Manchester-by-the-Sea, Massachusetts 01944-1399 Telephone (978) 526-7385 FAX (978) 526-2009

October 16, 2023

Binnabah, LLC c/o Jeffrey Karpowich 40 Raymond Street Manchester-by-the-Sea, MA 01944

NOTIFICATION TO OWNER

Upon receipt of the Title 5 Inspection Report for the onsite sewage disposal system at:

Property Address:

1-9 SANDPIPER LANE, MANCHESTER-BY-THE-SEA

Property Owner:

BINNAHAH, LLC

Licensed Title 5 Inspector: Mark Cottrell, D. F. Clark, Inc. SI# 4549

The Title 5 Inspection Report dated 5/8/2023, states the system **PASSES**. NOTES:

- Due to lack of electricity at the site, the floats and alarms were not tested. Prior to occupancy, visual confirmation by approving authority is required.
- The system is not connected to the dwelling(s). Prior to occupancy, visual confirmation by approving authority is required.
- The laterals were last snaked/flushed 2/1/2021.
- A current Operation and Maintenance Contract is required prior to occupancy.
- The system did not receive normal flows in the two weeks prior to the inspection.
- The property has not been occupied since January 2022.
- The septic tank was not pumped as part of the inspection.

The Board of Health DID NOT find the septic system, as it is now used, to constitute a danger to the public health and subsequently did not order its repair/replacement at this time.

Reviewing Board of Health Agent:

Wendy Hansbury RS, Public Health Director

THIS INSPECTION reflects the <u>present</u> condition of the sanitary disposal system and is not any guarantee as to the life or future condition of said system. A passing Title 5 Inspection Report with pump receipts for three years within each calendar year may be used for sale of property. (Explanation: If there is a potential that your home will be sold within three years, you MUST have the septic tank pumped once a year, within a year of the date of the approved Title 5 Inspection Report for each of the three years. This allows the sale to occur with the use of the pumping reports and annual receipts abates the need for a "Title 5 System Inspection" for a property transfer within three years of the passing inspection, otherwise a passing Title 5 Inspection Report is only good for two years.)



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments



Owner information is required for every page.

1 - 9 Sandpiper Lane			BOARD OF HEALTH
Property Address			DUARD OF HEALTH
Binnabah LLC			
Owner's Name			
Manchester-by-the-Sea	MA	01944	September 11, 2023
City/Town	State	Zip Code	Date of Inspection

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





. Inspector Information		
Mark Cottrell		
Name of Inspector		
D.F. Clark, Inc.		
Company Name		
22 Mitchell Road, PO Box 265		
Company Address		
lpswich	MA	01938
City/Town	State	Zip Code
(978) 356-5638	SI4549	
Telephone Number	License Number	

B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

- 1. A Passes
- Needs Further Evaluation by the Local Approving Authority
- 4. 🗌 Fails

Inspector's Signature

9-11-2023

Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.



D.F. CLARK, INC.



October 9, 2023

Binnabah, LLC c/o Jeffrey Karpowich 40 Raymond Street Manchester-by-the-Sea, MA 01944

RE: Title 5 Inspection

1 – 9 Sandpiper Lane, Manchester-by-the-Sea

Dear Binnabah, LLC:

Please find enclosed the Subsurface Sewage Disposal System Inspection Report for the above-referenced property. As noted on Part B (Certification) of the report, the system <u>Passes</u> the inspection criteria. This inspection is good for the next three (3) years.

As part of the inspection, all the building sewer pipes were tested by introducing clean water into the cleanouts. All the sewer lines showed good flow into the septic tank with no blockages observed.

Thank you for allowing us to be of service to you on this project. Please contact us if you have any questions regarding this matter.

Sincerely,

D.F. Clark, Inc.

Mark Cottrell
Title 5 Inspector

Enclosure

cc: Manchester-by-the-Sea Board of Health w/ review fee

D.F. Clark, Inc. file



Commonwealth of Massachusetts

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Owner's Name			
Manchester-by-the-Sea	MA	01944	September 11, 2023
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Mark Cottrell			
Name of Inspector			
D.F. Clark, Inc.			
Company Name			
22 Mitchell Road, PO Box 265			
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Ipswich	MA	01938	
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	Insp	pector's Signature	Date
4.		Fails	
3.		Needs Further Evaluation by the Local Approving	g Authority
2.		Conditionally Passes	
1.	\bowtie	Passes	

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

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Commonwealth of Massachusetts

