



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mike Braun
Governor

Clint Woods
Commissioner

June 18, 2025

VIA E-MAIL: pseger63@gmail.com

Patoka Lake Regional Water and Sewer District Corp
Attn: Mr. Patrick A Seger, President of the Board of Directors
2647 North S.R. 545
Dubois, Indiana 47527-9750

Re: Hybrid Biosolids Land Application Permit
Renewal No. IN LA 000052
Patoka Lake Regional Water and Sewer District Corp.
Dubois County

Dear Mr. Seger:

The Patoka Lake Regional Water and Sewer District Corp's Land Application Permit Renewal is approved. This permit allows you to dispose of biosolids by land application. You, the permittee, must follow Indiana's rules for land application (327 IAC 6.1) and the terms of this permit. Your attention to the requirements for managing biosolids protects public health and the environment in your community.

This permit becomes effective upon issuance, unless stayed through an appeal action. The permit will expire on **May 31, 2035**. To operate past this date, you must submit a complete renewal application on or before **December 2, 2034**. Failure to do so will allow the permit to expire. Land applying biosolids without a valid permit is prohibited.

IDEM may modify or revoke this permit for cause including, but not limited to:
1) violation of any terms or conditions of this permit; 2) obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; 3) a change in any condition which requires either a temporary or permanent reduction or termination of the authorized land application; or 4) a change in standards pursuant to Section 405(d) of the Clean Water Act, if the standards when promulgated contain different conditions, are otherwise more stringent, or control pollutants not addressed by this permit.

This permit may not be transferred to any person except after notice required by 327 IAC 6.1-3-5.

The permittee must allow an authorized representative of IDEM, upon the presentation of credentials, to enter the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit, and at reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring equipment or monitoring method required in this permit, and to sample any discharge of pollutants.

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!



Public records for your facility are available in IDEM's Virtual File Cabinet at <http://vfc.idem.in.gov/>. Documents related to this approval can be found by selecting the "Solid Waste Program ID" in the "Quick Search" field (in the upper right-hand corner of the page) then enter your permit number, 000052. You may narrow your search to permit related documents by clicking on the down arrow next to "IDEM Document Type" and select "OLQ Permit".

You can review the Indiana Code (IC) and the Indiana Administrative Code (IAC) references in this document at iga.IN.gov. IC references are under the "Laws" link; IAC references are under the "Publications" link.

This permit does not: convey any property rights, either real or personal, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights or infringement of Federal, State, or local laws. It is the responsibility of the permittee to comply with any local laws regulating land application that contain requirements more stringent than those imposed by this permit.

If you wish to appeal this decision, you must file a Petition for Administrative Review. The enclosed Appeal Procedures document notifies you of additional important details regarding the appeal process and your rights and responsibilities for filing an adequate and timely appeal.

If you have any questions, please contact Nick Meulen, the environmental manager assigned to your permit, at (317) 233-2412 or NMeulen@idem.IN.gov.

Sincerely,



Brenda Stephanoff, Chief
Solid Waste Permits Section
Office of Land Quality

BES:NCM

Enclosure: Appeal Procedures

cc: Joshua Walker, Certified Operator
Crawford, Dubois, and Orange County Health Departments
Crawford, Dubois, and Orange County Plan Commissions
Crawford, Dubois, and Orange County Commissioners
Crawford, Dubois, and Orange County Solid Waste Management Districts
Landowners

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PROHIBITIONS, LIMITS AND RESTRICTIONS

You, the permittee, must comply with 327 IAC 6.1 and the following prohibitions, limits and restrictions:

SECTION A. LAND APPLICATION PROGRAM RESTRICTIONS

A.1. PERMIT ACCESSIBILITY

Reference: 327 IAC 6.1-4-17(d)

You must retain a copy of this permit at the wastewater treatment plant.

A.2. APPROVED MATERIAL

Reference: 327 IAC 6.1-2-7

The only material approved for land application under this permit is aerobically digested biosolids generated by your wastewater treatment facility through the process described in your permit application.

A.3. CERTIFIED OPERATOR

Reference: 327 IAC 6.1-4-3(a)

A certified wastewater treatment plant operator or approved equivalent must supervise all land application of biosolids.

