



Emergency Management
NC DEPARTMENT OF PUBLIC SAFETY

NORTH CAROLINA HAZARDOUS MATERIALS



North Carolina Emergency Management





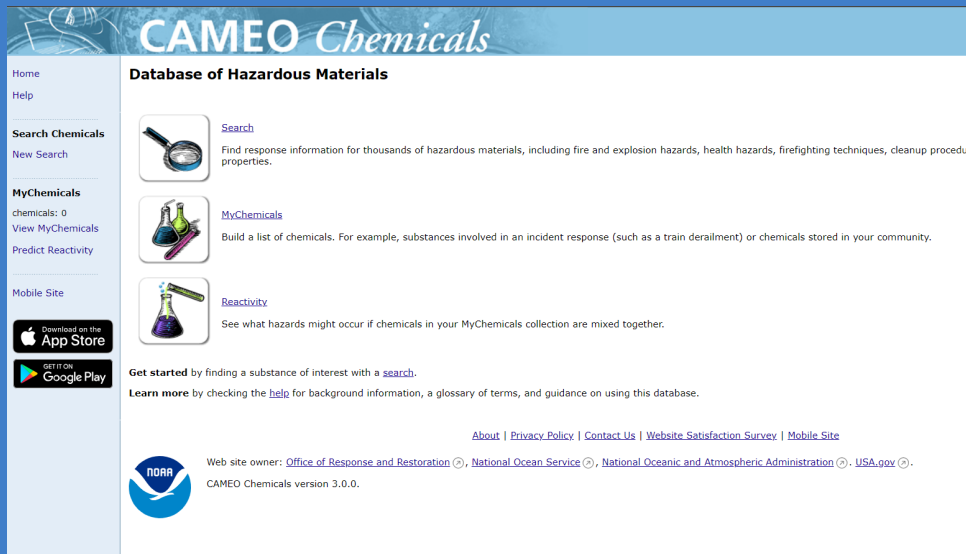
E Stefan Coutoulakis

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EPCRA
- Stefan.coutoulakis@ncdps.gov
- 984-328-0923





Cameochemicals.noaa.gov



CAMEO Chemicals

Home
Help

Search Chemicals
New Search

MyChemicals
chemicals: 0
View MyChemicals
Predict Reactivity

Mobile Site

Download on the App Store
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Database of Hazardous Materials

Search
Find response information for thousands of hazardous materials, including fire and explosion hazards, health hazards, firefighting techniques, cleanup procedure properties.


MyChemicals
Build a list of chemicals. For example, substances involved in an incident response (such as a train derailment) or chemicals stored in your community.

Reactivity
See what hazards might occur if chemicals in your MyChemicals collection are mixed together.

Get started by finding a substance of interest with a [search](#).
Learn more by checking the [help](#) for background information, a glossary of terms, and guidance on using this database.

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Web site owner: [Office of Response and Restoration](#), [National Ocean Service](#), [National Oceanic and Atmospheric Administration](#), [USA.gov](#).
CAMEO Chemicals version 3.0.0.



Safety Minute – Lithium-ion Batteries

- Fires increasing trend, particularly micro mobility devices: bikes, scooters
- Remove battery from device when not in use, do not charge overnight/unattended
- Store and charge away from flammables
- Store at manufacturer recommended temperatures (typically 35-90 deg F) and a dry environment
- Damaged batteries – do not use or charge, properly dispose at waste disposal/recycling facility





Lithium Ion – Preparing

Prior to flooding - Electric Vehicles

- Disconnect vehicle from charging device
- Cover charging station outlet
- Move vehicle 50 ft from flammable materials.

Post flooding

- Batteries exposed or damaged by water – do not charge or drive
 - Tow and have inspected by certified hybrid/EV dealer or mechanic
 - Call 9-1-1 odor, color or shape changes



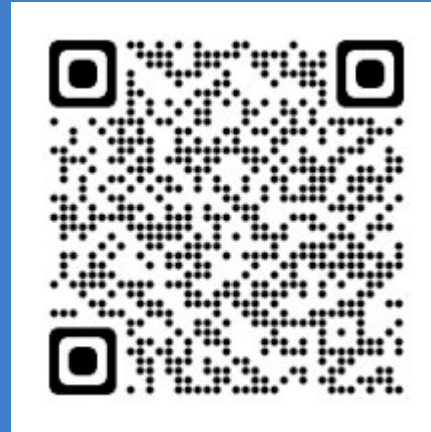


Lithium-ion Batteries Resources

<https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Lithium-Ion-Battery-Safety>



nyc.gov/fdny/batteries



PHMSA Lithium Battery
Safety – Transportation
<https://www.phmsa.dot.gov/lithiumbatteries>



Requested updates for Tier2 Submit “State Fields”

Annual opportunity to improve North Carolina EPCRA 311/312 reporting requirements





If you have these inventories & Amounts...

- Ammonia 500 lbs
- Chlorine 100 Lbs
- Sulfuric Acid 500 lbs
- Sulfur Dioxide 500 lbs
- Sodium Hypochlorite: 10000 lbs





EPCRA numbers you should be aware of:

- 301 Establishes SERC, LEPCs, TERCs: Emergency Planning
- 302 Extremely Hazardous Substances: TPQ 500 lbs or lower Emergency Planning
- 303 CERP: Emergency Planning <https://www.epa.gov/epcra/emergency-planning>
- 304 Release Notifications <https://www.epa.gov/epcra/emergency-release-notifications>
- DOL Hazardous Substances: 55 gallons/ 500lb RTK
- 311/312 Hazardous Substances: TPQ 10,000 lbs or higher
<https://www.epa.gov/epcra/hazardous-chemical-inventory-reporting>
- 313: Toxic Release Inventories <https://www.epa.gov/toxics-release-inventory-tri-program>
- 322 Trade Secrets <https://www.epa.gov/epcra/epcra-trade-secret-forms-and-instructions>
- 112(r): RMP: Flammable or Toxic substances, (140), above TQ
<https://www.epa.gov/rmp/fact-sheet-clean-air-act-section-112r-accidental-release-prevention-risk-management-plan-rule>





