



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

June 27, 2024

VIA E-MAIL: Jab@bcisolutions.com

BCI Solutions, Inc.

Attn: Jordan Brown, Executive Vice President

500 North Baltimore Street

Bremen, Indiana 46506

Re: Industrial Waste Product Marketing and Distribution
Permit No. IN LA 000916
BCI Solutions, Inc., Marshall County

Dear Mr. Brown:

BCI Solutions, Inc's Marketing and Distribution Permit is approved. This permit allows you to market and/or distribute an industrial waste product. You, the permittee, must follow Indiana's rules for marketing and distribution (327 IAC 6.1) and the terms of this permit. Your attention to the requirements for managing industrial waste products 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, 2029**. To operate past this date, you must submit a complete renewal application on or before **December 2, 2028**. Failure to do so will allow the permit to expire. Marketing or distribution of industrial waste products 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 marketing and/or distribution; 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



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We appreciate your input!



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.

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, 000916. 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 Morrighan O'Connell, the environmental manager assigned to your permit, at (317) 232-3362 or moconnel@idem.IN.gov.

Sincerely,



Brenda Stephanoff, Senior Environmental Manager
Solid Waste Permits Section
Office of Land Quality

BES:mro

Enclosure: Appeal Procedures
Report Submittal Guide

cc: John Kolar, Environmental Manager
Marshall County Health Department
Marshall County Plan Commission
Marshall County Solid Waste Management District

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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. MANAGEMENT PLAN

Reference: 327 IAC 6.1-5-3(a)

Your management plan, received on February 9, 2024, as part of your permit application and additional information received on May 24, 2024, and June 3, 2024, is approved. You must follow your management plan. If you need to make changes to your management plan, you must submit an application to modify your permit to the Solid Waste Permits Section.

SECTION B. APPROVED MATERIAL

Reference: 327 IAC 6.1-2-7

The only material approved for marketing and distribution under this permit is granulated cupola slag generated through the process described in your permit application.

SECTION C. USER INFORMATION SHEET

Reference: 327 IAC 6.1-5-4(a)(2) and (3)

You must develop and distribute a user information sheet to all users of industrial waste products marketed or distributed under the authority of this permit. You must update the user information sheet quarterly and include:

- the name and address of the person who prepared the industrial waste products that are marketed and/or distributed for application to the land;
- a statement that application of the industrial waste products is prohibited, except in compliance with the instructions on the information sheet;
- quality criteria based on current analytical data for the industrial waste products;
- recommended maximum application rates;
- for the information sheet for industrial waste products containing more than 2 milligrams per kilogram cadmium, a statement that the soil pH must be at least 6.5 when applied to land for food crops;
- for the information sheet for industrial waste products containing more than 40 milligrams per kilogram of molybdenum, a statement that the industrial waste products must not be applied to pasture.

SECTION D. POLLUTANT CONCENTRATION LIMITS

D.1. HEAVY METALS

Reference: 327 IAC 6.1-5-1(3)

You must not market or distribute industrial waste products containing concentrations of pollutants exceeding the following limits. Refer to the related monitoring and analysis requirements in Section E.

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

D.2. PCBs

Reference: 327 IAC 6.1-5-1(5)

You must not market or distribute industrial waste products containing concentrations of polychlorinated biphenyls (PCBs) of 2 mg/kg or greater on a dry weight basis.

SECTION E. MONITORING AND ANALYSIS

E.1. NUTRIENTS AND HEAVY METALS

Reference: 327 IAC 6.1-5-4(b)

You must collect a representative sample(s) of the industrial waste product that is to be marketed and/or distributed and have it analyzed for the parameters listed below. The laboratory report must be received from the laboratory before marketing and/or distribution takes place or prior to the previous results expiring. All results must be reported on both a wet weight and dry weight basis. If the results of the sample meet the criteria listed in Section D.1. of this permit:

- You must collect five samples representing the 4000 dry tons of the stockpiled slag or collect samples every 60 days until you have a total of six samples (including the sample previously collected and submitted in the application packet).

