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Virtual Public Hearing for Savannah River Site Draft Hazardous and Mixed Waste Permit

- ✓ To avoid echoing or feedback, all lines are muted.
- ✓ At the end of the presentation, we will unmute and call upon those who would like to speak.
- ✓ This virtual hearing will be recorded and posted on our webpage.

Option to Call In

If you are experiencing audio problems, join the virtual hearing by phone:

Phone number: **1 (864) 558-7311**

Access Code: **339 231 551#**



Exits the hearing. (If you accidentally exit the hearing, you can rejoin.)

Agenda

- Instructions for Participating Remotely
- Introductions and Opening Remarks
- DHEC Presentation
- Public Comments
- Closing Remarks
- Hearing Adjourned

General Information on DHEC's Role at SRS:

<https://www.scdhec.gov/SRS>



South Carolina Department of Health and Environmental Control

Virtual Public Hearing for Savannah River Site Draft Hazardous and Mixed Waste Permit

October 7, 2021

Keehna Frasier, RCRA Federal Facilities

Purpose of the Public Hearing

- Provide general information on the draft hazardous & mixed waste permit
- Provide interested persons the opportunity to make oral or written comments regarding the draft permit

General Information on DHEC's Role at SRS:

[**https://www.scdhec.gov/SRS**](https://www.scdhec.gov/SRS)

Topics

- Hazardous Waste Permit Process
- SRS Hazardous & Mixed Waste Permit
- Areas Addressed in SRS Draft Hazardous & Mixed Waste Permit
- Next Steps

RCRA – Resource Conservation and Recovery Act

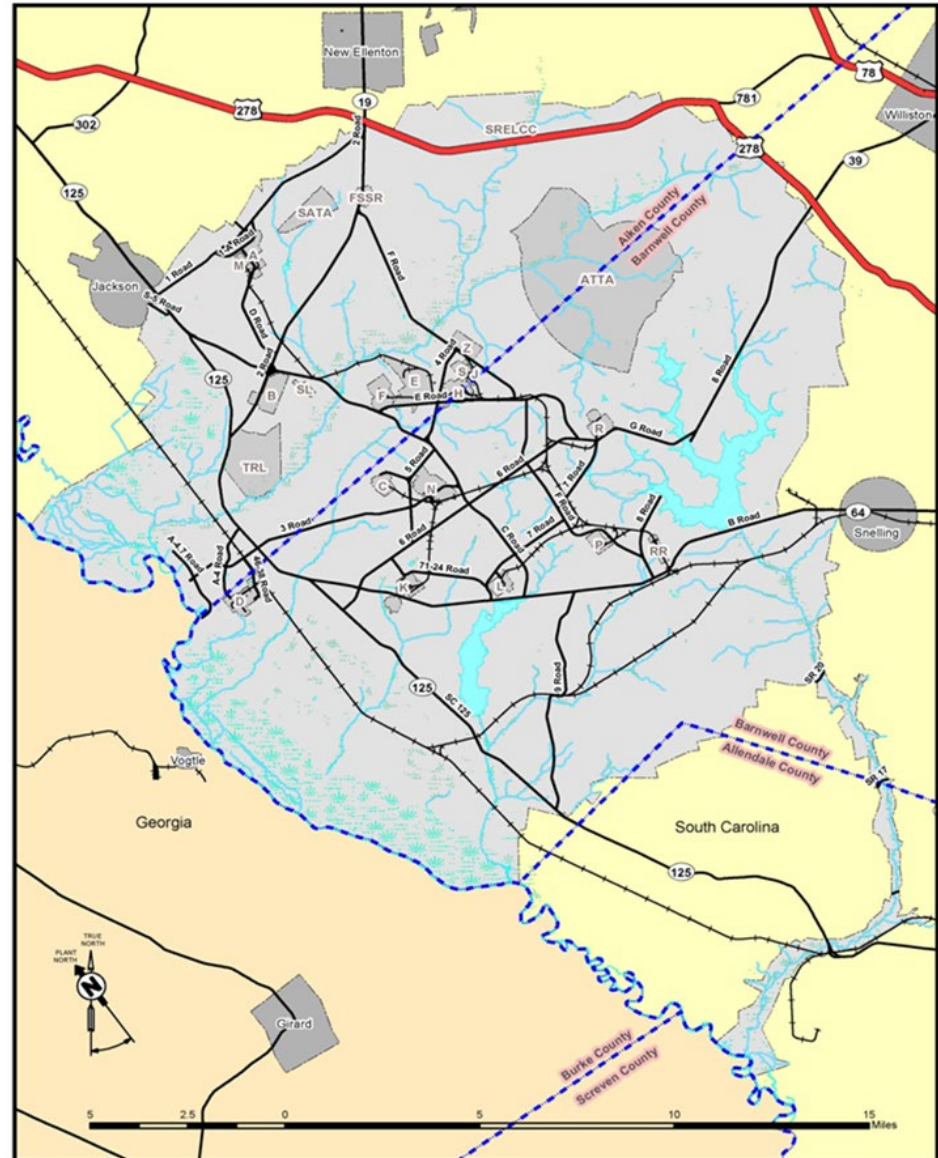
- Federal law that defines hazardous waste
- Establishes requirements for treatment, storage and disposal of hazardous and some mixed waste
- Mixed waste is hazardous waste that contains radioactive material
- Addresses investigation and corrective action for clean up
- DHEC authorized by US Environmental Protection Agency (EPA) to implement RCRA in SC