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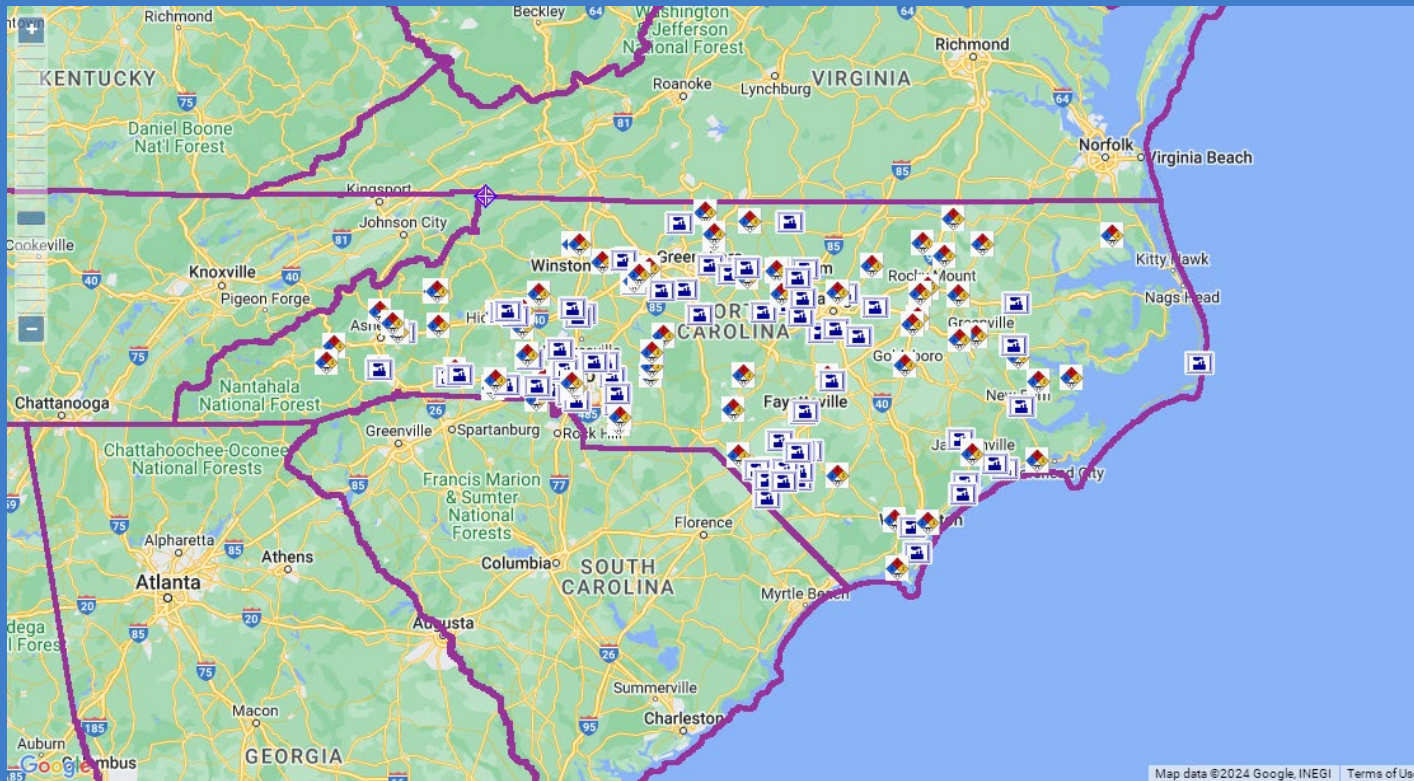
<https://www.epa.gov/epcra/hazardous-chemical-inventory-reporting>

- 313: Toxic Release Inventories <https://www.epa.gov/toxics-release-inventory-tri-program>
- 322 Trade Secrets <https://www.epa.gov/epcra/epcra-trade-secret-forms-and-instructions>
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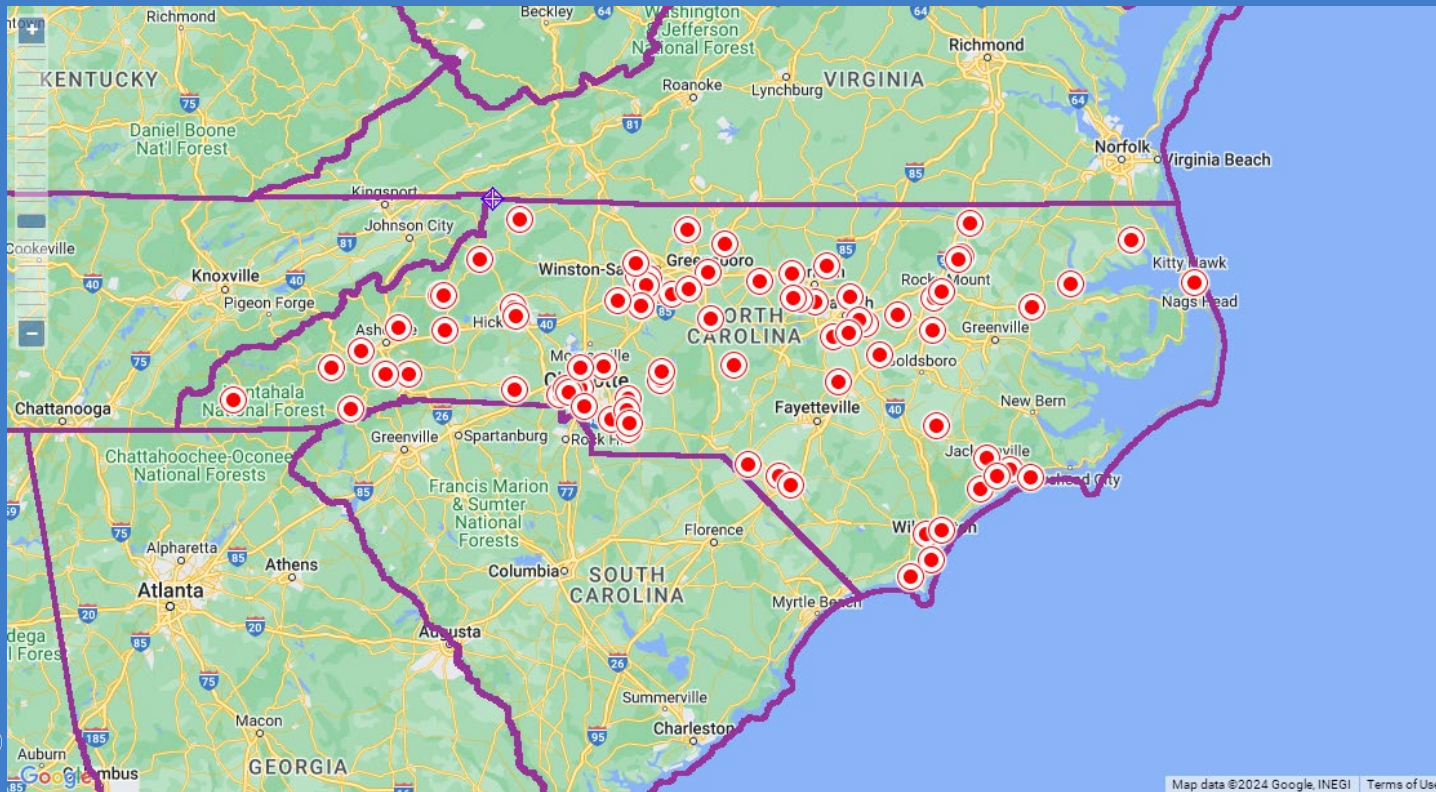


