



IOWA DEPARTMENT OF NATURAL RESOURCES
REQUEST FOR SPECIAL WASTE
AUTHORIZATION



Check one of the following: New Application Renewal, Existing SWA #: 07-SWA-59-08

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 (2) copies of 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) 725-8317 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:

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 faxed 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) 725-8317 or susan.johnson@dnr.iowa.gov

SECTION 1: WASTE GENERATOR INFORMATION

Name of Primary Contact* Shannon Johnson Title Safety Specialist
 *SWA approvals will be sent to this person at the address provided below.
 Company Name O'Neal Manufacturing Services - Cedar Falls
 Mailing Address 7100 CHANCELLOR DR.
 City CEDAR FALLS State IA Zip Code 50613
 Telephone # 319-239-4380 Fax # _____

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:
TORIT AIR FILTER DUST
 Waste is a dust from air filters being purged by compressed air.

Has any pretreatment been utilized? If so, please describe the pretreatment process:
 NO

List the alternatives to disposal that were analyzed and reason not utilized (*attach extra sheets if necessary*):
 There are no other disposal alternatives
 The dust cannot be reclaimed
 The dust has no redeemable qualities

Physical state at room temperature? <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input type="checkbox"/> Liquid	Percent (%) Solid: 7.0	pH: 7.0	Flashpoint: >200
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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

SECTION 2: WASTE CHARACTERIZATION (Continued)

Does this waste exhibit the property of <i>ignitability</i> as defined in 40 CFR 261, Subpart C?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste exhibit the property of <i>corrosivity</i> as defined in 40 CFR 261, Subpart C?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste exhibit the property of <i>reactivity</i> as defined in 40 CFR 261, Subpart C?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does this waste exhibit the property of <i>toxicity</i> as defined in 40 CFR 261, Subpart C?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SECTION 3: WASTE DISPOSAL INFORMATION

Indicate the proposed disposal location and if this is a request for an on going 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* Blackhawk county Landfill 17-SDP-01-75

**List only a landfill that is authorized to accept waste from the service area of where the waste was generated. Sue Johnson at (515) 725-8317 or susan.johnson@dnr.iowa.gov for a list of landfills authorized to accept waste from your facility.*

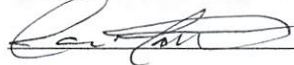
On going (or intermittent) with an average disposal rate per quarter of 4800 pounds

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:  Date: 5-15-2026

Printed Name: James Mattson Title: General Manager

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:

See next page

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

Name of Responsible Official*: _____
**SWA approvals will be sent to this person at the address given below.*

Solid Waste Agency Name _____

Mailing Address _____

City _____ State _____ Zip Code _____

Telephone # _____ Fax # _____

Responsible Official Signature: _____ Date: _____

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Shannon Johnson
Iowa Laser Technology
7100 Chancellor Drive
Cedar Falls, Iowa 50613

Generated 5/12/2026 11:55:29 AM

JOB DESCRIPTION

TCLP

JOB NUMBER

310-331101-1

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
5/12/2026 11:55:29 AM

Authorized for release by
Conner Calhoun, Client Service Manager
Conner.Calhoun@et.eurofinsus.com
(319)277-2401



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Client Sample Results	6
Chronicle	9
Definitions	11
Certification Summary	12
Method Summary	13
Chain of Custody	14
Receipt Checklists	17

Case Narrative

Client: Iowa Laser Technology
Project: TCLP

Job ID: 310-331101-1

Job ID: 310-331101-1

Eurofins Cedar Falls

Job Narrative 310-331101-1

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 samples were received on 5/1/2026 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.1°C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: Bead Blast Media (310-331101-1), Tarit Dust (310-331101-2) and Cake Filter (310-331101-3). There was no cooling media present in the cooler.

GC/MS Semi VOA

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

Metals

Method 6010D - TCLP: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample: Cake Filter (310-331101-3). Per client, the volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

Method 6010D - TCLP: The following sample was diluted due to the abundance of non-target analytes: Tarit Dust (310-331101-2). Elevated reporting limits (RLs) are provided.

Method 6010D - TCLP: The following sample was diluted to bring the concentration of target analytes within the calibration range: Tarit Dust (310-331101-2). Elevated reporting limits (RLs) are provided.

Method 7470A - TCLP: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample: Cake Filter (310-331101-3). Per client, the volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

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.

