

MISSISSIPPI CANYON 252

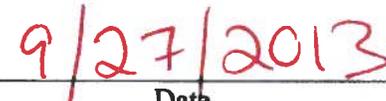
ADDENDUM TO THE DWH NRDA PRE-ASSESSMENT STUDY "WORK PLAN FOR DETERMINING PHYSIOLOGICAL INJURY TO OILED BIRDS FROM THE DEEPWATER HORIZON (MC 252) OIL SPILL-BIRD STUDY #13": CORROBORATION OF BLOOD PARAMETERS

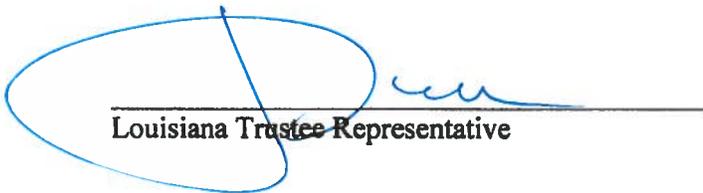
Approval of the *Addendum to the DWH NRDA Pre-Assessment Study "Work Plan for Determining Physiological Injury to Oiled Birds from the Deepwater Horizon (MC252) Oil Spill-Bird Study #13": Corroboration of Blood Parameters* is for the purpose of assessing data for the Natural Resource Damage Assessment. Each party reserves its right to produce its own independent interpretation and analysis of any data collected pursuant to this work plan.

This plan will be implemented consistent with existing trustee regulations and policies. All applicable state and federal permits must be obtained prior to conducting work.

The trustees have developed a preliminary conceptual model of the DWH release, potential pathways and routes of exposure, and potential receptors. This preliminary model has informed the trustees' decision to pursue the study outlined in this work plan.


Department of the Interior Trustee Representative


Date


Louisiana Trustee Representative


Date

ADDENDUM TO THE DWH NRDA PRE-ASSESSMENT STUDY “WORK PLAN FOR DETERMINING PHYSIOLOGICAL INJURY TO OILED BIRDS FROM THE DEEPWATER HORIZON (MC 252) OIL SPILL-Bird STUDY #13”: CORROBORATION OF BLOOD PARAMETERS

I. Introduction

As part of the Pre-Assessment study “*Work Plan for Determining Physiological Injury to Oiled Birds from the Deepwater Horizon (MC252) Oil Spill - Bird Study #13*”, Trustee representatives collected blood from birds to evaluate potential physiological injury to birds exposed to *Deepwater Horizon/Mississippi Canyon 252 (MC 252)* oil. Pursuant to the Pre-Assessment study, blood was collected from birds captured during the implementation of three separate Pre-Assessment studies (i.e., Estimating Oiling and Mortality of Breeding Secretive Marsh Birds from the Deepwater Horizon Oil Spill - Bird Study #3, Estimating Oiling and Mortality of Breeding Colonial Waterbirds from the Deepwater Horizon Oil Spill - Bird Study #4, and Estimating Shorebird Oiling and Mortality from the Deepwater Horizon (Mississippi Canyon 252) Oil Spill - Bird Study #5). Approximately 348 blood samples were collected. One of the physiological parameters analyzed as part of this study was Heinz body formation, an indicator of hemolytic anemia in birds.

II. Purpose

The purpose of this study is to confirm the presence of Heinz bodies identified in avian blood collected during the implementation of “*Work Plan for Determining Physiological Injury to Oiled Birds from the Deepwater Horizon (MC252) Oil Spill - Bird Study #13*”.

III. Methods

An individual with technical expertise in avian hematology will evaluate the viability (i.e., readability) of the blood slides prepared during Bird Study #13, re-stain if appropriate, and examine the slides and associated photos for the presence of Heinz bodies. A data report summarizing methods and results will be prepared.

Data Sharing

Copies of data generated as part of this Addendum will be provided to the Louisiana Oil Spill Coordinator’s Office (LOSCO), if requested.

All materials associated with the collection or analysis of samples under these protocols or pursuant to any approved work plan, including any remains of samples and including remains of extracts or sub-extracts created during or remaining after analytical testing, must be preserved and disposed of in accordance with the preservation and disposal requirements set forth in Pretrial Orders (“PTOs”) # 1, # 30, #35, # 37, #39 and #43 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). Destructive analytical testing of oil, dispersant or sediment samples may only be conducted in accordance with PTO # 37, paragraph 11, and PTO # 39, paragraph 11. Circumstances and procedures governing preservation and disposal of sample materials by the trustees must be set forth in a written protocol that is approved by the state or

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federal agency whose employees or contractors are in possession or control of such materials and must comply with the provisions of PTOs # 1, # 30, # 35, #37, #39 and #43.

IV. BUDGET

The estimated contract cost for this *Addendum to the DWH NRDA Pre-Assessment study: “Work Plan for Determining Physiological Injury to Oiled Birds from the Deepwater Horizon (MC252) Oil Spill”* is \$15,000.00. This budget is an estimate, and actual costs may prove to be higher.