	9 Sandpiper Lane					
	erty Address nabah LLC					
	er's Name					
Mai	nchester-by-the-Sea	MA	01944	September 11, 2023		
	Town	State	Zip Code	Date of Inspection		
C.	Inspection Summary	y				
	Inspection Summary: Complet	te 1, 2, 3, or 5 and a	ill of 4 and 6.			
1)	System Passes:					
	I have not found any inform in 310 CMR 15.303 or in 3 indicated below.					
	Comments:					
	System has a maintenance co	ontract with Clear W	ater Industries.			
2)	System Conditionally Passe	es:				
		system, upon comp		onal Pass" section need to be acement or repair, as approved by		
	Check the box for "yes", "no" determined," please explain.	or "not determined"	(Y, N, ND) for the	e following statements. If "not		
The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structure unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will passed inspection if the existing tank is replaced with a complying septic tank as approved by the Board Health.						
	* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.					
	□ Y □ N [☐ ND (Explain belo	ow):			



Commonwealth of Massachusetts

		indpiper Address	Lane						
		ah LLC							
		Name	4b - 0	N 4 A	0194	A A	Conton	-h 11 0000	
	ncne /Towr		the-Sea	MA State	Zip C			nber 11, 2023 nspection	
			ion Summary (cont.)						
•		- p	, (00)						
2)	Sys	tem Conditionally Passes (cont.):							
			Chamber pumps/alarms not oper /alarms are repaired.	ational.	System	will pass	with Boar	rd of Health approv	al if
		to brok	ration of sewage backup or breaken or obstructed pipe(s) or due to spection if (with approval of Boar	o a brok	en, settle				
			broken pipe(s) are replaced		□ Y	□N	□ ND(Explain below):	
			obstruction is removed		□ Y	□N	□ ND(Explain below):	
			distribution box is leveled or rep	olaced	□ Y	□N	□ ND(Explain below):	
							·····		
			stem required pumping more than will pass inspection if (with appr					obstructed pipe(s).	The
			broken pipe(s) are replaced		□ Y	□N	□ ND (Explain below):	
			obstruction is removed		ΓΥ	□N	□ ND (Explain below):	
					<u> </u>	·			
3)	Fu	rther Ev	valuation is Required by the Bo	oard of	Health:				
			ions exist which require further e stem is failing to protect public he					order to determin	e if
		15.303	stem will pass unless Board of 8(1)(b) that the system is not fu and the environment:						ealth,



Commonwealth of Massachusetts

	9 Sandpipe erty Address	er Lane				
Bin	nabah LLC ler's Name				***************************************	
	nchester-by	y-the-Sea		MA	01944	September 11, 2023
	Town	4! C		State	Zip Code	Date of Inspection
C.	Inspec	tion Su	mmary (cont.)			
		Cesspoo	ol or privy is within 50 f	eet of a su	urface water	
		Cesspoo	ol or privy is within 50 f	eet of a bo	ordering vegeta	ated wetland or a salt marsh
	deter		the system is functi			Vater Supplier, if any) protects the public health,
	100 fe	et of a sur	face water supply or tr	ibutary to	a surface wate	• • •
	supply	<i>/</i> .	·			n a Zone 1 of a public water in 50 feet of a private water
	more :	ne system l from a priv	has a septic tank and sate water supply well* determine distance:		he SAS is less	than 100 feet but 50 feet or
	coliform b	acteria ind	icates absent and the n, provided that no oth	presence	of ammonia nit	P certified laboratory, for fecal rogen and nitrate nitrogen is equal lered. A copy of the analysis must
	c. Other:					
4)	System F	ailure Cri	teria Applicable to Al	II Systems	s:	
	You <u>mus</u>	<u>t</u> indicate	"Yes" or "No" to eac	h of the f	ollowing for <u>al</u>	<u>l</u> inspections:
	Yes	No				
		\boxtimes	clogged SAS or cess	spool	•	ponent due to overloaded or
		\boxtimes	Discharge or pondin due to an overloaded			e of the ground or surface waters spool



