



Former Western Electric/ Tarheel Army Missile Plant

U.S. Army Environmental Command (USAEC)
USAEC Southeast Division - Team Lead
Nathan Edwards

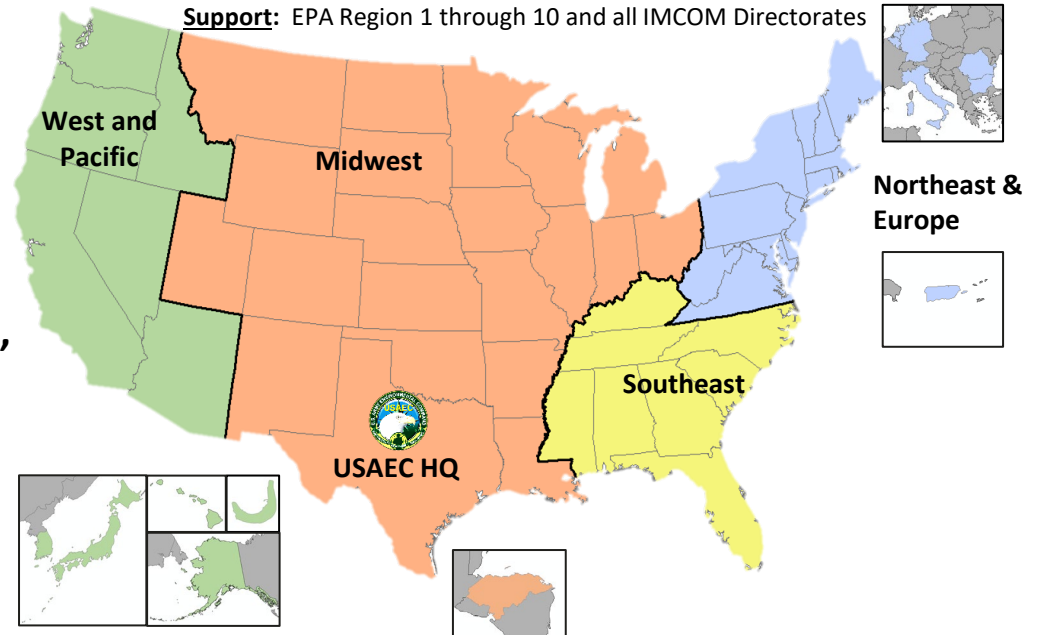


Enabling Readiness

Our Core Competencies

- ☐ Compliance
- ☐ Conservation
- ☐ Cleanup

- ☐ **Southeast Division**
 - ☐ Region 4 EPA
 - ☐ North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee and Alabama
- ☐ **Army Lead, Restoration (Clean Up)**
- ☐ **Partners**
 - ☐ US Army Corps of Engineers
 - ☐ Defense Health Agency - Public Health - Army
 - ☐ EPA
 - ☐ State Regulatory Agencies
 - ☐ USGS, FWS, USDA



Western Electric/TAMP POC

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- **1927** - established as rayon fabric manufacturing plant
- **1942 to 1944** - manufacture and testing of training aircraft for the U.S. Army Air Force.
- **1946 to 1958** - Western Electric Company leased to manufacture electronic equipment
- **1951** - assembly of the U.S. Army's Nike missile guidance systems
- **1962** - AT&T leased for production and maintenance of defense-related electronic systems
 - Industrial Operations, Plating, Cleaning Electrical Components
- **1999** - Lucent Technologies (offshoot of AT&T) took over operations at the facility
- **2004 (Nov. 29)** - Property Sold through General Service Administration
 - Hopedale Investments 2004-2013
 - Freedom Fuels (Saucier INC) 2013-2017 **Damage to remediation system**
 - Central Park Burlington LLC