Hazardous Waste Permit Process

- Facility submits a permit application
- Once the application is complete and approved, a draft permit is written and opened for a 45-day public comment period
- Following the public comment period:
 - comments are reviewed
 - permit is finalized or denied
 - if approved, issued for up to 10 years
- Permit modified and/or renewed as necessary
- SRS permit initially issued in 1980s

Savannah River Site (SRS)

- Owned by the US Department of Energy (DOE)
- Approximately 310 sq miles
- Produced nuclear materials for national defense
- Current mission includes environmental cleanup, storage and disposal of materials
- Composed of a number of facilities on the site



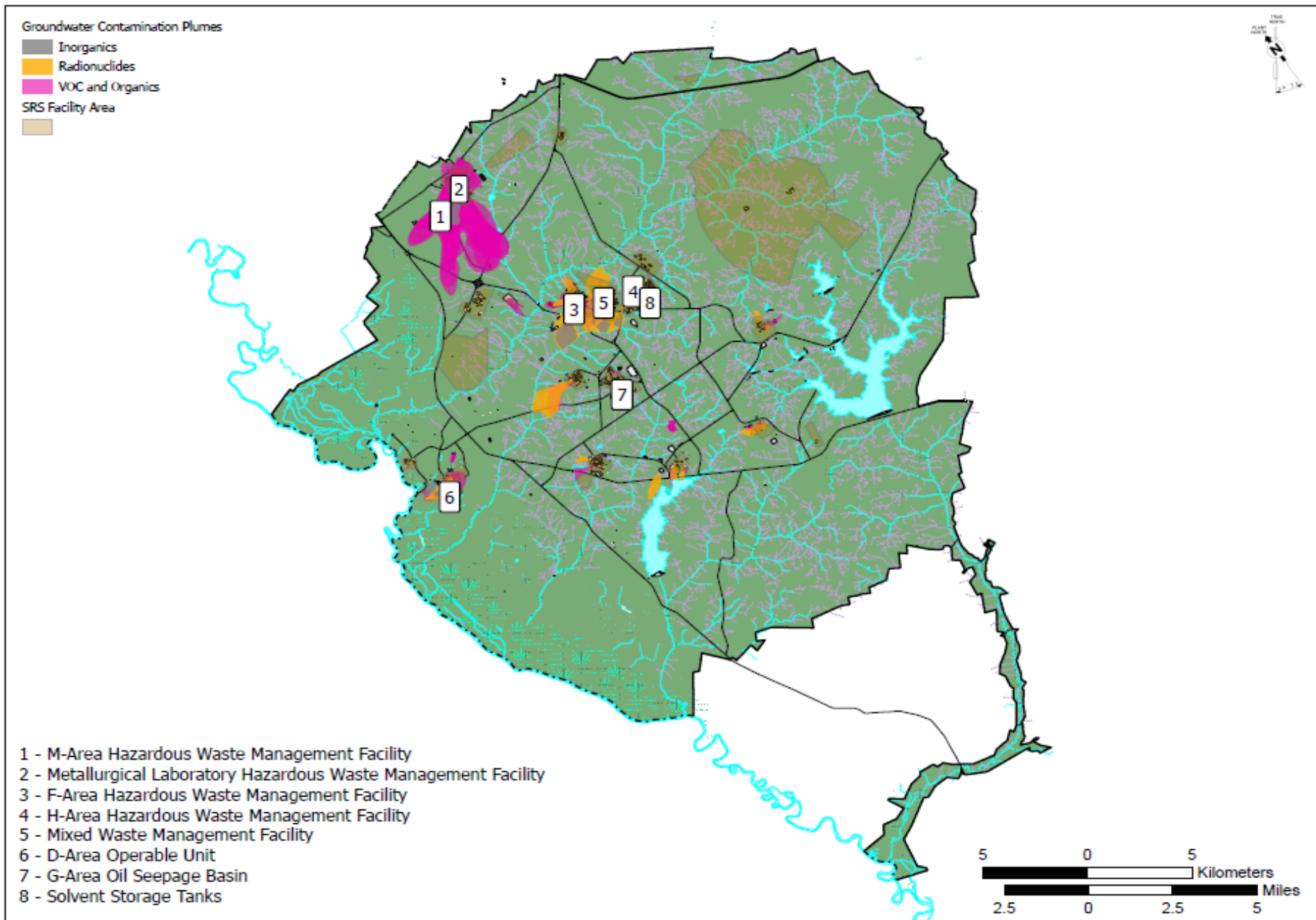
SRS Hazardous & Mixed Waste Permit

- SRS permit consists of 13 modules that address different activity and facilities on the site
- Four Modules Addressed in this Draft Permit
- Module III - Postclosure Care: IIIA, IIIB, IIIC, IIID & IIIG
- Module IV – Groundwater Requirements: IVA, IVB, IVC, IVD
- Module VII - Solvent Storage Tanks S33-S36 Facility
- Module VIII - Appendix A - Remedy Selection for Solid Waste Management Units and Areas of Concern