- Once the stockpile has been distributed, sampling can be reduced to every 90 days based on the annual volume generated of less than 1,653 dry tons per year. The results are valid for reporting marketing and distribution activity for 90 days following the sample report date.

CATEGORY	SPECIFIC 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) **
	Nitrate Nitrogen	EPA-600/4-79-020 (300, 352 or 353) **
	Phosphorus	EPA-600/4-79-020 (365) **
	Potassium	EPA-600/4-79-020 (200) **
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
	PCBs	

* 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 Standard Methods for the Examination of Water and Wastewater method 4500-NH3BC, Nitrate Nitrogen using SW 846 9056A, and Phosphorus and Potassium using SW 846 3050B/6010C/6020A.

SECTION F. RECORD KEEPING AND REPORTING

F.1. RECORD KEEPING

Reference: 327 IAC 6.1-5-4(c)

You must generate and maintain the following records for a minimum of five years:

- the results of analyses required by this permit,
- copies of all written notifications for non-complying uses of the industrial waste products that have been sent to users,
- the name and address of recipients of more than one dry ton per calendar quarter

F.2. REPORTING

Reference: 327 IAC 6.1-5-4(a)(5)

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 via e-mail to LAREports@idem.IN.gov.

For each month during which no marketing and/or distribution occurs, you must submit one report form or e-mail indicating no activity.

For each month during which marketing and/or distribution occurs, the report must include:

- the quantity of industrial waste product marketed or distributed,
- a copy of the information sheet distributed with the industrial waste product, and
- a copy of each analysis of the industrial waste product used to prepare the report.

APPEAL PROCEDURES

If you wish to challenge this decision, IC 13-15-6-1 and IC 4-21.5-3-7 require that you file a Petition for Administrative Review. If you seek to have the effectiveness of the permit stayed during the Administrative Review, you must also file a Petition for Stay. The Petition(s) must be submitted to the Office of Environmental Adjudication (OEA) at the following address within 15 days of the date of this Notice (18 days if you are receiving this notice by U.S. Mail):

Office of Environmental Adjudication
Indiana Government Center North, Room N103
100 North Senate Avenue
Indianapolis, IN 46204

The Petition(s) must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision, or otherwise entitled to review by law. Identifying the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, or date of this notice will expedite review of the petition. Additionally, IC 13-15-6-2 and 315 IAC 1-3-2 require that your Petition include:

1. the name and address of the person making the request;
2. the interest of the person making the request;
3. identification of any persons represented by the person making the request;
4. the reasons, with particularity, for the request;
5. the issues, with particularity, for the request;
6. identification of the permit terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing permits of the type granted or denied by the Commissioner's action; and
7. a copy of the pertinent portions of the permit, decision, or other order for which you seek review, at a minimum, the portion of the Commissioner's action that identifies the person to whom the action is directed and the identification number of the action.

Pursuant to IC 4-21.5-3-1(f), any document serving as a petition for review or review and stay must be filed with the OEA. Filing of such a document is complete on the earliest of the following dates:

1. the date on which the petition is delivered to the OEA;
2. the date of the postmark on the envelope containing the petition, if the petition is mailed by United States mail; or
3. the date on which the petition is deposited with a private carrier, as shown by a receipt issued by the carrier, if the petition is sent by private carrier.

Pursuant to IC 4-21.5-3-17, the OEA will provide you with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this decision if you submit a written request to the OEA at the above address. If you do not provide a written request to the OEA, you will no longer be notified of any proceedings pertaining to this decision.

SUBMITTAL OF REPORTS BY E-MAIL

The Land Application Program has an e-mail address for electronic submittal of your land application or marketing and distribution reports. Electronic submittal is OPTIONAL; paper reports by mail are still acceptable. You may send your reports electronically to:

LAREports@idem.IN.gov

Please do not submit any other correspondence to this address.

If No Disposal Activity Occurred

- You may submit your report in the form of an e-mail that states this fact.
- Please include the report month and year and your permit number in the e-mail subject line, such as “Jan 2015 report for INLA 000999”.
- In the body of your e-mail, please include:
 - 1) the name of the permitted facility,
 - 2) a statement that no disposal occurred, and
 - 3) the name of the person making the report.