Within 30 days after a change in supervising operators, you must submit written notification to the Land Application Program of the name of the new operator and either their license number or a signed affidavit demonstrating at least one year of experience in land application management practices.

A.4. DISCHARGES FROM LAND APPLICATION OPERATIONS

Reference: 327 IAC 6.1-3-3

You are prohibited from allowing biosolids to discharge into surface waters or ground water from a land application operation except under a valid National Pollutant Discharge Elimination System (NPDES) permit issued in accordance with 327 IAC 5.

A.5. SURFACE APPLICATION RESTRICTION

Reference: 327 IAC 6.1-4-15(b)(9) and (10)

To reduce vector attraction, surface applying biosolids is prohibited. All biosolids must be subsurface injected or incorporated within six hours after application.

A.6. NONSITE-SPECIFIC COUNTIES

Reference: 327 IAC 6.1-4-5.5

You may select and use nonsite-specific land application sites in the following counties only:

Crawford, Dubois, Orange

A.7. NONSITE-SPECIFIC SITES

Reference: 327 IAC 6.1-4-5(d)(3)

You may only select and use sites defined as agricultural land. Agricultural land is land used to produce a food crop, feed crop, or fiber crop; the production of trees for harvest; or pasture for animals to graze. Land application is prohibited on land used for other purposes.

A.8. SITE-SPECIFIC SITES

Reference: 327 IAC 6.1-4-5.5

The following sites located in Dubois County are approved for land application as site-specific application sites.

SITE ID	OWNER	ACRES	RANGE	TOWNSHIP	SECTION	CIVIL TOWNSHIP
DH1	HEEKE, BRUCE	18.40	03W	01S	18 & 19	HALL
DH2	HEEKE, TERRENCE	12.00	03W	01S	19	HALL
DH3	HEEKE, TERRENCE	12.00	03W	01S	19	HALL
DH4	HEEKE, BRIAN	31.00	04W	01S	13	MARION
H1	JAMES HASENOUR, GEORGE HASENOUR, PHILIP VAN KERSEN, ELIZABETH FRANZINI	44.00	03W	01S	17	HALL
PL1	PATOKA LAKE RWSD	3.50	03W	01S	17	HALL
PL2	PATOKA LAKE RWSD	3.00	03W	01S	17	HALL
PL3	PATOKA LAKE RWSD	2.50	03W	01S	17	HALL
PL4	PATOKA LAKE RWSD	1.50	03W	01S	17	HALL

SECTION B. LAND APPLICATION SITE RESTRICTIONS

B.1. SETBACKS

Reference: 327 IAC 6.1-4-5(d) and 6(a)

You must comply with the following setbacks when land applying biosolids on nonsite-specific sites:

	SUBSURFACE INJECTION or INCORPORATION
SURFACE WATERS OR THE SURFACE CONDUIT TO A SUBSURFACE FEATURE	33 feet
RESIDENCE (unless waived in writing)	660 feet*
ANY WELL	50 feet
POTABLE WELL	200 feet
PUBLIC BUILDING OR PUBLIC OR NONPUBLIC SCHOOL	660 feet

You must comply with the following setbacks when land applying biosolids on site-specific sites:

	SUBSURFACE INJECTION	INCORPORATION
SURFACE WATERS OR THE SURFACE CONDUIT TO A SUBSURFACE FEATURE	33 feet	33 feet
RESIDENCE (unless waived in writing)	Up to property line	300 feet*
ANY WELL	50 feet	50 feet
POTABLE WELL	200 feet	200 feet
PUBLIC BUILDING OR PUBLIC OR NONPUBLIC SCHOOL	50 feet of property line	50 feet of property line

* The setback distance from a residence may be reduced if a waiver is obtained from the residence owner and, if applicable, tenant of the residence. Waivers must be obtained prior to land application and for each year in which biosolids are proposed to be applied at distances less than the distance listed in the tables above from the residence.

