|  | **Type of Waste** | **Chemical****Present?** | **Description** | **Collection & Decontamination** | **Disposal Method** | **Contact information** |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | **Animal Tissue*** **Free-floating in liquid fixative or preservative**
 | **YES*****Contains toxic or hazardous chemicals*** | * Anatomical specimens
* Histology/necropsy/pathology specimens
 | * In closed glass jars
* In other closed containers
 | * Fill out **Chemical Waste Pickup** online form; use the EHS Safety Management System, or use link in next column.
* Print out a copy of this form and attach it to waste.
* Place waste in secondary container (pan).  Put in safe temporary storage location while waste awaits pickup.
 | EHS<https://secure.hosting.vt.edu/www.ehss.vt.edu/programs/LMS/waste_management.php>  |
| **2** | **Animal Carcasses/ Parts Of Carcasses/ Tissue:*** **Associated with research or other procedures involving hazardous chemicals, including chemotheraputics & hazardous drugs**
* **Fixed or unfixed**
* **Not in liquid**
 | **YES*****Contains toxic or hazardous chemicals*** | * May or may not also contain

 rDNA and/ or potentially infectious material* May be anatomical specimens
 | * Store in freezer or cooler in appropriate biohazard bag OR Shaffers, depending on size or volume of material.
* If in bags, label contents clearly: for incineration only.
* If in Shaffers, attach ‘FOR INCINERATION ONLY’ stick-on label to outer surface of each container.
* LABELS ARE AVAILABLE THROUGH EHS.
 | * Arrange for disposal as follows by contacting EHS through online request system (see website listed).
* On the day the contractor is expected to do RMW pickup, place bagged frozen/refrigerated carcasses in **RMW boxes & label each ‘FOR INCINERATION ONLY’.**
* Make sure boxes & Shaffers are located in the designated pickup area.
* Contractor will pick up for incineration.
 | EHS<http://www.ehss.vt.edu/programs/waste_removal.php> |
| **3** | **Animal-Related Products --*** **Associated with research or other procedures involving hazardous chemicals, including chemotheraputics & hazardous drugs**
 | **YES*****Contains toxic or hazardous chemicals*** | * Bedding
* Excreted waste
* Bandage material, gloves, disposable cleaning materials, etc.
 | * Decided on a case-by-case basis as determined by :

 -- chemical agents used  -- circumstances of use -- type of material used, etc. * CONSULT EHS.
 | * IF WASTE IS DETERMINED TO BE CHEMICALLY HAZARDOUS, IT MUST BE DISPOSED OF IN **AN RMW BOX OR SHAFFER MARKED ‘FOR INCINERATION ONLY,**’ AS DESCRIBED ABOVE.
 | EHSchemwaste@vt.edu  |
| **4** | **Companion Animals for Cremation** | **NO****No toxic or hazardous chemicals present** | * These are not eligible for rendering under any circumstances
 | * Store in cooler in cadaver bag.
* Bags will be labeled in accordance with ViTALS Necropsy SOP.
 | Private crematory will visit campus once per week & pick up remains from ViTALS Necropsy lab. | ViTALS Necropsy 231-4619 |
| **5** | **Companion Animals for Disposal** | **NO****No toxic or hazardous chemicals present** | * These are not eligible for rendering under any circumstances
 | * Store in freezer or cooler in appropriate biohazard bag OR Shaffers, depending on size or volume of material.
* If in bags, label contents clearly: for incineration only.
* If in Shaffers, attach ‘FOR INCINERATION ONLY’ stick-on label to outer surface of each container.

LABELS ARE AVAILABLE THROUGH EHS. | * Arrange for disposal as follows by contacting EHS through online request system (see website listed).
* On the day the contractor is expected to do RMW pickup, place bagged frozen/refrigerated carcasses in **RMW boxes & label each ‘FOR INCINERATION ONLY’.**
* Make sure boxes & Shaffers are located in the designated pickup area.

