



Status of national samples at Örebro University – Africa region

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Content

- Samples and sampling
 - Procedures and status of samples received
- Transport

Export of national samples

- May need special arrangements at national level
 - Collecting samples; shopping
 - Customs requirements
 - Export of "genetic" information
- Sample preparation
 - Splitting (according to lab, group of analytes)
 - Drying, freeze-dry, freezing
 - Packaging in glass bottles, plastic bottles, aluminum foil; original packaging
- Shipment requirements
 - Cooling
 - "biological" matrices
 - Costs

Import of national samples

- No/few problems with abiotic samples
 - Soil maybe problematic
- Expert laboratories located in European Union (EU) – import of (biological/food) sample NOT permitted
- Örebro University has been granted a permit to import biological/food samples

EUROPEAN COMMUNITY

The Common Veterinary Entry Document, CVED

- From Jordbruksverket; Swedish Board of Agriculture (CITES section)
- For 2 years and the following groups of food for diagnostic purposes:
 - Fish: wild or commercial
 - Meat: Beef, lamb, chicken, pork
 - Eggs: chicken

List of permitted foods and originating countries



JORDBRUKSVERKET

2017 -12- 04

Dnr.....

Bilaga

Anmälan/Ansökan för införsel av animaliska produkter och biprodukter

Örebro universitet

| Produktslag | Djurart | Typ av djur | Antal/ mängd | Bearbetad | Avsändar-/ursprungsland | |
|--|--|--|------------------------|--------------------------------|---|---|
| Fisk | Havsabborre, tilapia, gädda, abborre, makrill, sill, | Vilt djur eller odlad Kommersiell produkt (färskvattenfisk eller havsfisk) | 50st 500 g | Färsk/fryst eller lyofiliserad | Antigua-Barbuda Argentina Barbados Brazil Cambodia Chile Colombia DR Congo Ecuador Egypt Ethiopia Fiji Ghana Indonesia Jamaica Kenya Kiribati Lao PDR Mali Marshall Islands Mauritius Mexico | Mongolia Morocco Netherlands* Nigeria Niue Palau Peru Philippines Samoa Senegal Solomon Islands Spain* Tanzania Thailand Togo Tunisia Tuvalu Uganda Uruguay Vanuatu Vietnam Zambia |
| Ägg | Höna <i>gallus domesticus</i> | Domesticerad | 50st 600g färskvikt | Färsk/fryst eller lyofiliserad | | |
| Smör och annan produkt från komjolk högst 85% fettvikt | Nötkreatur <i>bos taurus</i> | Domesticerad | 50st 250 g | Originalförpackning | | |

* Netherlands and Spain are partner countries and may receive from the developing country and forward the shipment to MTM Örebro University


Permit letter:

Dnr. 6.7.18-18503/17

Import until 2019-12-18

Valid until 2020-12-18

MTM Research Centre, Örebro
University will serve as point of
entrance into the EU for samples
being analyze by:
E&H VU Amsterdam and CSIC



**Jordbruks
verket**

Enheten för CITES, foder och djurprodukter
James Bonet

1(4)

BESLUT Dnr 6.7.18-18503/1
Delg.

2017-12-19

Örebro universitet
School of Science and Technology
MTM research center
Fakultetsgatan 1
70182 Örebro

Ansökan om tillstånd för import, transport och användning av prover för forskning och diagnostik

Jordbruksverkets beslut

Jordbruksverket registrerar dig som driftsansvarig och bifaller ansökan och medger dig tillstånd för import, transport och användning enligt ansökan.

Jordbruksverket bortser från ansökan gällande import från länder inom EU.

Du får registreringsnummer SE 1850317.

Villkor för beslut

- materialet ska föras över direkt till tillståndsinnehavarens anläggning,
- ett förbud mot varje senare användning av produkterna för andra ändamål än de i ansökan, och
- en skyldighet att, i förekommande fall, på ett säkert sätt bortskaffa produkterna eller återsända dem till ursprungsorten.

Jordbruksverket kan återkalla tillståndet om villkoren för beslutet eller de krav som lagstiftningen ställer inte följs.

Om lagstiftningen ändras kan beslutet komma att omprövas.

Beslutet om tillstånd för användning gäller i tre år från och med den dag då beslutet fattades vilket innebär att beslutet är giltigt t.o.m. **18 december 2020**.

