

# WELCOME!

Please pick up a folder and sign-in!

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Community Advisory Council Meeting

21 September 2017

Radiological Education, Monitoring, and Outreach Project (REMOP)

Savannah River Ecology Lab (SREL)

University of Georgia (UGA)

## Introductions

## History, Structure, and Goals

- **History of WAND activities leading to CAB Recommendation 317 (Becky Rafter)**
- **CAB Recommendation 317 (Gene Rhodes)**
- **Structure of Project**
- **Goals of Project**

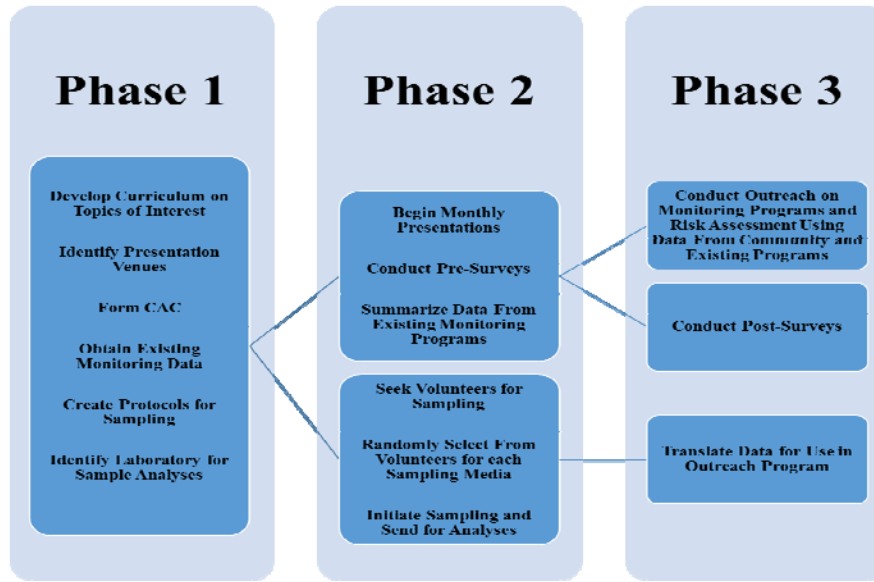


## History, Structure, and Goals

- **Citizens Advisory Board (CAB) Recommendation 317 (Gene Rhodes)**
  - **Technical Review made minor suggestions for monitoring programs**
  - **Technical Review found no support for resumption of Monitoring Program in GA**
  - **Technical Review DID suggest that better communication with public was needed**
    - **Recommendation was made to establish an education and outreach program using data from local community for educational and comparative purposes**
    - **REMOP is the outcome of this recommendation to the CAB**
    - **REMOP is an education and outreach program – NOT a monitoring program**



## History, Structure, and Goals



## History, Structure, and Goals

The general goal of this project will be to develop an outreach and education program that evaluates and responds to the concerns of the residents of these communities regarding the risks that radionuclide contamination in the environment may pose to their health and well-being.

## Expected Outcomes

**We expect to develop an understanding of the perceptions, understanding, and needs for information of the Shell Bluff, GA community regarding the contributors to, pathways for, and risks of radionuclide and metals contamination in the environment and; we expect to utilize this information to provide a targeted, data-informed outreach, engagement, and education program to residents to assist communities with evaluation and interpretation of risk factors associated with the potential for radionuclide and metals contamination within their communities. We also expect to utilize pre and post-study survey instruments to evaluate the effectiveness of outreach programs in addressing issues of risk perception within these communities.**

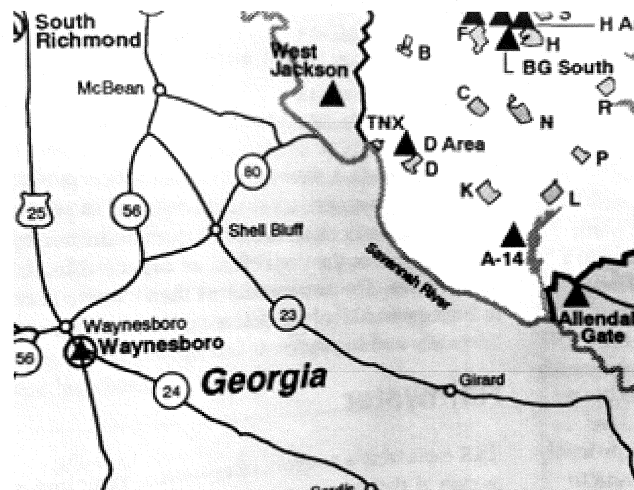


## Expected Outcomes

**We expect to design and deliver data-informed outreach, engagement, and education programs, focused on environmental sources, consequences, and risks, for community residents in Shell Bluff, GA, with an emphasis on radionuclide and metals data collected from Shell Bluff, GA. We expect that the design and delivery routes for this outreach program will be useful for implementation of outreach, engagement, and education programs in other communities with concerns about risks of radionuclide and metals contamination in the environment.**