Eurofins Cedar Falls

Sample Summary

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-331101-1	Bead Blast Media	Solid	05/01/26 09:30	05/01/26 10:25	Iowa
310-331101-2	Tarit Dust	Solid	05/01/26 09:33	05/01/26 10:25	Iowa
310-331101-3	Cake Filter	Solid	05/01/26 09:36	05/01/26 10:25	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Client Sample ID: Bead Blast Media

Lab Sample ID: 310-331101-1

Date Collected: 05/01/26 09:30

Matrix: Solid

Date Received: 05/01/26 10:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
2,4,5-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
2,4,6-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
2,4-Dinitrotoluene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
2-Methylphenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
4-Methylphenol (and/or 3-Methylphenol)	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Hexachlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Hexachlorobutadiene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Hexachloroethane	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Nitrobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Pentachlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Pyridine	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1
Total Cresols	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	69		21 - 110	05/06/26 06:33	05/07/26 16:50	1
Phenol-d5 (Surr)	60		21 - 110	05/06/26 06:33	05/07/26 16:50	1
Nitrobenzene-d5 (Surr)	79		39 - 140	05/06/26 06:33	05/07/26 16:50	1
2-Fluorobiphenyl (Surr)	64		33 - 126	05/06/26 06:33	05/07/26 16:50	1
2,4,6-Tribromophenol (Surr)	93		20 - 144	05/06/26 06:33	05/07/26 16:50	1
Terphenyl-d14 (Surr)	68		13 - 150	05/06/26 06:33	05/07/26 16:50	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0463		0.0100		mg/L		05/06/26 14:16	05/07/26 16:47	1
Barium	0.343		0.0100		mg/L		05/06/26 14:16	05/07/26 16:47	1
Cadmium	<0.00200		0.00200		mg/L		05/06/26 14:16	05/07/26 16:47	1
Chromium	0.0507		0.0100		mg/L		05/06/26 14:16	05/07/26 16:47	1
Lead	0.0223		0.00500		mg/L		05/06/26 14:16	05/07/26 16:47	1
Magnesium	7.47	B	0.100		mg/L		05/06/26 14:16	05/07/26 16:47	1
Selenium	0.0123		0.0100		mg/L		05/06/26 14:16	05/07/26 16:47	1
Silver	<0.00500		0.00500		mg/L		05/06/26 14:16	05/07/26 16:47	1
Vanadium	<0.00500		0.00500		mg/L		05/06/26 14:16	05/07/26 16:47	1
Zinc	5.74		0.0200		mg/L		05/06/26 14:16	05/07/26 16:47	1
Copper	0.0450		0.0100		mg/L		05/06/26 14:16	05/07/26 16:47	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		05/11/26 16:30	05/12/26 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid (SW846 9095B)	CNF		0.100		NONE			05/04/26 07:34	1
Flashpoint (ASTM D92)	>202		65.0		Degrees F			05/04/26 16:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3	HF	1.0		SU			05/03/26 22:31	1

Eurofins Cedar Falls

Client Sample Results

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Client Sample ID: Tarit Dust

Lab Sample ID: 310-331101-2

Date Collected: 05/01/26 09:33

Matrix: Solid

Date Received: 05/01/26 10:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
2,4,5-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
2,4,6-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
2,4-Dinitrotoluene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
2-Methylphenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
4-Methylphenol (and/or 3-Methylphenol)	0.0816		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Hexachlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Hexachlorobutadiene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Hexachloroethane	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Nitrobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Pentachlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Pyridine	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1
Total Cresols	0.0816		0.0500		mg/L		05/06/26 06:33	05/07/26 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	71		21 - 110	05/06/26 06:33	05/07/26 17:19	1
Phenol-d5 (Surr)	74		21 - 110	05/06/26 06:33	05/07/26 17:19	1
Nitrobenzene-d5 (Surr)	82		39 - 140	05/06/26 06:33	05/07/26 17:19	1
2-Fluorobiphenyl (Surr)	76		33 - 126	05/06/26 06:33	05/07/26 17:19	1
2,4,6-Tribromophenol (Surr)	97		20 - 144	05/06/26 06:33	05/07/26 17:19	1
Terphenyl-d14 (Surr)	72		13 - 150	05/06/26 06:33	05/07/26 17:19	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0219		0.0100		mg/L		05/06/26 14:16	05/07/26 16:51	1
Barium	0.301		0.0100		mg/L		05/06/26 14:16	05/07/26 16:51	1
Cadmium	<0.00200		0.00200		mg/L		05/06/26 14:16	05/07/26 16:51	1
Chromium	0.203		0.0100		mg/L		05/06/26 14:16	05/07/26 16:51	1
Lead	<0.100		0.100		mg/L		05/06/26 14:16	05/08/26 14:12	20
Magnesium	2.62	B	0.100		mg/L		05/06/26 14:16	05/07/26 16:51	1
Selenium	0.0295		0.0100		mg/L		05/06/26 14:16	05/07/26 16:51	1
Silver	0.195		0.0250		mg/L		05/06/26 14:16	05/08/26 14:08	5
Vanadium	<0.00500		0.00500		mg/L		05/06/26 14:16	05/07/26 16:51	1
Zinc	28.1		0.400		mg/L		05/06/26 14:16	05/08/26 14:12	20
Copper	15.0		0.200		mg/L		05/06/26 14:16	05/08/26 14:12	20

