

Environmental letter III- November 2018

This letter is to inform about ongoing environmental work at Stockholm University and MBW department.

External environmental Audit

Stockholm University is ISO 14001:2015 certified. In September, an external environmental audit was carried out at the university. The audit resulted in four deviations. If you want to know more about this, please don't hesitate to contact Jenny Lilliehöök, jenny.lilliehook@su.se, office no. 08 16 39 88.

Internal Environmental Audit December 2018 at MBW

At the beginning of December, an internal environmental audit will take place at our department. SU-environmental internal auditor (Margaretha Åkerholm) is auditing MBW-environmental work, which includes handling of chemicals and wastes in our laboratories.

It is important that we minimize our impact on the external environment. We strive to accomplish this through correct management of chemicals, waste, purchase of laboratory material and energy consumption. Further, it is also essential that we all are familiar with the University's environmental policy as well as with the University's environmental procedures and guidelines. If you have any questions regarding our direct environment effects (to earth, water, and air), please contact MBW Environmental Representative Heinrich von Fircks, heinrich.vonfircks@su.se

You will find SU-environmental policy and MBW routines for waste management and disposal of glass attached to this letter. Containers for plastic, cardboard, metal and glass are located in the southern part of the corridor on floor E2. If you have any questions or suggestions, please don't hesitate contact Beatriz Campos, beatriz.campos@su.se

Send in suggestions to MBWs environmental action plan 2019

Through our local environmental action plan – MBWs Environmental Action Plan (currently only available in Swedish) – we create structure for our ongoing environmental work and visualize the activities that are taking place at the department. It also gives everyone the opportunity to make suggestions and comments on how environmental work can be developed within MBW during the coming years.

MBW will make an environmental action plan for 2019 during November. The plan will be approved by the Department board in December/January. Please contact MBW-environmental group, Heinrich von Fircks (heinrich.vonfircks@su.se) or Beatriz Campos (beatriz.campos@su.se) with suggestions and ideas in the following areas:

- Research, education and interaction with the society
- Use of paper
- Energy
- Travel and transportation
- Material use in office
- Purchasing of equipment
- Competence development for staff
- Material use in laboratories
- Emissions to water
- Chemical management
- Waste management

Find more information at SU-environmental website: <https://www.su.se/sustainablecampus/>



Stockholms
universitet

DECISION
2016-04-07

Dnr SU FV-2.10.1-2775

Rektor

Jenny Lilliehöök
Environmental Coordinator

Environmental Policy for Stockholm University

Stockholm University should work continuously to reduce its negative impact on the environment. In addition, the University should disseminate knowledge on issues relating to the environment and sustainable development, as well as create awareness of and commitment to environmental issues at the University and in the surrounding community. In its efforts to constantly improve, Stockholm University should:

- Wherever possible, follow standards higher than the laws and minimum requirements placed on the University's operations;
- Continuously review measures to reduce the use of natural resources and the environmental impact of air, land, and water pollution caused directly or indirectly by the University's operations;
- Work to ensure that aspects relating to the environment and sustainable development are considered in all relevant decisions;
- Work to ensure that all employees are made aware of the importance of systematic environmental work;
- Actively collaborate with students, the student union, the community, and other stakeholders on issues relating to the environment and where the environmental work can be improved;
- Ensure that sufficient resources are allocated to the continuous improvement of environmental performance, and that these resources are used in the most effective manner.

In effect until 2020-11-01





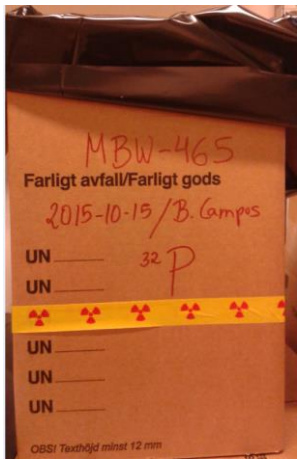
Astrid Söderbergh Widding

Jenny Lilliehöök

Distribute to: head of department (or equivalent)

Hazardous waste management

ALWAYS WEAR PROTECTION GLOVES, LAB COAT and SAFETY GLASSES.