Draft SRS Hazardous & Mixed Waste Permit

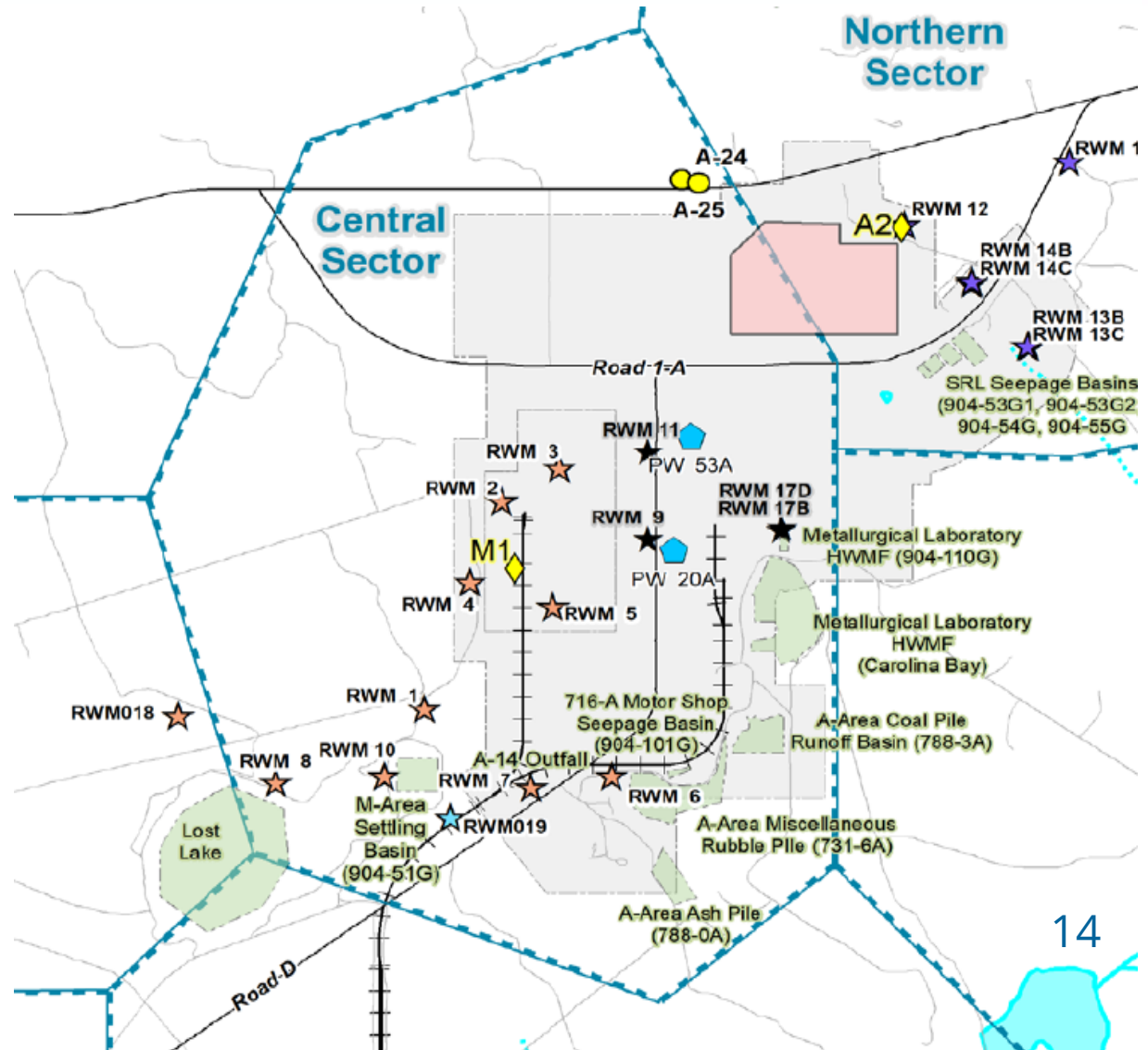
- Draft permit addresses the following renewals:
 - M-Area & Metallurgical Laboratory Hazardous Waste Management Facilities (M-Area & Met Lab HWMFs)
 - F-Area Hazardous Waste Management Facility (F-Area HWMF)
 - H-Area Hazardous Waste Management Facility (H-Area HWMF)
- Draft Permit includes closure of the Solvent Storage Tanks Facility (SST)
- Minor changes for the Mixed Waste Management Facility (MWMF)
- Document remedy selections previously on public notice