Current WWTP: 155 Reporters





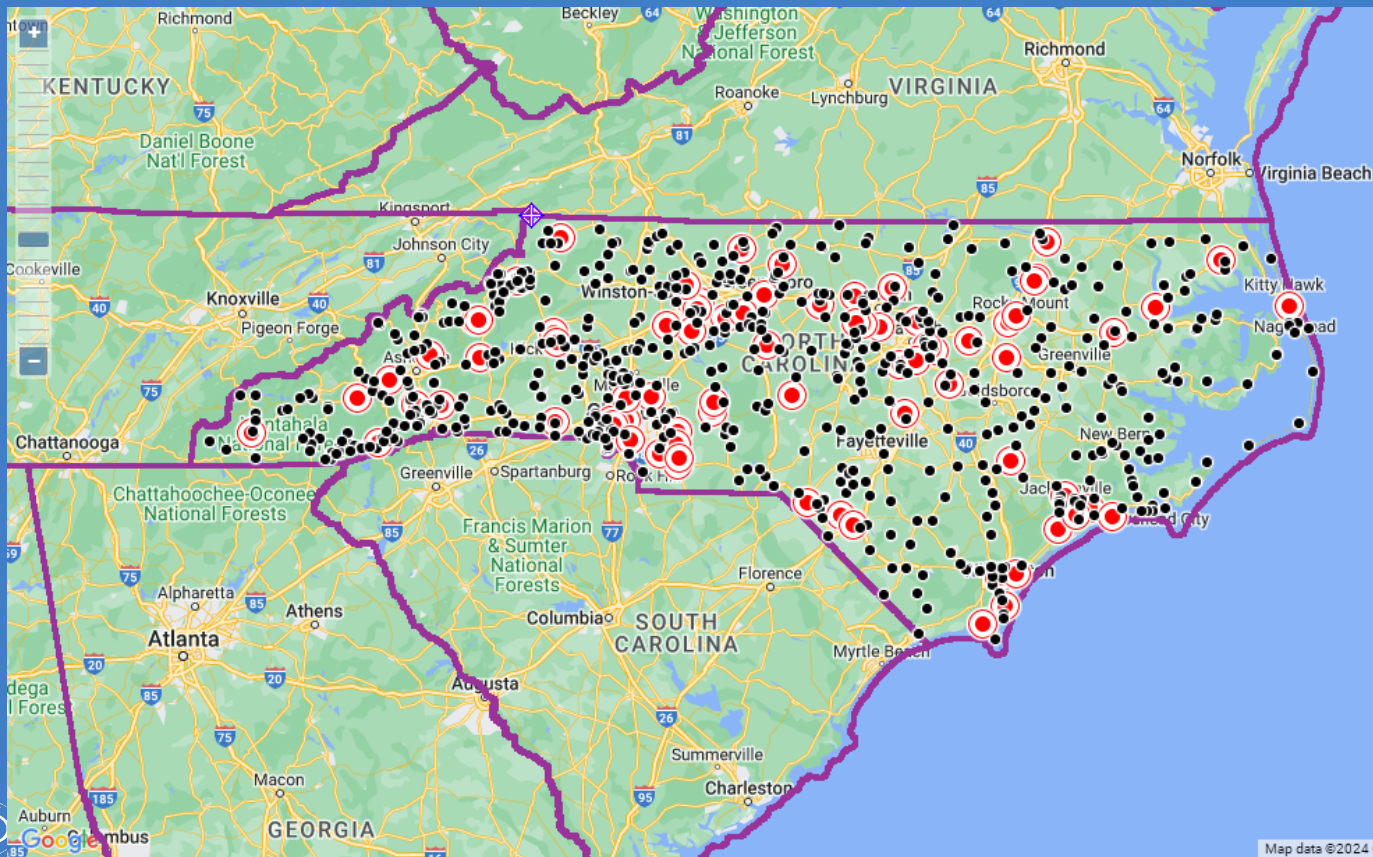
Current WWTP Reporters: 85 Reporters





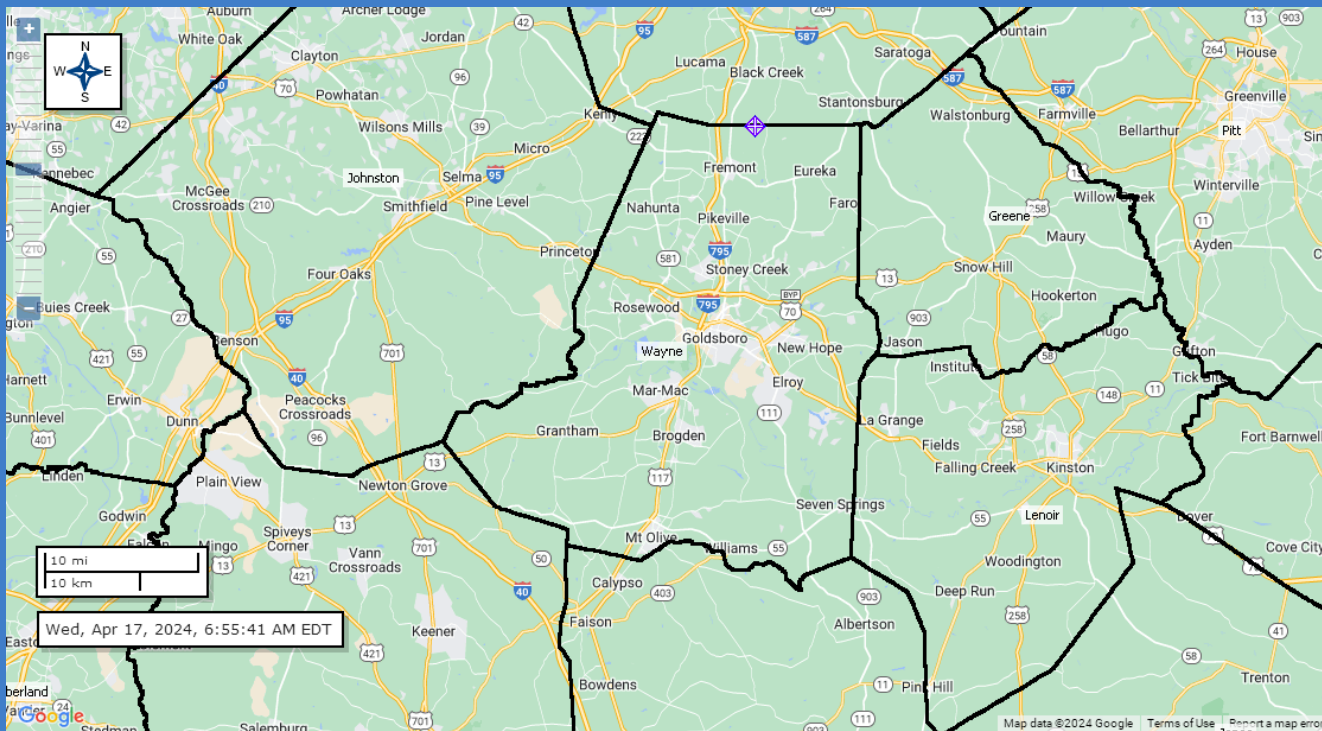
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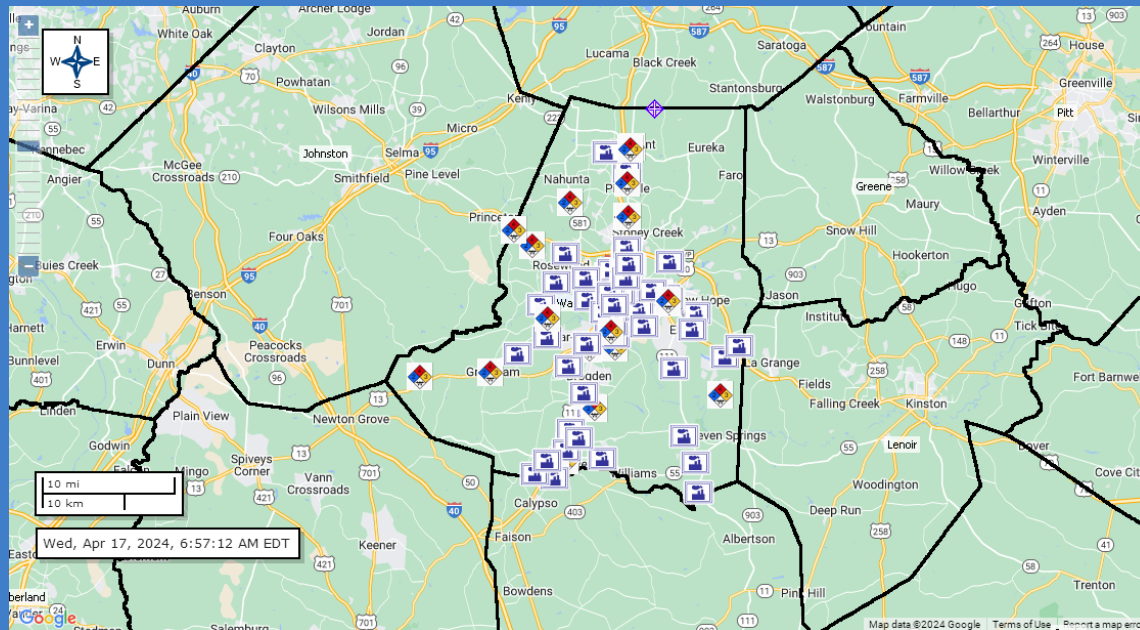