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	9 Sandpipe					
	perty Address nabah LLC					
Ма	ner's Name nchester-by /Town	y-the-Sea		MA State	01944 Zip Code	September 11, 2023 Date of Inspection
		tion Su	mmary (cont.)			
4)	System F	ailure Crit	eria Applicable to A	II Svstems	s: (cont.)	
',	•			., •, • • • • • • • • • • • • • • • • •	()	
	Yes	No 	Static liquid level in t	the distribu	ition box above	outlet invert due to an overloaded
		\boxtimes	or clogged SAS or c	esspool		
		\boxtimes	than 1/2 day flow	•		invert or available volume is less
		\boxtimes	Required pumping nobstructed pipe(s).			ast year <i>NOT</i> due to clogged or
		\boxtimes	Any portion of the S	AS, cessp	ool or privy is b	elow high ground water elevation.
		\boxtimes	Any portion of cessp tributary to a surface			feet of a surface water supply or
		\boxtimes	Any portion of a ces	•	• •	Zone 1 of a public water supply
		\boxtimes	well.	angol or n	ivy is within 50	fact of a private water cumply wall
			Any portion of a ces	spool of pi	ivy is within 50	feet of a private water supply well.
			from a private water system passes if the laboratory, for fecal of ammonia nitrog	supply we he well was coliform en and nit	ell with no acce hter analysis, p hacteria indic rate nitrogen e criteria are t	100 feet but greater than 50 feet ptable water quality analysis. [This performed at a DEP certified cates absent and the presence is equal to or less than 5 ppm, riggered. A copy of the analysis this form.]
		\boxtimes	The system is a ces	spool serv	ing a facility wi	th a design flow of 2000 gpd-
			The system <u>fails</u> . I criteria exist as des	cribed in 3 ld contact	10 CMR 15.300 the Board of He	e or more of the above failure 3, therefore the system fails. The ealth to determine what will be
5)	design fl For large	low of 10,0	00 gpd to 15,000 gp ou must indicate eith	d.		must serve a facility with a the following, in addition to the
	Yes	No				
			the system is within	400 feet o	of a surface drir	nking water supply
			the system is within	200 feet o	of a tributary to	a surface drinking water supply
			the system is locate Area – IWPA) or a			area (Interim Wellhead Protection c water supply well



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C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for all inspections:

Yes	No	
\boxtimes		Pumping information was provided by the owner, occupant, or Board of Health
	\boxtimes	Were any of the system components pumped out in the previous two weeks?
	\boxtimes	Has the system received normal flows in the previous two week period?
	\boxtimes	Have large volumes of water been introduced to the system recently or as part of this inspection?
\boxtimes		Were as built plans of the system obtained and examined? (If they were not available note as N/A)
\boxtimes		Was the facility or dwelling inspected for signs of sewage back up?
\boxtimes		Was the site inspected for signs of break out?
\boxtimes		Were all system components, excluding the SAS, located on site?
\boxtimes		Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
		Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
\boxtimes		Existing information. For example, a plan at the Board of Health.
\boxtimes		Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]



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- 9 Sandpiper Lane							
operty Address							
nnabah LLC wner's Name							
anchester-by-the-Sea	MA	01944	September 1	11 2	2023		
ty/Town	State	Zip Code	Date of Inspecti		.020		
. System Information							
Residential Flow Conditions:							
Number of hadrooms (design):		Number of bea	drooms (actual):		6		
Number of bedrooms (design):		Number of bed	irooms (actual).		000		
DESIGN flow based on 310 CMR 15.20	3 (for examp	ole: 110 gpd x #	of bedrooms):		660 (gpa	
Description:							
As per design plan dated December 4, 2	2017 by C.G	. Johnson Engi	neering, Inc.				
Number of comment recidents					0		
Number of current residents:							
Does residence have a garbage grinder	?				Yes	\boxtimes	No
Does residence have a water treatment	unit?			\Box	Yes	\bowtie	No
Does residence have a water treatment	unit:			لـــا	163		INO
If yes, discharges to:							
Is laundry on a separate sewage systen	n? (Include I	aundry system	inspection	П	Yes	\boxtimes	No
information in this report.)				LJ	165		NO
Laundry system inspected?					Yes	\boxtimes	No
Seasonal use?					Yes	\boxtimes	No
Seasonal use !				Ш	165		INU
Water meter readings, if available (last 2	2 years usa	ge (gpd)):					
Detail:							
Sump pump?					Yes	\boxtimes	No
Last data of a council and				Jar	nuary	202	2
Last date of occupancy:	t date of occupancy:						



Commonwealth of Massachusetts

	9 Sandpiper Lane			
	perty Address nabah LLC			
	ner's Name			
		ЛА	01944	September 11, 2023
		State	Zip Code	Date of Inspection
D.	System Information (cont.)			
2.	Commercial/Industrial Flow Conditions:			
	Type of Establishment:			
	Design flow (based on 310 CMR 15.203):		Gallor	s per day (gpd)
	Basis of design flow (seats/persons/sq.ft., etc	.):		
	Grease trap present?			☐ Yes ☐ No
	Water treatment unit present?			☐ Yes ☐ No
	If yes, discharges to:			
	Industrial waste holding tank present?			☐ Yes ☐ No
	Non-sanitary waste discharged to the Title 5	system	?	☐ Yes ☐ No
	Water meter readings, if available:			
	Last date of occupancy/use:		Date	
	Other (describe below):			
			·	
3.	Pumping Records:			
	Source of information:		tem has not b ember 2018.	een pumped since installation in
	Was system pumped as part of the inspection	n?		☐ Yes ☒ No
	If yes, volume pumped:	gallo	ns	
	How was quantity pumped determined?			
	Reason for pumping:	V-V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		



