IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION

Check one of the following: ☒ **New Application** ☐ **Renewal, Existing SWA #:** _____

The intent of a special waste authorization is to provide safe and proper management for disposal of wastes which present a threat to human health or the environment or a waste with inherent properties which make the disposal of the waste in a sanitary landfill difficult to manage. It is each landfill's responsibility to inform the waste generator if a waste should be handled as a special waste and to ensure that special wastes delivered to the landfill conform to the Special Waste Acceptance Criteria (SWAC) on file with the Department. It is the Department's responsibility to review each application for a special waste authorization to verify that the proposed waste can be landfilled under the current regulations in Iowa.

READ THE FOLLOWING INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION

Waste Generator:

1. Complete Sections 1-3 of this application applicable to the waste characterization and disposal information.
2. Attach Toxicity Characteristic Leaching Procedure (TCLP) test results, material safety data sheet(s) (MSDS), or evidence of "processor knowledge" when appropriate that demonstrates the waste is not considered a characteristic hazardous waste exhibiting the properties of flammability, corrosivity, reactivity or toxicity or a listed hazardous waste as defined in 40 CFR Part 261, Subpart D.
3. Provide signature in Section 3 to verify that the information provided is true, accurate and complete.
4. Mail or deliver the completed application with attachments to the requested disposal destination (*must be a landfill that is authorized to accept waste from the service area of where the waste was generated*). Please contact Sue Johnson at (515) 217-0872 for a list of landfills authorized to accept waste from the service area in which your facility is located.

Receiving Landfill: Prior review of this application by the receiving landfill allows the department to more quickly process and evaluate the application.

1. Complete Section 5 of this application applicable to the landfill.
2. Indicate by signing the application that the landfill is willing to accept the waste if a Special Waste Authorization is issued by the department and if instructions for disposal of the waste, as contained in the landfill's SWAC, are followed by the generator.
3. Attach SWAC procedures for disposal of the waste.
4. Keep 1 copy for your records and submit the remaining one copy of the completed application with attachments (TCLP, MSDS, SWAC, etc.) to the department at the following address, or email to Susan.Johnson@dnr.iowa.gov:

   Iowa Department of Natural Resources
   Land Quality Bureau- Attn: Susan Johnson
   502 East 9th Street
   Des Moines, IA 50319-0034

Applications will be considered incomplete if not signed by both the waste generator and receiving landfill. The receiving landfill must attach a copy of the SWAC for the particular waste for which the application has been submitted.

Written notification of approval or rejection will be mailed or emailed to the generator and landfill. If approved, a copy of the authorization must accompany the waste hauler to the landfill.

For questions concerning this application contact Sue Johnson at (515) 217-0872 or Susan.Johnson@dnr.iowa.gov.

SECTION 1: WASTE GENERATOR INFORMATION

Name of Primary Contact* Colten Fales **Title** SEH Engineer

SWA approvals will be sent to this person at the address provided below.

Company Name Danfoss Power Solutions (US) Company

Mailing Address 2800 East 13th Street

City Ames **State** IA **Zip Code** 50010

Telephone # 515-239-6000 **Email Address** colten_fales@danfoss.com

Address or location of the point of generation of the waste, if different from the company address:

Address

City **State** **Zip Code**

SECTION 2: WASTE CHARACTERIZATION

Waste determined to be hazardous may not be landfilled in Iowa. Attach TCLP analysis that demonstrates the waste is not considered hazardous. For raw or virgin materials being disposed of, a MSDS that indicates the waste is not hazardous may be submitted in lieu of a TCLP analysis.

The generator may also apply knowledge of the hazardous characteristic(s) of the waste in light of the materials or the processes used ("knowledge of process"). In order to use knowledge to characterize the waste, the knowledge that is applied must be valid and verifiable and the generator must be able to demonstrate the basis for their claim by providing supporting information to justify that conclusion.

Name and description of waste. Please address any RCRA listings derived from wastes etc., that may be applicable and why these listings would not pertain to the waste:

Used waterjet garnet to be commingled with sludge from wastewater filter press in roll off container.

Has any pretreatment been utilized? If so, please describe the pretreatment process:

No pretreatment of this waste.

List the alternatives to disposal that were analyzed and reason not utilized (*attach extra sheets if necessary*):

This material has no heat value and would not be accepted by the Ames Resource Recovery Center.