Wayne County





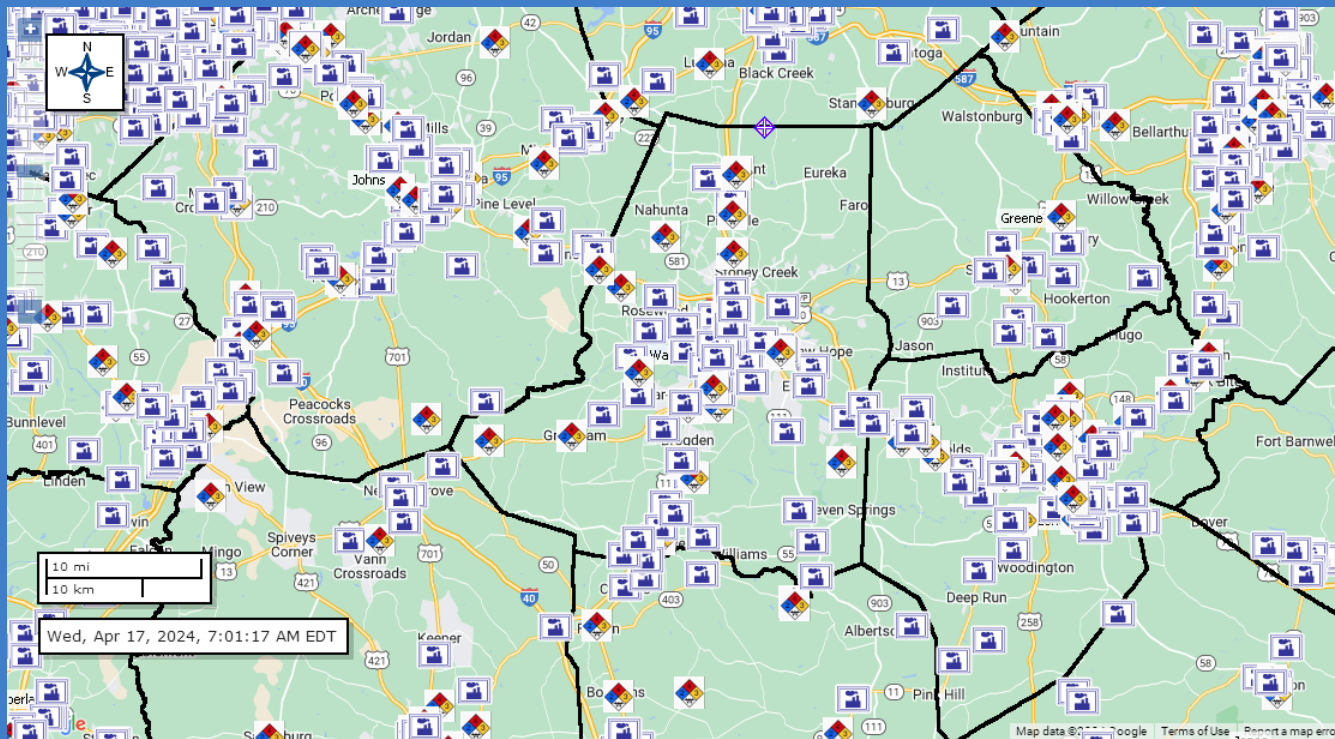
Wayne Tier II Facilities

- As of April 2023:
- 127 Tier II Facilities (60 EPCRA 302)
- 440 Chemical Inventories
- 332 Unique Chemicals
- 2 Risk Management Program Facilities