Contractor will pick up for incineration | EHS<http://www.ehss.vt.edu/programs/waste_removal.php> |
| **6** | **Animal Carcasses/****Parts Of Carcasses*** **Unfixed**
* **APPROPRIATE FOR RENDERING:**

 **See ‘Description’ for this criteria**  | **NO****No toxic or hazardous chemicals present** | **If all of these apply:*** NO companion animals-dogs/cats
* NO material consisting of all-heads/spinal cords from cattle
* NO material consisting of all-ovine (sheep) tissues
* NO infectious agents/ NO history of infectious disease/ NO RMW wastes
* NO rDNA molecules used/no transgenic animals
* Fit to go back into the food chain
 | * Collect in white open-top drums provided by Facilities.
* Fluid much be at least 5 inches below rim of drum.
* No material may protrude from drum.
* Drums should be loaded to capacity.
* Filled drums may be left open.
* Improperly filled drums will not be removed for disposal.
 | Valley Proteins will be on campus on Tuesdays and will pick up from the former dry-rendering facility and FS&T building.  Other departments requiring pick up should call & schedule.  | **Facilities****231-9915** **[Valley Proteins](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)****[4857 Poor Mountain Rd](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)** **[Salem, VA 24153](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)** **(540) 380-2032**[**valleyproteins.com**](http://r.search.yahoo.com/_ylt%3DA0LEVu.jbMpUi28A3DgPxQt./RV%3D2/RE%3D1422581028/RO%3D10/RU%3Dhttp%3A//valleyproteins.com/RK%3D0/RS%3DUBX4JLnBod57K8Q0pNM5_lVsY1g-)EHSchemwaste@vt.edu |
| **7** | **Euthanized Animal Carcasses/ Parts Of Carcasses / Tissues*** **No Companion Animals**
* **APPROPRIATE FOR RENDERING:**

 **See ‘Description’ for this criteria** | **YES****Approved euthanasia drugs present** | **If approved drugs were used:*** Sodium thiopental
* Sodium Pentobarbital –

100 or > mg/kg, IV* Sodium pentobarbital 390 mg + sodium phenytoin 50 mg/ml
* Potassium Chloride 1-2 Meq/kg
* Tricaine methane sulfonate (MS-222) – 3g/liter water
* Benzocaine hydrochloride – 250mg/liter water

**IF OTHER DRUGS USED FOR EUTHANISIA, PLEASE CONTACT EHS HAZARDOUS MATERIALS MANAGER TO SEE IF TISSUE CAN BE RENDERED.****IF DRUGS USED DISQUALIFY TISSUE FOR RENDERING, DISPOSE OF TISSUE AS IN ROW 2 OF THIS CHART.** |
| **8**  | **Animal Carcasses/ Tissues/****Parts Of Carcasses*** **Unfixed**
* **NOT APPROPRIATE FOR RENDERING:**