Commonwealth of Massachusetts

Binn Dwne	erty Address abah LLC						
Owne							
/lan	r's Name						
City/T	chester-by-the	-Sea	<u>MA</u> State	01944 Zip Code	September 11, 2023 Date of Inspection		
		formation (cont.)	State	Zip Oode	Date of Inspection		
	Type of Syste						
		Septic tank, distribution	box, soil abs	orption systen	n		
		Single cesspool					
		Overflow cesspool					
		Privy					
		Shared system (yes or	no) (if yes, at	tach previous	inspection records, if any)		
Innovative/Alternative technology. Attach a copy of the current operation ar maintenance contract (to be obtained from system owner) and a copy of lainspection of the I/A system by system operator under contract					owner) and a copy of latest		
		Tight tank. Attach a copy of the DEP approval.					
		Other (describe):					
	Components o	age of all components, danged of system were installed Notes odors detected when arri	lovember 20°	18 as per as-b	source of information: uilt plan dated November 16, 20 ☐ Yes ☑ No		
5.	Building Sew	er (locate on site plan):					
	Depth below grade:				/arious depths, 3' at manhole		
	Material of co	nstruction:					
	☐ cast iron	⊠ 40 PVC	other (explain): -			
	Distance from	private water supply well	or suction lir	JΦ,	N/A eet		
		n condition of joints, venti	ng, evidence	of leakage, et	c.):		
	•	•	ed to units. A	II sewer pipes	were tested by introducing clean		



Commonwealth of Massachusetts

9 Sandpiper Lane						
perty Address nabah LLC						
ner's Name			0.40.4.4	<u> </u>	44 0000	
nchester-by-the-Se /Town	a	MA State	01944 Zip Code	Septemb Date of Ins	per 11, 2023	
	rmation (cont.)					
dystein iiio	imation (cont.)					
Septic Tank (loca	te on site plan):					
Depth below grade	۵.	****	1.5			
Deptil below grade	5.		f	eet		
Material of constru	uction:					
⊠ concrete	☐ metal	☐ fibergla	ass 🗌 p	olyethylene	other (explain)	
Economic			·			
If tank is metal, lis	st age:		- !	years		
Is age confirmed by a Certificate of Compliance? (attach a copy of certificate) Yes N						
Dimensions:			12.5' W x 6.5' L x 5.2' D			
Sludge depth:		8"				
			N/A			
Distance from top	of sludge to bottom	0"				
Scum thickness						
Distance from top	o of scum to top of o	N/A				
·	ttom of scum to botto		N/A			
				Tape measure & Sludge Judge		
How were dimensions determined? Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity						
liquid levels as re	umping recommenda Hated to outlet invert ce. Liquid level is nor	, evidence of le	eakage, etc.):			
with a high head	pump. Pumping is n	ot needed at th	nis time. Sept	ic tank is in go	od condition.	
			·			



Commonwealth of Massachusetts

	9 Sandpiper Lane								
	erty Address nabah LLC								
	ner's Name								
Mai	nchester-by-the-Se	ea	MA	01944		er 11, 2023			
	Town		State	Zip Code	Date of Insp	ection			
D.	System Info	rmation (cont.	.)						
7.	Grease Trap (loc	ate on site plan):							
	Depth below grad	e:		f	eet				
	Material of constr	uction:							
	concrete	☐ metal	☐ fiberglas	ss 🗌 p	olyethylene	other (explain):			
	Dimensions:			-					
	Scum thickness			-					
	Distance from top of scum to top of outlet tee or baffle								
	Distance from bottom of scum to bottom of outlet tee or baffle								
	Date of last pump	ping:		-	Date				
	Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):								
8.	Tight or Holding	Tank (tank must b	e pumped at tim	e of inspection	n) (locate on s	site plan):			
	Depth below grad	de:							
	Material of const	ruction:							
	☐ concrete	☐ metal	☐ fibergla	iss 🔲 i	oolyethylene	other (explain):			
	Dimensions:								
	Capacity:			gallons	***************************************				
	Design Flow:			gallons per day					



Commonwealth of Massachusetts

	9 Sandpiper Lane					
	perty Address nabah LLC					
	naban ELC ner's Name					
	nchester-by-the-Sea	MA	01944 Ser		ember 11, 20	23
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D.	System Information (cont.)					
8.	Tight or Holding Tank (cont.)					
	Alarm present:		☐ Yes [☐ No		
	Alarm level:		Alarm in worki	ng order:	☐ Yes	☐ No
	Date of last pumping:		Date			
	Comments (condition of alarm and float so	witches. e	etc.):			
	Sommonto (Somanion el siami ana nest e					
	·		•			
	* Attach copy of current pumping contract	t (required	d). Is copy attac	hed?	☐ Yes	☐ No
9.	Distribution Box (if present must be ope	ened) (loca	ate on site plan):		
	Depth of liquid level above outlet invert					
	Comments (note if box is level and distrib evidence of leakage into or out of box, etc		outlets equal, ar	ny evidence	e of solids car	rryover, any
					······································	