B.2. SLOPE

Reference: 327 IAC 6.1-4-6(c)

You must comply with the following maximum slope restrictions when land applying biosolids:

	INJECTION	INCORPORATION
LIQUID	18%	6%
DEWATERED	NA	18%

B.3. BEDROCK

Reference: 327 IAC 6.1-4-6(d)

You must not apply biosolids to land that has less than 20 inches of soil overlying bedrock.

B.4. SOIL pH

Reference: 327 IAC 6.1-4-6(e), (f) and (g)

To determine the soil pH value, you must sample the soil to the depth of cultivation or depth of biosolids placement, whichever is greater. You must collect one representative composite sample for every 25 acres, or fraction thereof, within the application site. You must have the samples analyzed by the electrometric method. Soil analyses must be no more than two years old at the time of land application.

The soil pH must be 5.5 standard units or greater at the time biosolids are applied.

B.5. CROP MANAGEMENT

Reference: 327 IAC 6.1-4-7(a) through (f)

Food crops, feed crops, and fiber crops, whose edible parts do not touch the surface of the soil, must not be harvested until 30 days after biosolids application. Such crops include corn, hay, small grains and soybeans.

Food crops with harvested parts that touch the biosolids/soil mixture and are completely above the ground must not be harvested until 14 months after application of biosolids. Such crops include melons, tomatoes, cabbage, lettuce, cucumbers and strawberries.

Food crops with harvested parts below the land surface where biosolids remain on the land surface for less than four months prior to incorporation must not be harvested until 38 months after biosolids application. Such crops include potatoes, peanuts, onions, turnips and beets.

Turf grown on land where biosolids are applied must not be harvested until one year after application of the biosolids if the harvested turf is placed on land with a high potential for public exposure.

B.6. PASTURE AND GRAZING

Reference: 327 IAC 6.1-4-7(e) and (n)

Grazing of animals on land where biosolids are applied must be restricted until 30 days after application of biosolids.

Biosolids with a concentration of molybdenum greater than 40 milligrams per kilogram must not be applied to pasture.

B.7. APPLICATION SITE ACCESS

Reference: 327 IAC 6.1-4-7(g) and (h)

Access to land with a high potential for public exposure must be restricted for one year after biosolids application.

Access to land with a low potential for public exposure must be restricted for 30 days after biosolids application.

B.8. ENDANGERED SPECIES

Reference: 327 IAC 6.1-4-7(i)

You must not apply biosolids to the land if the biosolids are likely to adversely affect a threatened or endangered species or its designated critical habitat or in violation of endangered species regulations at IC 14-22-34.

B.9. HISTORIC PRESERVATION

Reference: IC 14-21-1

You must not apply biosolids to the land in violation of historic preservation requirements at IC 14-21-1.

B.10. MOISTURE HOLDING CAPACITY

Reference: 327 IAC 6.1-4-7(k)

You must not apply biosolids to the land if the moisture holding capacity of the soil is exceeded.

B.11. ALTERNATIVE USES

Reference: 327 IAC 6.1-4-20

You may apply up to one dry ton of dewatered biosolids to your treatment works grounds during any 12-month period. You must not apply on land with a high potential for public exposure and must otherwise comply with this permit.

SECTION C. STORAGE

C.1. STAGING

Reference: 327 IAC 6.1-4-8(f)

You may stage dewatered biosolids on land application sites for up to 24 hours; however, you must conduct your land application operation to minimize staging. You must not stage more biosolids on a site than can be applied to that site within 24 hours after placement. When staging biosolids, you must comply with the following setbacks:

	SETBACK
SURFACE WATERS OR THE SURFACE CONDUIT TO A SUBSURFACE FEATURE	300 feet
RESIDENCE (unless waived in writing)	660 feet
POTABLE WELL/DRINKING WATER SPRING	200 feet

You must not stage biosolids on any area with a slope greater than two percent unless applied by the end of the same day.

You must not stage biosolids in a flood plain unless applied by the end of the same day.

If biosolids will remain staged for longer than 24 hours due to unforeseen circumstances, such as an extreme weather event or equipment failure, you must completely cover the biosolids with a tarp or plastic sheet. Alternatively, if not covered, you must apply the biosolids or move them to an approved storage site within 48 hours after staging began. Following such events, you must submit written notification to the Land Application Program within seven days. This notification must include the date the staging began, the reason staging exceeded 24 hours, and the date of removal.