HAZARDOUS WASTE			
	Biological or Infectious or Sharp	Chemical	Low Radioactive (max 50 kBq)
Examples	Petri plates and other containers from the cell culture. Needles, scalpels and pipette tips. Contaminated material as gloves and paper towels. Test animals. GMM-genetically modified microorganism GMO-genetically modified organism Antibiotics	Contaminated material as gloves and paper towels. Small vials with chemical residues. Empty chemical bottles. Residues of solvents. Residues of acrylamide, EtBr, agarose, phenol.	Scintillation bottles, contaminated materials, such as gloves and paper towels, plastic, glass, solutions, precipitates, etc.
Packing	*Sharp waste is collected in secure and labeled small containers, packed in yellow 50 l container. *Liquid waste is collected in secure and labeled plastic bottles, and packed in yellow 50 l container. *Other waste is collected directly in the yellow 50 l container.	*Liquid waste is collected in secure labeled plastic bottles and placed in the fume hood in the lab. Organic liquid waste and halogenated liquid waste is collected separately. Note! Don't mix substance that react. *Other waste is packed into boxes for hazardous waste with a black plastic bag in and is placed in the lab.	*Liquid waste is collected in plastic bottles, packed in box for hazardous waste with a black plastic bag in and vermiculite. The box is placed in the isotope lab in a Plexiglas box. Liquid waste must not exceed 5 liter/box. * Other waste is packed into boxes for hazardous waste with a black plastic bag in and placed in the isotope lab in a Plexiglas box. Detailed info is found in the isotope lab.
Labeling	When placing a new 50 l yellow container in the lab, it is marked by the user on the short side with: * Sticker for "infectious substance" * Text (with marker pen): MBW-465 and group name. UN 3291: Transport code for dangerous goods  By placing a new small bottles in the lab, it is marked by the user with the label for infectious substance. 	When placing a new box for hazardous waste in the lab, it is marked by the user with: *Text(with marker pen): MBW-465 and group name.  When placing a new bottle for hazardous liquid waste in the lab, it is labeled by the user with: *Sticker for: toxic, flammable or infectious waste. *Text (with marker pen) MBW-465 and group name. *Text (with marker pen): Halogenated or non-halogenated liquid waste. MBW-465 and group name. 	When placing a new plastic bottle or box for radioactive waste in the lab, it is marked by the user with: *Text (with marker pen): MBW-465, name and date. *Text (with marker pen): radionuclide symbol. *Tape with warning symbol for ionizing radiation. 
Disposal	When 50 l yellow container is full, put the lid on and leave it in room F438a. Animal house facility has its own routines.	Full boxes and plastic bottles for hazardous waste are left in room F438a.	Only low-level radioactive waste, max 50 kBq. Please contact Technical staff or leave radioactive waste directly in room A205 on Wednesday, 09:45-10:15.

This document is a summary of the procedures that apply SU and MBW. Please, read more:

- SU Management Procedures:

http://www.su.se/polopoly_fs/1.178497.1400845176!/menu/standard/file/waste%20management%20procedures.pdf

- MBW lab safety documents:

<http://www.su.se/mbw/sve/internt/milj%C3%B6-och-s%C3%A4kerhetsinformation/labbs%C3%A4kerhet-lab-safety>

Stockholm University has an environmental policy to reduce dangerous emissions. Therefore it is important that we at MBW try to minimize the emission of solvents into public drains and instead leave it as hazardous waste when possible. Contaminated lab materials are rinsed in water, methanol or acetone before the material is safely washed.

Please use empty plastic bottles from the lab to collect waste when possible.

Contact technical personnel if you have questions. T.A staff supplies with all the material necessary to handle hazardous waste properly. Contact: Beatriz Campos, beatriz.campos@su.se, 0701808268, room F355a.

RISKAVFALL/HAZARDOUS WASTE



If you have any questions or suggestions, please don't hesitate contact beatriz.campos@su.se

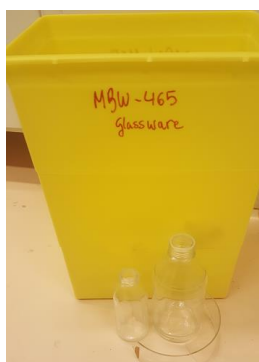


Disposal of laboratory glassware

- **Contaminated laboratory glass** (whole or broken) with residues of chemicals, microorganisms or radioactivity cannot be recycled. It is handled as hazardous waste. It must be packed in approved containers marked as chemical, biological or radioactive waste and leave at **F438**.



- **Non-contaminated laboratory glass** (whole or broken) that contains borosilicate cannot be recycled. It is packed in yellow containers, labelled MBW-465 glassware and your group name and left at **F438**. Example: beakers, Erlenmeyer bottles, bottles for media.



- **Non-contaminated laboratory glass** (whole or broken) that not contains borosilicate or it has been used as a container can be recycled. But first glass must be emptied, well cleaned and rest of solvents evaporated. After that place it in recycling container for coloured or clear glass at **F2**. Example: bottles for solvents, glass pipettes, jars.

