IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION

Check one of the following: ☐ **New Application** ☒ **Renewal, Existing SWA #: 07-SWA-36-04**

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* Evan Arachikavitz **Title** Environmental Engineer

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

Company Name Viking Pump, Inc.

Mailing Address 711 Viking Road

City Cedar Falls **State** IA **Zip Code** 50613

Telephone # (319) 883-6920 **Email Address** earachikavitz@idexcorp.com

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

Address 715 Viking Road

City Cedar Falls **State** IA **Zip Code** 50613

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:

Baghouse dust generated from baghouses 1, 2, 3, 4, & 5, pulling from various process at the iron & steel foundry. No RCRA listings can be applied to this waste.

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

No pretreatment has been utilized.

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

Disposal at onsite foundry sand landfill has been requested on operating permit application. However, application is currently being processed by Iowa DNR.

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

Percent (%) Solid: 100 **pH:** N/A **Flashpoint:** No flash

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* **Black Hawk County Landfill**

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** **50,000** **pounds**

Indicate the amount on hand to be disposed of immediately: **18,000** **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:** **1/15/2024**

Printed Name: **Evan Arachikavitz** **Title:** **Environmental 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.

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

This is an industrial waste which potentially contains RCRA regulated materials and is potentially hazardous if TCLP limits are exceeded. The material is dusty and disposal must be limited to conditions where it can be managed without exposure to other customers or off-site dispersion by the wind.

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

The generator is required to make delivery arrangements 24 hours in advance by calling (319) 296-2524. The generator separates this material from other waste and makes efforts to minimize the possibility of dust generation. This may include wetting or other means before acceptance. Material is not accepted if wind speeds are excessive. Upon arrival, the driver shall present the scale house operator with a copy of the IDNR-issued SWA letter for this material. The waste will be deposited in the designated area, worked into the active face, and covered as required.

The generator is required to test the waste material periodically and notify BHCSWMC of any process change or deviations from the submitted sampled parameters. The generator must also notify the receiving landfill for re-evaluation.

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

Solid Waste Agency Name Black Hawk County Solid Waste Management Commission

Mailing Address 229 E. Park Ave., P.O. Box 208

City Waterloo **State** IA **Zip Code** 50704

Telephone # 319-234-8115 **Fax #** jfoster@wastetrac.org

Responsible Official Signature:  **Date:** January 16, 2025

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1 2 3 4 5 6 7

ANALYTICAL REPORT

PREPARED FOR

Attn: Evan Arachikavitz
Viking Pump Inc
711 Viking Road
Cedar Falls, Iowa 50613-0008

Generated 6/13/2024 9:59:07 AM

JOB DESCRIPTION

BH Dust TRI Determination

JOB NUMBER

310-282775-2

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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
6/13/2024 9:59:07 AM

Authorized for release by
Conner Calhoun, Project Management Assistant I
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

Job Narrative
310-282775-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2024 2:55 PM. 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 25.8°C.

Metals
Method 6010D - TCLP: The following sample(s) was diluted due to the presence of an interferent. >: BH 3 & 5 Dust (310-282775-2) and Amtech BH Dust (310-282775-3). 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.

Sample Summary

Client: Viking Pump Inc
Project/Site: BH Dust TRI Determination

Job ID: 310-282775-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-282775-1	BH 1, 2, & 4 Dust	Solid	06/05/24 00:00	06/05/24 14:55
310-282775-2	BH 3 & 5 Dust	Solid	06/05/24 00:00	06/05/24 14:55
310-282775-3	Amtech BH Dust	Solid	06/05/24 00:00	06/05/24 14:55

Client Sample Results

Client: Viking Pump Inc
Project/Site: BH Dust TRI Determination

Job ID: 310-282775-2

Client Sample ID: BH 1, 2, & 4 Dust

Lab Sample ID: 310-282775-1
Matrix: Solid
Date Collected: 06/05/24 00:00
Date Received: 06/05/24 14:55

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.100		0.100		mg/L		06/12/24 14:01	1	ZRI4
Barium	**0.223**		0.200		mg/L		06/12/24 14:01	1	ZRI4
Cadmium	**0.0413**		0.0200		mg/L		06/12/24 14:01	1	ZRI4
Chromium	<0.0200		0.0200		mg/L		06/12/24 14:01	1	ZRI4
Lead	**0.479**		0.100		mg/L		06/12/24 14:01	1	ZRI4
Selenium	**0.112**		0.100		mg/L		06/12/24 14:01	1	ZRI4
Silver	<0.0500		0.0500		mg/L		06/12/24 14:01	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		06/12/24 13:39	1	A6US

Client Sample ID: BH 3 & 5 Dust

Lab Sample ID: 310-282775-2
Matrix: Solid
Date Collected: 06/05/24 00:00
Date Received: 06/05/24 14:55

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.200		0.200		mg/L		06/12/24 14:10	2	ZRI4
Barium	<0.400		0.400		mg/L		06/12/24 14:10	2	ZRI4
Cadmium	<0.0400		0.0400		mg/L		06/12/24 14:10	2	ZRI4
Chromium	<0.0400		0.0400		mg/L		06/12/24 14:10	2	ZRI4
Lead	<0.200		0.200		mg/L		06/12/24 14:10	2	ZRI4
Selenium	<0.200		0.200		mg/L		06/12/24 14:10	2	ZRI4
Silver	<0.100		0.100		mg/L		06/12/24 14:10	2	ZRI4