C.2. STOCKPILING

Reference: 327 IAC 6.1-4-8(e)

You must not stockpile biosolids on any land application site.

C.3. STORAGE

Reference 327 IAC 6.1-4-8(a) through (d)

You must maintain at least 90 days of effective storage capacity for biosolids.

Except for earthen lagoons, any storage structures, such as pits or tanks, which are subject to volume fluctuations due to precipitation events, must have a minimum of one foot of freeboard at all times.

You must not store a fixed volume of biosolids for land application in a storage structure for more than two years.

C.4. STORAGE STRUCTURES

Reference: 327 IAC 6.1-8

You must construct and maintain biosolids storage structures as required in 327 IAC 6.1-8 unless otherwise approved under a wastewater treatment plant permit issued under 327 IAC 3, a solid waste processing facility permit issued under 329 IAC 11, or a solid waste land disposal facility permit issued under 329 IAC 10.

SECTION D. POLLUTANT CONCENTRATION LIMITS

D.1. HEAVY METALS

Reference: 327 IAC 6.1-4-9(c) and (g)

You must not land apply biosolids containing concentrations of pollutants exceeding the following limits. Refer to the related monitoring and analysis requirements in Section G.

POLLUTANT	LIMIT mg/kg DRY WEIGHT BASIS
ARSENIC	41
CADMIUM	39
COPPER	1,500
LEAD	300
MERCURY	17
MOLYBDENUM	75
NICKEL	420
SELENIUM	100
ZINC	2,800

If any pollutant exceeds the specified limit, you must complete one of the following:

- Within 90 days after first learning of the exceeded limit, you must modify this permit by applying for a site-specific permit.
- Within 45 days after first learning of the exceeded limit, you must resample the biosolids and analyze the samples for the pollutants that exceeded a limit. If managing a fixed volume of biosolids, you must collect at least four representative samples within a 30-day period. If the biosolids are not a fixed volume, you must collect the four samples at least two days apart within a 30-day period. If the average of the analytical results for the four samples is less than the applicable limit, the biosolids may then be land applied. If the average of the analytical results for the four samples exceeds the applicable limit, you may land apply the biosolids to a site-specific application site, but only if the average does not exceed the applicable ceiling limit found in Table 1 at 327 IAC 6.1-4-9(a). In the latter case, you must apply to modify this permit by applying for a site-specific permit within 60 days after receiving the results of the analyses.

D.2. PCBs

Reference: 327 IAC 6.1-4-12

You must not land apply biosolids containing concentrations of polychlorinated biphenyls (PCBs) of 2 mg/kg or greater on a dry weight basis.

SECTION E. APPLICATION AND LOADING RATES

E.1. CROP APPLICATION RATES

Reference: 327 IAC 6.1-4-10(a)(1) and (b)

You must apply biosolids at rates that do not exceed the following Plant Available Nitrogen (PAN) loading rates, calculated using the formulas below:

CROP	POUNDS OF PAN PER ACRE*
CORN	200
SOYBEANS	100
HAY / PASTURE	100
CEREAL GRAIN	100
SET ASIDE / IDLE	50

* You must adjust the PAN application rate for the proposed crop to account for application of fertilizers, manure, and the presence of residual available nitrogen in the soil from previous applications of biosolids, industrial waste product, or pollutant-bearing water.

GENERAL FORMULAS

Gallons X 8.34 = Pounds

Pounds / 2000 = Wet Tons (as generated/truck tons)

Wet Tons X Percent Total Solids (decimal form) = Dry Tons

Wet Weight (mg/l or ppm) / Percent Total Solids (decimal form) = Dry Weight (mg/kg)

Dry Weight / 10,000 = Percent Dry Weight

Crop Need / PAN per Dry Ton = Dry Tons Per Acre

NITROGEN CALCULATION FORMULAS

GENERAL CALCULATIONS

- % Total Nitrogen = % Total Kjeldahl Nitrogen + % Nitrate Nitrogen
- % Organic Nitrogen = % Total Nitrogen - (% Ammonia Nitrogen + % Nitrate Nitrogen)

