

**Deepwater Horizon Oil Spill (DWHOS)
Water Column Technical Working Group**

**Addendum to:
NRDA 10-meter MOCNESS Spring 2011 Plankton Sampling Cruise Plan**

Sampling Vessel: M/V *Meg Skansi*

June 16, 2011

Prepared by:

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on behalf of the Trustees

Reviewed by:

NOAA: Branden Blum, Dan Hahn, John Quinlan

Louisiana: Amanda Vincent (LOSCO)

BP: William Graeber, Jeffery Simms, Amy Piko (Cardno ENTRIX) and Joyce Miley (BP)
on behalf of BP

Cruise Dates

April 18 – June 30, 2011

Except as amended herein, all provisions of the NRDA 10-meter MOCNESS Spring 2011 Plankton Sampling Cruise Plan remain in effect.

Background/ Justification

The cooperative spring 2011 *Meg Skansi* deep water 10-m² MOCNESS sampling plan is being undertaken according to the agreed-upon and signed cruise plan (see above-named plan for details). This addendum incorporates into the plan the archiving of tissue samples, at the discretion of the Chief Scientist. The archived samples would be available for potential future analyses.

Since all 10-m MOCNESS sampled material is being preserved in formalin, as specified in the plan, taking tissue samples and preserving them in ethanol would allow more flexibility in performing genetic or other analyses in the future, such as may be used for taxonomic identification purposes. The tissue samples may be taken from an individual of interest (the voucher specimen) before being fixed in 10% buffered formalin. Once the tissue sample is extracted, the voucher specimen is either marked or partitioned inside of the sample jar from the rest of the formalin preserved sample from that net. Thus, taking of tissue samples does not affect the quantification of densities to be performed using samples from the nets of the MOCNESS.

Methodology

Sampling Stations and Procedures

Sampling stations and procedures will be unchanged from the original plan.

Tissue Samples

Small tissue samples of taxa of special interest (e.g., damaged specimens, potential new species, taxonomically challenging taxa) may be taken prior to formalin fixation. Tissue samples will be taken in a separate lab to prevent DNA degradation by formalin. Using a new razor blade and wearing new gloves, a technician will take a sample (right side of fish only) and store in a microcentrifuge tube topped off with 95% un-denatured ethanol. An archival paper label tag will be placed in each tube with tissue sample. Voucher specimens from each tissue sample will be identified with a plastic tissue tag attached to the specimen via thread. Each voucher tag will have a corresponding archival paper tissue tag. Vouchers will be fixed in a buffered 10% (v/v) formalin/seawater solution.

At the end of each leg, samples will be transported under NOAA NRDA Chain of Custody to an approved laboratory for secured archive storage. Samples may be processed and data distributed as described in a separate workplan (to be developed, as needed).

Sample and Data Management: All samples, logs, Chain-of-Custody forms, and related electronic data (including photographs) will be controlled and managed by the trustees under project protocols, including Chain-of-Custody tracking of electronic data and the hard drives. Data is generally organized by station and all electronic data files will be filed into this structure by NOAA NRDA data manager with the assistance of the operator/data logger. All electronic data (including photographs) will be saved to an on-board computer, and all data shall be migrated to a dedicated hard drive. The electronic data will be duplicated in full immediately following the cruise and provided to (1) the Louisiana Oil Spill Coordinator's Office (LOSCO) on behalf of the State of Louisiana, and to (2) Cardno ENTRIX on behalf of BP. The original hard drive with electronic data shall be kept in a secure facility in trustee custody.

By the end of the cruise, all documentation produced onboard, including COCs, field notes, sampling logs, sampling forms, photos, photo logs, ship logs, and GPS tracking shall be transferred to the NOAA NRDA Sample Intake Team following NRDA data management protocols. An identical copy of all documentation will be provided to LOSCO, on behalf of the State of Louisiana, and to BP/Cardno ENTRIX at the end of the cruise.

Sample Retention

All materials associated with the collection or analysis of samples under these protocols or pursuant to any approved work plan, except those consumed as a consequence of the applicable sampling or analytical process, must be retained unless and until approval is given for their disposal in accordance with the retention requirements set forth in paragraph 14 of Pretrial Order # 1 (issued August 10, 2010) and any other applicable Court Orders governing tangible items that are or may be issued in MDL No. 2179 IN RE: Oil Spill by the Oil Rig "DEEPWATER HORIZON" (E.D. LA 2010). Such approval to dispose must be given in writing and by a person authorized to direct such action on behalf of the state or federal agency whose employees or contractors are in possession or control of such materials.

Budgeting

There will be no change to the budget as the result of this amendment.

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Sampling Vessel: M/V *Meg Skansi*

Cruise Dates: 14 April – 30 June 2011

Plan Date: June 16, 2011

Approvals

Approval of this work plan is for the purposes of obtaining data for the Natural Resource Damage Assessment. Parties each reserve its right to produce its own independent interpretation and analysis of any data collected pursuant to this work plan.

BP Approval	<u>Robin Felleck</u> Printed Name	<u>[Signature]</u> Signature	<u>7/19/11</u> Date
Federal Trustee Approval	<u>Lisa DiPinto</u> Printed Name	<u>[Signature]</u> Signature	<u>6/20/2011</u> Date
Louisiana Approval	<u>KAROLINA DEBROSSCHER</u> Printed Name	<u>[Signature]</u> Signature	<u>7/27/2011</u> Date <i>FOR KOC AND CUIRY</i>