



# Radionuclide Photon Activity Report

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

PWS ID #:  City / Town:

PWS Name:  PWS Class: COM  NTNC  TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information		Date Collected	Collected By
		<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished		
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:			
<input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	(1) Reason for Resubmission	(2) Collection Date of Original Sample		
		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			
<b>SAMPLE NOTES</b> – (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. #:  Primary Lab Name:  Subcontracted? (Y/N)

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

Contaminant	RESULT	Std Dev (+/-)	MCL	MDL	Lab Method	Date Analyzed	Lab Sample ID#	Analysis Lab MA Cert#	Analysis Lab Name
GROSS BETA (pCi/L)			*						
POTASSIUM (mg/l)		-----							
POTASSIUM-40 (pCi/L)		-----			The potassium-40 beta particle activity must be calculated by multiplying elemental potassium concentrations (in mg/L) by a factor of 0.82.				
ADJUSTED GROSS BETA (pCi/L)		-----	50		Exceedance of <i>Adjusted Gross Beta</i> (Gross Beta minus Potassium-40) above the 50 pCi/L (screening level) requires additional analysis to identify the major constituents (photon activity) present in the sample. Appropriate doses must be calculated and summed to determine compliance. Doses must also be calculated and combined for measured levels of tritium and strontium to determine compliance.				
Photon Activity	X		Conversion pCi/4mrem Y	Calculate annual total dose equivalent (mrem) = 4 (X / Y)					
STRONTIUM-90 (pCi/L)			8						
TRITIUM (pCi/L)			20,000						
IODINE-131 (pCi/L)			3						
CESIUM-134 (pCi/L)			20,000						
STRONTIUM-89 (pCi/L)			20						
(pCi/L)									
(pCi/L)									

\*The MCL for gross beta is 4 mrem/year. The sum of all photon activity radionuclides present, calculated as the annual total dose equivalent to the total body or to any organ, shall not exceed 4 mrem/year. Gross Beta testing is optional, unless specifically required by DEP.

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:

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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