GROSS ALPHA AND BETA ACTIVITIES IN A WATER SAMPLE BY LOW BACKGROUND ALPHA AND BETA COUNTING AP1, REVISION 13; CP3, REVISION 1 ER SQUIBB NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Concentrations (pCi/L)	
		Gross Alpha ^a	Gross Beta ^b
834W001	Building 124 Tank #1	-0.35 ± 0.75^{c}	51.1 ± 5.3

^aThe average MDC for gross alpha for a 100 minute count using a 0.25 L sample is 1.7 pCi/L.

 $^{^{\}mathrm{b}}$ The average MDC for gross beta for a 100 minute count using a 0.25 L sample is 2.2 pCi/L.

^cUncertainties represent the 95% confidence level, based on total propagated uncertainties.

CONCENTRATION OF TRITIUM IN A WATER SAMPLE BY LIQUID SCINTILLATION ANALYSIS AP2, REVISION 12; CP4, REVISION 1 ER SQUIBB NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample	NRC Region I	Concentration (pCi/L)	
ID	Sample ID	Tritium ^a	
834W001	Building 124 Tank #1	370 ± 220^{b}	

^aThe average MDC for tritium for a 60 minute count using a 0.01 L sample is 370pCi/L.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

CONCENTRATION OF CARBON -14 IN A WATER SAMPLE BY LIQUID SCINTILLATION ANALYSIS NON-ROUTINE AP9, REVISION 0; CP4, REVISION1 ER SQUIBB NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample	NRC Region I	Concentration (pCi/L)	
ID	Sample ID	Carbon-14 ^a	
834W001	Building 124 Tank #1	-5 ± 18^{b}	

^aThe average MDC for tritium for a 60 minute count using a 0.01 L sample is 30pCi/L.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

CONCENTRATIONS OF SELECTED GAMMA EMITTING RADIONUCLIDES IN A WATER SAMPLE BY GAMMA SPECTROSCOPY CP1, REVISION 11 ER SQUIBB NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Radionuclide Concentrations ^a (pCi/L)		
Sample 1D		Co-57	Cs-137	Co-60
834W001	Building 124 Tank #1	16.7 ± 2.7^{b}	10.4 ± 6.5	7.4 ± 3.5

^aTypical MDCs for the isotopes in this table ranged from 3 to 7 pCi/L.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.