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1 - 9 Sandpipe	r Lane				
Property Address Binnabah LLC					
Owner's Name					
Manchester-by	v-the-Sea	MA	01944		er 11, 2023
City/Town		State	Zip Code	Date of Inspe	ection
D. System	n Information (cont.)				
10. Pump Cha	amber (locate on site plan):				
Pumps in v	working order:				☐ No*
Alarms in	working order:				☐ No*
Comments	s (note condition of pump chambe	er, conditi	on of pumps a	nd appurtenan	ices, etc.):
Unable to	test pumps in system because th	ere is no	power to the s	ite. All pumps	and alarms were
working at	last maintenance visit. See Clea	r Water Ir	dustries repor	t from June 21	, 2022 (attached).
			•		
		,			
	located, explain why:				
Type:					
	leaching pits		number:		
	leaching chambers		number:	:	
	leaching galleries		number	;	
	leaching trenches		number	, length:	
	leaching fields		number	, dimensions:	***************************************
	overflow cesspool		number	:	***************************************
\boxtimes	innovative/alternative system	m			
	Type/name of technology:	27' x later		Sand Filter SA	AS with (4) 1.25"



Commonwealth of Massachusetts

Property Address Binnabah LLC			
Owner's Name			
Manchester-by-the-Sea	MA	01944	September 11, 2023
City/Town	State	Zip Code	Date of Inspection
D. System Information (cont.))		
11. Soil Absorption System (SAS) (cont	t.)		
Comments (note condition of soil, sign		failure level of	nonding damp soil condition of
vegetation, etc.):	ns of Hydradic	randre, lever or	portaing, damp soil, condition of
Above-grade bottomless sand filter. N	lo signs of pon	ding. Inspectior	n port was dry.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
12. Cesspools (cesspool must be pumpe	ed as part of ins	spection) (locat	e on site plan):
Al () () () () ()			
Number and configuration			
Depth – top of liquid to inlet invert			
Depth of solids layer			
Death of a sure leaves			
Depth of scum layer			
Dimensions of cesspool			
2			
Materials of construction			
Indication of groundwater inflow			☐ Yes ☐ No
Indication of groundwater inflow			
Comments (note condition of soil, sig	ins of hydraulic	failure, level of	f ponding, condition of vegetatior
etc.):			3



Commonwealth of Massachusetts

MA	01944	September 11, 2023
State	Zip Code	Date of Inspection

Vac. 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
hydraulic	failure, level of	ponding, condition of vegetation,
	State	State Zip Code



Commonwealth of Massachusetts

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Manchester-by-the-Sea	MA	01944	September 11, 2023
City/Town	State	Zip Code	Date of Inspection

D. System Information (cont.)

14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

	hand-sketch in the area below
\boxtimes	drawing attached separately





Commonwealth of Massachusetts

Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

1 - 9 Sandpiper	Lane					
Property Address Binnabah LLC						
Owner's Name		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Manchester-by-	-the-Sea	MA	01944	September 11, 2023		
City/Town		State	Zip Code	Date of Inspection		
D. System	Information (cont.)					
15. Site Exam						
	Slope					
⊠ Surface						
☐ Check						
⊠ Shallov	v wells					
Estimated	depth to high ground water:		3.0 feet			
Please indi	cate all methods used to detern	nine the hi	gh ground wate	er elevation:		
\boxtimes	Obtained from system design	December 4, 2017				
	If checked, date of design plan					
	Observed site (abutting proper	rty/observa	ation hole within 150 feet of SAS)			
	Checked with local Board of H	lealth - exp	olain:			
	Checked with local excavators	s, installers	- (attach docu	mentation)		
	Accessed USGS database - e	explain:				
According	describe how you established the to soil testing done by Charles and to be 3.0' below the ground su	Johnson, F	E on Decembe			
of SAS is 4	4.0' above ESHGW. At time of ir	nspection a	a site exam was	s made, site is level, no surface		
water was	observed, did not check cellars	of individu	al units, and no	o shallow wells were located.		

Before filing this Inspection Report, please see Report Completeness Checklist on next page.