 **See ‘Description’ For This Criteria** | **NO****No toxic or hazardous chemicals present** | **If one or more of these apply:*** Biological hazardous material is involved (infection for research, etc.)
* rDNA molecules are involved
* The animals were genetically modified (transgenic)
* History of infectious disease (animal or human)
* Material deemed infectious to humans by Vet Med pathologist
 | ABSL-1 & ABSL-2 (BL1-N, BL2-N):* Collect in clear autoclavable bags (NO biohazard symbol)
* ***Autoclave\**** or freeze until day of RMW pickup.
* Place in RMW box; tape box seams & label box.
 | **Regulated Medical Waste (RMW) for INCINERATION ONLY**Contractor will pick up on a scheduleRegular trash**Bedding and other solid waste may be disposed of in the dumpster (no carcasses)** | EHSrmw@vt.edu<http://www.ehss.vt.edu/programs/waste_removal.php> |
| ABSL-3 (BL3-N):* Collect in red autoclavable bags with the biohazard symbol.
* ***Autoclave\*;*** place in RMW box; tape box seams & label box.
 |
| **If material is:*****\*Too large to autoclave**** All heads & spinal cords from bovine (cattle)
* All ovine (sheep)
* Any part of any animal that has been  determined to be unfit for rendering or to return to the food chain
 | * Place in 96 gallon containers provided by EHS (Shaffers).
* Store in designated cooler or outer facility.
* Arrangements must be made at least 2 weeks prior to time containers are needed.
 |
| **9** |  **Animal-Related Waste*** **Non-infectious**
* **No rDNA present**
 | **NO****No toxic or hazardous chemicals****present** | Bedding, disposable containers, etc. that are a low risk to humans, animals or the environment (based on a risk assessment). | * Bag the waste before disposal.
 | **Regular Trash****Bedding and other solid waste may be disposed of in the dumpster (no carcasses)** | Contact EHS if you have questions or concerns.rmw@vt.edu |
| **10** |  **Animal-Related Waste*** **Potentially infectious at BSL-1**
 | **NO****No toxic or hazardous chemicals** | Material that has been in contact with biohazardous agents or posing a potential risk to either humans, animals or the environment  (e.g., bedding, disposable caging, related animal waste products, etc.) | ABSL-1 (BL1-N):* Collect in clear autoclavable bags (NO biohazard symbol)
* Autoclave or put in Shaffers if too much to bag
 |
| **11** |  **Animal-Related Waste*** **Potentially infectious or rDNA present**
 | **NO****No toxic or hazardous chemicals** | Material that has been in contact with biohazardous agents or rDNA molecules posing a potential risk to either humans, animals or the environment  (e.g., bedding, disposable caging, related animal waste products, etc.) | ABSL-2 (BL2-N): * Collect in orange autoclavable bags with the biohazard symbol
* Autoclave or put in Shaffers if too much to bag
 | **Regulated Medical Waste (RMW)** | EHSrmw@vt.edu |
|  **SHARPS** | **NO** **No toxic or hazardous chemicals** | Needles, glass slides, broken plastic, scalpel blades (or any other material with a sharp edge or fine point which could puncture a plastic bag) that has been in contact with biohazardous agents or rDNA | * Collect in hard plastic sharps containers with spill proof lids and biohazard symbol. These can be obtained from EHS.
* Autoclave.
 |
| **12** |  **Blood Collection Tubes** | **NO****No toxic or hazardous chemicals** | Discard with tubes capped. | * Collect in hard plastic sharps containers with spill proof lids & biohazard symbol. These can be obtained from EHS.
 |
| **13** | **Liquids** | **NO****No toxic or hazardous chemicals** | Any liquid that has been in contact with biohazardous material or rDNA. | * Autoclave, or add of appropriate amount of commercial disinfectant with appropriate contact time.
 | Pour down sanitary sewer. | Contact EHS if you have questions or concerns.rmw@vt.edu |
| **14** | **Radioactive Material** * **short half-life**
 | **N/A** | Animal carcasses/tissues/waste/ bedding treated  | * Contact RSO.
* Store animal tissue double-bagged in designated rad. Freezer.
* Store other material double-bagged in designated area for Rad. Waste.

RSO will scan for activity before disposal. | **RSO will dispose of material as** **Regulated Medical Waste****FOR INCINERATION ONLY** | Doug SmileyRadiation Safety OfficerEHS231-5364 |
| **15** | **Radioactive Material*** **Long half-life, low concentration**
 | **N/A** | Animal carcasses/tissues/waste/ bedding containing C-14 or tritium at **≤ 0.05 µCi per gram** | * Contact RSO.
* Store tissues double-bagged in designated rad. Freezer until pickup.
* Store other material double-bagged in designated area for Rad. Waste until pickup.
 | **RSO will dispose of material as** **Regulated Medical Waste****FOR INCINERATION ONLY** | Doug SmileyRadiation Safety OfficerEHS231-5364 |
| **16** | **Radioactive Material** * **Long half-life, high concentration**
 | **N/A** | Animal carcasses/tissues/waste/ bedding containing C-14 or tritium at **>** **0.05 µCi per gram** | * Contact RSO.
* Store tissues double-bagged in designated rad. Freezer until pickup.
* Store other material double-bagged in designated area for Rad. Waste until pickup.
 | **RSO will dispose of material as** **RADIOACTIVE WASTE FOR INCINERATION ONLY & BURIAL IN LICENSED FACILITY** |
| **IF RADIOISOTOPES OTHER THAN C-14 OR TRITIUM ARE USED, PLEASE CONSULT THE RADIATION SAFETY OFFICER FOR PROPER DISPOSAL METHOD.** |  |

NOTE: EHS picks up boxed RMW from laboratories; Sci-Med is on campus three times per week to pick up collected RMW from central sites.

1) For specific packaging requirements for RMW, please see: <http://www.ehss.vt.edu/programs/WRM_packaging.php>

2) To schedule a REGULATED MEDICAL WASTE pick up, please see: <http://www.ehss.vt.edu/programs/WAS_rmw_removal.php>

1. To schedule a CHEMICAL WASTE pick up, please see: <https://secure.hosting.vt.edu/www.ehss.vt.edu/programs/LMS/waste_management.php>

or schedule through the EHS Safety Management System: [www.ehss.vt.edu](http://www.ehss.vt.edu)