

IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION

NOTE: Completion of this form requires reference to Chapter 40, Code of Federal Regulations (CFR), Part 261. Please type or print in ink. Complete each item in its entirety.

SEND TO
Special Waste Authorization
Environmental Protection Division
Department of Natural Resources
Henry A. Wallace Building, 502 East 9th Street
Des Moines, IA 50319-0034

PHONE 515/281-3426

PART I - GENERAL INFORMATION

IS THIS A REQUEST FOR RENEWAL OF A CURRENT SPECIAL WASTE AUTHORIZATION(SWA)? Yes ☐ No ☐
IF YES, SWA NUMBER IS -

| | | | | |
|--------------------|---|--|-----------------------------|-----------------------|
| WASTE GENERATOR | NAME Iowa State University c/o Environmental Health and Safety | | | |
| | ADDRESS 118 Agronomy Lab | | CITY Ames | STATE IA |
| | NAME OF CONTACT PERSON Bill Diesslin | | TITLE Assistant Director | PHONE 515 294-2105 |
| | ZIP 50011 | | | |
| DISPOSAL SITE | NAME Boone County Landfill | | | |
| | ADDRESS 1268 224th LN | | CITY Boone | STATE IA |
| ZIP 50036 | | | | |

PART II - WASTE CHARACTERIZATION

| | | | | | |
|--------------------|---|----------------------------|--|--------------------|---|
| IDENTIFI CATION | NAME OF WASTE incinerator bottom ash | | SOURCE OF WASTE ISU Vet Med Incinerator | | |
| | GENERATION PROCESS incineration of animal carcasses, bedding and veterinary medical wastes | | | | WASTE ON HAND FOR IMMEDIATE DISPOSAL LBS. 1,500 lbs |
| DISPOSAL RATE | WEIGHT PER DISPOSAL 4,000 lbs | | TIME PERIOD BETWEEN DISPOSALS every other month | | |
| | BASIC PHYSICAL STATE AT 70°F (room temperature) <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge | PERCENT SOLIDS 100 % | pH (if solid, use 10% distilled water) 10.8 | FLASH POINT n/a | PAINT FILTER LIQUIDS TEST n/a <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| | HAS ANY PRETREATMENT BEEN UTILIZED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | If Yes, describe. incineration | | |
| | | | | | |

NECESSARY
SAFETY
EQUIPMENT
FOR
HANDLING
WASTE

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Protective clothing/suit | <input type="checkbox"/> Respirator | <input type="checkbox"/> Absorbent |
| <input checked="" type="checkbox"/> Rubber gloves | <input type="checkbox"/> Gas mask | <input type="checkbox"/> Portable eye wash/shower |
| <input checked="" type="checkbox"/> Rubber boots | <input type="checkbox"/> Self-contained breathing apparatus | <input type="checkbox"/> Pump truck w/water |
| <input type="checkbox"/> Face shield/goggles | | <input type="checkbox"/> Lime => lbs |
| <input type="checkbox"/> Type "B" fire extinguisher/ fire blanket | <input type="checkbox"/> Other (specify) | <input type="checkbox"/> None |

CONDUCT AND SUBMIT A LABORATORY ANALYSIS AS DESCRIBED ON PAGE 3

RCRA
APPLIC
ABILITY
(you may
need
laboratory
results to
complete
this item)

Is this waste a listed hazardous waste under RCRA? If the answer is yes, give the EPA hazardous waste number.

No

Is this waste a characteristic hazardous waste under RCRA? If the answer is yes, give the EPA hazardous waste number.

No

When appropriate give Toxicity Characteristic Leaching Procedure (TCLP) test results.

Does this waste contain greater than 50 ppm of PCB's?

No

Does this waste contain greater than 200 ppm carcinogenic PAH's?

No

Does this waste contain greater than 500 ppm total PAH's?

No

PART III - OTHER USES FOR WASTE

INDICATE ALTERNATIVE USES FOR THE GENERATED (OTHER THAN DISPOSAL) AND REASONS NOT UTILIZED

There are no practical uses for incinerator bottom ash.

PART IV - CERTIFICATION

"I certify under penalty of law (§455B.417.1(c), Code of Iowa) that I have personally 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. I am aware that there are significant penalties for submitting false information concerning hazardous waste, including the possibility of fine and imprisonment." Further, I am aware that the Special Waste Authorization for this waste will be voided if false representation occurs.

TYPED NAME

A. David Inyang, Ph.D.

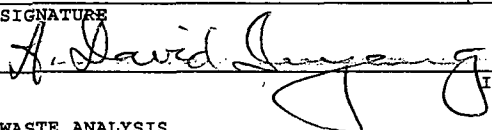
TITLE

Director

DATE

28 August 2003

SIGNATURE



COMPANY

Iowa State University

INSTRUCTIONS FOR LABORATORY ANALYSIS

WASTE ANALYSIS

1. Perform the Toxicity Characteristic Leaching Procedure test outlined in 40 C.F.R. 261, Appendix III. Report all results in mg/l of eluate, mg/kg of original sample. In some cases, if there is reason to believe some of the TCLP constituents are not present, the TCLP metals need only be analyzed for. Contact the department prior to deleting the specific constituents.
2. Provide initial pH of waste.
3. If a virgin product is being disposed, an MSDS sheet may be substituted for the TCLP test. Contact the department for verification.
4. Conduct the paint filter liquids test according to EPA publication SW-846, Third Edition, Test Methods for Evaluating Solid Waste.

