

## eCMAR SECTION INSTRUCTIONS: Biosolids Quality and Management

### **1. Biosolids Use /Disposal**

1.1 How did you use or dispose of your biosolids?

*Check all methods of biosolids use/disposal you used in the past calendar year. If you do not remove biosolids from your system annually, please check "OTHER" and describe your system type such as lagoon, reed beds, recirculating sand filters, etc. in box 1.1.1 and if biosolids were removed last year, please also check the appropriate box.*

### **2. Land Application Sites**

2.1 Last Year's Approved and Active Land Application Sites

2.1.1 How many acres did you have?

*The number of acres you have is the total number of acres that have been approved and are available for land application, as you need them. This number is automatically generated. If the number disagrees with your records, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

2.1.2 How many acres did you use?

*Of your approved acres, this is the total number of acres utilized in the past calendar year for your land application activities.*

2.2. If you did not have enough acres for your land application needs, what action was taken?

*Explain what you did to dispose of your biosolids if you didn't have enough acres for the amount of biosolids you generated. Did you get more acres approved? Did you dispose of your solids by another method? What did you do?*

2.3 Did you overapply nitrogen on any of your approved land application sites you used last year?

*Click on the appropriate "YES" or "NO" button. The amount of biosolids that can be applied to a land application site is usually controlled by the nitrogen needs of the crop. This can be calculated using the worksheet (Form- 3400-54). The total amount of nitrogen provided can then be calculated using Form 3400-56 and reported on the Land Application Report Form 3400-55 in column 10. Other sources of nitrogen applied to the land application site should be accounted for and entered in column 11 (of Form 3400-55). By comparing the nitrogen recommendation for each site, depending on the cover crop, and from your soil analyses, or by NR 204.07(8)(c) for legumes, to the amount you applied and other applied sources, you can answer this question accordingly.*

2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?

*Click on the appropriate "YES", "NO", or "N/A" button. Land application sites that are being used for applying biosolids require soil tests every four year of use. Your files should include the soil test records you need to answer this question.*

### **3. Biosolids Metals**

3.1 For each outfall tested, verify the metal quality values for your facility during the last calendar year.

*Check the values reported in this section to the values you entered and submitted on the Characteristic Reports (Form 3400-49) and confirm their accuracy and completeness. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

3.1.1 Number of times any of the metals exceeded the high-quality limits OR 80% of the ceiling limit for molybdenum, nickel or selenium?

*Check the exceeded values reported in this section to the values you entered and submitted on the Characteristic Reports (Form 3400-49) and verify they are correct. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

3.1.2. If you exceeded the high-quality limits, did you cumulatively track the metals loadings at each land application site? (check applicable box).

*Metals that exceed the high-quality limits and are applied to land application sites must be cumulatively tracked each year to ensure that the lifetime loading of the site is not exceeded.*

3.1.3 Number of times any of the metals exceeded the ceiling limits?

*Count each ceiling limit exceedance and assign points as indicated. Even if the biosolids were not land applied, if they exceeded a ceiling limit, the points apply.*

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

*Did you apply biosolids to a land application site when a ceiling limit was exceeded.*

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

*State what you are doing to find the source of the pollutants or what other measures you are taking to be in compliance with and reduce the biosolids pollutant concentrations.*

### **4. Pathogen Control (per outfall)**

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

*Check the values reported in this section to the values you entered and submitted on the Characteristic Reports (Form 3400-49) and confirm their accuracy and completeness. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.

*Did you land apply biosolids that exceeded this limit or did not meet the process criteria. This response is automatically pulled from values entered and submitted on the Characteristic Reports (Form 3400-49). Check the values reported in this section to the values you entered and submitted on the Characteristics Report (Form 3400-49) and verify they are correct. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

4.2.1 Was the limit exceeded or the process criteria not met at the time of land application?  
*If "YES" was checked, describe the operational changes or other modification steps taken to return to compliance with the pathogen control limits or process criteria.*

### **5. Vector Attraction Reduction (per outfall)**

5.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

*Check the values reported in this section to the values you entered and submitted on the Characteristic Reports (Form 3400-49) and confirm their accuracy and completeness. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

5.2 Was the limit exceeded or the process criteria not met at the time of land application?

*This question applies if you landspread biosolids that exceeded this limit or did not meet the process criteria. Check the exceeded values reported in this section to the values you entered and submitted on the Characteristic Reports (Form 3400-49) and verify they are correct. If any reported values are incorrect, contact your DNR District Wastewater Engineer or Specialist by clicking the 'REPORT ISSUE' button or by phone.*

### **6. Biosolids Storage**

6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?

*Your treatment facility was designed for storing biosolids for so many days. Given the amount of sludge you actually produced last year, how much sludge storage capacity did you actually have? If you hauled your sludge to another facility, select "N/A."*

6.2 If you checked N/A above, explain why.

*Provide an explanation if "N/A" was selected as the answer to question 6.1 above.*

### **7. Issues**

7.1 Describe any outstanding issues with sludge treatment, biosolids use or overall biosolids management?

*Describe or explain any biosolids issues and concerns. This could pertain to operational or capacity issues, local ordinance or public acceptance issues, regulatory concerns or any other aspect of biosolids management.*