Areas Addressed In The Draft Permit



M-Area & Met Lab HWMFs

- M-Area : 7.9 M gallon unlined basin, abandoned sewer line, overflow area & Carolina Bay (Lost Lake)
- 1958 – 1985 received liquid waste from M-Area fuel fabrication. Closed in 1991.
- Met Lab: 145 K gallon unlined basin, abandoned sewer line, overflow to Carolina Bay
- 1956 – 1985 received liquid waste from what is now the SRNL. Closed in 1992.



M-Area & Met Lab HWMF

- Both facilities closed and moved to Postclosure Care – Module IIIA
- M-Area discharged about 3.5 M pounds of volatile organic solvent
- Corrective Action: Groundwater Requirements Module IVA
- Phased Approach
- Sampling & monitoring program
- Ongoing until cleanup requirements met

M-Area & Met Lab Corrective Action

Active Groundwater Treatment:

- M-1 Air Stripper
- Recirculation Wells

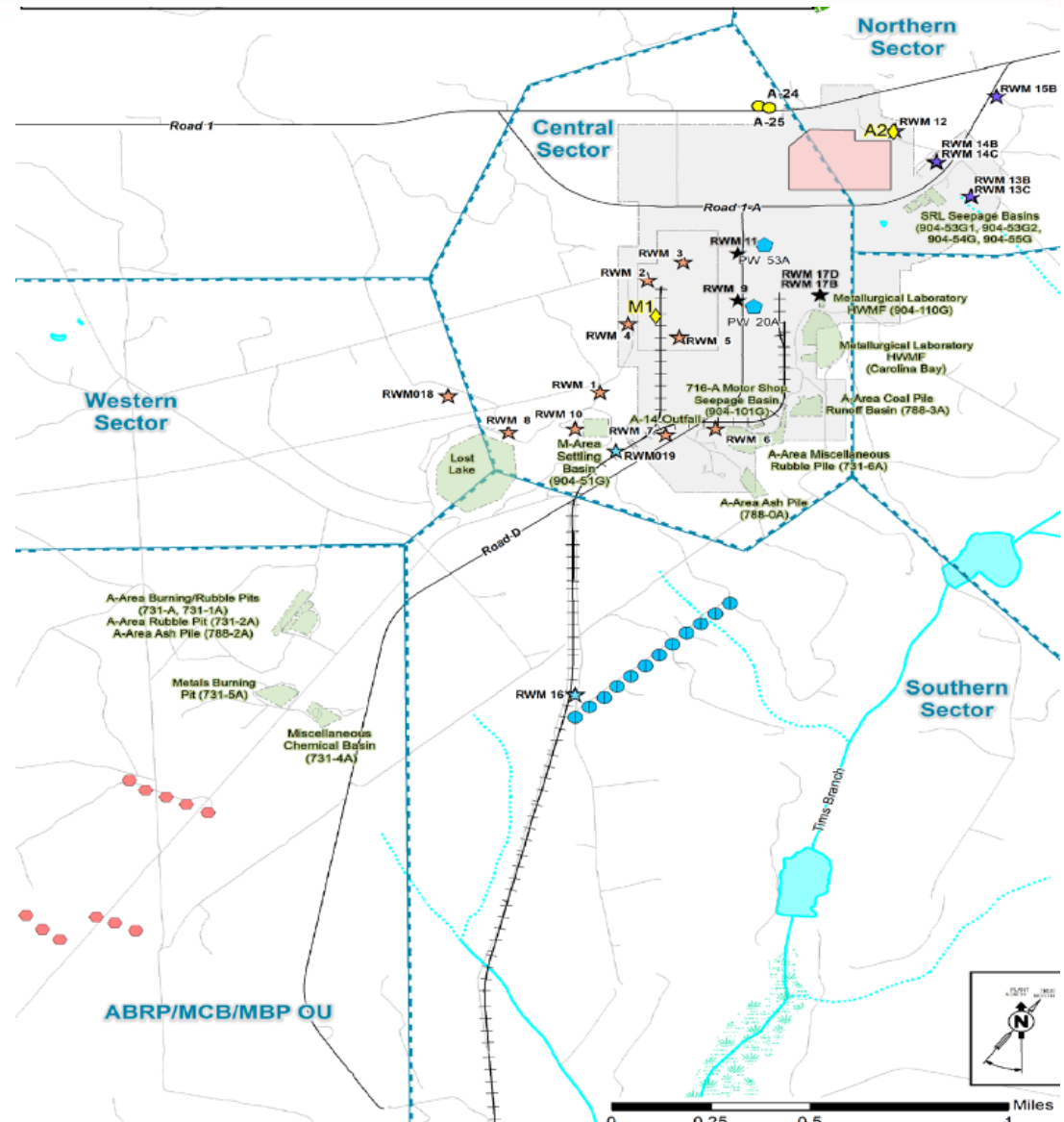
Low Energy/Passive Treatment

- Vapor extraction for lower concentrations
- End stage of former active steaming operation at MASB