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000297		0.000200		mg/L		05/11/26 16:30	05/12/26 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid (SW846 9095B)	CNF		0.100		NONE			05/04/26 07:34	1
Flashpoint (ASTM D92)	>202		65.0		Degrees F			05/04/26 16:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	6.2	HF	1.0		SU			05/05/26 21:51	1

Eurofins Cedar Falls

Client Sample Results

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Client Sample ID: Cake Filter

Lab Sample ID: 310-331101-3

Date Collected: 05/01/26 09:36

Matrix: Solid

Date Received: 05/01/26 10:25

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
2,4,5-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
2,4,6-Trichlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
2,4-Dinitrotoluene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
2-Methylphenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
4-Methylphenol (and/or 3-Methylphenol)	0.0734		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Hexachlorobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Hexachlorobutadiene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Hexachloroethane	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Nitrobenzene	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Pentachlorophenol	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Pyridine	<0.0500		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1
Total Cresols	0.0734		0.0500		mg/L		05/06/26 06:33	05/07/26 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	68		21 - 110	05/06/26 06:33	05/07/26 17:47	1
Phenol-d5 (Surr)	60		21 - 110	05/06/26 06:33	05/07/26 17:47	1
Nitrobenzene-d5 (Surr)	79		39 - 140	05/06/26 06:33	05/07/26 17:47	1
2-Fluorobiphenyl (Surr)	73		33 - 126	05/06/26 06:33	05/07/26 17:47	1
2,4,6-Tribromophenol (Surr)	94		20 - 144	05/06/26 06:33	05/07/26 17:47	1
Terphenyl-d14 (Surr)	82		13 - 150	05/06/26 06:33	05/07/26 17:47	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0100		0.0100		mg/L		05/06/26 14:16	05/07/26 16:56	1
Barium	0.216		0.0100		mg/L		05/06/26 14:16	05/07/26 16:56	1
Cadmium	<0.00200		0.00200		mg/L		05/06/26 14:16	05/07/26 16:56	1
Chromium	<0.0100		0.0100		mg/L		05/06/26 14:16	05/07/26 16:56	1
Lead	0.00718		0.00500		mg/L		05/06/26 14:16	05/07/26 16:56	1
Magnesium	13.7	B	0.100		mg/L		05/06/26 14:16	05/07/26 16:56	1
Selenium	0.0112		0.0100		mg/L		05/06/26 14:16	05/07/26 16:56	1
Silver	0.00526		0.00500		mg/L		05/06/26 14:16	05/07/26 16:56	1
Vanadium	<0.00500		0.00500		mg/L		05/06/26 14:16	05/07/26 16:56	1
Zinc	2.04		0.0200		mg/L		05/06/26 14:16	05/07/26 16:56	1
Copper	0.0172		0.0100		mg/L		05/06/26 14:16	05/07/26 16:56	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		05/11/26 16:30	05/12/26 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid (SW846 9095B)	CFL		0.100		NONE			05/04/26 07:34	1
Flashpoint (ASTM D92)	>202		65.0		Degrees F			05/04/26 16:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF	1.0		SU			05/03/26 22:34	1

Eurofins Cedar Falls

Lab Chronicle

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Client Sample ID: Bead Blast Media

Lab Sample ID: 310-331101-1

Date Collected: 05/01/26 09:30

Matrix: Solid

Date Received: 05/01/26 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			487850	U8FK	EET CF	05/04/26 15:00 - 05/05/26 08:00 ¹
TCLP	Prep	3510C			488010	J5BR	EET CF	05/06/26 06:33
TCLP	Analysis	8270E		1	488164	V7YZ	EET CF	05/07/26 16:50
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	3010A			865085	MS	EET CHI	05/06/26 14:16 - 05/06/26 20:16 ¹
TCLP	Analysis	6010D		1	865446	SJ	EET CHI	05/07/26 16:47
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	7470A			865826	MJG	EET CHI	05/11/26 16:30 - 05/11/26 18:30 ¹
TCLP	Analysis	7470A		1	865933	MJG	EET CHI	05/12/26 07:18
Soluble	Leach	DI Leach			487744	T5AC	EET CF	05/03/26 20:12
Soluble	Analysis	9045D		1	487746	T5AC	EET CF	05/03/26 22:31
Total/NA	Analysis	9095B		1	487762	DGU1	EET CF	05/04/26 07:34
Total/NA	Analysis	D92		1	487866	ENB7	EET CF	05/04/26 16:30

