



## Annual Composting Facility Report

July 1<sup>st</sup>, 2021 (Year) – June 30<sup>th</sup>, 2022 (Year)  
Due July 31<sup>st</sup>

County: Johnson Permit #: 52-DSP-01-72  
Responsible Official: Jennifer Jordan  
Facility Name: City of Iowa City Sanitary Landfill  
Address: 3900 Hebl Avenue SW  
City, State, Zip: Iowa City, IA 52246  
Please make address corrections as necessary

Send completed form to:  
**Theresa.Stiner@dnr.iowa.gov**  
Land Quality Bureau  
c/o Theresa Stiner  
502 E 9<sup>th</sup> St  
Des Moines IA 50319-0034

### REGISTERED FACILITIES ONLY: check the box that describes your facility

- ☐ Yard waste only (vegetative matter such as grass clippings, leaves, garden waste, brush, and trees)
- ☒ Food residuals singly or in combination with yard waste and/or agricultural waste (includes but is not limited to manure, crop residuals, bedding, and other vegetative by-products produced during farm processing. Dead animals are not included). Food waste and yard waste received from off premises is two tons or less per week. (If food waste and yard waste received from off premises is greater than two tons per week complete the Permitted Facilities section.)
- ☐ Dead farm animals and bulking agent only. Compost facility owner is owner of at least some of the sites where animals are generated. (If Compost facility owner does not own any of the sites where animals are generated or other materials are also composted complete the Permitted Facilities section.)

### PERMITTED FACILITIES ONLY: check types of materials accepted and provide tonnage

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Yard Waste                   | tonnage: <u>13,788</u>                   |
| <input checked="" type="checkbox"/> Wood (other than yard waste) | tonnage: <u>24 (most included above)</u> |
| <input type="checkbox"/> Agricultural waste                      | tonnage: _____                           |
| <input type="checkbox"/> Animal mortalities                      | tonnage: _____                           |
| <input type="checkbox"/> Sewage Sludge                           | tonnage: _____                           |
| <input type="checkbox"/> Industrial sludge                       | tonnage: _____                           |
| <input checked="" type="checkbox"/> Food residuals               | tonnage: <u>532</u>                      |
| <input type="checkbox"/> Paper                                   | tonnage: _____                           |
| <input type="checkbox"/> Other (specify): _____                  | tonnage: _____                           |

Total tonnage of material composted tonnage: 14,344

Total capacity of the facility (maximum tons that can be composted per year): tonnage: 11,500

**FINISHED COMPOST MARKETING OR USED.** Provide information about the amount of finished compost REMOVED from the Facility for the following uses. If you answer "yes" to any question, please provide tonnage information for this reporting period.

Amount of finished composted REMOVED from the Facility: 3,709 Tons/year

Is the finished Compost: (check all that apply)

- ☒ Sold 3,709 tons/year ☐ Given away 0 tons/year
- ☐ Used by your organization 0 tons/year

Is your product registered with the Iowa Department of Agriculture & Land Stewardship? ☒ Yes ☐ No

Questions? Call or email:

Theresa Stiner, Project Officer, [theresa.stiner@dnr.iowa.gov](mailto:theresa.stiner@dnr.iowa.gov), (515) 725-8315  
12/2021 cmc

**COMPOST FACILITY OPERATION INFORMATION.** In this section provide information as to how the composting facility operates.

What method/s of composting is employed at the facility

☒ Turned piles/windrows

☐ Aerated static piles/windrows

☐ Vermicompost

☐ In-vessel

☐ Other (please describe) \_\_\_\_\_

☐ Facility is enclosed

Has the facility operator taken and passed an approved composting course?

☒ Yes, has taken and passed a composting operator training course

☐ No, has **not** taken a composting operator training course

**PERMITTED COMPOSTING FACILITIES ONLY.** Each composting facility is required by IAC Chapter 105.9(4) to test its compost to make sure that the concentrations of all metals and fecal coliform or Salmonella sp. do not exceed regulated levels. Please attach a copy of the test results to this form, making sure that the applicable units (reference 105) are clearly recorded. All composting facilities are required to take biweekly temperature readings of compost piles, and weekly readings of moisture levels. Facilities are not required to report these readings on this annual form, but should keep this information on file to be referenced if necessary.