- **2003 Finding of Suitability for Early Transfer (FOSET)**
 - Signed by Key Stakeholders (State, Army, County, City)
 - Based on Site Wide Investigation and Monitoring Data
 - Key Provisions
 - Army Maintain Groundwater Monitoring off property
 - Land Use Restrictions (fencing)
 - Guaranteed Access for Lucent Technology
 - Commercial/Industrial Use
- **2004-2013 Lucent Technology operates air stripper and soil vapor extraction system**
 - Potentially Responsible Party
 - UST Closures Throughout Site
 - Chlorinated Solvent Plume NW area of the site (TCE)
 - Soil Vapor Extraction and a Pump and Treat
- **2014 Power/Access Issues**
 - Indicates Off-base Migration of Plume/ Unknown tributary USACE Sampling
 - Plume Migration



ARMY/ DEPARTMENT OF DEFENSE (DoD)	PROPERTY OWNER	NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NC DEQ)	CITY OF BURLINGTON	COMMUNITY
<p>Clean-up of underground contaminates and pollutants</p> <p>Prevent off site contamination</p> <p>Contract with consultants and contractors to perform the work on site</p> <p>Establish a restoration advisory board (RAB) consisting of members of the community and local government</p> <p>Approve owner's work plans for site improvements and occupancy of the property</p>	<p>Maintenance & safety of above ground structures on site</p> <p>Lead paint & asbestos abatement</p> <p>Providing site access to US Army Environmental command, North Carolina Department of Environmental Quality, and their assigns performing site cleanup work</p> <p>Redevelopment of the property with Army and NCDEQ approval</p>	<p>Regulatory agency overseeing the environmental remediation</p> <p>Review and accept DoD's work plans and test results as well as determine if additional testing is needed</p> <p>Approve owner's work plans for site improvements and occupancy of the property</p>	<p>Advocate for clean-up and redevelopment by responsible parties</p> <p>Advocate this be consistent with the city's comprehensive plan that includes residential and commercial uses</p> <p>Work with owner to keep site secure</p>	<p>Advocate for clean-up and wellbeing of the community</p> <p>Advocate for productive and cohesive usage for the redevelopment of the property</p> <p>Participate and attend meeting held by the DoD/Army</p> <p>Contact federally elected officials:</p> <ul style="list-style-type: none"> • Governor Roy Cooper • Senator Thom Tillis • Senator Ted Budd • Congressperson Valerie Foushee • Congressperson Kathy Manning

- **2016-2019 Awarded Remedial Investigation Contract (Arcadis) \$500K**
 - Determine the nature and extent of TCE Plume
 - Address vapor intrusion concerns to residential properties
 - Investigate Off-site chlorinated solvent impacts to groundwater and surface water
- **2019-2023 Awarded Remedial Investigation Contract (Northwind) \$450K**
 - Answer data gaps from previous investigation
 - Complete additional vapor intrusion confirmation sampling
 - Develop Site conceptual model
 - Identify Potential Receptors
 - Provide design basis for future remedial strategies
- **August 2023 Awarded Contract (Northwind) \$1.3M**
 - Feasibility Study
 - Remedial Design
 - Decision Document (Public Comment Period)



- **Feasibility Study (FS)**

- Uses the data from the Remedial Investigation (RI) to develop, screen, and evaluate remedial action alternatives for a site.

- **Proposed Plan**

- Summarizes the results of the RI/FS. It presents the preferred cleanup alternative for a site to the public for review and comment

- **Record of Decision (ROD)**

- Documents the cleanup selection process and selected remedy after consideration of public comments as well as applicable and appropriate regulations and standards



CERCLA

Comprehensive Environmental Response, Compensation, and Liability Act

NCDEQ's 7 Step Clean-up Process being completed by Army

Completed
May 2023

Began
Summer 2023

February 2024 - **Interim Remedial Action**

Not a typical step in CERCLA only being done at Western Electric property.
Removal of known contaminants from site and treat groundwater using a reactive barrier.

