Aiken Technical College

Radiation Protection Technology Program

Air Sample Data Sheet

(For Training Purposes Only—No Actual Hazards Exist)

Location:

Date:	**RP Technician (s):**

Sampler Information

Model:	**Serial Number:**
Media:	**Calibration Due Date:**

Sampling Information

1 cubic foot = 2.8316 E^5 cubic centimeters

Sampling Time		**Sample Flow Rate (CFM)**		**Sample Type:**
ON	**OFF**	**ON**	**OFF**	
				Total Volume (cc):

Counting Data

Model:	**Serial Number:**
Background (cpm):	**Calibration Due Date:**
Model:	**Serial Number:**
Background (cpm):	**Calibration Due Date:**

Type	Counter Efficiency cpm/dpm	Background Count Rate cpm	Quick Count net cpm	6 Hour Count Rate net cpm	24 Hour Count Rate net cpm
Alpha	**0.4**				
Beta	**0.1**				

$$Activity\ \frac{\mu Ci}{cc} = \frac{cpm}{eff\left(\frac{cpm}{dpm}\right) * volume(cc) * 0.99 * 2.22E^{6}\left(\frac{dpm}{\mu Ci}\right)}$$

$$\alpha\ \frac{\mu Ci}{cc} = \_\_\_\_\_ \qquad \beta\ \frac{\mu Ci}{cc} = \_\_\_\_\_$$