How often is the finished compost product analyzed?

☐ Never

☐ Monthly

☐ Twice a year

☒ Annually

☐ Other (please describe) \_\_\_\_\_

**CERTIFICATION**

I certify under penalty of law that I am the owner, operator, or authorized representative of the owner or operator and that I have examined and am familiar with the information reported above, and that I believe the information is true, accurate and complete.

Signature: \_\_\_\_\_

Date: 7-22-22

Name & agency of Person Certifying: Jennifer Jordan, Resource Management Superintendent

Email: jejordan@iowa-city.org

Phone Number: 319-887-6160

Additional Comments:

Please note we are waiting on the sample results from A-L Great Lakes Lab  
and will forward those on to DNR upon receipt.

Please note we are assessing operations and space to expand our capacity.

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12/2021 cmc



Jolly, Becky &lt;becky.jolly@dnr.iowa.gov&gt;

**Fwd: Iowa City FY22 annual compost report**

1 message

**Stiner, Theresa** <theresa.stiner@dnr.iowa.gov>

Fri, Jul 22, 2022 at 2:39 PM

To: Becky Jolly &lt;becky.jolly@dnr.iowa.gov&gt;

Can you include her email when you put this in doc DNA?

No action needed.

Thanks!

[iowadnr.gov](http://iowadnr.gov)

**THERESA STINER | Environmental Specialist Senior**  
Land Quality Bureau/Solid Waste and Contaminated Sites  
***Iowa Department of Natural Resources***  
**P: 515-725-8315**  
**502 E. 9th Street, Des Moines, IA 50319**



----- Forwarded message -----

From: **Jennifer Jordan** <JeJordan@iowa-city.org>

Date: Fri, Jul 22, 2022 at 1:34 PM

Subject: Iowa City FY22 annual compost report

To: [theresa.stiner@dnr.iowa.gov](mailto:theresa.stiner@dnr.iowa.gov) <[theresa.stiner@dnr.iowa.gov](mailto:theresa.stiner@dnr.iowa.gov)>Cc: Jolly, Becky <[becky.jolly@dnr.iowa.gov](mailto:becky.jolly@dnr.iowa.gov)>

Hi Theresa,

Attached please find the Fiscal Year 2022 annual compost facility report from the Iowa City Landfill and Recycling Center. I am out next week on vacation so I wanted to get this to you now. As noted, we are waiting on the sample analysis results from A&L Great Lakes Labs.

Also please note that we are over our permitted tonnage for 11,500 tons. We are actively working with SCS Engineers on a site plan that focuses in part on our compost operations and space; we expect to make some short-term changes in the next few months to facilitate receiving and processing more material. Once we have calculated an updated capacity based on the changes, I'll formally request to update our permitted tonnage. To be clear, no food waste/yard waste is stockpiled; we are processing the additional yard waste and food materials as normal and local demand for finished compost is strong. It's just really tight. The size of our finished compost pile is comparable to other years, even with a lot more material coming through the process.

We do have a large stockpile of wood chips which we are using internally (18,230 tons in FY22, some of which were from FY21 and the derecho) and giving away to customers( 2,078 tons in FY22). This is an ongoing challenge, as we informed Ryan Stouder at our last DNR inspection in late June. We are actively working on additional markets and processes for wood materials (DNR's urban lumber program, for example) and outlets for wood chips.

Please let me know if you have any questions.

Thank you!

