



SEPTAGE LAND APPLICATION QUARTERLY REPORT

State Form 50397 (R2 / 2-17)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Business Name: _____

Land Application Report for the _____ Quarter of _____

Business Permit Number: _____

Site ID: _____

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Date of Application (mm/dd/yy)	Volume Applied	Type of Load Applied	Method of Application	Acreage Used	Crop / Nitrogen Requirements	Vehicle Operator

"I certify under penalty of law, that the pathogen requirements and vector attraction reduction requirements in 327 IAC 7.1-8-9 have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment."

Permittee's Signature: _____

Date: _____
(mm/dd/yy)

Total Gallons of Septage Applied this Quarter: _____

Directions for the use of the quarterly land application reports:

Use this report form only, make additional copies as necessary. Use a separate set of report form sheets for each approved site. For each load of septage applied, record the following information:

1. the date of application;
2. the volume applied in gallons;
3. the type of waste, indicating domestic septage, grease or a mixture of both;
4. the method of application used for each load such as surface application, surface application with incorporation, or injection;
5. the number of acres each load covered;
6. the crop / nitrogen requirement per load (50 lbs for), (100 lbs for), or (200 lbs for corn);
7. the vehicle operator.

To calculate the acres applied, convert square feet to acres by dividing the square feet applied by 43560 (square feet in an acre). Example: $1800 \text{ ft}^2 / 43560 \text{ ft}^2/\text{Acre} = 0.0413 \text{ acres}$

To determine the maximum gallons that can be applied per acre, divide the nitrogen requirement by 0.0026. Example: if no crop is grown on the site the maximum nitrogen application rate is 50 pounds of nitrogen per acre per year. $50 / 0.0026 = 19,000$

Nitrogen requirements for crops are as follows:

Crop to be Grown in Next Season	Nitrogen Requirement	Maximum Gallons Per Acre Per Year Allowed
Corn	200	76,000
Soybeans, wheat or hay	100	38,000
Grass, pasture, set aside or otherwise idle	50	19,000

The permittee must sign each report form to verify that the pathogen and vector attraction reduction requirements have been met and that the information provided is true and accurate.

Reports must be submitted no later than one week after the end of each calendar quarter. Calendar quarters end March 31, June 30, September 30 and December 31. Submit reports to the following address:

Indiana Department of Environmental Management

Office of Land Quality

Septage Program

IGCN Room 1101

100 North Senate Avenue

Indianapolis, IN 46204-2251

Reports must be submitted even if no land application activity occurred during the quarter.

Directions for use of the septage lime stabilization log:

Use this form to document pathogen and vector attraction reduction. For each load of domestic septage and mixed loads applied, record the following information:

1. the date;
2. the amount of septage in tank;
3. the type of septage: domestic septage or mixed load;
4. the amount of lime used to raise the pH;
5. the initial pH
6. the time the initial pH reading was taken;
7. the temperature of the septage at the time the initial pH reading was taken;
8. the pH after waiting the required time;
9. the time the second pH reading was taken;
10. the temperature of the septage at the time the second pH reading was taken;
11. the location the samples were collected from the tank. Identify the discharge point at the bottom of the tank, an opening at the top of the tank, or other location.

To document pathogen and vector attraction reduction, lime must be added to the tank and a pH of twelve or higher must be maintained for at least 30 minutes (for domestic septage) or 2 hours (for mixed loads) prior to land application. Analyze the pH twice, once at the start of the time period and once at the end of the time period. The temperature of the septage must be monitored at the time the pH is monitored. The temperature should be 25°C when the pH is at 12. If the temperature is above 25°C, the pH must be adjusted up 0.03 units for each degree above 25. For temperatures below 25°C, the pH must be adjusted down 0.03 units for each degree below 25.