In-situ Projects

- Inject materials to destroy or degrade contamination in the plume
- Exploring options

Investigation & Evaluation for next Phases

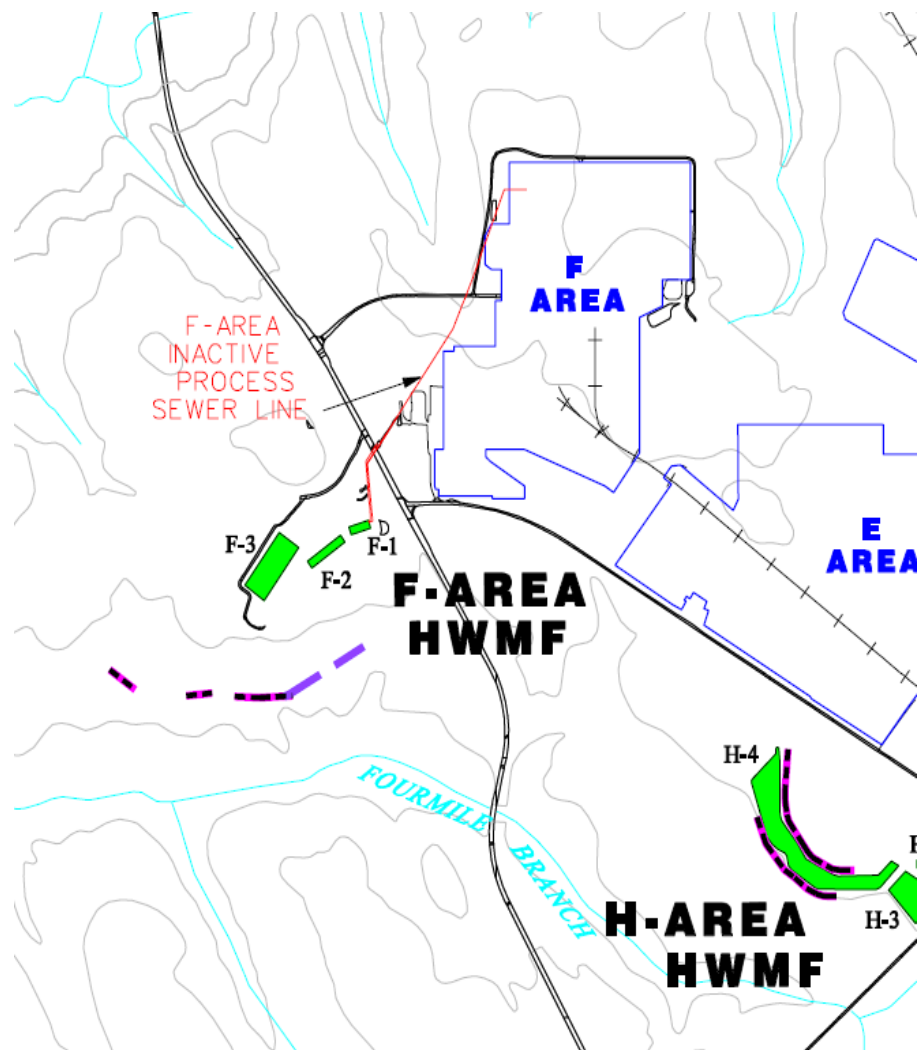


F-Area HWMF

- 3 Surface impoundments and inactive sewer line
- 1955-1988 treated wastewater with low-levels of radioactivity, some metals & organics
- Closed in 1991 and moved to Postclosure Care - Module IIIB

Corrective Action: Groundwater Requirements Module IVB

- Phased Approach
- Sampling & monitoring program
- Current actions:
 - Barrier walls with base injection
 - Silver chloride injection for I-129
- Evaluation for next Phase