Jen

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**Jennifer Jordan**

**Resource Management Superintendent**

319-887-6160

Iowa City Landfill and Recycling Center

[3900 Hebl Avenue SW](#)

[Iowa City, IA 52246](#)

## Disclaimer

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**ICLF FY22 compost report.pdf**

81K

Report Number  
F22195-6518  
Account Number  
42514



3505 Conestoga Dr.  
Fort Wayne, IN 46808  
260.483.4759  
algreatlakes.com



To: IOWA CITY LANDFILL & RECYCLING  
3900 HEBL AVE SW  
IOWA CITY, IA 52246-8305

Attn: JENNIFER JORDAN

Sample ID: 102-103  
Lab Number: 46456

## COMPOST ANALYSIS

Date Sampled: 7/12/2022  
Date Received: 7/14/2022  
Date Reported: 7/28/2022

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Moisture @ 70 C	%	49.97		TMECC 03.09-A
Solids	%	50.03		TMECC 03.09-A
Total Nitrogen (N)	%	1.00	1.99	TMECC 04.02-D
Phosphorus (P)	%	0.18	0.35	TMECC 04.03-A
Phosphate (P <sub>2</sub> O <sub>5</sub> )	%	0.40	0.80	TMECC 04.03-A
Potassium (K)	%	0.56	1.12	TMECC 04.04-A
Potash (K <sub>2</sub> O)	%	0.67	1.34	TMECC 04.04-A
Magnesium (Mg)	%	0.27	0.53	TMECC 04.05-MG
Calcium (Ca)	%	3.01	6.02	TMECC 04.05-CA
Arsenic	mg/kg	1.94	3.88	US EPA SW846-6020
Cadmium	mg/kg	0.380	0.759	US EPA SW846-6020
Chromium	mg/kg	6.4	12.8	US EPA SW846-6020
Copper	mg/kg	17.9	35.8	US EPA SW846-6010C
Mercury	mg/kg	0.031	0.062	US EPA SW846-6020
Molybdenum	mg/kg	0.51	1.01	US EPA SW846-6020

TMECC - Test Methods for the Examination of Composting and Compost (TMECC), The U.S. Composting Council.

-COMPOST

Report Approved By:

Don Burgess - Agronomist / Technical Services - CPAg/CPSS/CCA

Approval Date: 7/28/2022

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Nickel	mg/kg	5.9	11.7	US EPA SW846-6020
Lead	mg/kg	13.5	27.0	US EPA SW846-6020
Selenium	mg/kg	0.185	0.369	US EPA SW846-6020
Zinc	mg/kg	54	108	US EPA SW846-6010C
503 Metals PASS/FAIL	pass/fail		PASS	EPA 503 Metal Limits
pH	-	7.9		TMECC 04.11-A
Soluble Salts	dS/m	3.18		TMECC 04.10-A
Fecal Coliform/MPN	MPN/g dry		< 2	SM(20th)-9221E TMECC
Pathogen Reduction - PASS/FAIL	pass/fail		PASS	40 CFR 503 Class A Compost
Ash @ 550 C	%	24.23	48.44	TMECC 03.02-B
Organic Matter (LOI @ 550 C)	%	25.80	51.56	TMECC 05.07-A
Total Organic Carbon (C)	%	12.90	25.78	TMECC 04.01-A
Carbon:Nitrogen Ratio (C:N)	-	13.0:1	13.0:1	TMECC 05.02-A
Foreign Material	%		0.00	TMECC 03.08-A
Germination - Emergence	%	93		TMECC 05.05-A

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Analysis	Unit	Analysis Result	Dry Basis Result	Analysis Method
Germination - Vigor	%	100		TMECC 05.05-A
Ave Ht of Seedlings in Control	centimeters	8.8		TMECC 05.05-A
Ave Ht of Seedlings in Compost	centimeters	16.5		TMECC 05.05-A
Respiration - CO <sub>2</sub> -C/g TS	mg CO <sub>2</sub> -C / g TS/Day		0.6	TMECC 05.08-B
Respiration - CO <sub>2</sub> -C/g OM	mg CO <sub>2</sub> -C / g OM/Day		0.5	TMECC 05.08-B
Compost Stability Index	-		Very Stable	TMECC 05.08
Passing U.S. 3/8-inch Sieve	%		90.09	TMECC 02.02-B
Retained on U.S. 2-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 1-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 5/8-inch Sieve	%		0.00	TMECC 02.02-B
Retained on U.S. 3/8-inch Sieve	%		9.91	TMECC 02.02-B
Retained on U.S. 1/4-inch Sieve	%		11.51	TMECC 02.02-B
Retained on U.S. 5/32-inch	%		12.43	TMECC 02.02-B