

1 15A NCAC 13B .0840 is amended as published in 31:12 NCR 1232 as follows:

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3 **15A NCAC 13B .0840 SAMPLING AND ANALYSIS**

4 (a) Monitoring or sample collection, handling and analysis required by this Section, and all costs involved, are the  
5 responsibility of the septage management firm, firm permit holder, site operator, or the owner of the wastewater  
6 system, as appropriate. This includes all costs of analysis of sampling, [collection, ]handling, and [analysis of  
7 samples.]testing.

8 (b) The permit holder of a septage land application site shall obtain arrange for annual representative soil samples to  
9 be taken once every two years from each field at the permitted site field, as designated in permit, during the last quarter  
10 of ~~each~~ the calendar year.

11 (c) Soil samples shall be taken annually [once every two years] from each area designated as a separate field of a  
12 [permitted] septage land application site and analyzed for cation exchange capacity, pH, phosphorus, potassium,  
13 ~~calcium~~ calcium, manganese, magnesium, zinc, and copper. If the results for zinc analysis are equal to or above 30  
14 pounds per acre or the results for copper analysis are equal to or above 35 pounds per acre, analysis for the metals  
15 listed in Rule .0835(c)(10)(B) of this Section shall be required. Analysis for other metals shall be required when zinc  
16 levels reach 30 pounds per acre or copper levels reach 35 pounds per acre. Sites permitted to receive septage, septage  
17 other than domestic septage, septage shall be analyzed for cadmium sampled [once every two years] annually to  
18 determine compliance with 40 CFR 257.3-5.40 CFR 257.3-6.

19 (d) Domestic septage and grease septage shall be monitored in accordance with 40 CFR Part 503.16(b).

20 (e) Domestic treatment plant septage proposed to be land applied at a permitted septage land application site shall be  
21 sampled before the initial application, and annually thereafter, prior to being removed from a treatment facility facility.  
22 Samples shall be analyzed for: for the following:

- 23 (1) Metals ~~addressed~~ listed in 40 CFR 503.13; and  
24 (2) Total solids, pH, ammonia, nitrates, total ~~kjeldahl~~ kjeldahl nitrogen (TKN), biochemical oxygen  
25 demand (BOD), chemical oxygen demand (COD), total phosphorus, potassium, ~~sodium~~ sodium,  
26 and magnesium.

27 (f) Industrial or commercial ~~septage, septage~~ or commercial treatment plant septage, [septage] proposed to be land  
28 applied at a permitted septage land application ~~site,~~ site shall be sampled prior to being removed from a wastewater  
29 system. Analytical results shall be submitted to the Division ~~for consideration~~ prior to the issuance of a permit or  
30 approval to land apply the septage. Analysis Samples shall be conducted analyzed for:

- 31 (1) Metals ~~addressed~~ listed in 40 CFR 503.13;  
32 (2) Total solids, pH, ammonia, nitrates, TKN, BOD, COD, total phosphorus, potassium, ~~sodium~~  
33 sodium, and magnesium; and  
34 (3) Organic chemicals, using a complete EPA Test Method 1311 Toxicity Characteristic Leaching  
35 Procedure or other appropriate analysis, sampling, such as EPA Test Method numbers 8240-8260  
36 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry or 8270, 8270  
37 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, unless an

1 examination of the industrial process and the material used indicates less extensive analysis is  
2 acceptable.

3 (g) Sample analysis required by this Section shall be performed either by the North Carolina Department of  
4 Agriculture and Consumer Services laboratory or by a laboratory certified by the North Carolina Division of Water  
5 Resources for waste-analysis. Analysis for inorganic constituents shall be conducted in accordance with 40 CFR Part  
6 503.8. Organic chemical analysis shall be conducted according to Subparagraph (f)(3) of this Rule. Results from the  
7 North Carolina Department of Agriculture and Consumer Services laboratory will [shall] be [accepted.]accepted  
8 where appropriate.

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10 *History Note: Authority G.S. 130A-291.1;*  
11 *Eff. October 1, ~~2009~~2009;*  
12 *Amended Eff. May 1, 2017.*