1

Preliminary
Assessment/
Site
Inspection

2

Remedial
Investigation/
Feasibility
Study

3

Proposed
Plan

4

Records of
Decision

5

Remedial
Design

6

Remedial
Action

7

Long-Term
Maintenance
and Site Reuse

Communication Issues



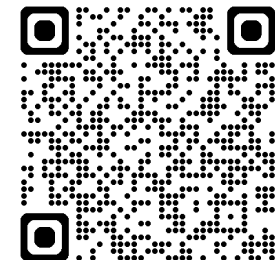
Environmental Justice Action Forum
November 30, 2023



Community
Open House
June 27, 2024

<https://burlingtonnc.gov/WesternElectric>

<https://aec.army.mil/tamp>









Scope Element	Anticipated Completion Timeline
Source Area Excavation	February 2024
Monitoring Well Installation & Injection	March-April 2024
Quarterly Groundwater Monitoring (4 events)	June 2024 December 2024 May 2025 November 2025
Semi-Annual Groundwater & Surface Water Monitoring (4 events)	February 2024 August 2024 February 2025 August 2025
Soil Gas Assessment	November 2024
Feasibility Study	April-May 2025
Proposed Plan	May-June 2025
Proposed Plan Public Review/Comment Period	August-September 2025
Record of Decision	November-December 2025



October 3, 2024

***Department of Environmental Quality's Role
in Department of Defense Cleanup Program and
Restoration Advisory Board***



NCDEQ – Who we are



Mission Statement:

**Providing science-based
environmental stewardship for
the health and prosperity of ALL
North Carolinians**

The North Carolina Department of Environmental Quality (DEQ) is the lead stewardship agency for the protection of North Carolina's environmental resources.

Department of Environmental Quality



NCDEQ – We have an agreement with DoD

A Defense and State Memorandum of Agreement (DSMOA) is the overarching agreement between DoD and a State that provides a framework to establish partnerships at DoD installations.

DSMOA program(s) to reimburse States and Territories for expedited eligible regulatory services, such as...

- ✓ technical review of documents
- ✓ site visits
- ✓ public participation support
- ✓ Restoration Advisory Boards
- ✓ identification and explanation of applicable, relevant and appropriate requirements
- ✓ ...and quality assurance/quality control sampling and analysis, which support the DOD in the execution of the Defense Environmental Restoration Programs (DERP) and Base Realignment and Closure (BRAC) programs.

The goal of the DSMOA Program is to expedite environmental restoration at Department of Defense (DoD) installations through partnerships with States and Territories.

Department of Environmental Quality



NCDEQ – Our RAB Responsibilities

The state regulatory RAB member, where applicable, is responsible for:

- Attending RAB meetings and providing input in an open, honest, and constructive manner;
- Serving as an information, referral, and resource bank for communities, installations, and agencies;
- Reviewing documents and other materials related to remediation and restoration;
- Ensuring that state environmental standards and regulations are identified and addressed by the DoD installation (state regulatory member);
- Facilitating flexible and innovative resolutions of environmental issues and concerns where applicable and possible; and
- Assisting in education and training for the RAB members.

Department of Environmental Quality

Source: USEPA and DoD Restoration Advisory Board (RAB) Implementation Guidelines



NCDEQ – How to Contact DEQ



NCDEQ Project Manager for Western Electric/Tarheel Army Missile Plant:

Sue Murphy

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Contact **me!**



The 'Up-Button' (Sue's Supervisor)

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Department of Environmental Quality



TAMP RAB Development ~ Tentative Schedule ~

Milestone	Completion Date
Establish Selection Panel and Criteria	October 10, 2024
<u>Selection Panel:</u> Review RAB Community Interest Forms	October 10-24, 2024
<u>Selection Panel:</u> Notification of RAB Members via Letter	October 31, 2024
<u>RAB Members:</u> Receive Information	November 14, 2024
<u>RAB Meeting:</u> (Training, Roles/Responsibilities, Mission Statement, Operating Procedures)	December 5, 2024



Open Discussion/Q&A