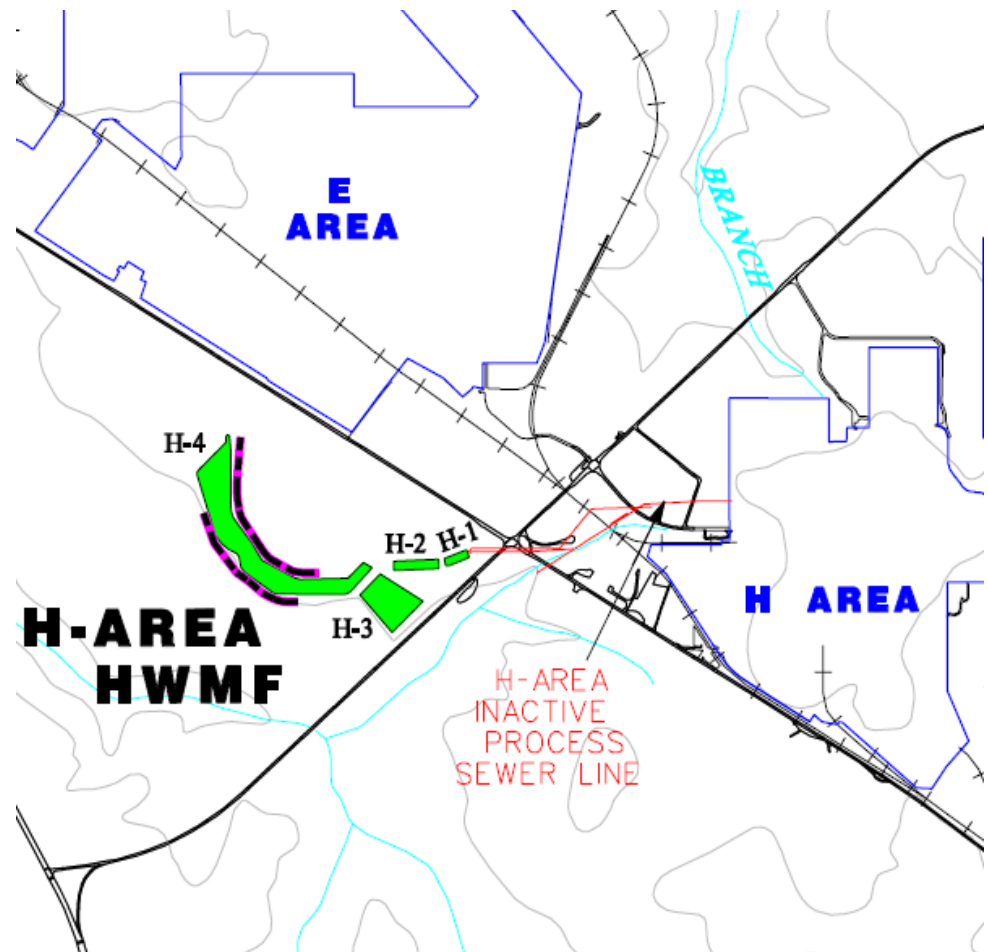


H-Area HWMF

- 3 Surface impoundments and inactive sewer line
- 1955-1988 treated wastewater with low-levels of radioactivity, some metals & organics
- Closed in 1991 and moved to Postclosure Care - Module IIIB

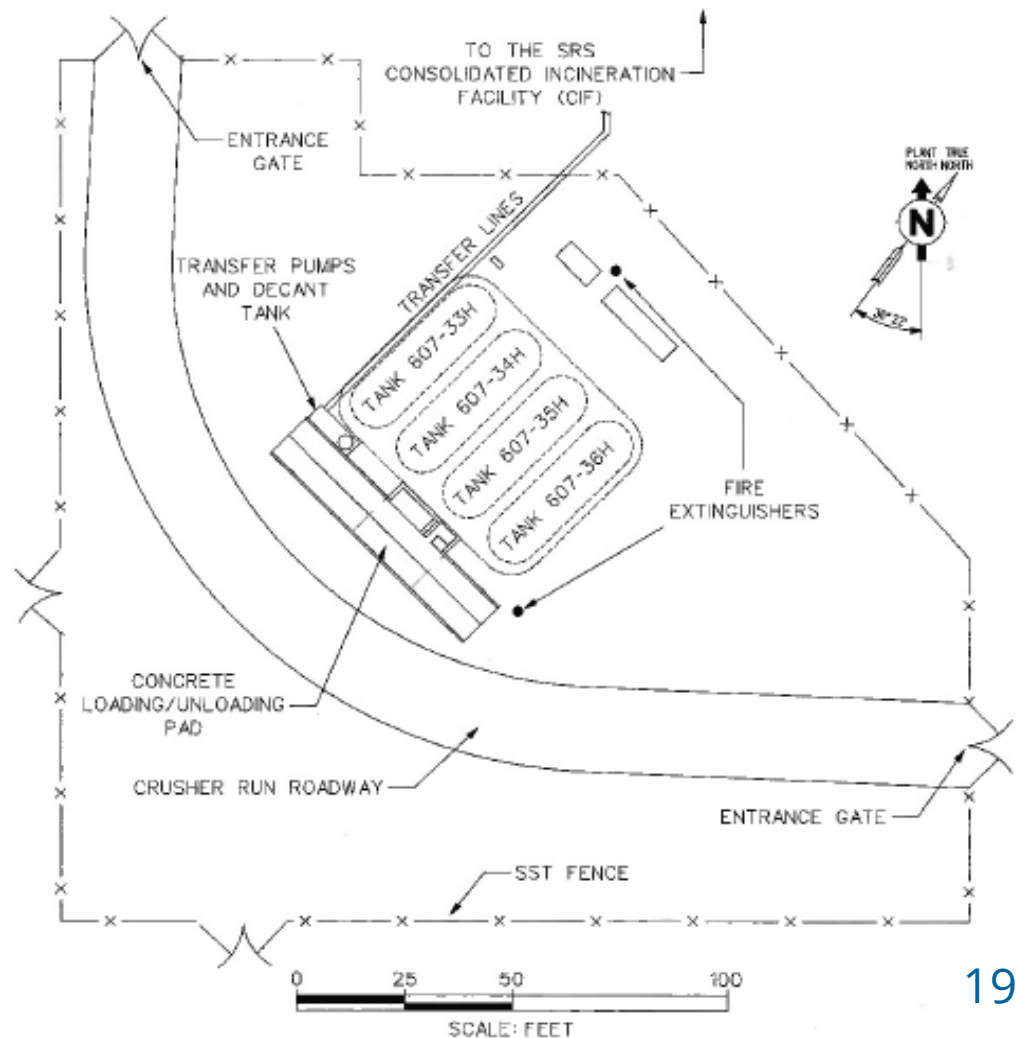
Corrective Action: Groundwater Requirements Module IVC

