

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

**Addendum to:
NRDA Spring 2011 Plankton Imaging Sampling Cruise Plan**

Sampling Vessel: R/V *Oceanus*

April 7, 2011

Prepared by:

Deborah French-McCay, Eileen Graham (ASA) on behalf of the Trustees

Reviewed by:

Dan Hahn (NOAA) and Amanda Vincent (LA) on behalf of the Trustees
William Graeber, Jeffery Simms (Cardno ENTRIX), on behalf of BP

Cruise Dates

March 1 – April 18, 2011

Background

The NRDA Spring 2011 Plankton Imaging Sampling Cruise Plan, utilizing the R/V *Oceanus*, is presently underway as a signed cooperative cruise (date of the signed plan: 2011 March 8, signed March 9). This addendum documents the use of an instrument package being utilized on the cruise, which was inadvertently left out of the cruise plan.

Methodology

Sampling Procedures

In addition to the other sensors identified in the 2011 March 8 cruise plan, the ABS will be used. It is mounted on the VPRII or with the CTD package.

ABS: The Aquascat 1000 (ABS, Attachment 12) to detect and quantify the presence of particles, *in situ*.

Data Management and Trustee Oversight: All profile, acoustic, and other electronic data will be saved to an on-board computer, and all data shall be migrated to a dedicated hard drive. The data will be controlled and managed by the trustees under project protocols, including Chain-of-Custody tracking of the hard drive. The hard drive will be duplicated in full immediately following the cruise, and the duplicate hard drive will be provided to Cardno ENTRIX on behalf of BP. The original hard drive shall be kept in a secure facility in trustee custody.

Budgeting:

The Parties acknowledge that this budget is an estimate, and that actual costs may prove to be higher due to a number of potential factors. As soon as factors are identified that may increase the estimated cost, BP will be notified and a change order provided describing the nature and cause for the increase cost in addition to a revised budget for BP's consideration and review.

Budget Chart #1.

Budget	Weeks	Weekly Rate	Total
<i>Equipment Fees</i>			
ABS	4	\$800	\$3,200
<i>Battery pack</i>			\$7,000
		Total	\$10,200

Attachments:

Attachment 12. Acoustic Backscattering Sensor (ABS)

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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 Joyce Miley Joyce Miley 6/2/2011
Printed Name Signature Date

Federal Trustee Approval R. W. RICKER Rick W. Ricker 6/2/2011
Printed Name Signature Date

Louisiana Approval KAROLINA DESJUSSIEUX [Signature] 9/14/2011
Printed Name Signature Date