Beslutet om importtillstånd gäller i två år från och med den dag då beslutet fattades vilket innebär att det beslutet är giltigt t.o.m. **18 december 2019**.

Jordbruksverket | 551 82 Jönköping | 036-15 50 00
www.jordbruksverket.se | jordbruksverket@jordbruksverket.se

Receipt



Enheten för CITES, foder och djurprodukter

2017-12-20

Dnr 6.7.18-18503/17
Delgivn.nr. 249

Örebro Universitet
School of Science and Technology
MTM reserch center, Fakultetsgatan 1
701 82 Örebro

DELGIVNINGSKVITTO

Ärende

6.7.18-18503/17

Handling

Beslut om tillstånd för import, transport och användning

Import papers are with Heidi Fiedler's e-mail and mobile phone number with

- Swedish customs
- DHL

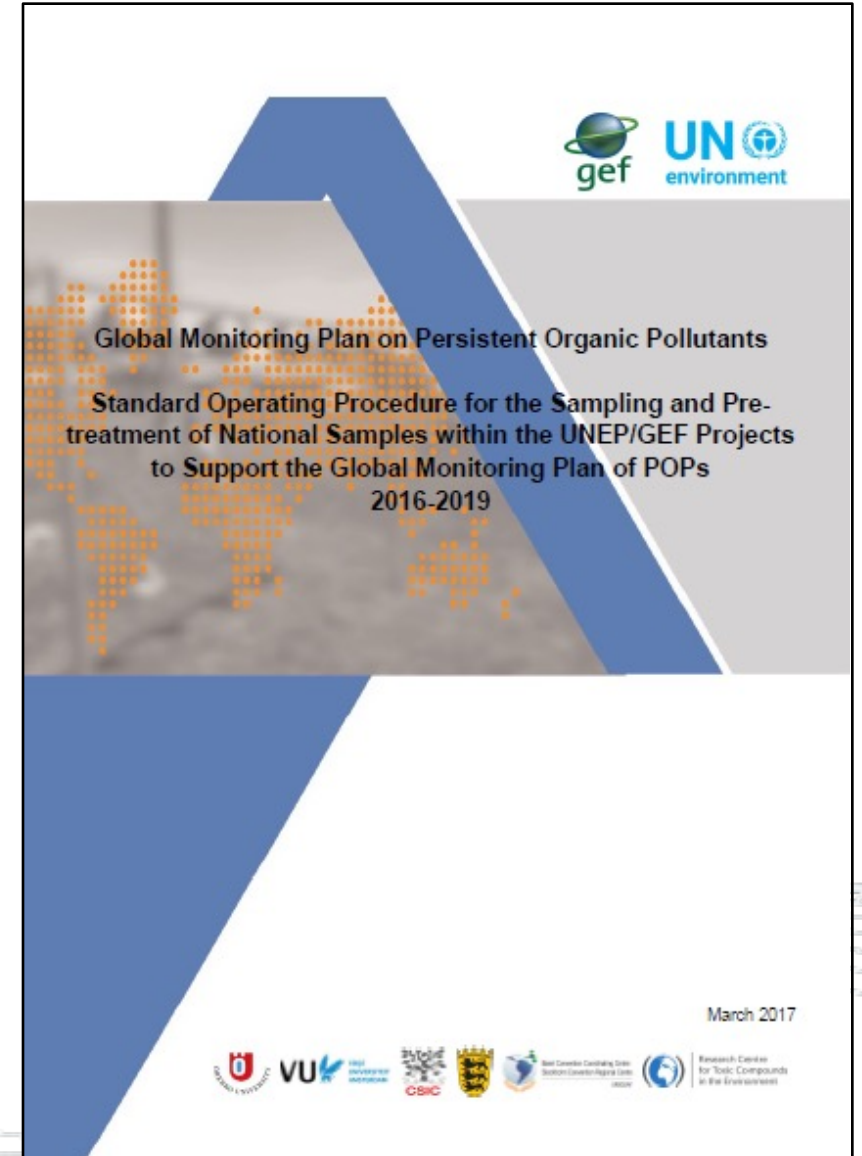
Assignment of national samples, analytes and reference laboratories

| Africa | |
|--|--------------------|
| National samples for shipment to VU Amsterdam | Number per country |
| OCPs(all)+PCB(6) | 10 |
| PBDE+PBB+HBCD screening | 7 |
| toxaphene | 2 |
| HBCD isomers | 2 |
| National samples for shipment to Örebro University | Number per country |
| dl-POPs | 5 |
| PFOS | 7 |