Physical state at room temperature? ☒ Solid ☐ Semi-Solid ☐ Liquid

Percent (%) Solid: 100 **pH:** NA **Flashpoint:** NA

Does this waste pass the paint filter liquids test?
Free liquids are prohibited from landfill disposal. Free liquids are defined as the liquid produced when a 100-millimeter or 100-gram representative sample is placed on a standard mesh number 60 (fine mesh size) conical paint filter for five minutes. ☒ Yes ☐ No

Is this waste a listed hazardous waste as identified in 40 CFR 261, Subpart D? Refer to the following web link to find listed hazardous wastes: http://www.gpoaccess.gov/cfr/index.html ☐ Yes ☒ No

Does this waste exhibit the property of *ignitability* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *corrosivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *reactivity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

Does this waste exhibit the property of *toxicity* as defined in 40 CFR 261, Subpart C? ☐ Yes ☒ No

SECTION 3: WASTE DISPOSAL INFORMATION

Indicate the proposed disposal location and if this is a request for an ongoing disposal of a special waste or a one-time disposal. If on going, indicate the approximate amount in pounds to be disposed of quarterly.

Landfill Name* Boone County

List only a landfill that is authorized to accept waste from the service area of where the waste was generated. Sue Johnson at (515) 217-0872 or susan.johnson@dnr.iowa.gov for a list of landfills authorized to accept waste from your facility.

☒ **Ongoing (or intermittent) with an average disposal rate per quarter of** 3 cu yd/wk **pounds**

Indicate the amount on hand to be disposed of immediately: _____ **pounds**

☐ **One time only, with an estimated quantity of** _____ **pounds**

SECTION 4: WASTE GENERATOR CERTIFICATION

"I certify under penalty of law (§455B.417.1(c), Code of Iowa) that I have examined and am familiar with the information submitted in this document concerning hazardous waste, and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete."

Applicant Signature: Colten W Fales **Date:** 03/05/2026

Printed Name: Colten Fales **Title:** EHS Engineer

See Landfill Information on the following page.

SECTION 5: LANDFILL INFORMATION

The following section is to be completed by the receiving landfill. By signing below, the landfill verifies that the application has been examined and if approved by the department, is willing to accept the waste described within, provided that instructions for disposal of the waste, as contained in the landfill's Special Waste Acceptance Criteria, are followed by the generator.

Prior review of this application by the receiving landfill will allow the department to more quickly process and evaluate the application. Please address the following:

Indicate the properties that lead you to believe this is a special waste:

This waste is not included in the definition of MSW or C+D waste.

Indicate any special handling procedures that the waste generator must follow prior to delivery at the landfill:

Please contact the landfill office @ 515-433-0591 prior to hauling.

Name of Responsible Official*: John Roosa

SWA approvals will be sent to this person at the address given below.

Solid Waste Agency Name Boone County Landfill

Mailing Address ~~HC~~ 1268 224th Lane

City Boone **State** Iowa **Zip Code** 50036

Telephone # 515-433-0591 **Email Address** jroosa@boonecounty.iowa.gov

Responsible Official Signature: John Roosa **Date:** 3/25/2026

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ANALYTICAL REPORT

PREPARED FOR

Attn: Colten Fales
Danfoss Power Solutions
2800 East 13th Street
Ames, Iowa 50014

Generated 1/22/2026 11:52:56 AM

JOB DESCRIPTION

SWA - Mixed Landfill Waste

JOB NUMBER

310-323723-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
1/22/2026 11:52:56 AM

Authorized for release by
Hannah Dietz, Project Manager I
Hannah.Dietz@et.eurofinsus.com
(319)277-2401

Job Narrative
310-323723-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 1/8/2026 3:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC/MS VOA
Method 8260D: Internal standard (ISTD) response for the following sample was outside of acceptance limits: Wastewater Cake - Garnet Matrix (310-323723-1). The sample(s) was not re-analyzed due to insufficient holding time.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-478426 and analytical batch 310-478484 recovered outside control limits for the following analyte(s): 2,4-Dinitrophenol. 2,4-Dinitrophenol have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: Wastewater Cake - Garnet Matrix (310-323723-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: Wastewater Cake - Garnet Matrix (310-323723-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-323723-1	Wastewater Cake - Garnet Matrix	Solid	01/06/26 00:00	01/08/26 15:20	Iowa

