

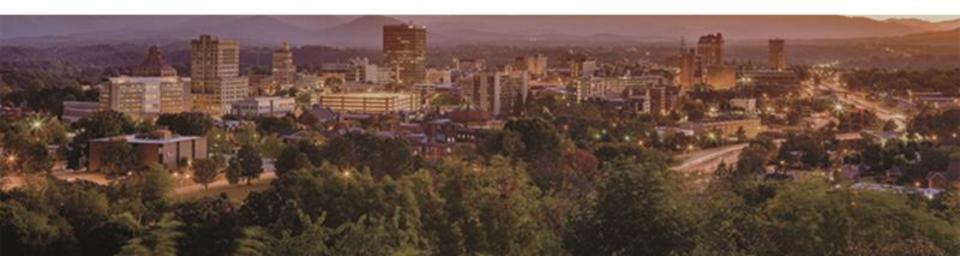


The State of State Inspections

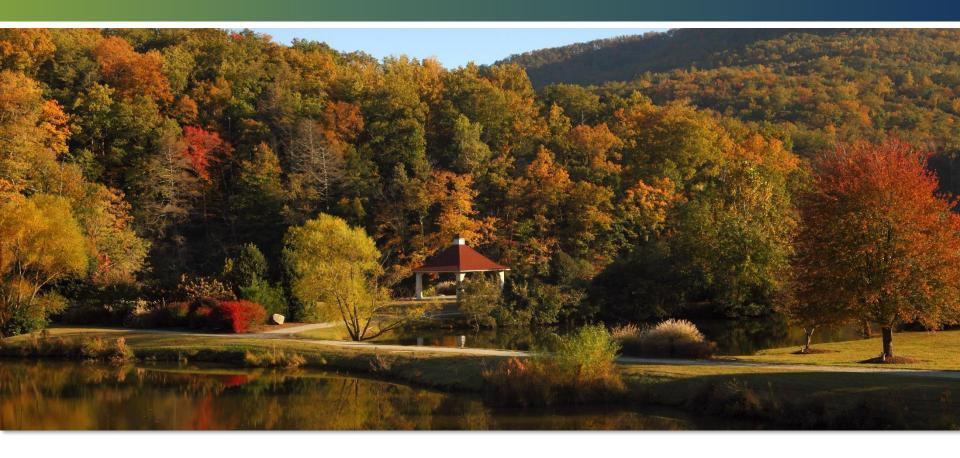
November 2, 2017

NC SWANA 2017 Fall Conference

Facility Inspections Alternate Source Demonstrations Deb Aja - Solid Waste Section, Division of Waste Management