PAN CALCULATION FOR AEROBIC BIOSOLIDS

- Pounds Organic Nitrogen per dry ton = % Organic Nitrogen X 6
- Pounds of Ammonia Nitrogen per dry ton = % Ammonia Nitrogen X 20
- Pounds of Nitrate Nitrogen per dry ton = % Nitrate Nitrogen X 20
- Pounds PAN per dry ton = Pounds of Organic Nitrogen per dry ton + Pounds of Ammonia Nitrogen per dry ton + Pounds of Nitrate Nitrogen per dry ton

RESIDUAL NITROGEN CALCULATION FOR AEROBIC BIOSOLIDS

- Pounds of Residual Nitrogen available one year after application =
% Organic Nitrogen X 3 X dry tons applied per acre
- Pounds of Residual Nitrogen available two years after application =
% Organic Nitrogen X 1.6 X dry tons applied per acre
- Pounds of Residual Nitrogen available three years after application =
% Organic Nitrogen X 0.8 X dry tons applied per acre

E.2. ANNUAL POLLUTANT LOADING RATES *Reference: 327 IAC 6.1-4-10(a)(2)*

You must apply biosolids at rates that do not exceed the following Annual Pollutant Loading Rates, calculated using the formula below:

POLLUTANT	ANNUAL POLLUTANT LOADING RATE (pounds per acre per 365-day period)
ARSENIC	1.8
CADMIUM	0.45
COPPER	66.0
LEAD	13.4
MERCURY	0.7
MOLYBDENUM	Not applicable
NICKEL	18.7
SELENIUM	4.4
ZINC	124.9

Use the following formula to calculate the maximum amount of biosolids to be applied per acre per 365-day period:

$$ALR = \frac{APLR}{C \times 0.002}$$

Where

ALR = Annual loading rate in dry tons per acre per 365-day period (dry tons of biosolids per acre per year).

APLR = Annual pollutant loading rate in pounds per acre per 365-day period from table (pounds per acre per year).

C = Pollutant concentration in mg/kg (mg of pollutant per kg of biosolids dry weight)

SECTION F. PATHOGEN AND VECTOR ATTRACTION REDUCTION RESTRICTIONS

F.1. PATHOGEN REDUCTION ALTERNATIVES *Reference: 327 IAC 6.1-4-13 and 14*

You must achieve pathogen reduction by documenting the geometric mean of the density of fecal coliform in the biosolids does not exceed 2,000,000 most probable number (MPN) per gram of total solids or 2,000,000 colony-forming units (CFU) per gram of total solids.

F.2. VECTOR ATTRACTION REDUCTION OPTIONS

Reference: 327 IAC 6.1-4-15

You must achieve vector attraction reduction by one of the following options:

- Inject biosolids below the surface of the land such that no significant amount of biosolids are present on the land surface within one hour after the biosolids are injected.
- Incorporate biosolids applied to the land surface into the soil within six hours after application to or placement on the land.

SECTION G. MONITORING AND ANALYSIS

G.1. TOTAL SOLIDS

Reference: 327 IAC 6.1-4-16(d)

During each day of land application, you must monitor biosolids that are to be applied to the land for percent total solids.

G.2. NUTRIENTS

Reference: 327 IAC 6.1-4-16(i) and (j)

For each 30-day period that biosolids are applied, you must collect a composite sample of the biosolids and have it analyzed for the parameters listed below. The resulting analyses must be reported on both a wet weight and dry weight basis.

Composite samples must represent the biosolids applied. Collecting and preserving a small sample from each load or from each day of application is an acceptable procedure for collecting this composite sample. At the end of the application period, these samples are combined and blended. The sample to be sent to the laboratory is taken from this blend.