Commonwealth of Massachusetts

Title 5 Official Inspection Form

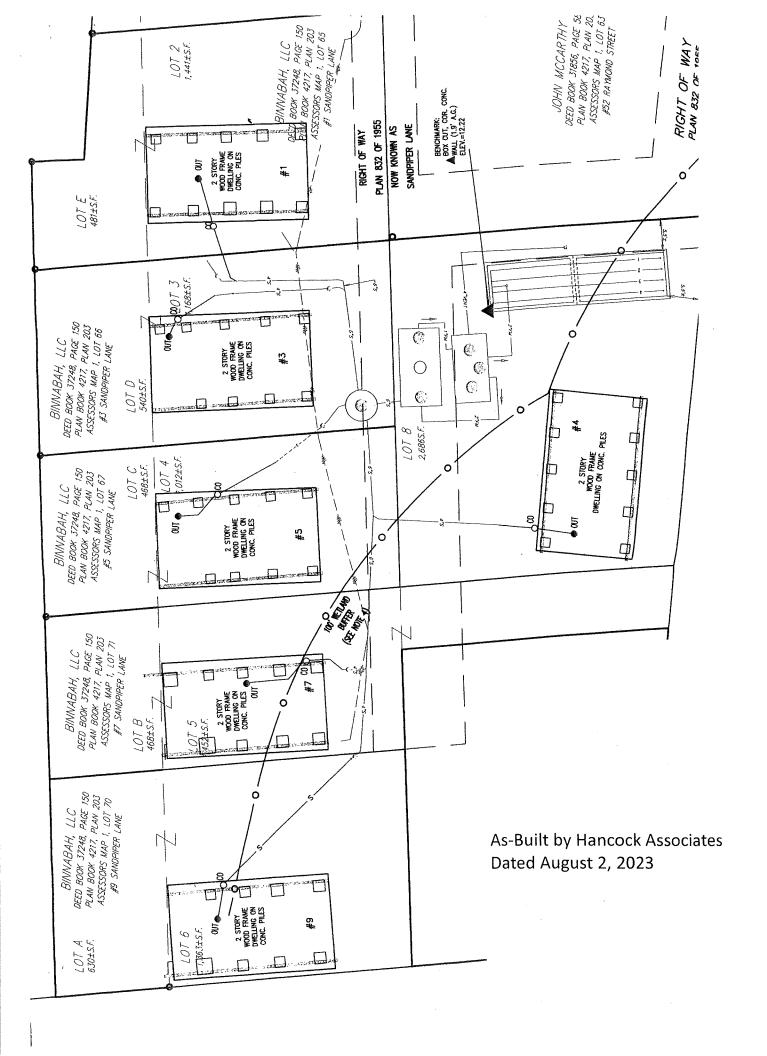
Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

1 - 9 Sandpiper Lane			
Property Address			
Binnabah LLC			
Owner's Name			
Manchester-by-the-Sea	MA	01944	September 11, 2023
City/Town	State	Zin Code	Date of Inspection

E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

- A. Inspector Information: Complete all fields in this section.
- ☑ B. Certification: Signed & Dated and 1, 2, 3, or 4 checked
- C. Inspection Summary:
 - 1, 2, 3, or 5 completed as appropriate
 - 4 (Failure Criteria) and 6 (Checklist) completed
- D. System Information:
 - For 8: Tight/Holding Tank Pumping contract attached
 - For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached
 - For 15: Explanation of estimated depth to high groundwater included





WATERLOO BIOFILTER SYSTEM ROUTINE INSPECTION

DATE:	anuary 21, 2022 OPERATO	R: Mario Rosa
	SYSTEM STATUS	
Septic Tank		
Bio-tube Filter:	O.k., clean	
Scum Depth:	2"/36"	The state of the s
Sludge Depth:	10"/36"	
	(Measured on January 21, 2022)	
Pump Chamber		
Pump H-O-A Setting:	Auto	700 <u>74 + 11</u>
Pump Cycle Timer:	10 Minutes off, 30 Seconds on	
Elapsed Time Meter:	517 hours, 15 minutes	
Event Counter:	57,844	·
Alarm Selector:	On	
High Level Alarm:	9	
Low Level Alarm:	42	
Overrides	813	
Exercise Pump:	Yes	
Test & Clean Floats:	Yes, clean	
Tank Condition:	Good	
Waterloo Biofilter Chamber		
Pump H-O-A Setting:	Auto	
Pump Cycle Timer:	On Demand	
Elapsed Time Meter:	114 hours, 1 minute	
Event Counter:	5,116	
Alarm Selector:	On	
High Level Alarm:	10	
Exercise Pump:	Yes	
Test & Clean Floats:	Yes, cleaned	
Tank Condition:	Good	
Foam Medium Condit	ion: Good, tan	1173100
Spray Nozzles:	Clear, good spray	
Effluent Quality		
Visual Inspection:	Clear, no odor	
Sample: p	H = 7.0, Dissolved Oxygen = 6.02, mg/L,	Turbidity = 2.98 NTU
Comments:	-	
1771.	7-176-	
Signature:	Ce WODOC Ce	rtificate # <u>156</u> 52

