

## Chem-Nuclear Annual Update

Prepared for the Governor's Nuclear Advisory Council Meeting January 8, 2015

South Carolina Department of Health and Environmental Control

Promoting and Protecting the Health of the Public and the Environment





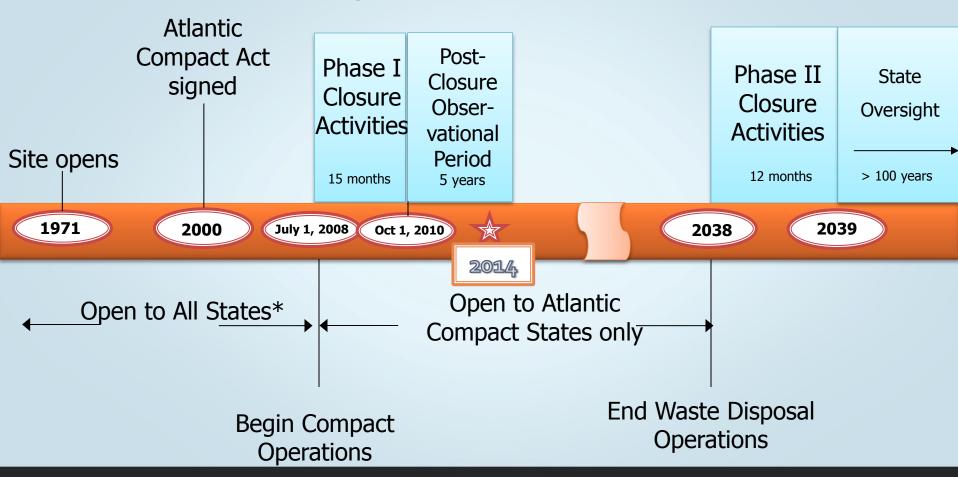
235 acres used for disposal and site buildings



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### **Projected Timeline**



#### Status of Chem-Nuclear Site

- Atlantic Compact Operations only
- Phase I closure activities are complete
- 86% of site is in 5-year postclosure observation period
- Extensive documentation showing 16 performance objectives listed in the license have been met









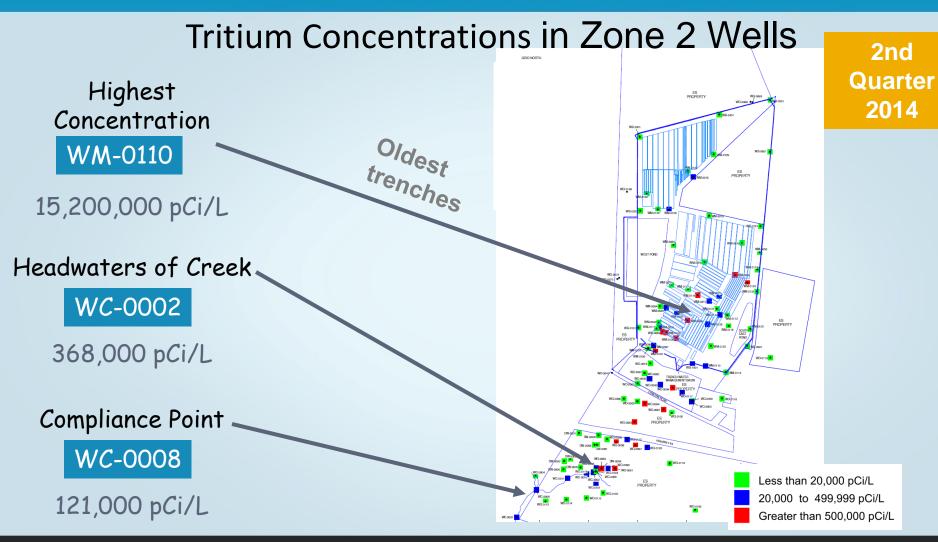
# Groundwater and Surface Water Monitoring the Tritium Plume

- Chem-Nuclear samples 178 monitoring locations
  - On-site wells
  - Off-site wells
  - Creek
- Sampling performed4 times per year



- DHEC samples at least 21 of those locations
- DHEC splits samples with Chem-Nuclear





## **Annual Trending Report**

- Monitors plume movement
- Looks at data for last 5 years
- 27 locations
- Statistical analysis
- 4 upward trend
- 13 downward trend
- 10 no trend

Tritium levels are closely monitored at the compliance point to be sure they do not exceed regulatory limits

Tritium levels are stable at compliance point

The plume is well defined

There are no receptors of the water

## License Appeal Update

- March 2004 DHEC renewed the Chem-Nuclear Systems' (CNS) License
- April 2004 DHEC's Decision was appealed by Sierra Club and Environmentalists, Inc.
- The Administrative Law Court (ALC) dismissed Environmentalists, Inc. based on lack of standing



- October 2005 The Administrative Law Court issued its order affirming the license renewal
- March 2010 The SC Court of Appeals issued its order affirming in part and remanding in part to the Administrative Law Court with instructions to make specific findings and conclusions on whether Chem-Nuclear is in compliance with Sections 7.10.5 - 10; 7.11, and 7.23.6.



- May 2010 Motion for rehearing denied by Court of Appeals
- July 2011 Petition for Certiorari denied by the SC Supreme Court
- July 2012 The Administrative Law Court issued its order on remand affirming that Chem-Nuclear was in compliance with the remanded portions of the regulation, Section 7.10.5 - 10, 7.11, and 7.23.6



- August 2012 Sierra Club appealed the Administrative Law Court's order (7-20-12 order) to the SC Court of Appeals
- February 5, 2014 Hearing before the Court of Appeals

- July 30, 2014 Court issued an opinion that confirmed in part and reversed in part DHEC's decision to renew the license
  - Court ordered DHEC and Chem-Nuclear to prepare a plan for compliance with three subsections of the regulation concerning rainfall onto and out of the disposal trenches
- August 2014 Both Chem-Nuclear and DHEC filed
   Petitions for Rehearing; and Chem-Nuclear filed a Motion
   for a Stay of the order's requirements which was approved



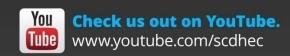
## CONTACT US

www.scdhec.gov

(803) 898-DHEC (3432)







Susan Jenkins, Manager Infectious and Radioactive Waste Management Section 803-898-0377 jenkinse@dhec.sc.gov