Client Sample Results

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Client Sample ID: Wastewater Cake - Garnet Matrix
Lab Sample ID: 310-323723-1
Date Collected: 01/06/26 00:00
Matrix: Solid
Date Received: 01/08/26 15:20

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1,2-Tetrachloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1,1-Trichloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1,2,2-Tetrachloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1,2-Trichloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1-Dichloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1-Dichloroethene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,1-Dichloropropene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2,3-Trichlorobenzene	<23.2	*3	23.2		ug/Kg		01/20/26 15:08	1	MZR8
1,2,3-Trichloropropane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2,4-Trichlorobenzene	<23.2	*3	23.2		ug/Kg		01/20/26 15:08	1	MZR8
1,2,4-Trimethylbenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2-Dibromo-3-chloropropane	<23.2	*3	23.2		ug/Kg		01/20/26 15:08	1	MZR8
1,2-Dibromoethane (EDB)	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2-Dichlorobenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2-Dichloroethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,2-Dichloropropane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,3,5-Trimethylbenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,3-Dichlorobenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,3-Dichloropropane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
1,4-Dichlorobenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
2,2-Dichloropropane	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
2-Butanone (MEK)	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
2-Chlorotoluene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
4-Chlorotoluene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
Acetone	**338**		116		ug/Kg		01/20/26 15:08	1	MZR8
Benzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Bromobenzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Bromochloromethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Bromodichloromethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Bromoform	<23.2		23.2		ug/Kg		01/20/26 15:08	1	MZR8
Bromomethane	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
Carbon disulfide	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Carbon tetrachloride	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Chlorobenzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Chlorodibromomethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Chloroethane	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
Chloroform	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Chloromethane	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
cis-1,2-Dichloroethene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
cis-1,3-Dichloropropene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Dibromomethane	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Dichlorodifluoromethane	<34.8		34.8		ug/Kg		01/20/26 15:08	1	MZR8
Ethylbenzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Hexachlorobutadiene	<58.0	*3	58.0		ug/Kg		01/20/26 15:08	1	MZR8
Hexane	<58.0		58.0		ug/Kg		01/20/26 15:08	1	MZR8
Isopropylbenzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Methyl tert-butyl ether	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Methylene chloride	<116		116		ug/Kg		01/20/26 15:08	1	MZR8
Naphthalene	<58.0	*3	58.0		ug/Kg		01/20/26 15:08	1	MZR8