CATEGORY	PARAMETERS	REFERENCE METHOD
	Percent Total Solids	Dry at 103 to 105 °C
NUTRIENTS	Total Nitrogen	EPA-600/4-79-020 (351) *
	Ammonia Nitrogen	EPA-600/4-79-020 (350) or SM 4500 NH3-D**
	Nitrate Nitrogen	EPA-600/4-79-020 (300 or 352) or SM 4500 NO3-D**
	Phosphorus	EPA-600/4-79-020 (365) or SW 846-6010**
	Potassium	EPA-600/4-79-020 (200) or SW 846-6010**

* Total Nitrogen is a calculated value obtained by adding Total Kjeldahl Nitrogen and Nitrate Nitrogen.

** Approved Equivalent Method – You are approved to analyze Ammonia Nitrogen using SM 4500 NH3-D, Nitrate Nitrogen using SM 4500 NO3-D, and Phosphorus and Potassium using SW 846-6010.

G.3. HEAVY METALS

Reference: 327 IAC 6.1-4-16(e) and (f)

Before land application, a representative sample of the biosolids that are to be applied to the land must be collected and analyzed for the parameters listed below. The laboratory report must be received from the laboratory before land application takes place and indicate results on both a wet weight and dry weight basis.

CATEGORY	PARAMETERS	REFERENCE METHOD
	Percent Total Solids	Dry at 103 to 105 °C
TOTAL HEAVY METALS	Arsenic	EPA/600/4-91/010 (200) or SW 846
	Cadmium	EPA/600/4-91/010 (200) or SW 846
	Copper	EPA/600/4-91/010 (200) or SW 846
	Lead	EPA/600/4-91/010 (200) or SW 846
	Mercury	EPA/600/4-91/010 (245) or SW 846
	Molybdenum	EPA/600/4-91/010 (200) or SW 846
	Nickel	EPA/600/4-91/010 (200) or SW 846
	Selenium	EPA/600/4-91/010 (200) or SW 846
	Zinc	EPA/600/4-91/010 (200 or 289) or SW 846

If the results of the above sample meet the criteria listed in Section D.1. of this permit, the results are valid for reporting land application activity based on the volume generated within a 365-day period as indicated in the table below.

VOLUME (in dry tons)	FREQUENCY/NUMBER OF SAMPLES
>0 but <319	365 days / 1 sample per year
>319 but <1,653	90 days / 4 samples per year
>1,653 but <16,530	60 days / 6 samples per year
>16,530	30 days / 12 samples per year

G.4. PATHOGEN AND VECTOR ATTRACTION REDUCTION

Reference: 327 IAC 6.1-4-16(e) and (f)

Before land application, you must document pathogen reduction by collecting seven representative samples of the biosolids and have each sample analyzed for fecal coliform using Standard Methods 18th Edition, Part 9221 E or Part 9222 D. Samples must be collected within a 14-day period and each sample analyzed within 24 hours of collection. The laboratory report must indicate results on both a wet weight and dry weight basis.

If the results of the above samples meet the criteria listed in Section F.1. of this permit, the results are valid for reporting land application activity based on the volume generated within a 365-day period as indicated in the table in G.3. above.

For each month in which land application occurs, you must complete the pathogen and vector attraction reduction (preparer and applier) certification statements indicating pathogen and vector attraction reduction is achieved (or not achieved) and the method(s) used to document pathogen and vector attraction reduction.

G.5. MAXIMUM DETECTION LIMITS

Reference: 327 IAC 6.1-4-9(e)

The following maximum detection limits apply when analyzing biosolids that have total solids of one percent or greater:

POLLUTANT	MAXIMUM DETECTION LIMIT mg/kg DRY WEIGHT BASIS
ARSENIC	2
CADMIUM	10
COPPER	Not applicable
LEAD	10
MERCURY	2
MOLYBDENUM	10
NICKEL	10
SELENIUM	2
ZINC	Not applicable

SECTION H. RECORD KEEPING AND REPORTING

H.1. RECORD KEEPING

Reference: 327 IAC 6.1-4-17

The person who applies the biosolids must create the following records for each day on which biosolids land application occurs:

- the location, indicated on a site map, on each site where biosolids were applied;
- the number of acres in each site to which biosolids were applied;
- the date biosolids were applied to each site;
- the amount of biosolids in dry tons applied to each site;
- a description of how the site restrictions and the management practices were met for each site on which biosolids are applied; and
- if vector attraction reduction requirements are met by injection or incorporation, a certification statement indicating the vector attraction reduction requirements were met and a description of how the vector attraction reduction requirements were met.