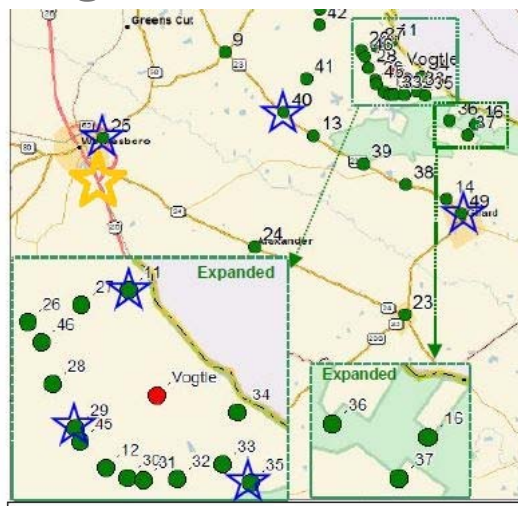


## Air monitoring station



 Savannah River  
Ecology Laboratory  
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## Roles & Responsibilities of CAC

- Project Sampling Feedback from CAC



## Roles & Responsibilities of CAC

- Content Review (1 hour/month)
  - Monthly content is created & reviewed the prior month (August created & review in July)
  - Point – make sure that the content is relevant, clear
  - Provide feedback on anything that is necessary



## Roles & Responsibilities of CAC

- Bi-monthly meetings (2 hours)
  - Next meeting in September (what days/times work best for you?)
- Meetings will include:
  - Received REMOP-related updates
  - Ask for feedback on REMOP activities (i.e. meeting times, content, sampling)
  - Help address issues arisen during programming



## Roles & Responsibilities of CAC

- CAC Structure
  - Structured, with leadership roles defined
  - Open forum setting
- Leadership development opportunity



## Questions?

- Email: [remop@srel.uga.edu](mailto:remop@srel.uga.edu)
- Phone: 803-725-2649
- Data collected as part of the Radiological Education, Monitoring, and Outreach Project (REMOP) conducted by the University of Georgia's Savannah River Ecology Laboratory are intended to be used for educational and outreach purposes only, and are not for environmental monitoring or any regulatory purposes.
- Data collected under REMOP will not meet the requirements of a legally authorized monitoring program. For example, data collected under REMOP will not be gathered in compliance with the geographic, statistical, or site selection procedures required of a legally authorized monitoring program conducted by or on behalf of any regulatory agencies.



## Sampling Tables: Radionuclides

| Sample Type          | Radionuclides   | Total |
|----------------------|---|-------|
| <b>Environmental</b> |   |       |
| Air (filter)         | β spectrometry, gross alpha/beta  | 24    |
| Air (filter)         | Sr-89/90, actinides, Tc-99  | 4     |
| Air (charcoal)       | β spectrometry, <sup>137</sup> I  | 4     |
| Air (silica gel)     | H-3   | 12    |
| Rainwater            | H-3   | 12    |
| Rain Ion Column      | β spectrometry, gross alpha/beta, Sr-89/90, actinides, Tc-99, I <sup>129</sup>                            | 12    |
| Groundwater          | H-3   | 20    |
| <b>Fresh Foods</b>   |   |       |
| Fruits               | H-3, β spectrometry, Am-241, Cu-244, Np-237, Tc-99, Pu-238/239, Sr-89/90, U-234/235/238                   | 10    |
| Vegetables           | H-3, β spectrometry, Am-241, Cu-244, Np-237, Tc-99, Pu-238/239, Sr-89/90, U-234/235/238                   | 10    |
| Meat                 | H-3, β spectrometry, Am-241, Cu-244, Np-237, Tc-99, Pu-238/239, Sr-89/90, U-234/235/238                   | 10    |
| Milk - Cow           | H-3, β spectrometry, Am-241, Cu-244, Np-237, Tc-99, Pu-238/239, Sr-89/90, U-234/235/238, <sup>137</sup> I | 10    |
| Milk - Goat          | H-3, β spectrometry, Am-241, Cu-244, Np-237, Tc-99, Pu-238/239, Sr-89/90, U-234/235/238, <sup>137</sup> I | 10    |





## Sampling Tables: Heavy Metals

| Sample Type   | Heavy Metals              | Total |
|---------------|---------------------------|-------|
| Environmental |                           |       |
| Soil          | Total Mercury, ~20 metals | 24    |
| Surface Water | Total Mercury, ~20 metals | 24    |
| Groundwater   | Total Mercury, ~20 metals | 24    |
| Fresh Foods   |                           |       |
| Fruits        | Total Mercury, ~20 metals | 24    |
| Vegetables    | Total Mercury, ~20 metals | 24    |
| Meat          | Total Mercury, ~20 metals | 24    |
| Milk -Cow     | Total Mercury, ~20 metals | 24    |
| Milk -Goat    | Total Mercury, ~20 metals | 24    |

silver (Ag), aluminum (Al), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), cobalt (Co), chromium (Cr), copper (Cu), iron (Fe), magnesium (Mg), manganese (Mn), nickel (Ni), lead (Pb), selenium (Se), thorium (Th), thallium (Tl), uranium (U), vanadium (V), zinc (Zn)