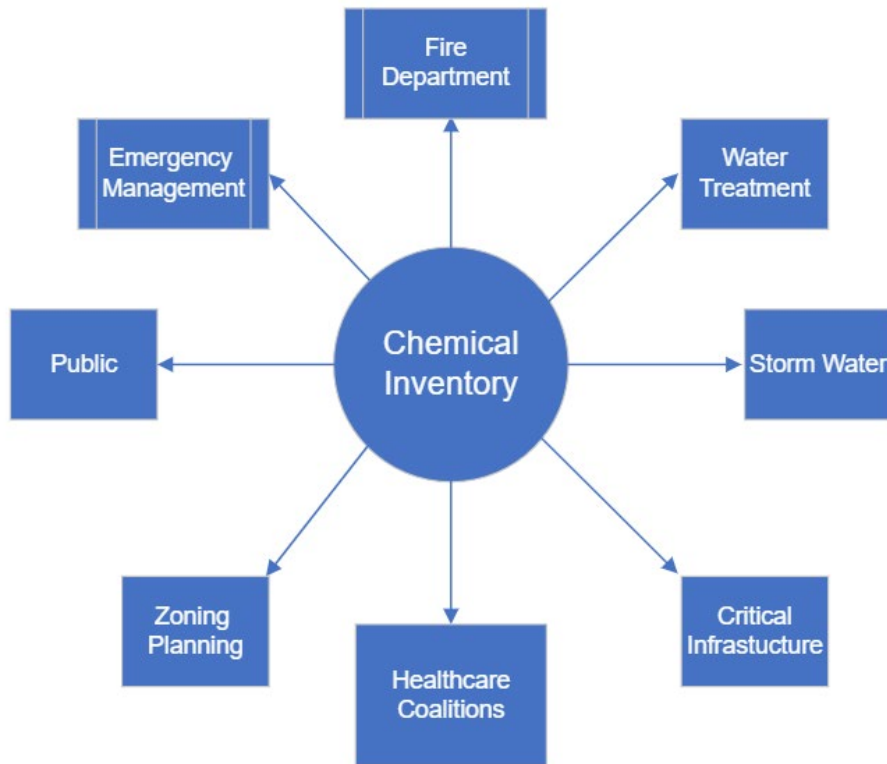


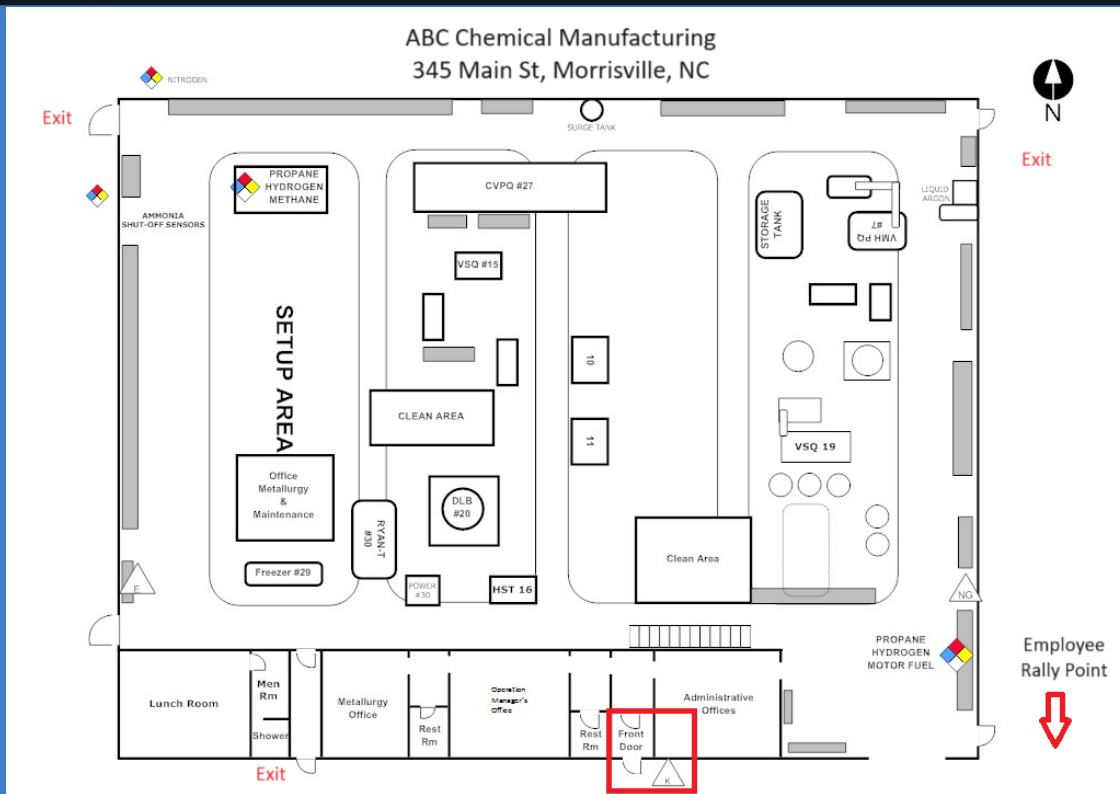
Howdy Neighbor!





Tier II Submitted Then What?