Bottomless Sand Filter System Technology Checklist

ADDRESS: 1-9	Sandpiper Lane, N	Aanchester-by-the-Sea	OWNER:	Binnabah, LLC	
INSPECTION D	ATE: <u>Janua</u>	ry 21, 2022	OPERATOR:	Mario Rosa	
Water Meter Rea	iding: <u>Se</u>	e Attached Waterloo	<u>Biofilter Syster</u>	n Routine Inspection	
Septic Tank:	<u>Se</u>	See Attached Waterloo Biofilter System Routine Inspection			
Pump Chamber:		See Attached Waterloo Biofilter System Routine Inspection			
Waterloo Biofilte	er Chamber: <u>Se</u>	See Attached Waterloo Biofilter System Routine Inspection			
Bottomless Sand	Filter:				
♦ Condi	tion of Retaining	Wall: Good			
♦ Any p	onding on surface	e of peagravel?	None		
♦ Any se	ettling of peagrav	el or possible animal :	activity?	None	
♦ Any o	dor? <u>N</u>	one			
♦ Move	peagravel down (o expose sand interfa	ce. Depth of po	onding (if any) <u>0"</u>	
♦ Check	Check Inspection Well. Depth of ponding at sand/soil interface (if any)0"				
◊ Pressu	Pressure-Distribution Laterals:				
♦ Oı	iginal Distal Hea	d: 9/13/18 – 12'			
	♦ Check & measure Distal Head from top of cap of Lateral #1: 11.8'				
(Note	: All other Lateral	s should remain closed	when test is pe	rformed.)	
♦ Sn	ake & flush all L	aterals (req'd min. on	ce/year). Date	last done? <u>2/1/21</u>	
♦ Cl	ose all Laterals a	nd turn Pump On. C	an you hear ev	en distribution? Yes	
Commen	ts:				

1	MARIAN				
Signature	e lauret 10	610C	Certificate #	15652	



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Title 5

DEP Approved Inspection and O&M Form for Title 5 I/A **Treatment and Disposal Systems**

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





A. lı	nstallation					
В	innabah, LLC					
	wner		7			
1	-9 Sandpiper Lane					
F	acility Street Address	THE PARTY OF THE P				
M	lanchester-by-the-Sea		01944			
С	ity		Zip			
N	failing address of owner, if differe	ent:				
<u>J</u>	effrey Karpowich, 40 Raymond S treet Address/PO Box:	<u>t.</u>	· · · · · · · · · · · · · · · · · · ·			
N	fanchester-by-the-Sea	MA		01944		
C	ity	State		Zip		
() - ext.					
T	elephone Number					
B. <i>A</i>	Authorized Service Pro	ovider				
	Clear Water Industries					
0	&M Firm					
	P.O. Box 825					
	treet Address					
	oswich	MA.		01938		
	ity	State		Zip		
	978) 356 - 0779 ext.					
T	elephone Number					
	Mario Rosa		15652			
С	ertified Operator Name		Certification Numb	per		
C. F	acility/System Inform	ation				
				UG690		
D	EP ID	Manufacturer ID		Model Number		
Δ	August 7, 2018		August 22, 20	18		
	Installation Date		Start of Operation			
Α	Approval Type:	☐ Provisional	☐ Piloting	⊠ Remedial		
S	Seasonal Residence – used less	than 6 mo./year:	☐ Yes	⊠ No		
D. (Operating Information	, page de la companya				
1	January 21, 2022 Inspection Date 10"		August 40, 00	0.4		
			August 18, 20			
			Previous Inspection Date Pumping Recommended Yes No			
Sludge Depth (to be checked yearly)			1.00 M			



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Title 5

DEP Approved Inspection and O&M Form for Title 5 I/A **Treatment and Disposal Systems**

E.	Field Te	esting				
	Field Inspec	ction:				
	Color:	☐ gray	☐ brown	⊠ clear	☐ turbid	
		☐ Other (spe	cify):	***************************************		
	Odor:	☐ musty	☐ earthy	☐ moldy	offensive turbid	
	Effluent So	lids: 🔲 no	some			
	pH $\frac{7.0}{6 \text{ to}}$	SU	$DO = \frac{6.02 \text{ m}}{2 \text{ or gre}}$	ng/L ater Turb	idity 2.98 NTU 40 or less	
		emedial or Gen rd Methods and	eral Use syster	n fail the Field T	esting, effluent samples shall be collected	
F.	Samplin	ng Informa	tion			
	Samples Ta	aken: 🔲 Int	luent 🗌 E	Effluent		
Commercial systems or systems with a design flow of 2000 gpd and greater, and General Use nitrogen reducing systems:						
				gpd		
	Parameters sampled: DH DBOD CBOD TSS TN Other (list below)					
	Other 1		Other 2		Other 3	
G.	Inspect	tion and M	aintenanc	е		
	Description of any maintenance performed since previous inspection & during this inspection:					
	Notes and	Comments:				
	Field sample was clear with no odor.					
				· · · · · · · · · · · · · · · · · · ·		