Guideline

- For samples other than the core matrices.
- All countries to collect fish
- Please observe the amounts to be collected

- Samples should state: Samples are
 - For diagnostic purposes
 - Not toxic
 - Not for human consumption
 - Do not have a commercial value



Ethiopia (present status)



| Country | Sample type | Sample | Mass (g) | Packaging | Received MTM | Analytes |
|---------|-------------|------------------|----------|-------------------------|-----------------|----------|
| ETH | soil | SO-1 Lake Zeeway | | brown glass jar | 2018-04-23 | |
| ETH | soil | SO-2 Lake Hawasa | | brown glass jar | 2018-04-23 | |
| ETH | sediment | SD-1 Lake Zeeway | | brown glass jar | 2018-04-23 | |
| ETH | sediment | SD-2 Lake Zeeway | | brown glass jar | 2018-04-23 | |
| ETH | sediment | SD-3 Lake Hawasa | | brown glass jar | 2018-04-23 | |
| ETH | sediment | SD-1 Lake Zeeway | | white plastic container | 2018-04-23 | |
| ETH | sediment | SD-3 Lake Hawasa | | white plastic container | 2018-04-23 | |
| ETH | sediment | Eth-Sediment3 | | white plastic container | 2018-04-23 | |

Ghana (via E&H VU Amsterdam) –present status



| Country | Sample | Sample | Sample ID | Mass (g) | Packaging | Pretreatment | Received | Analytes |
|---------|----------|--------------------------------------|-------------|----------|-------------|--------------|------------|----------|
| GHA | fish | Fish 4, catfish; Clarias spp. | GHA-MTM-A1 | 100 | brown glass | deep frozen | 2018-02-13 | |
| GHA | fish | Shellfish 1, clams: Galatea paradoxa | GHA-MTM-A2 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | sediment | sediment 2 | GHA-MTM-A3 | 50 | Brown g. | air dried | 2018-02-13 | |
| GHA | sediment | Sediment 1 | GHA-MTM-A4 | 50 | Brown g. | air dried | 2018-02-13 | |
| GHA | fish | Fish 1, tilapia zillii | GHA-MTM-A5 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | fish | Fish 3, tilapia zillii | GHA-MTM-A6 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | sediment | sediment 1 | GHA-MTM-A7 | 50 | Brown g. | air dried | 2018-02-13 | |
| GHA | fish | Fish 1, tilapia zillii | GHA-MTM-A8 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | fish | Fish 4, catfish; Clarias spp. | GHA-MTM-A9 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | sediment | sediment 2 | GHA-MTM-A10 | 50 | Brown g. | air dried | 2018-02-13 | |
| GHA | fish | Fish 2, Catfish: Clarias spp. | GHA-MTM-A11 | 100 | Brown g. | deep frozen | 2018-02-13 | |
| GHA | fish | Shellfish 1, clams: Galatea paradoxa | GHA-MTM-A12 | 100 | Brown g. | deep frozen | 2018-02-13 | |

