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August 23, 2011

Deepwater Horizon Trustees  
RE: June Monthly Report on Joint NRD Activities

Dear Trustees:

Find attached the June Deepwater Horizon monthly NRD cooperative report. This report is provided to identify pending actions, ensure timely agreement on matters of concern to the Trustees and BP, and provide for a month look ahead in field activity planning. Information presented here is accurate to the best of our knowledge, but this document may contain inadvertent errors.

Based on issues raised either in separate correspondence or via these reports, we would anticipate seeking resolution with the Trustees through the TWG structure, the Trustee Council, or coordination with individual Trustees.

Thank you and please let us know if you would like to discuss any of the comments or status of the on-going cooperative NRD program. We also request that this Monthly Activity Report be placed into the Deepwater Horizon Administrative Record.

Regards,

A handwritten signature in black ink that reads "Robin Bullock / LR". The signature is written in a cursive, flowing style.

Robin Bullock  
Director of Environmental Science and Natural Resource Damage  
BP Gulf Coast Restoration Organization

**Deepwater Horizon Incident  
Monthly Report  
June 2011**

**Safety**

- **Field Safety and Severe Weather Planning:** Reinforced the need for field staff reminders and preparation on: a) working in the summer time heat, and b) severe weather planning for potential hurricanes, lightning, and thunderstorms.

**Key Decisions in June**

- **Birds:** Trustees and BP still working to sign Colonial Water Bird addendum 2 which extends satellite tracking of brown pelicans and great egrets from April 1, 2011 through April 1, 2012.
- **Birds:** Details surrounding cooperative carcass persistence study finalized and study implemented.
- **Birds:** Details surrounding cooperative carcass drift study being addressed with implementation targeted for July and August.
- **Birds:** Osprey productivity element of raptor study extended into July.
- **Deepwater Benthic Communities:** NOAA and BP agreed that the microbial analyses from the recent Deepwater Sediment Sampling Study would be conducted by Dr. Terry Hazen with a Trustee representative (Dr. Monica Heintz) present during the analysis. Dr. Hazen and Dr. David Valentine are working to finalize the microbial sample analysis plan (SAP). Cores collected during the Deepwater Sediment Sampling Study were sent under Trustee custody to Alpha Laboratories and stored temporarily at -20C. Those cores have been transferred under Trustee custody to WHOI for storage at -80C pending finalization of the SAP and transfer of the samples to Dr. Hazen for analysis. BP is working with Dr. Hazen to finalize a funding agreement prior to data analysis.
- **Fish:** USGS benthic prey plan draft received June 23.
- **Fish:** Submerged-Oil-Sediment sampling commenced on June 27.
- **SAV:** Agreed to implement Tier 3 field efforts in June.
- **Water Column/Plankton:** BP agreed to the cooperative NRDA Summer 2011 Plankton Imaging Sampling Cruise Plan.
- **Water Column/Plankton:** BP agreed to the cooperative NRDA Offshore Deep Meso- and Bathypelagic Fish Sampling Plan Summer 2011.
- **Water Column/Plankton:** BP agreed to the cooperative NRDA July 2011 *McArthur II* Epipelagic Plankton Bongo & Neuston Sampling Cruise Plan.

**Pending Decisions**

- **Birds:** Trustees to review/respond to draft integration agreement for Piping Plover work plan (provided November 23, 2010).
- **Birds:** BP to respond to request for funding for avian toxicology program, avian physiology plan, and wildlife response search effort data collection and marsh edge studies.
- **Birds:** BP to respond to Trustee plans that were initiated without notification.
- **Fish:** Oyster Transition Amendment 1 and Spring 2011 Recruitment Plans are in signature stage.
- **Water Column:** The Natural Seeps study framework was provided to the Trustees on April 15, for comment, and BP is still waiting for comments as of June 30. BP to submit Natural Seeps cruise plan to Trustees in July.
- **Water Column/Plankton:** BP provided comments to the Trustees on the summer 2011 NRDA plankton surveys (1-meter MOCNESS, 10-meter MOCNESS and Epipelagic Plankton) and is

awaiting Trustees responses on work plan comments.

## Data Management

- **Data Management:** On April 8, BP sent a Data Needs letter to DOI and NOAA asking for a copy of data developed under or during the implementation of certain cooperative studies. As of June 30, the Trustees have not responded to this letter.
- **Birds:** BP has requested data from Trustee members of the Avian TWG for Glenn Ford overflights and secretive marsh bird overflights. It is our understanding that progress has been made and the data sets are nearing completion.
- **Birds:** BP has requested missing capture sheets and carcass chains of custody filled out by BRI during the secretive marsh bird and colonial waterbird studies and missing overflight data. The Trustees have committed to transfer the missing data.
- **Birds:** BP has requested lab reports supporting avian blood physiology results.
- **Deepwater Benthic Communities:** Data from the signed Deepwater Coral study has not been shared with BP. The raw data, and data which have been minimally processed with appropriate software, were requested on February 16, 2011, from the TWG. The Trustees are preparing a synopsis of the results, including dive tallies from 1997-2005, and stated they would provide it to BP by the end of March (information is still pending). Follow-up conversations in May discussed the transfer of the raw data on SD cards, but as of June 30 the data had not yet been provided.
- **FISH:** Missing oyster study information has been identified and requested. Laboratory results have been posted and a new link provided for access to the information.
- **Marine Mammals & Turtles:** Data sharing and laboratory analysis language continued to be developed for incorporation into several work plans. DOI informed us that the 2010 Kemps nesting data would be provided in mid-July.

