

Notice: This form is required under s. NR 204.06, Wis. Adm. Code. Personally identifiable information on this form is not intended to be used for any other purpose. Complete one form for each site. For additional forms, please contact your appropriate Region Office.

Permit Number	DNR Site Number	Field Name/Number
Permittee		Location
Farmer's Name		___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ N, Range ___ E City <input type="checkbox"/> W Village <input type="checkbox"/> Town <input type="checkbox"/>
Site Owner's Name		County _____

Part I – Calculation of Dry Tons of Sludge Applied

A. Actual volume of sludge applied to the utilization site in gallons per acre or cubic yards per acre.

1. _____ Gal./Acre _____ Cubic Yards/Acre

2. Total Solids Content _____ %
 (From Sludge Characteristics, Form 3400-049, Part A.)

B. Calculation of dry tons of sludge applied to site.

1. Using Gallons/Acre:

$$\frac{\text{Gallons applied}}{\text{Acre}} \times \text{_____ \% Solids Content} \times 0.0000417 = \text{_____ Dry Tons/Acre}$$

2. Using cubic yards per acre:

$$\frac{\text{Cubic yards applied}}{\text{Acre}} \times \text{_____ \% Solids Content} \times 0.008425 = \text{_____ Dry Tons/Acre}$$

C. Calculation of total sludge applied.

1. _____ Dry Tons/Acre X _____ Acres Applied X .907 = _____ Metric Tons Applied

2. Sum totals for all sites for year and enter on Form 3400-055.

Part II – Calculation of Amount of Nitrogen Made Available to Crop

A. Ammonium Nitrogen (NH₄⁺-N) applied with sludge per acre: Use Agricultural Site Worksheet, Form 3400-054, Column 11b for NH₄⁺-N Available (NH₄⁺-N Ava) in lbs./dry ton.

$$\frac{\text{Lbs. NH}_4^+\text{-N Ava}}{\text{Dry Ton}} \times \text{_____ Dry Tons Applied} = \frac{\text{Lbs. NH}_4^+\text{-N Ava}}{\text{Acre}}$$

B. Organic Nitrogen (Org N) applied with sludge per acre: Use Agricultural Site Worksheet, Form 3400-054, Column 12b Organic Nitrogen in lbs./dry ton.

$$\frac{\text{Lbs. Org N}}{\text{Dry Ton}} \times \text{_____ Dry Tons Applied} = \frac{\text{Organic Nitrogen}}{\text{Acre}}$$

Land Application Records Worksheet

Form 3400-056 (R 10/04)

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C. Total Residual Nitrogen Available

Column	1	2	3	4	5
Year of Application	*% Organic Nitrogen of Sludge	Multiply by This Column	Product of Columns 1 & 2	**Multiply Total Dry Tons of Sludge Per Acre Applied	Residual N Available for Current Year (lbs./Acre)
1 Year Ago		X 1.8	=	X	=
2 Years Ago		X 0.8	=	X	=
				TOTAL	

* Org-N = % TKN - % NH_4^+ -N as shown on the Agricultural Site Worksheet, Form 3400-054, Column 2.

** Obtain from this form in previous year(s) - from Part I, B, total dry tons per acre applied.

D. Nitrogen made available to the crop (from A, B, and C above).

N made available = _____ NH_4^+ -N + _____ Organic N + _____ Residual N = _____ Lbs./Acre

Insert this value into Column 10 of the Annual Land Application Report, Form 3400-055.

Part III – Calculation of Metals Added With Sludge

A. Calculation Table

Column	1	2	3	4	5	6
Metal	Sludge Concentration mg/kg (from Form 3400-049)	Dry Tons/Acre of Sludge Applied (from Part I, B)	Constant	Lbs./Acre of Metal	Previous Metal Loading Lbs./Acre (from previous year's form, column 6)	Cumulative Metals Loading
Arsenic		X	÷ 500	=	+	=
Cadmium		X	÷ 500	=	+	=
Copper		X	÷ 500	=	+	=
Lead		X	÷ 500	=	+	=
Mercury		X	÷ 500	=	+	=
Molybdenum		X	÷ 500	=	+	=
Nickel		X	÷ 500	=	+	=
Selenium		X	÷ 500	=	+	=
Zinc		X	÷ 500	=	+	=