Site Plan Components

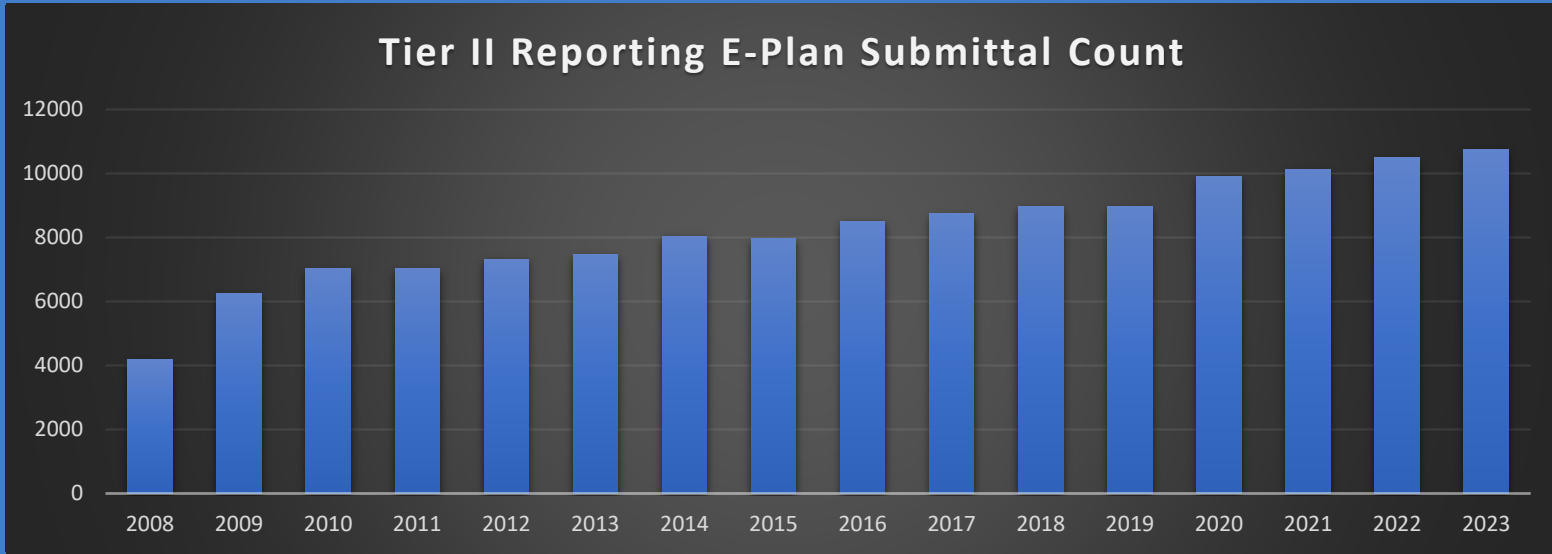
1. North will always be on top
2. Name and address
3. Floor Plan, not aerial
4. Access/ Egress
5. HAZMAT locations/Areas
6. Employee Rally Points





Trending Upwards – NC Tier II Facilities 10,759 (3/22/24) and Counting

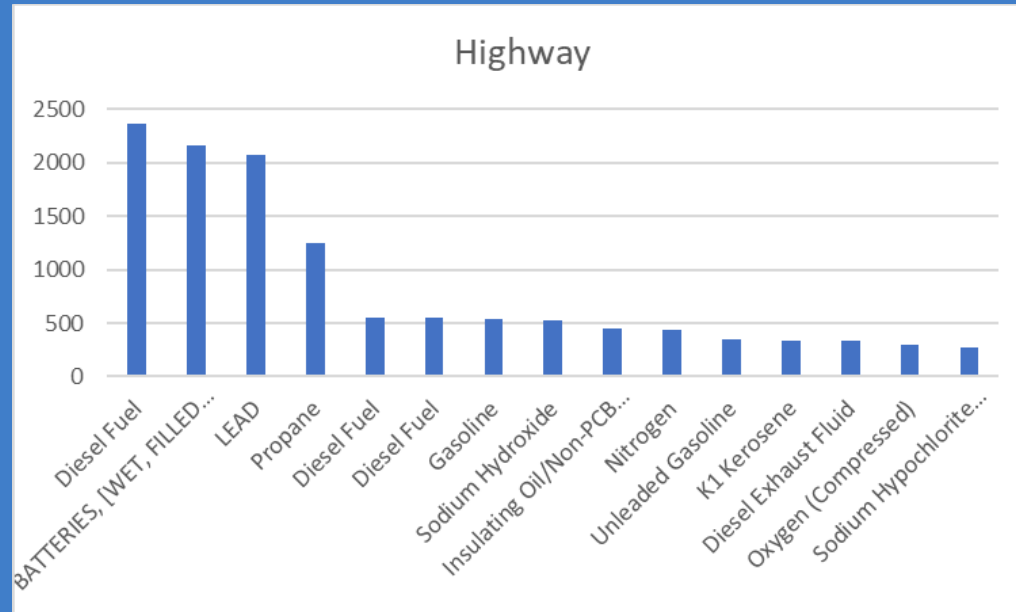
Tier II Reporting E-Plan Submittal Count





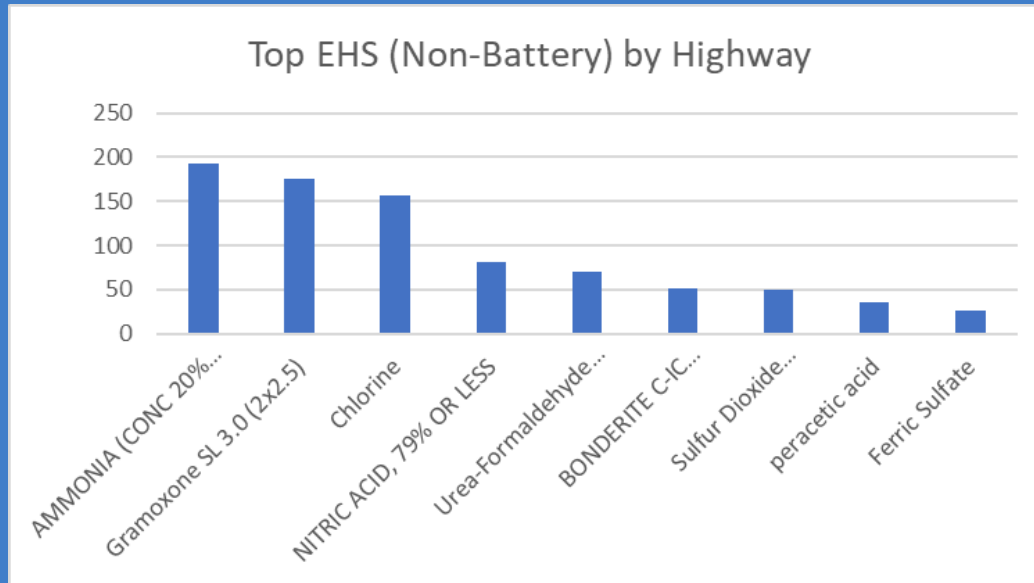
Transportation Summary by Highway

- Top chemicals by highway
- Primarily petroleum based
- Batteries
- Compressed Gases
- By CAS number
(duplicate product names)





