



## Radionuclide Report

## I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: **3116000** City / Town: **GROVELAND**  
 PWS Name: **Groveland Water Department** PWS Class:  COM  NTNC  TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information		Date Collected	Collected By
10004	Well #4	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	7/1/15	C. STOKES
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:			
		(1) Reason for Resubmission		(2) Collection Date of Original Sample	
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Ranalysis <input type="checkbox"/> Report Correction			
SAMPLE NOTES – (Such as, if a Manifold/Multiple sample, list any sources that were on-line line during sample collection).					

## II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #: **MA026** Primary Lab Name: **BIOMARINE INC.** Subcontracted? (Y/N) **Y**

Was this sample composited by the Lab?	COMPOSITE SAMPLE NOTES List the composited source by DEP Source Code (XXXXXXX-XXX) and dates collected, up to four consecutive quarterly samples per single entry point.
<input type="checkbox"/>	
LAB SAMPLE NOTES	

Contaminant	RESULT	Std Dev (+/-)	MCL	MDL	Lab Method	Date Analyzed	Lab Sample ID#	Analysis Lab MA Cert#	Analysis Lab Name
GROSS ALPHA (pCi/L)	ND	+/- 0		3.00	900.0	7/17/15	E507274-2-59886B	M-OPH923	SET LAB
URANIUM – activity (pCi/L)									
Report Uranium result and MDL in (pCi/L) as analyzed, otherwise use formula to calculate [Uranium µg/L x 0.67 = Uranium pCi/L]. Check this box if result is calculated <input type="checkbox"/>									
ADJUSTED GROSS ALPHA (pCi/L)		----	15						
The MCL for <i>Adjusted Gross Alpha</i> (Gross Alpha minus Uranium) is 15 pCi/L. A gross alpha measurement may be substituted for the uranium analysis, if the gross alpha result is equal to or less than 15 pCi/L. If gross alpha exceeds 15 pCi/L, uranium must also be measured.									
URANIUM – mass (µg/L)			30						
Report Uranium result and MDL in (µg/L) as analyzed, otherwise use formula to calculate [Uranium pCi/L / 0.67 = Uranium µg/L]. Check this box if result is calculated <input type="checkbox"/>									
RADIUM-226 (pCi/L)									
RADIUM-228 (pCi/L)									
COMBINED RADIUM (pCi/L)		----	5						
The MCL for <i>Combined Radium</i> (Radium-226 plus Radium-228) is 5 pCi/L. A gross alpha measurement may be substituted for the radium-226 analysis, if the gross alpha result is equal to or less than 5 pCi/L. If gross alpha exceeds 5 pCi/L, radium-226 must also be measured.									
GROSS BETA (pCi/L)			*						
*The MCL for gross beta is 4 mrem/year. If gross beta exceeds 50 pCi/L, analysis of the sample for Photon Activity shall be performed to identify the major radioactive constituents. Gross Beta testing is optional, unless specifically required by DEP.									
RADON (pCi/L)			**						
**Radon testing is optional, unless specifically required by DEP. The MA guideline for Radon is 10,000 pCi/L. The EPA has proposed a radon MCL of 300 – 4000 pCi/L.									

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: \_\_\_\_\_

Date: 8/6/15

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____		



## Radionuclide Report

## I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:  City / Town: Biomarine, MA

PWS Name: Biomarine - DW - DEP PWS Class: COM  NTNC  TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information		Date Collected	Collected By
59886B		*Please note all samples are considered representative of finished water if there is no treatment applied		7/1/2015	Client
		<input type="checkbox"/> (M)ultiple	<input type="checkbox"/> (R)aw		
		<input checked="" type="checkbox"/> (S)ingle	<input checked="" type="checkbox"/> (F)inished		
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted, list below			
		(1) Reason for Resubmission		(2) Collection Date of Original Sample	
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			

SAMPLE NOTES - (Such as, if a Manifold/Multiple sample, list the sources that were on-line during sample collection).

## II. ANALYTICAL LABORATORY INFORMATION

Primary Lab MA Cert. #: M-CT008 Primary Lab Name: Microbac Laboratories, Inc. Subcontract? (Y/N) Y

Was this Sample Composited by the Lab?	COMPOSITE SAMPLE NOTES
<input type="checkbox"/>	List the composited source by DEP Source Code (XXXXX-XXX) and dates collected, up to four consecutive quarterly samples per single entry point.
LAB SAMPLE NOTES	

Contaminant	RESULT	Std Dev (+/-)	MCL	MDL	Lab Method	Date Analyzed	Lab Sample ID#	Analysis Lab MA Cert#	Analysis Lab Name
GROSS ALPHA (pCi/L)	ND	+/-6.07		3.00	900.0	07/17/2015	E507274-2	M-OPH923	SET Lab
URANIUM - activity (pCi/L)									
Report Uranium result and MDL in (pCi/L) as analyzed, otherwise use formula to calculate [Uranium µg/L X 0.67 = Uranium pCi/L]. Check this box if result calculated <input type="checkbox"/>									
ADJUSTED GROSS ALPHA (pCi/L)									
The MCL for Adjusted Gross Alpha (Gross Alpha minus Uranium) is 15 pCi/L. A gross alpha measurement may be submitted for the uranium analysis, if the gross alpha result is equal to or less than 15 pCi/L. If gross alpha exceeds 15 pCi/L, uranium must also be measured.									
URANIUM - mass (µg/L)									
Report Uranium result and MDL in (µg/L) as analyzed, otherwise use formula to calculate [Uranium pCi/L / 0.67 = Uranium µg/L]. Check this box if result calculated <input type="checkbox"/>									
RADIUM-226 (pCi/L)									
RADIUM-228 (pCi/L)									
COMBINED RADIUM (pCi/L)									
The MCL for Combined Radium (Radium-226 plus Radium-228) is 5 pCi/L. A gross alpha measurement may be submitted for the radium-226 analysis, if the gross alpha result is equal to or less than 5 pCi/L. If gross alpha exceeds 5 pCi/L, radium-226 must also be measured.									
GROSS BETA (pCi/L)									
*The MCL for gross beta is 4 mrem/year. If gross beta exceeds 50 pCi/L, analysis of the sample for Photon Activity shall be performed to identify the major radioactive constituents. Gross Beta testing is optional, unless specifically required by DEP.									
RADON (pCi/L)									
**Radon testing is option, unless specifically required by DEP. The MA guideline for Radon is 10,000 pCi/L. The EPA has proposed a radon MCL of 300 - 400 pCi/L.									

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge

Primary Lab Director Signature: 

Date: 7/28/2015

If not submitting results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted <input type="checkbox"/> Disapproved		