- Phased Approach
- Sampling & monitoring program
- Current actions:
 - Barrier walls with base injection
- Evaluation for next Phase



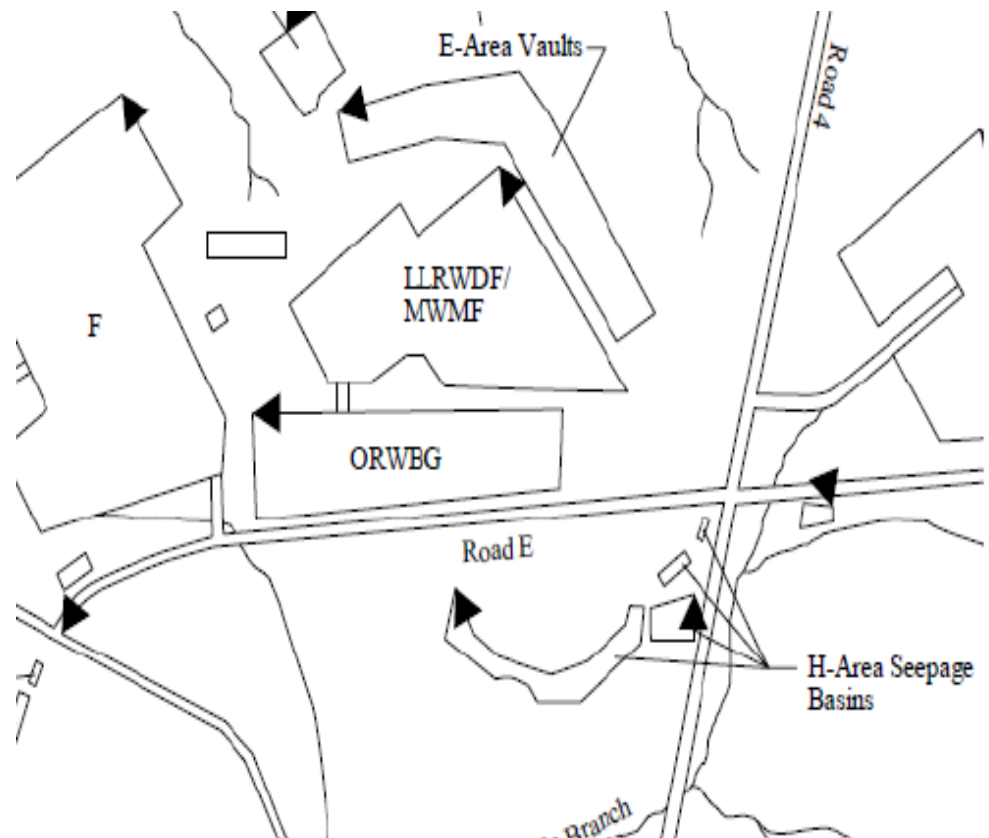
Solvent Storage Tank S33 - S36 Facility

- 4 Underground storage tanks
- Stored mixed-waste solvent and non-hazardous radioactive waste solvent
- Closed October 2019
- Postclosure care: Permit requires plan and monitoring



Mixed Waste Management Facility (MWMF)