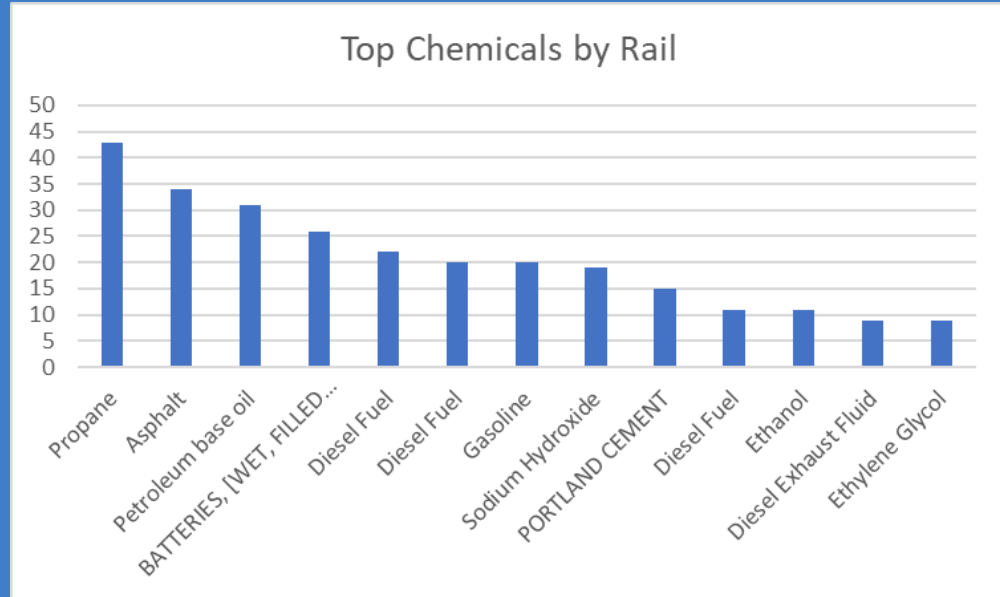
Transportation – EHS by Highway





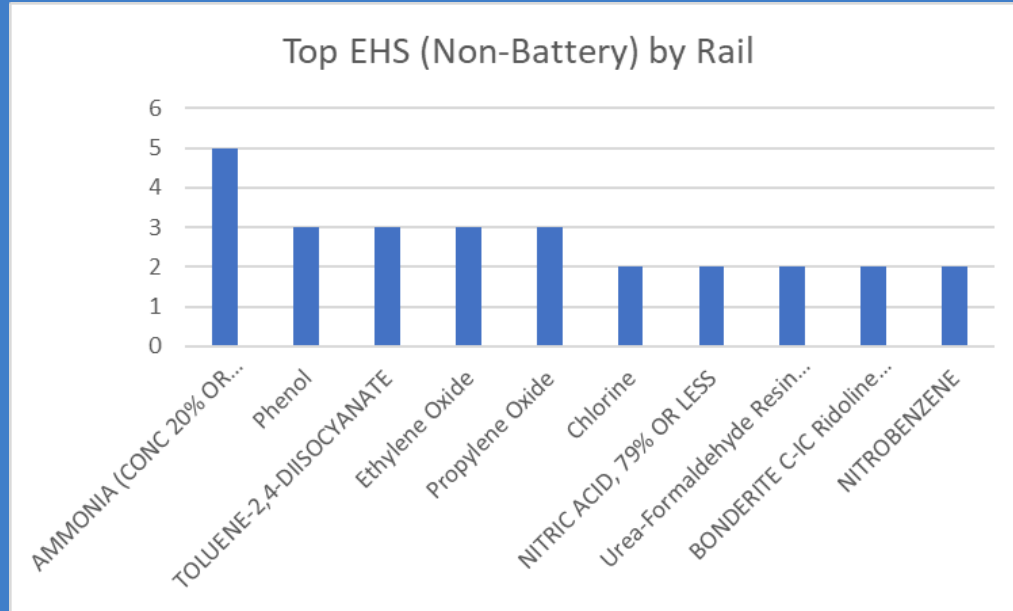
Transportation Summary by Rail

- Petroleum based products
- By CAS number
(duplicate product names)