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Title 5

DEP Approved Inspection and O&M Form for Title 5 I/A Treatment and Disposal Systems

H. Certification

I certify: I have inspected the sewage treatment and disposal system at the address above, have conducted the required Field Testing and/or sample collection in accordance with Standard Methods, have completed this report and the attached technology operation and maintenance checklist, and the information reported is true, accurate, and complete as of the time of the inspection. I am a Massachusetts certified operator in accordance with 257 CMR 2.00.

Operator Signature

January 21, 2022

Date

System owner must submit this report, technology O&M checklist, <u>and</u> any required sampling results to the local board of health and DEP as follows for each inspection performed:

Remedial Use - by January 31st of each year for the previous calendar year

Piloting Use - within 45 days of inspection date

Provisional Use – by March 31th of each year for the previous 12 months

General Use – by September 30th of each year for the previous 12 months

Send to:

Department of Environmental Protection Attention: Title 5 Program One Winter Street, 6th Floor Boston, MA 02108



August 25, 2021

Binnabah, LLC Mr. Jeffrey Karpowich 40 Raymond Street Manchester-by-the-Sea, MA 01944

> RE: Maintenance and Service Contract for the Waterloo Biofilter System located at

1-9 Sandpiper Lane, Manchester-by-the-Sea, MA

Dear Jeffrey:

Clear Water Industries (CWI) proposes to provide the service and maintenance for the Waterloo Biofilter System located at the above referenced property. The following maintenance and service schedule is for the next two (2) years of operation commencing upon receipt of signed contract and Annual Cost received in full.

Scheduled Annual Service:

Annual Cost: 2 inspections and 2 field effluent tests = \$710.00

(Note: Access cover for all components must be at the ground surface.)

- 1. Check sludge and scum depth in the septic tank and clean the bio-tube filter as needed.
- Check panels and alarm system. 2.
- Check ejector pumps and float switches in both the Filter Vault and the Waterloo Biofilter. 3.
- 4. Check spray nozzles, fan and foam cubes in Waterloo Biofilter.
- Maintain Bottomless Sand Filter and inspect for ponding as required. 5.
- Take effluent sample as required by Massachusetts D.E.P. Sample will be analyzed for the 6. following:
 - *Dissolved Oxygen,
 - *Turbidity,

and *pH.

7. Notify Client verbally of any problems encountered.

> (Note: There may be instances when the high water alarm will sound. In the event of an alarm condition, you are requested to silence the audible alarm and contact CWI @ (978) 356-0779 for instruction and/or a follow-up field visit by a CWI personnel. See emergency service costs.)

I have read and agree with the above Scope of Work, including the granting of access to the subject property in order to conduct the required maintenance:

CWI's initial Owner's initial



Page 2 Binnabah, LLC Mr. Jeffrey Karpowich August 25, 2021

Emergency service:

1. Emergency service calls will be billed at the following rates for the first two (2) hours & thereafter, with the stated hourly rate:

	1 4 1115.	<u>110u11y</u>
*Monday through Friday 7am – 3:30pm:	\$180	\$90
*Monday through Friday 3:30pm – 7am:	\$300	\$150
*Saturday & Sunday:	\$300	\$150.

1st 2 hre

Hourly

2. If results of field effluent testing for pH, Dissolved Oxygen or Turbidity do not comply with Massachusetts Department of Environmental Protection limits, additional testing for Total Suspended Solids and Biochemical Oxygen Demand would need to be done at a certified laboratory. Owner would be contacted prior to additional testing. Additional testing of effluent would be \$105.00 per sample.

Certified technician:

The service technician shall be a Massachusetts Certified Operator. The certified operator will be Mark Cottrell, Mario Rosa, or Kevin Conwell.

Reporting requirements:

In accordance with DEP's Title V Regulations, CWI will file an annual report transmitting the data from the annual inspection, as noted above, as well as a review of any unscheduled service. CWI will also file an annual report with the home owner and the local Board of Health.

Sincerely,

Clear Water Industries

David 7. Clark Comb

David F. Clark

Manager

Acceptance by Owner:

Binnabah, LLC

By Jeffrey Karpoy

8/31/21 Date