If Any Type of Disposal Activity Occurred

- You may submit your report in the form of an e-mail with the appropriate completed and signed report form, in pdf format, attached to the e-mail.
- Please include the report month and year and your permit number in the e-mail subject line, such as “Jan 2015 report for INLA 000999”.
- You do not need to include any information in the body of the e-mail.

When a report is received by this e-mail account, you should receive a reply confirming its receipt. If you do not receive a reply within one or two business day, you may contact Brenda Stephanoff at (317) 233-0472 or bstephan@idem.IN.gov to verify receipt of your report. Please also contact Brenda if you need report forms.

Your previous reports, as well as other documents relating to your facility are available in the IDEM Virtual File Cabinet (VFC) at <http://vfc.idem.in.gov/>. A simple way to search for them is to select the “Full Text Search” field and enter your permit number, in the format of 000999 without the “INLA”. You may narrow the search to look for just reports by selecting “OLQ Report” as the Document Type. Reports from 2009 forward are, in most cases, available by month. Prior to 2009, reports are combined by year.

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

(PAN = plant available nitrogen using the formulas below)

(ex. Crop need of 200 lbs PAN/acre = 200 / 10.5 lbs PAN/dry ton = 19 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 - ANAEROBIC BIOSOLIDS

- Pounds Organic Nitrogen per dry ton = % Organic Nitrogen X 4
- 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 - ANAEROBIC BIOSOLIDS

- Pounds of Residual Nitrogen available one year after application = % Organic Nitrogen X 2 X dry tons applied per acre
- Pounds of Residual Nitrogen available two years after application = % Organic Nitrogen X dry tons applied per acre
- Pounds of Residual Nitrogen available three years after application = % Organic Nitrogen X 0.5 X dry tons applied per acre

PAN CALCULATION - AEROBIC BIOSOLIDS OR INDUSTRIAL WASTE PRODUCTS

- 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 - AEROBIC BIOSOLIDS OR INDUSTRIAL WASTE PRODUCTS

- 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

From: [Poe, Diane L](#)
To: jab@bcisolutions.com
Cc: jkolar@bcisolutions.com; philips@co.marshall.in.us; tadley@co.marshall.in.us; mpeters@myrecycledepot.org
Bcc: [Wolff, Brian](#); [Feller, Robin](#); [Kurylo, Leo](#); [Hummel, Lindsey](#); [Kreke, Thomas](#); [STEPHANOFF, BRENDA](#); [O'Connell, Morrighan](#); [Stettler, Cornelia](#); [Weingart, James](#); pearsonm@purdue.edu
Subject: BCI Solutions Inc., New Land Application Permit Approval
Date: Thursday, June 27, 2024 9:11:00 AM
Attachments: [062724 000916 Approval Ltr.pdf](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Attached is correspondence regarding the above property affecting Marshall County. A hardcopy **will not** be sent to the addressee.

If you have any questions, please contact Morrighan O'Connell, permit manager. Her contact information is in the last paragraph of page 2 above Ms. Stephanoff's signature block.



Indiana Department of
Environmental Management

Diane Poe
OLQ Permits Branch Administrative Assistant
• (317) 232-4473 • dpoe@idem.IN.gov

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From: [Microsoft Outlook](#)
To: jab@bcisolutions.com; jkolar@bcisolutions.com
Subject: Relayed: BCI Solutions Inc., New Land Application Permit Approval
Date: Thursday, June 27, 2024 9:11:23 AM
Attachments: [BCI Solutions Inc. New Land Application Permit Approval.msg](#)

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:
jab@bcisolutions.com (jab@bcisolutions.com) <<mailto:jab@bcisolutions.com>>
jkolar@bcisolutions.com (jkolar@bcisolutions.com) <<mailto:jkolar@bcisolutions.com>>
Subject: BCI Solutions Inc., New Land Application Permit Approval