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00200		0.00200		mg/L		06/12/24 13:41	1	A6US

~~Client Sample ID: Amtech BH Dust~~

~~Lab Sample ID: 310-282775-3~~
~~Matrix: Solid~~
~~Date Collected: 06/05/24 00:00~~
~~Date Received: 06/05/24 14:55~~

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

~~Analyte~~	~~Result~~	~~Qualifier~~	~~RL~~	~~MDL~~	~~Unit~~	~~D~~	~~Analyzed~~	~~Dil Fac~~	~~Analyst~~
~~Arsenic~~	~~<0.200~~		~~0.200~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~Barium~~	~~<0.400~~		~~0.400~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~**Cadmium**~~	~~**0.186**~~		~~0.0400~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~Chromium~~	~~<0.0400~~		~~0.0400~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~Lead~~	~~<0.200~~		~~0.200~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~**Selenium**~~	~~**39.0**~~		~~0.200~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~
~~Silver~~	~~<0.100~~		~~0.100~~		~~mg/L~~		~~06/12/24 14:12~~	~~2~~	~~ZRI4~~

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

~~Analyte~~	~~Result~~	~~Qualifier~~	~~RL~~	~~MDL~~	~~Unit~~	~~D~~	~~Analyzed~~	~~Dil Fac~~	~~Analyst~~
~~Mercury~~	~~<0.00200~~		~~0.00200~~		~~mg/L~~		~~06/12/24 13:43~~	~~1~~	~~A6US~~

Accreditation/Certification and Definitions Summary

Client: Viking Pump Inc
Job ID: 310-282775-2
Project/Site: BH Dust TRI Determination

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

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

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)
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

Method Summary

Client: Viking Pump Inc
Project/Site: BH Dust TRI Determination

Job ID: 310-282775-2

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

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

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310-282775 Chain of Custody

Cooler/Sample Receipt and Temper

Client Information			
Client:	ViKAS Pump		
City/State:	CITY Cedar Falls	STATE	Project: BH Dust
Receipt Information			
Date/Time Received:	DATE 6-5-24	TIME 1455	Received By: TO

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: U	Correction Factor (°C): 0.0

• 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 1	CONTAINER 2
Container(s) used:	32 oz Jar	
Uncorrected Temp (°C):	25.8	
Corrected Temp (°C):	25.8	

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

Document: CED-P-SAM-FRM45521
Revision. 26
Date: 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

ENVIRONMENTAL CHAIN OF CUSTODY

Viking Pump
711 Viking Road
Cedar Falls, IA 50613

DATE SHIPPED	# OF SAMPLES	PROJECT NAME OR NUMBER
June 5, 2024	3	BH Dust TRI Determination

PURCHASE ORDER NO	CONTACT	TELEPHONE NUMBER
	Evan Arachikavitz	(319) 883-6920

RUSH ANALYSIS
☐ Same Day
☐ One Day
☐ Two Day
☐ Three Day
Extra Charge

E-MAIL ADDRES.
earachikavitz@idexcorp.com

SPECIAL INSTRUCTIONS
Looking for ASAP rush on all totals TCLP can wait. 2 different reports are expected

CHAIN OF CUSTODY RECORD

MATRIX CODES
A = AQUEOUS O = OIL
S = SOLID X = OTHER
DW = DRINKING WATER W = WIPES

ANALYSIS REQUESTED (Place an "X" in the box below to indicate request)

Lab ID	Sample Identification	Date & Time	MATRIX	# Of Bottles	Grab / Comp	RCRA 8 Metals TCLP	RCRA 8 Metals Totals	Total Manganese	Total Aluminum	Total Zinc	Total Copper	Total Cobalt	Total Nickel	Total Cobalt	Total Beryllium	Preservative H_2SO_4	Preservative HCL	Preservative HNO_3	Preservative NaOH	Preservative Other	COMMENTS
	BH 1, 2, & 4 Dust	June 5, 2024	S	1	G	x	x	x	x	x	x	x	x	x	x						
	BH 3 & 5 Dust	June 5, 2024	S	1	G	x	x	x	x	x	x	x	x	x	x						
	Amtech BH Dust	June 5, 2024	S	1	G	x	x	x	x	x	x	x	x	x	x						
	BH 6 Dust	June 5, 2024	S	1	G		x	x	x	x	x	x	x	x							

Temperature on Arrival
Received on Ice ☐ Yes ☐ No

SAMPLED BY (PRINT NAME)	SAMPLED BY (SIGNATURE TO INITIATE COC)	DATE	TIME
Evan Arachikavitz		June 5, 2024	

SAMPLES RECEIVED BY (SIGNATURE)	DATE	TIME	CONDITION	SAMPLES RELINQUISHED BY (SIGNATURE)	DATE	TIME	CONDITION
					6/5/24	1455	

ENVCOC-01 (REV.4/2012)

6/13/2024