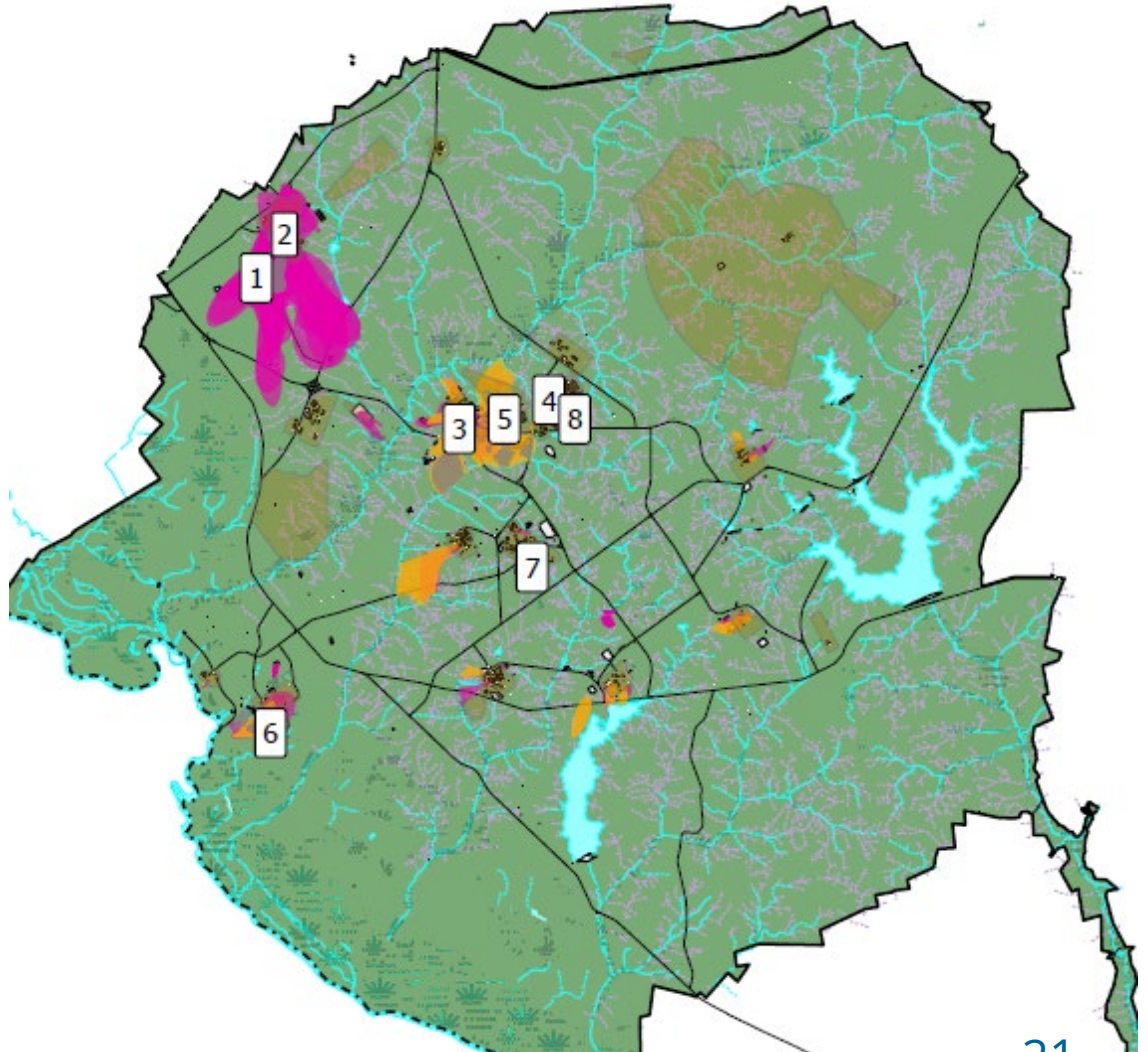
- Landfill units used to dispose of mixed waste and some low-level radioactive waste
- Extend postclosure care to 2051
- Annual report date due August 31



Appendix VIII-A

Module VIII – Solid Waste Management Units and Areas of Concern

- Areas that require investigation
- Managed by Federal Facility Agreement to include RCRA & Superfund
- Permit documents remedies previously selected under FFA Program
 - Number 6 – D-Area Operable Unit
 - Number 7 - G-Area Oil Seepage Basin Operable Unit



Next Steps

- Public comment period ends October 22, 2021
- Send comments to Stacey French
FRENCHSL@dhec.sc.gov
or DHEC – Bureau of Land & Waste Management (BLWM)
2600 Bull Street Columbia, SC 29201
- Final Decision
- Notify hearing attendees and commenters
- DHEC website will be updated

Comments

To indicate you would like to speak:

- Unmute your line
- Click the 'Hand Raise' icon



Hand Raise
(click this icon to
indicate you would
like to speak)



Muted
(no one in the meeting
can hear you)



Unmuted
(everyone in the
meeting can hear you)



If you have called into
the meeting, press *6
to unmute

How to Comment

Submit comments by email or mail through

October 22, 2021 to:

Stacey French

FRENCHSL@dhec.sc.gov or

DHEC – BLWM
2600 Bull Street
Columbia, SC 29201

For More Information

Keehna Frasier
Hazardous Waste Project Manager
FRASIEKB@dhec.sc.gov
803-898-0252

Information on DHEC's Involvement with SRS:

<https://www.scdhec.gov/SRS>