Client Sample ID: Tarit Dust

Lab Sample ID: 310-331101-2

Date Collected: 05/01/26 09:33

Matrix: Solid

Date Received: 05/01/26 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			487850	U8FK	EET CF	05/04/26 15:00 - 05/05/26 08:00 ¹
TCLP	Prep	3510C			488010	J5BR	EET CF	05/06/26 06:33
TCLP	Analysis	8270E		1	488164	V7YZ	EET CF	05/07/26 17:19
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	3010A			865085	MS	EET CHI	05/06/26 14:16 - 05/06/26 20:16 ¹
TCLP	Analysis	6010D		1	865446	SJ	EET CHI	05/07/26 16:51
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	3010A			865085	MS	EET CHI	05/06/26 14:16 - 05/06/26 20:16 ¹
TCLP	Analysis	6010D		5	865551	SJ	EET CHI	05/08/26 14:08
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	3010A			865085	MS	EET CHI	05/06/26 14:16 - 05/06/26 20:16 ¹
TCLP	Analysis	6010D		20	865551	SJ	EET CHI	05/08/26 14:12
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	7470A			865826	MJG	EET CHI	05/11/26 16:30 - 05/11/26 18:30 ¹
TCLP	Analysis	7470A		1	865933	MJG	EET CHI	05/12/26 07:20
Soluble	Leach	DI Leach			487993	T5AC	EET CF	05/05/26 19:46
Soluble	Analysis	9045D		1	487999	T5AC	EET CF	05/05/26 21:51
Total/NA	Analysis	9095B		1	487762	DGU1	EET CF	05/04/26 07:34
Total/NA	Analysis	D92		1	487866	ENB7	EET CF	05/04/26 16:30

Lab Chronicle

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Client Sample ID: Cake Filter

Lab Sample ID: 310-331101-3

Date Collected: 05/01/26 09:36

Matrix: Solid

Date Received: 05/01/26 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			487850	U8FK	EET CF	05/04/26 15:00 - 05/05/26 08:00 ¹
TCLP	Prep	3510C			488010	J5BR	EET CF	05/06/26 06:33
TCLP	Analysis	8270E		1	488164	V7YZ	EET CF	05/07/26 17:47
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	3010A			865085	MS	EET CHI	05/06/26 14:16 - 05/06/26 20:16 ¹
TCLP	Analysis	6010D		1	865446	SJ	EET CHI	05/07/26 16:56
TCLP	Leach	1311			864803	TJ	EET CHI	05/05/26 14:10 - 05/06/26 08:10 ¹
TCLP	Prep	7470A			865826	MJG	EET CHI	05/11/26 16:30 - 05/11/26 18:30 ¹
TCLP	Analysis	7470A		1	865933	MJG	EET CHI	05/12/26 07:22
Soluble	Leach	DI Leach			487744	T5AC	EET CF	05/03/26 20:30
Soluble	Analysis	9045D		1	487746	T5AC	EET CF	05/03/26 22:34
Total/NA	Analysis	9095B		1	487762	DGU1	EET CF	05/04/26 07:34
Total/NA	Analysis	D92		1	487866	ENB7	EET CF	05/04/26 16:30

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Definitions/Glossary

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

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
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)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation 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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

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	12-01-27
The following analytes are included in this report, but the laboratory is not certified by Iowa State 007. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
8270E	3510C	Solid	Pyridine
8270E	3510C	Solid	Total Cresols
D92		Solid	Flashpoint

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-27
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-27
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-28
Kansas	NELAP	E-10161	10-31-26
Kentucky (UST)	State	108083	05-31-27
Kentucky (WW)	State	KY90023	12-31-26
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-26
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-26
South Carolina	State	77001	05-31-26
USDA	US Federal Programs	525-25-237-16455	08-25-28
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-27

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

Method Summary

Client: Iowa Laser Technology
Project/Site: TCLP

Job ID: 310-331101-1

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CF
9095B	Paint Filter	SW846	EET CF
D92	Flashpoint	ASTM	EET CF
1311	TCLP Extraction	SW846	EET CF
1311	TCLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CHI
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.

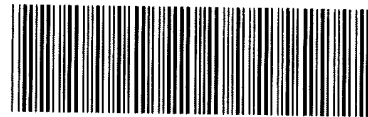
Laboratory References:

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200



Environment Testing
America



310-331101 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Iowa Laser</u>			
City/State:	<small>CITY</small> <u>Cedar Falls</u>	<small>STATE</small> <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	<small>DATE</small> <u>05/01/20</u>	<small>TIME</small> <u>1025</u>	Received By: <u>ES</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input checked="" type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID _____			
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes. Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>FAA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>32 oz jar</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):	<u>11.1</u>		
Corrected Temp (°C):	<u>11.1</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Login Sample Receipt Checklist

Client: Iowa Laser Technology

Job Number: 310-331101-1

Login Number: 331101

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Schaufenbuel, Erin

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Iowa Laser Technology

Job Number: 310-331101-1

Login Number: 331101

List Number: 2

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

List Creation: 05/02/26 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	