Accreditations:
Iowa DNR: 095
New Jersey DEP: IA001
Kansas DHE: E-10287

ANALYTICAL REPORT

August 13, 2003

Work Order: 13H0117

Page 1 of 5

Report To

Roy Bingham
Iowa State University EH & S
118 Agronomy Lab
Ames, IA 50011

Work Order Information

Date Received: 08/05/2003 10:30AM
Collector: Don Fortmann
Phone: (515) 294-5359
PO Number:

Project : TCLP Analysis
Project Number: Vet Med Incin

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|-------------------------------------|--------------|---------|---------|--------------|---------|---------------------------|-----------|
| 13H0117-01 INCIN01 | | | | Matrix:Solid | | Collected: 08/05/03 08:30 | |
| <i>Determination of TCLP Metals</i> | | | | | | | |
| Arsenic (TCLP) | <0.020 mg/l | 0.020 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Barium (TCLP) | 0.130 mg/l | 0.010 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Cadmium (TCLP) | <0.005 mg/l | 0.005 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Chromium (TCLP) | 0.060 mg/l | 0.005 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Lead (TCLP) | <0.005 mg/l | 0.005 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Mercury (TCLP) | <0.0050 mg/l | 0.00500 | 1H30827 | EPA 7470A | MAQ | 08/11/03 10:39 | |
| Selenium (TCLP) | <0.020 mg/l | 0.020 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| Silver (TCLP) | <0.010 mg/l | 0.010 | 1H30803 | EPA 6010B | RVV | 08/12/03 11:35 | |
| <i>TCLP Extraction</i> | | | | | | | |
| TCLP pH, Final | 6.5 pH | | 1H30617 | EPA 1311 | BNS | 08/07/03 11:33 | |
| TCLP pH, Initial | 4.9 pH | | 1H30617 | EPA 1311 | MAQ | 08/06/03 10:57 | |

RECEIVED

AUG 14 2003

ENVIRONMENTAL
HEALTH & SAFETY

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted.
MRL = Method Reporting Limit.

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Environmental Health and Safety
118 Agronomy Lab
Ames, Iowa 50011-3200
515 294-5359
FAX 515 294-9357

CERTIFIED MAIL
Return Receipt Requested

August 28, 2003

Special Waste Authorization
Environmental Protection Division
Department of Natural Resources
Henry A. Wallace Building
502 East 9th Street
Des Moines, IA 50319-0034

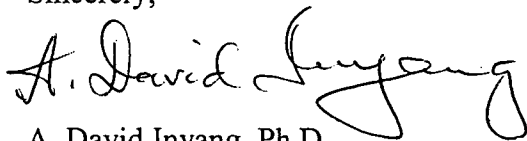
RE: Ash Disposal SWA – ISU Veterinary Medicine Incinerator, Ames, Iowa

Dear Sir or Madam:

Enclosed with this letter is the Request For Special Waste Authorization and analytical results for ash generated at the above referenced facility.

If you have any questions or need additional information regarding this SWA request, please contact Bill Diesslin at (515) 294-2105.

Sincerely,



A. David Inyang, Ph.D.
Director

Enclosures

INCINERATOR ASHES

SPECIAL WASTE ACCEPTANCE CRITERIA

BOONE COUNTY LANDFILL (IDNR Permit No.: 08-SDP-01-75P)

1268 - 224th Lane, Boone, IA 50036

515.433.0591 515.433.0545 (fax)

Material Specific Special Waste Authorization Waste Review and Acceptance: Waste that receives a special waste authorization from the IDNR is NOT automatically accepted for disposal at the Boone County Landfill. Only after the disposal request has gone through the General Waste Review and Acceptance Protocol (see other side) and been determined to be compatible with the Landfill's operations will the waste in question be accepted for disposal.

If Special Waste is accepted by the Landfill on an ongoing basis it shall be subject to periodic testing per the Landfill's determination. The Landfill reserves the right to require the generator to test the waste in question, at their expense and per the Landfill's requirements, as frequently as the Landfill determines is necessary.

Failure of the waste generator to follow these protocols shall result in the waste material being rejected for disposal by the Landfill.

Incinerator Ashes:

- Waste can only be delivered on non-windy days as determined by Landfill staff to minimize fugitive dust emissions.
- The generator must call the Landfill for delivery authorization prior to the load being delivered.
- The Landfill may require the waste material to be "wetted down" to prevent any air migration of the material.
- All loads containing this type of special waste delivered in open vehicles must be securely tarped.
- Waste must be kept separate from all other types of waste and delivered separately to allow for state required waste tracking and reporting.
- The waste generator, or its hauler, must declare the load as special waste to the scale attendant upon delivery. The scale attendant will notify the equipment operator working on the active face of the delivery.
- Waste shall be disposed of in the regular active face
- The waste generator must immediately notify the IDNR and Landfill of any change in process or the waste's characteristics before disposal. The IDNR and/or the Landfill may elect to require a new SWA application and applicable testing to confirm the waste's continued acceptance for disposal.

See other side for General Provisions.