Kenya - Separated between analyte groups



| Country | Sample type | Sample | Sample ID | Mass (g) | Packaging | Received MTM | Analytes |
|---------|-------------|----------------------|------------------|----------|---------------|--------------|----------------|
| KEN | fish | KEN-MTM-A1- FIS1A | fish 1 A | 100 | brown glass | 2018-06-14 | dl-POPs |
| KEN | fish | KEN-MTM-A2-FIS 2A | fish 2 A | 100 | brown glass | 2018-06-14 | dl-POPs |
| KEN | fish | KEN-MTM-A6- FIS 1B | Fish 1 B | 100 | white plastic | 2018-06-14 | PFOS |
| KEN | fish | KEN-MTM-A7- FIS 2B | Fish 2 B | 100 | white plastic | 2018-06-14 | PFOS |
| KEN | egg | KEN MTM A 3A EG 1A | Egg 1A | 100 | brown glass | 2018-06-14 | |
| KEN | egg | KEN MTM A 12 EG 2 | Egg 2A | 100 | brown glass | 2018-06-14 | |
| KEN | egg | KEN MTM A3 B EG 1B | Egg 1B | 100 | brown glass | 2018-06-14 | |
| KEN | egg | KEN MTM A4 B EG 2B | Egg 2B | 100 | brown glass | 2018-06-14 | |
| KEN | dairy | KEN MTM A5 MK 1 A | cowmilk 1A | 100 | brown glass | 2018-06-14 | |
| KEN | dairy | KEN MTM A9 Mk 2A | cow milk 2A | 100 | brown glass | 2018-06-14 | |
| KEN | dairy | KEN MTM ALB MK 1B | cow milk 1B | 100 | white plastic | 2018-06-14 | PFOS |
| KEN | dairy | KEN MTM ALB MK 2B | cow milk 2B | 100 | white plastic | 2018-06-14 | PFOS |
| KEN | sediment | KEN MTM 7A SED 1 | River Sediment 1 | 50 | brown glass | 2018-06-14 | |
| KEN | fish | KRN VU E&H A1 FIS 1 | Lake fish | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | fish | KEN VU E&H A2 FIS 2 | Lake fish | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | sediment | KEN VU A3 SL 1 | Sediment 1 | 50 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | sediment | KEN VU E&H SL 2 | Sediment 2 | 50 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | sediment | KEN VU A5 SED 1 | Ocean Sediments | 50 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | sediment | KEN VU E&H A6 Sed 2 | River sediments | 50 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | egg | KEN VU E&H A 7 EG 1 | Chicken eggs 1 | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | egg | KEN VU E&H A 8 Eg A2 | Chicken eggs 2 | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | dairy | KEN VU E&H A9 MK1 | Cow milk 1 | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | dairy | KEN VU E&H A 10 MK2 | Cow milk 2 | 100 | brown glass | 2018-06-14 | OCPs, BRF, PCB |
| KEN | sediment | KEN VU A12 SED 1 | River Sediments | 50 | brown glass | 2018-06-14 | OCPs, BRF, PCB |

Senegal

| Country | Sample type | Sample | Packaging | Received MTM | Analytes |
|---------|-------------|-------------|-----------|--------------|---------------|
| SEN | Sediment | Sediment | white PE | | dl-POPs, PFAS |
| SEN | dairy | Cow milk | white PE | | dl-POPs, PFAS |
| SEN | egg | Chicken egg | white PE | | dl-POPs, PFAS |
| SEN | fish | fish | white PE | | dl-POPs, PFAS |

Uganda – present status



| Country | Sample type | Sample | Sample ID | Mass (g) | Packaging | Received MTM | Analytes |
|---------|-------------------|--------------|---------------|----------|------------------------|--------------|----------------|
| UGA | meat | Beef | UGA/2/MTM | 150 | brown glass, frozen | 2018-02-15 | dl-POPs, PFAS |
| UGA | egg | Chicken eggs | UGA/3/MTM | 325 | Plastic bottle, frozen | 2018-02-15 | dl-POPs, PFAS |
| UGA | dairy | Cow milk | UGA/5/MTM | 891 | brown glass, frozen | 2018-02-15 | dl-POPs, PFAS |
| UGA | meat | Chicken meat | UGA/6/MTM | 100 | brown glass, frozen | 2018-02-15 | dl-POPs, PFAS |
| UGA | dairy | Farm butter | UGA/11/MTM | 131 | Al foil, frozen | 2018-02-15 | dl-POPs, PFAS |
| UGA | water | water | UGA/12/MTM | 1,000 | Plastic bottle, frozen | 2018-03-22 | PFAS |
| UGA | sediment | sediment | UGA/4/MTM | 101.98 | brown glass, frozen | 2018-03-22 | dl-POPs, PFAS |
| UGA | fish | fish | UGA/7/MTM | 32 | brown glass, frozen | 2018-03-22 | dl-POPs, PFAS |
| UGA | shipped tp E&H VU | | UGA/9/IVM/VU | | brown glass bottle | 2018-02-15 | OCPs, BRF, PCB |
| UGA | shipped tp E&H VU | | UGA/10/IVM/VU | | brown glass bottle | 2018-02-15 | OCPs, BRF, PCB |

Thank you