Client Sample ID: Wastewater Cake - Garnet Matrix
Lab Sample ID: 310-323723-1
Date Collected: 01/06/26 00:00
Matrix: Solid
Date Received: 01/08/26 15:20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
n-Butylbenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
n-Propylbenzene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
p-Isopropyltoluene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
sec-Butylbenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
Styrene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
tert-Butylbenzene	<11.6	*3	11.6		ug/Kg		01/20/26 15:08	1	MZR8
Tetrachloroethene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Toluene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
trans-1,2-Dichloroethene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
trans-1,3-Dichloropropene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Trichloroethene	<11.6		11.6		ug/Kg		01/20/26 15:08	1	MZR8
Trichlorofluoromethane	<46.4		46.4		ug/Kg		01/20/26 15:08	1	MZR8
Vinyl chloride	<23.2		23.2		ug/Kg		01/20/26 15:08	1	MZR8
Xylenes, Total	<23.2		23.2		ug/Kg		01/20/26 15:08	1	MZR8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*97*		*80 - 128*	*01/20/26 15:08*	*1*	*MZR8*
Toluene-d8 (Surr)	*108*		*80 - 120*	*01/20/26 15:08*	*1*	*MZR8*
4-Bromofluorobenzene (Surr)	*93*		*77 - 120*	*01/20/26 15:08*	*1*	*MZR8*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,2,4-Trichlorobenzene	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
1,2-Dichlorobenzene	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
1,3-Dichlorobenzene	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
1,4-Dichlorobenzene	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
2,4,5-Trichlorophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2,4,6-Trichlorophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2,4-Dichlorophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2,4-Dimethylphenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2,4-Dinitrophenol	<5600	*-	5600		ug/Kg		01/15/26 20:00	5	V7YZ
2,4-Dinitrotoluene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2,6-Dinitrotoluene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Chloronaphthalene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Chlorophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Methylnaphthalene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Methylphenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Nitroaniline	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
2-Nitrophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
3,3'-Dichlorobenzidine	<5600		5600		ug/Kg		01/15/26 20:00	5	V7YZ
3-Nitroaniline	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4,6-Dinitro-2-methylphenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Bromophenyl phenyl ether	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Chloro-3-methylphenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Chloroaniline	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Chlorophenyl phenyl ether	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Methylphenol (and/or 3-Methylphenol)	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Nitroaniline	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
4-Nitrophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Client Sample ID: Wastewater Cake - Garnet Matrix
Lab Sample ID: 310-323723-1
Date Collected: 01/06/26 00:00
Matrix: Solid
Date Received: 01/08/26 15:20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Acenaphthylene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Anthracene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzidine	<5600		5600		ug/Kg		01/21/26 15:08	5	V7YZ
Benzo(a)anthracene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzo(a)pyrene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzo(b)fluoranthene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzo(g,h,i)perylene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzo(k)fluoranthene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Benzoic acid	<14000		14000		ug/Kg		01/21/26 15:08	5	V7YZ
Benzyl alcohol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Bis(2-chloroethoxy)methane	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Bis(2-chloroethyl)ether	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
bis(2-chloroisopropyl) ether	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Bis(2-ethylhexyl) phthalate	**3230**		2800		ug/Kg		01/21/26 15:08	5	V7YZ
Butyl benzyl phthalate	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Carbazole	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
Chrysene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Dibenz(a,h)anthracene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Dibenzofuran	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Diethyl phthalate	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Dimethyl phthalate	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Di-n-butyl phthalate	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Di-n-octyl phthalate	**6400**		2800		ug/Kg		01/21/26 15:08	5	V7YZ
Fluoranthene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Fluorene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Hexachlorobenzene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Hexachlorobutadiene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Hexachlorocyclopentadiene	<5600		5600		ug/Kg		01/15/26 20:00	5	V7YZ
Hexachloroethane	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Indeno(1,2,3-cd)pyrene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Isophorone	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Naphthalene	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
Nitrobenzene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
N-Nitrosodimethylamine	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
N-Nitrosodi-n-propylamine	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
N-Nitrosodiphenylamine	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Pentachlorophenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Phenanthrene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Phenol	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Pyrene	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ
Pyridine	<2800		2800		ug/Kg		01/21/26 15:08	5	V7YZ
Total Cresols	<2800		2800		ug/Kg		01/15/26 20:00	5	V7YZ

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
2-Fluorophenol (Surr)	*28*		*27 - 125*	*01/15/26 20:00*	*5*	*V7YZ*
Phenol-d5 (Surr)	*30*		*30 - 127*	*01/15/26 20:00*	*5*	*V7YZ*
Nitrobenzene-d5 (Surr)	*44*		*20 - 141*	*01/15/26 20:00*	*5*	*V7YZ*
2-Fluorobiphenyl (Surr)	*35*		*30 - 132*	*01/15/26 20:00*	*5*	*V7YZ*
2,4,6-Tribromophenol (Surr)	*25*		*17 - 123*	*01/15/26 20:00*	*5*	*V7YZ*

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Client Sample ID: Wastewater Cake - Garnet Matrix
Lab Sample ID: 310-323723-1
Date Collected: 01/06/26 00:00
Matrix: Solid
Date Received: 01/08/26 15:20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Terphenyl-d14 (Surr)	*32*		*31 - 143*	*01/15/26 20:00*	*5*	*V7YZ*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.100		0.100		mg/L		01/14/26 16:19	1	ZRI4
Barium	<0.200		0.200		mg/L		01/14/26 16:19	1	ZRI4
Cadmium	<0.0200		0.0200		mg/L		01/14/26 16:19	1	ZRI4
Chromium	<0.0200		0.0200		mg/L		01/14/26 16:19	1	ZRI4
Lead	<0.100		0.100		mg/L		01/14/26 16:19	1	ZRI4
Selenium	<0.100		0.100		mg/L		01/14/26 16:19	1	ZRI4
Silver	<0.0500		0.0500		mg/L		01/14/26 16:19	1	ZRI4

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00200		0.00200		mg/L		01/16/26 10:27	1	RLT9