You must retain the following records for at least five years:

- the results of analyses required by this permit;
- a description of how the site restrictions and the management practices were met for each site on which biosolids are applied;
- certification statements indicating the pathogen reduction requirements were met;
- a description of how the Class B pathogen reduction requirements were met;
- certification statements indicating the vector attraction reduction requirements were met; and
- a description of how the vector attraction reduction requirements were met.

You must create the following records and retain them indefinitely:

- The cumulative amount of each of the following pollutants in pounds per acre that have been applied to each application site by the permittee:

Arsenic	Lead	Selenium
Cadmium	Mercury	Zinc
Copper	Nickel	

- A description of how the cumulative amount of each pollutant listed above was determined.
- The location, indicated on a site map, on each site where biosolids were applied; the number of acres on each site to which biosolids were applied; the date biosolids were applied to each site; and the amount of biosolids, in dry tons, applied to each site, provided by the person who applies the biosolids.

H.2. REPORTING

Reference: 327 IAC 6.1-4-18

You must submit monthly reports to the Solid Waste Permits Section within 30 days after the last day of each calendar month for the term of the permit. Submit all reports to LAReports@idem.IN.gov.

For each month during which no land application occurs, you must submit one Land Application Monthly Report form or e-mail indicating no biosolids disposal or summarizing any other disposal methods you used.

For each month during which land application occurs, the monthly report must include:

- a Land Application Monthly Report form summarizing all biosolids disposal that month,

- a Land Application Site Activity Report for each application site used,
- a Land Application Site-Use Map for each application site used,
- any set-back waivers obtained from neighboring residences,
- soil pH adjustment documentation (at the time of adjustment),
- a copy of each analysis of biosolids and soil used to prepare the report, and
- pathogen and vector attraction reduction documentation including certification statements.

For each application site not listed in this permit and used for the first time after the effective date of this permit, the monthly report must include:

- an Application Site Information Form,
- an Application Site Land-Use Agreement,
- a USDA NRCS Soil Survey map detailing the location and boundaries of the application site, and
- a soil analysis.

You must notify the Solid Waste Permits Section of the cumulative application on a land application site of any metal in a quantity equal to or greater than 90% of the following within 30 days after any of these levels are reached:

POLLUTANT	CUMULATIVE POLLUTANT LOADING RATE (pounds per acre)
ARSENIC	36
CADMIUM	34
COPPER	1338
LEAD	267
MERCURY	15
MOLYBDENUM	Not applicable
NICKEL	374
SELENIUM	89
ZINC	2499

Based on prior reports submitted to IDEM, the following table reflects cumulative loading values, in pounds per acre, to each site used by this facility as of the date indicated, which is the last date land application occurred on that particular site. Loadings by other facilities using these sites are not included in these values.

SITE ID	As	Cd	Cu	Pb	Hg	Ni	Se	Zn	Date
DH1	0.062	0.141	8.380	0.528	0.020	0.679	0.042	17.798	3/21/2024
DH2	0.023	0.035	6.041	0.241	0.034	0.473	0.032	9.092	3/25/2024
DH4	0.022	0.078	5.392	0.350	0.008	0.403	0.025	10.447	10/9/2024
G1	0.003	0.012	0.483	0.045	0.000	0.027	0.000	1.035	5/1/2000
G2	0.002	0.035	0.579	0.089	0.000	0.069	0.000	2.704	11/11/1999
H1	0.063	0.098	7.355	0.440	0.023	0.791	0.041	12.770	4/13/2023
PL1	0.247	0.275	23.196	2.130	0.168	3.095	0.242	46.474	10/8/2024
PL2	0.328	0.447	30.517	2.889	0.208	5.628	0.295	62.624	10/9/2024
PL3	0.149	0.436	26.488	2.122	0.157	2.806	0.128	56.705	10/10/2024
PL4	0.058	0.062	4.182	0.702	0.092	0.466	0.036	8.688	9/13/2019