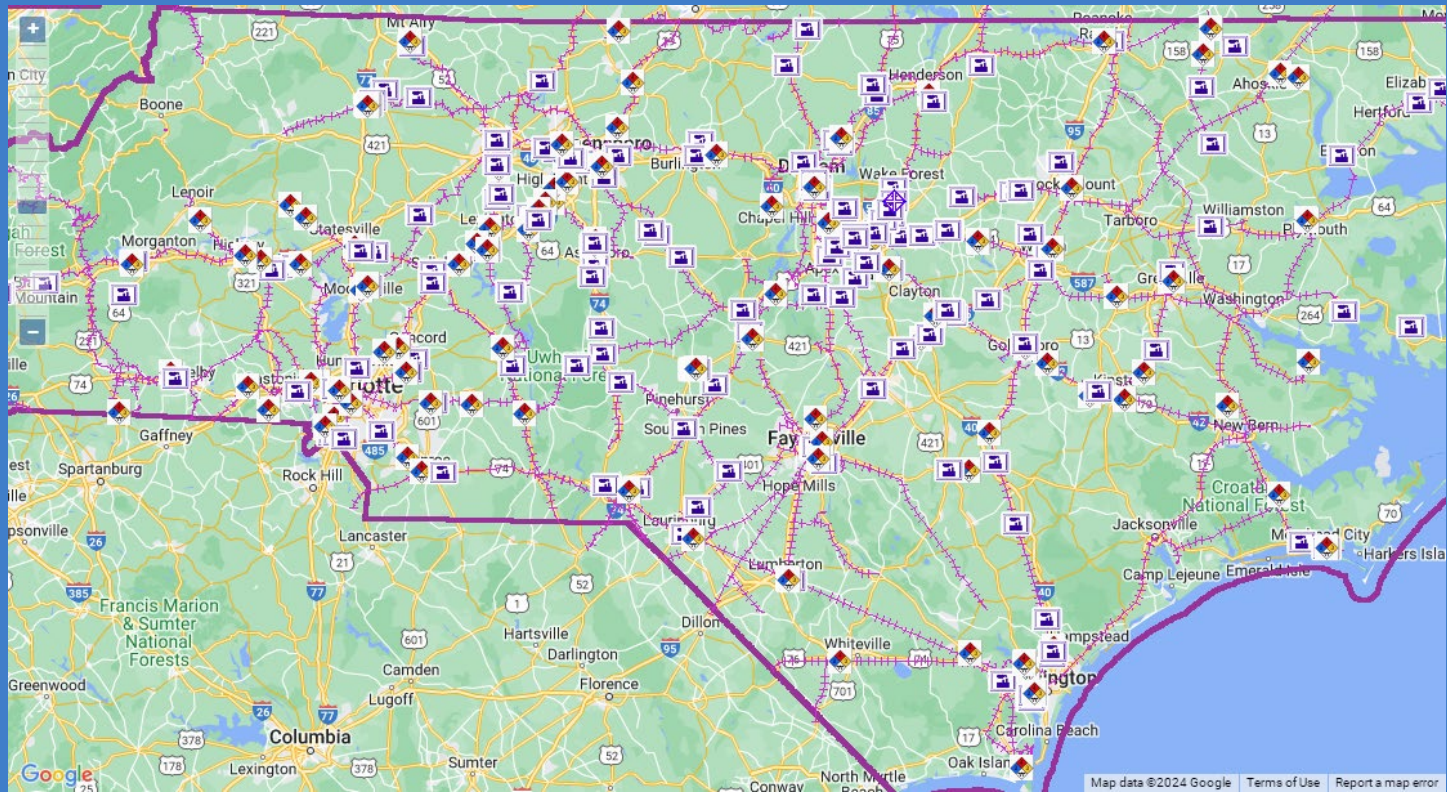
Transportation – EHS by Rail





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Responder Facility Knowledge

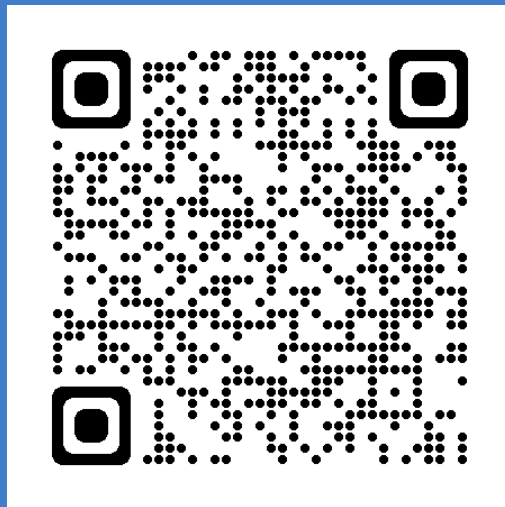
- Does your local response team know a facility's:
 - **Hazards:** health, physical, ripple effects
 - the facility's **processes,**
 - **protective** features and **systems,**
 - proper **actions to take** (or not to take) during emergencies





Tier II and Public Information Requests

- Emergency plans (EPCRA 303)
- SDS (311)
- Inventory/List of Hazardous Chemicals (311/312)
- Follow-up emergency notification (EPCRA 304)
- <https://www.ncdps.gov/tier2-info-requests>





Questions



- Environmental Topics ▾
- Laws & Regulations ▾
- Report a Violation ▾
- About EPA ▾

Frequent Questions

Search Frequent Questions

Filter By:

Topic	
<input checked="" type="checkbox"/> Emergency Planning and Community Right-to-Know	303
<input checked="" type="checkbox"/> Tier II Reporting (EPCRA 311/312)	147
<input type="checkbox"/> Emergency Planning (EPCRA)	25

- Emergency Planning and Community Right-to-Know
- Tier II Reporting (EPCRA 311/312)

[Remove all filters](#)

Displaying 1 - 15 of 303 results

[Recommended approach for reporting lead acid batteries when complying with Tier II reporting](#)

Does EPA have a standard or recommended reporting approach for lead acid batteries when complying with EPCRA Section 312 Chemical Inventory Reporting (i.e., Tier II reporting)? EPA suggests that facilities report for lead acid





Submittals to State Emergency Response Commission (SERC)

Tier II – Electronic Submittal in E-Plan meets submitting to the NC SERC
(and *most* NC LEPCs/local fire departments)

Facilities may upload other regulatory documents into E-Plan or
send hazardous material/waste documents electronically to

epcra@ncdps.gov

NO HARDCOPIES REQUIRED!!!

RCRA Hazardous Waste Contingency Plans

Hazardous Cleanup Reports

304 Follow Up Notifications





NCEM Hazmat Resources

<https://www.ncdps.gov/our-organization/emergency-management/hazardous-materials>

- LEPC contacts and resources such as National LEPC-TEPC Handbook and Chemical Exposure and Medical Treatment
- EPCRA/Tier II common questions and answers
- Emergency planning and response resources

[Chemical Release Notifications for Facilities](#)

[Chemical Safety & Reporting](#)

[Local Emergency Planning Committees](#)

[North Carolina Rules and Regulations](#)

[EPCRA/Tier 2](#)

[Risk Management Program \(CAA 112r\)](#)

[America's Water Infrastructure Act](#)

[Regional Response Teams](#)

[Hazardous Materials Storage](#)

[Emergency Response Resources](#)





Cyber Security Response Force

Provide cyber security assistance to State, Local, and Critical Infrastructure providers

Assessment

- Assessment of information security program, environmental factors, and technical area review
- Purpose is to identify potential gaps in coverage as well as provide baseline of improvement recommendations
- Conducted using industry best practices and DOD Security Technical Implementation Guidelines (STIGs)
- Output is comprehensive report outlining vulnerabilities and recommended solutions





N.C. Joint Cybersecurity Task Force

State Agencies	Local Governments, Academic Institutions & Private Sector Entities
Contact the NCDIT Customer Support Center at 800-722-3946.	Report cybersecurity incidents to the N.C. Joint Cyber Security Task Force by contacting the N.C. Emergency Management 24-Hour Watch Center, at NCEOC@ncdps.gov or at 1-800-858-0368.
Use the Statewide Cybersecurity Incident Report form .	For general inquiries or support, contact the N.C. Joint Cyber Security Task Force at ncisaac@ncsbi.gov .

<https://it.nc.gov/programs/cybersecurity-risk-management>





CISA Chemlock

<https://www.cisa.gov/resources-tools/programs/chemlock>



- Chemlock On-Site Assessments and Assistance
- Resources
- Facility security plan exercises
- Live training to assist owners, operators, facility personnel, and retailers



Tier II Reporting

- March 2023:
10125
Reporters

- March 2024:
10700
- As of
today....10780





POCs for HAZMAT, Tier II or RMP Questions

NCEM Hazardous Material Coordinators:

Sarah Robison and Tom Steelman
Risk Management Program

Stefan Coutoulakis – Tier II, CAMEO

Cole Owen – Hazardous Materials Emergency Planning Grant

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