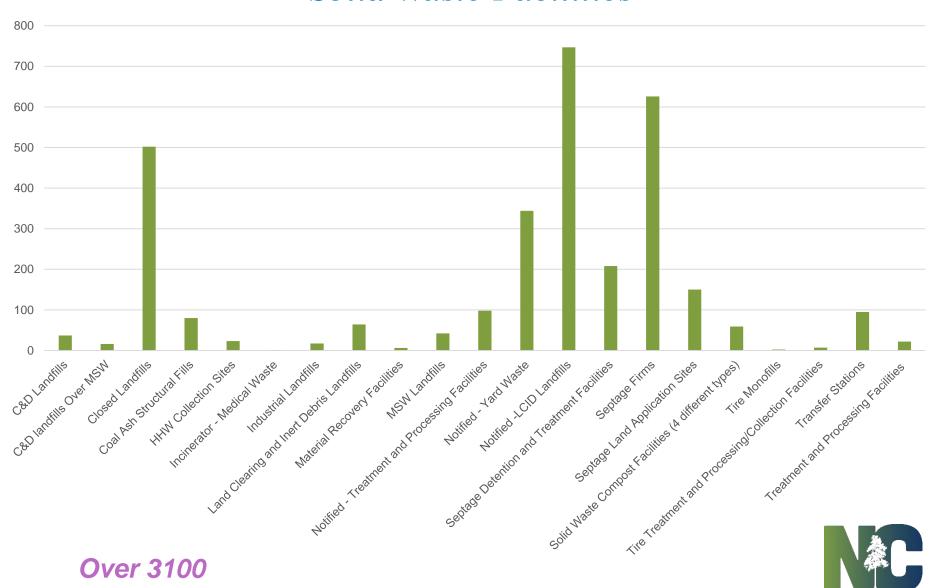


Facility Inspections

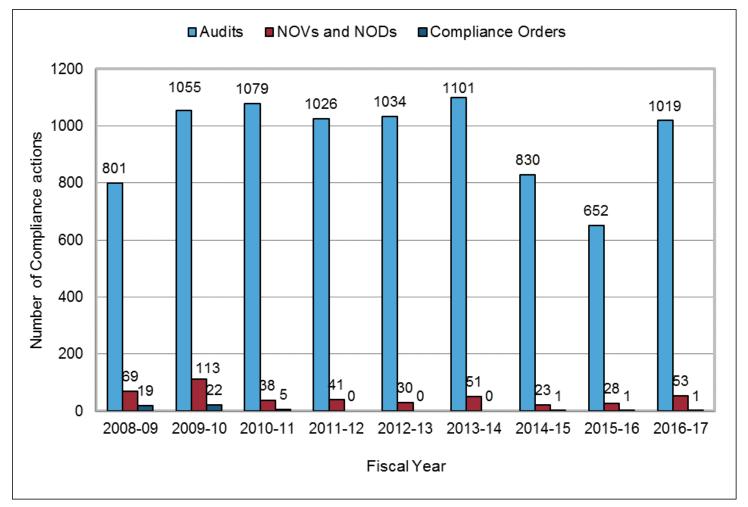




Solid Waste Facilities

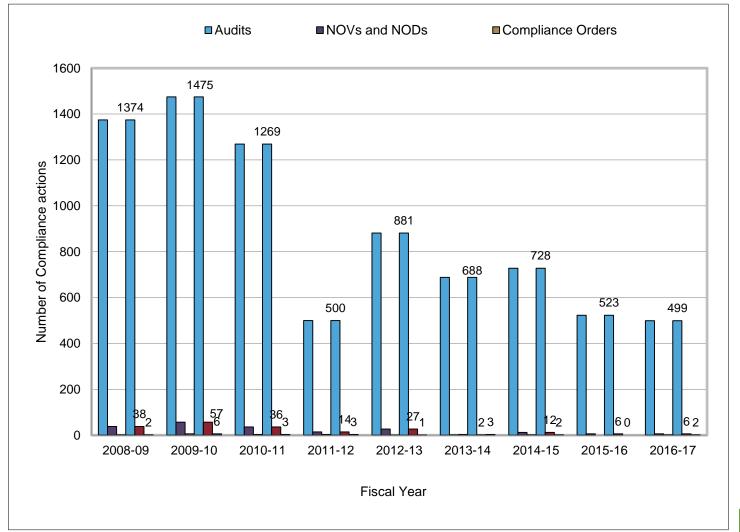


Inspections & Compliance





Inspections & Compliance – Septage Facilities & Firms





Where have we found significant compliance issues?

- Where there have been gaps in inspections.
- Turnover in facility managers/staff
 - particularly where reluctant to communicate issues as they arise.
- Lack of adequate staffing & equipment.
- · Lack of training.



Stating the Obvious...

Small problems can quickly become large problems that require more resources, time, and money to fix.

- Allowing problems to persist at your facility without taking action can and will lead to penalties.
- If you are taking action, the agency will work with you to look at long term solutions.
 - Interim measures can be taken to come into compliance with a reasonable plan with a reasonable timeframe.



Open Communication is Key!

Continue to put into practice what was learned in "Working Together" – 2012 workshops joint training – learned that there are differences in perspective that can be bridged by communication.

- What did the inspector discuss in the inspection?
 - Know the rules and your facility permit/operations plan.
- Did you feel that you got your message across to the inspector?

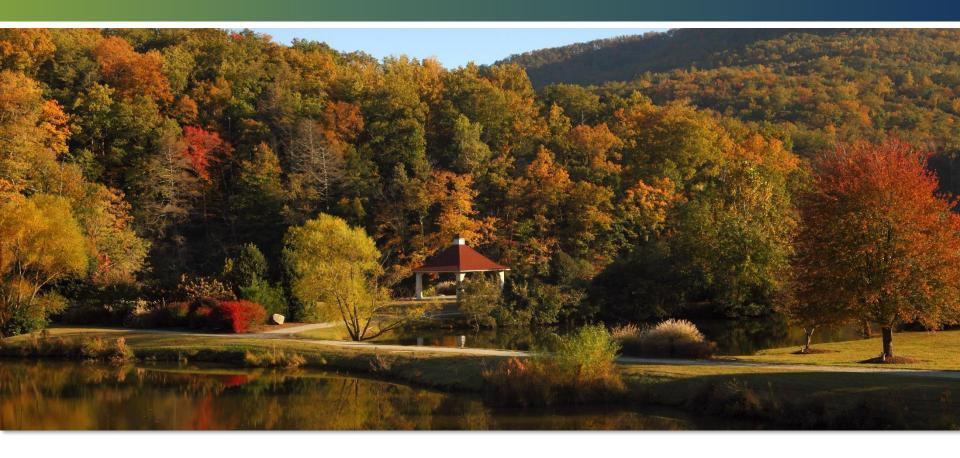




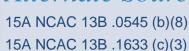
Going forward...

