



**alphaNUCLEAR**

2100 Dudley Street  
Saskatoon, SK S7M 5W3 Canada



*A member of the Cameco group of companies*

- alphaNUCLEAR was purchased by Cameco in 2001
- aN currently manufactures radon monitoring equipment sold worldwide
- aN owns and operates a radon chamber used for calibration and testing of equipment
- aN maintains a wide variety of logging equipment, manufactures gamma probes for exploration and mining purposes, and develops ore grade scanners



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- 597-PX3 Radon Gas and Radon Progeny CWL Monitor – the “PRISM”
- Used in uranium mining and milling environments
- 4 channels or regions of interest
  - 1.8 – 6.5 MeV -> RaA
  - 6.5 – 8.2 MeV -> RaC'
  - 8.2 – 9.0 MeV -> ThC'
  - > 9.0 MeV -> High Energy





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- Algorithm description and analysis method
- 4 calculations
  - short and long WL
  - short and long Radon concentration (Bq/m<sup>3</sup>)





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## How is working in the field and how is it being used?

Light Thresholds				
	Yellow/Green	Yellow	Red/Yellow	Red
<input type="checkbox"/> Rn Short:	3000	10000	20000	60000
<input type="checkbox"/> Rn Long:	3000	10000	20000	60000
<input checked="" type="checkbox"/> WL Short:	0.24999	0.25	0.5	1.0
<input checked="" type="checkbox"/> WL Long:	0.11	99.97	99.98	99.99

## Future developments and considerations