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Flashpoint (D92)	**>201**		65.0		Degrees F		01/14/26 07:47	1	WZC8

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	**8.3**	**HF**	1.0		SU		01/09/26 20:50	1	T5AC

Accreditation/Certification and Definitions Summary

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D	5035	Solid	1,2,3-Trichlorobenzene
8260D	5035	Solid	1,2,4-Trichlorobenzene
8260D	5035	Solid	Bromobenzene
8260D	5035	Solid	Hexane
8260D	5035	Solid	p-Isopropyltoluene
8260D	5035	Solid	sec-Butylbenzene
8260D	5035	Solid	tert-Butylbenzene
8270E	3546	Solid	Benzoic acid
8270E	3546	Solid	Pyridine
8270E	3546	Solid	Total Cresols
D92		Solid	Flashpoint

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Danfoss Power Solutions
Job ID: 310-323723-1
Project/Site: SWA - Mixed Landfill Waste

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9045D	pH	SW846	EET CF
D92	ASTM/D92 Cleveland Open Cup Flashpoint	ASTM	EET CF
1311	TCLP Extraction	SW846	EET CF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5035	Purge and Trap for Solids	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Built Environment Testing AEML

6340 NW 5th Way, Fort Lauderdale, FL 33309
Phone: 954-333-8149 Fax: 954-333-8151
www.aemlinc.com

CHAIN OF CUSTODY/ANALYSIS REQUEST

Project # / Job #: SWA- Mixed Landfill waste

Company: Danfoss Power Solutions		Sampled By: Colten Fales	Payment Type: ☐ On Account ☑ Credit Card ☐ Check
Contact Name: Colten Fales		Project/Site Name: SWA- Mixed Landfill Waste	Credit Card #:
Address: 2800 E 13th street			CVV: / Exp. Date: __ __ / __ __
City: Ames	State: IA Zip: 50010	Project #:	Name on Card (Print):
Phone #: 515-686-1617	Fax #:	P.O. #:	Signature:
E-mail: colten_fales@danfoss.com		Sample Type: A = Air W = Water T = Tape S = Swab B = Bulk	Turn Around Time (Rush charges may apply) Standard _____ Other_____

Sample #:	Sample Identification	Date	Sample Type	Volume (Air)	Area (Swabs)	TCLP-Metals	VOCs	S VOCs	Flashpoint	PH						For Lab Use Only Sample Numbers
1	Wastewater Cake- Garnet Matrix	1/6/26	B			X	X	X	X	X						

Analysis Requested (Enter "X" Below to indicate request)

Special Instructions/Requirements:

Date	Time	Relinquished By	Company	Received By	Company	Good Condition
						Yes No
						Yes No
						Yes No

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310-323723 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Danfoss

City/State. | CITY | STATE | Project:

Receipt Information

Date/Time Received: | DATE 1-8-26 | TIME 1520 | Received By: EH

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present?	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: CC | Correction Factor (°C). 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C). 2.2 | Corrected Temp (°C): 2.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

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Phone: 954-333-8149 Fax: 954-333-4515
www.aemlav.com

CHAIN OF CUSTODY/ANALYSIS REQUEST

Project # / Job #: SWA- Mixed Landfill waste

Page ____ of ____

Company: Dantoss Power Solutions | Sampled By: Colten Fales | Payment Type: ☐ On Account ☐ Credit Card ☐ Check

Contact Name: Colten Fales | Project/Site Name: SWA- Mixed Landfill Waste | Credit Card #:

Address: 2800 E 13th street | CVV: | Exp. Date: ___/___

City: Ames | State: IA | Zip: 50010 | Project #: | Name on Card (Print):

Phone #: 515-696-1617 | Fax #: | P.O. #: | Signature:

E-mail: colen_fales@danfoss.com

Sample #	Sample Identification	Date	Sample Type	Volume (Air)	Area (Swab)	TCLP-Metals	VOCs	S VOCs	Flashpoint	pH												Sample Numbers
1	Wastewater Cake- Garnet Matrix	16/26	B			X	X	X	X	X												

Turn Around Time (Rush charges may apply): Standard ____ Other ____

Analysis Requested (Enter "X" Below to indicate request)

For Lab Use Only

Special Instructions/Requirements:

Date	Time	Relinquished By	Company	Received By	Company	Good Condition	
						Yes	No
						Yes	No
						Yes	No