- Don't be afraid to reach out and call.
- Communicate early on when issues arise.
- We can help make a pitch to get support to fill resource needs.











- Alternate Source Demonstrations (ASDs) may be prepared and submitted in response to Appendix I constituents exceeding the groundwater protection standards as defined in 15A NCAC 13B.1634 (g) or (h) during routine groundwater monitoring events.
- Construction and Demolition Landfills permitted on or after January 1, 2007 have the option to submit an ASD in accordance with 15A NCAC 13B .0545(b)(8).
- Municipal Solid Waste Landfills permitted on or after October 9, 1993 have the option to submit an ASD in accordance with 15A NCAC 13B .1633(c)(3).





15A NCAC 13B .0545 (b)(8) 15A NCAC 13B .1633 (c)(3)



An Effective ASD Must Prove one of the following:

- An identifiable source other than the solid waste facility caused the exceedance,
- On-site variability of groundwater concentrations exist, or
- An error occurred during sampling and/or analysis.



15A NCAC 13B .0545 (b)(8) 15A NCAC 13B .1633 (c)(3)



Inorganic Constituent Exceedances

If inorganic constituent exceedances are determined to be caused by turbid groundwater samples, turbidity can be addressed in any of the following ways:

- Re-development of the groundwater monitoring well,
- Modification to groundwater sample collection methods, and
- Installation of new groundwater monitoring wells that are believed to be constructed improperly.

The Solid Waste Section may evaluate other proposed options to address turbidity on a site-specific basis.



15A NCAC 13B .0545 (b)(8) 15A NCAC 13B .1633(c)(3)



Statistical Evaluations

- Facilities may calculate statistical background concentrations using any of the approved statistical methods listed in 15A NCAC 13B .1632(g).
- Statistical background concentrations must be calculated using data from non-turbid background well groundwater samples.
- If analytical data is derived from turbid groundwater samples or there is no record of turbidity measurements, facilities must take necessary steps to reduce turbidity (<10 NTUs) in the background well(s) and collect a minimum of 10 non-turbid samples within a two-year period to calculate the new statistical background value.
- Statistical background values should only be compared to analytical results from downgradient groundwater monitoring wells installed in the same lithologic unit as the background groundwater monitoring well.



15A NCAC 13B .0545 (b)(8) 15A NCAC 13B .1633(c)(3)

Volatile Organic Compound (VOC) Exceedances

- If an ASD determines that landfill gas is the source of VOC exceedance(s), the facility must enter into Assessment Monitoring and begin to remediate landfill gas.
- The facility may return to Detection Monitoring if remediating landfill gas reduces the VOC contaminant concentrations below groundwater protection standards for three consecutive years.





15A NCAC 13B .0545 (b)(8) 15A NCAC 13B .1633 (c)(3)



Additional information related to ASD submittal guidelines can be found on the SWS Portal: https://deq.nc.gov/about/divisions/waste-management/solid-waste-section

Topics	
 Annual Reporting Asphalt Shingles Batteries Coal Combustion Byproducts Composting Contact DEQ Disaster Debris Documents Electronics Management Enforcement Environmental Monitoring ePayment 2 Facility List Financial Assurance Forms 	Guidance Household Hazardous Waste Illegal Dumping Items Banned from Disposal in Landfills Keep in Touch Landfill Audit Guidance Management Plan Medical Waste Rules Scrap Tires Septage Tax Certification Program White Goods Yard Waste

Environmental Monitoring

The Solid Waste Section oversees the monitoring at all Solid Waste Facilities.

View the October 2007 Memo » ☑

View the October 2006 Memo » ☑

View the Addendum to the Oct 2006 Memo » ☑

Rules

- 15A NCAC 13B .0600 Rules ☑ Applicable to all facilities permitted under the .0500 Rules.
- 15A NCAC 02C ☑ Well Construction Standards
- 15A NCAC 02L ☑ Groundwater Classification and Standards

Current Guidance

Groundwater

- Alternate Source Demonstration Guidance Document ☑ (July 2017)
- Submitting New Groundwater Monitoring Plans ☑
- Evaluation of Groundwater Protection Standards ☑



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Thank-You!

http://portal.ncdenr.org/web/wm/sw



