

# TESTING FOR RADON IN WATER

## RADON

- WHAT IS RADON?
- HOW MUCH RADON IS SAFE?
- WHERE DOES IT COME FROM?
- WHY TEST SCHOOLS?
- HOW DO WE TEST FOR IT?
- WHAT HAVE WE FOUND SO FAR?
- WHAT ABOUT RADON IN DRINKING WATER?



# SCHOOL RESULTS

• TOTAL NUMBER OF SCHOOLS/PUBLIC BUILDINGS TESTED = 11

School/Building	# of rooms tested	# below 4.0 pCi/L	# between 4 and 10	# above 10.0 pCi/l
TOTAL	277	248	26	3

## HOW DO WE TEST FOR IT?

- SCINTILLATION CELLS
- IONIZATION CHAMBERS
- CHARCOAL DETECTORS
- ELECTRET ION CHAMBERS
- ETCHED TRACK DETECTORS
- SHOW EXAMPLE DETECTORS



# RADON IN DRINKING WATER

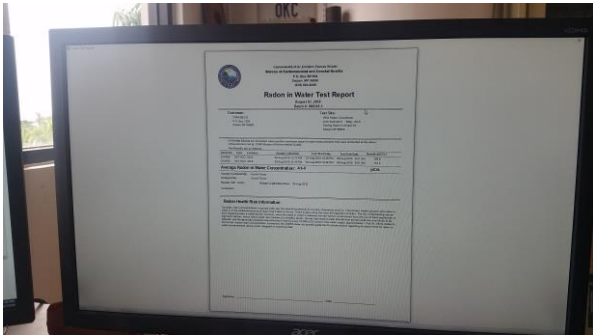
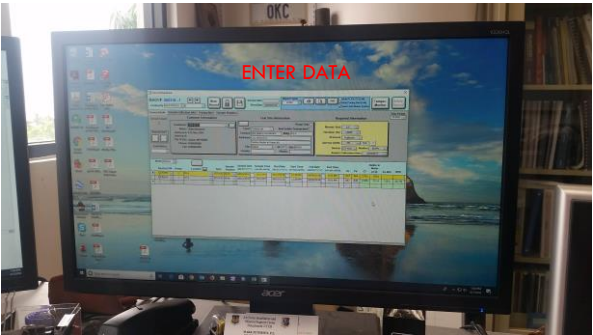
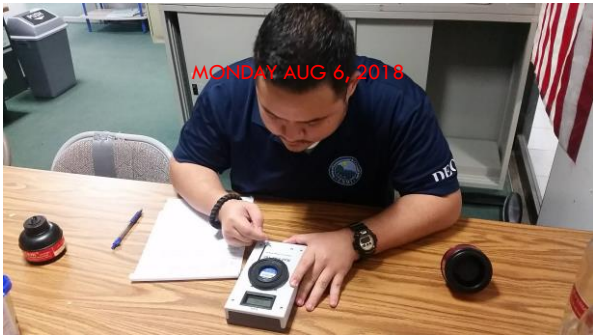
- NO PREVIOUS RADON IN DRINKING WATER TESTING IN THE CNMI
- WHY TEST?
  - PFOA / PFOS CONTAMINATION AT THE AIRPORT
  - TREATMENT – ACTIVATED CARBON FILTERS (ALSO FILTER RADON)
  - RADON IN FILTER MAKES FILTER A HAZARDOUS WASTE
  - DISPOSAL ISSUES AND \$\$\$


## RADON IN DRINKING WATER

- BECQ ORDERING RADON IN WATER TEST KITS
- IF PWS / CWS TESTS FOR RADON, THEN NEED TO REPORT RESULTS IN ANNUAL CCR









Department of the Environment and Natural Quality  
Bureau of Environmental and Natural Quality  
1000 N. 1st St., Suite 100  
Tucson, AZ 85724  
(520) 243-0000

### Radon in Water Test Report

Report No. 000010  
Batch # 000010

Customer:	Test Site:
CRW 00001	CRW Radon Collection
1000 N. 1st St., Suite 100	CRW Radon Collection
Tucson, AZ 85724	Tucson, AZ 85724

CRW Radon Collection

Batch No.	Batch Date	Test Date	Batch Size	Batch Type
000010	08-Aug-2018	08-Aug-2018	1000	CRW

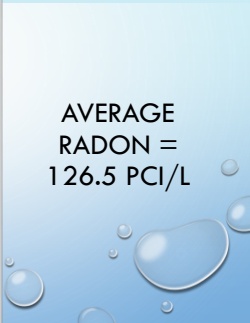
**Average Radon in Water Concentration: 126.5**

Report Collected By: Austin Farris  
Radon Tester: Austin Farris  
Batch Collection Date: 08-Aug-2018

Customer: CRW 00001

**Radon Health Risk Information**

Radon is a naturally occurring radioactive gas that is colorless, odorless, and tasteless. It is a known human carcinogen and is the second leading cause of lung cancer after smoking. Radon exposure is a significant health risk, and it is important to take steps to reduce radon exposure in your home. The radon concentration in your water is 126.5 pCi/L, which is above the recommended maximum of 300 pCi/L. To reduce radon exposure, you should consider installing a radon reduction system in your home.



**AVERAGE  
RADON =  
126.5 pCi/L**

### RADON IN WATER RESULTS

- GENERAL RULE OF THUMB...FOR EVERY 10,000 PCI/L FOUND IN WATER SUPPLY ~ 1.0 PCI/L WILL BE "RELEASED" TO THE HOME'S INDOOR RADON CONCENTRATION.
- AT PRESENT, USEPA DOES NOT PROVIDE GUIDANCE FOR PRIVATE HOMES REGARDING ACTION LEVELS FOR RADON IN WATER
- NATIONAL ACADEMY OF SCIENCES RECOMMENDS AN ALTERNATIVE MCL (AMCL) BE SET -- 4,000 PCI/L WHICH WOULD RESULT IN AN INDOOR RADON CONCENTRATION INCREASE OF 0.4 PCI/L

END: TESTING FOR RADON IN WATER