## Trustee Council/BP Communications in June

- **Trustee Council Meeting:** BP representatives met with the Trustee Council on June 3 to discuss continued cooperative efforts on both early restoration and the injury assessment. Discussion included a draft cooperative assessment agreement, and the types of information about potential early restoration projects and supporting documentation which would be needed for all parties to appropriately review potential projects for consistency with the restoration framework agreement criteria.
- **Cooperative Assessment Agreement:** On May 26, BP provided a red line of the draft Cooperative Assessment Agreement to the Trustees. On June 3, BP provided additional context for the comments.
- **Response Endpoint Sessions:** On June 6 and 7, BP representatives met with the Trustees and the IMT to present and discuss response endpoints and how the response has input to and affect upon the type and timing of early and final restoration projects. It was clarified that it is critical from BP's perspective to have response complete for those areas in which restoration projects will be implemented.
- **NOAA Meeting:** On June 7, BP and NOAA met to discuss deepwater assessment studies and potential areas where additional data may be needed. Commitment from BP was expressed for continuing work through 3Q 2011, with the intent to pause to assess the data collected to date prior to execution of additional cooperative assessment plans.
- **Early Restoration:** On May 9, BP provided initial concepts on the process for early restoration negotiations. These concepts were discussed at the June 3 meeting.
- **FISH:** Face to face meeting of the Oyster TWG occurred on June 9.
- **Marine Mammals:** BP and Trustee representatives on the marine mammal TWG met to discuss potential analyses of acoustic and telemetry data relating to marine mammals.

## Planned July Field Activities

- **Birds:** July field efforts include: (a) Independent implementation of BP colonial waterbird productivity study, (b) independent implementation of Louisiana Brown Pelican productivity study, (c) Trustee Willet telemetry plan, and (d) cooperative implementation of carcass drift study.
- **Corals:** N/A
- **Deepwater Benthic Communities:** ROV Sediment and Bottom Water Study (HOS Sweetwater 4/6) Leg 1 scheduled for July 14-Aug 7. Red Crab survey scheduled for July 27-Aug 14 (end date tentative).
- **Fish:** Continuation of the Spring 2011 oyster sampling. Proposed Spring 2011 Oyster Amendment 1 work being discussed.
- **Fish:** Third survey of the Fish arm of Sargassum Communities study is scheduled to depart on July 4 and the fourth survey is scheduled for July 21.
- **Fish:** Submerged-Oil-Sediment sampling is continuing and the Marsh Edge/Sandy Shoreline (ME/SSH) field activities are expected to begin mid-July.
- **Human use:** BP and Trustees continue to move forward on potential cooperative data collection for aerial and ground counts as well as the intercept surveys.
- **Marine Mammals & Turtles:** Kemps nesting is actively occurring and indications are 2011 will exceed 2010 for nests laid. Sargassum surveys commenced in mid-June including aerial and vessel-based surveys which have resulted in capture and sampling of turtles and sargassum. No oiled turtles or sargassum has been found in the study areas covered. Loggerhead nesting began in late May, and the Trustees have implemented the 2011 nesting studies. Cardno/ENTRIX is not participating in either the loggerhead or Kemp's ridley nesting studies because the plan addenda are not signed yet. Discussions about appropriate data sharing provisions and development of plans for laboratory analyses are ongoing.
- **Mississippi Flood Water:** Continued field collections and commencement of post flood stage sampling to occur. Data logger deployment in selected areas as proposed will occur.
- **Mississippi Blue Crab Megalopae Collection:** Training sessions scheduled for July 22, 2011 with field work commencing around July 25.
- **Water Column/Plankton:** The cooperative summer mesopelagic fish survey is scheduled to continue on leg 2 from July 5 - 14 on the Pisces. The cooperative NRDA July 2011 *McArthur II* Epipelagic Plankton Bongo and Neuston sampling survey is scheduled for July 5 - 16. Leg 2 of the cooperative summer plankton imaging survey is scheduled to begin July 18 until July 31. The summer series of plankton surveys are proposed to begin on July 18: 1-meter MOCNESS on the Nick Skansi, 10-meter MOCNESS on the Meg Skansi, Epipelagic plankton on the Bunny Bordelon.

### Joint Work Plans Signed in June

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Birds	Carcass Persistence Study	6/11/2011	6/12/2011	
Fish	Pisces Summer Meso-Bathypelagic Cruise	6/27/2011	6/28/2011	
Water Column - Plankton	Spring 2011 Plankton Imaging Oceanus Addendum	6/2/2011	6/2/2011	

### Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
<b>Aerial Imagery</b>	Aerial Photography Overflights			Contract with AeroMetric for Spring data acquisition was signed late April, waiting on draft work plan from Trustees.
<b>Birds</b>	Detection Probability (Searcher Efficiency) - Bird Study #1B			Trustees finalizing plan as there was an agreed plan in principle (May 26), and Trustees have provided supporting data (May 28).
<b>Birds</b>	Colonial Waterbird (CWB) extension 2 (BRPE and GREG satellite telemetry)			Submitted to Trustees for review and approval on May 23, 2011.
<b>Birds</b>	Raptor – Bald Eagle – Bird Study #9			Waiting on signed plan from Trustees (April 1). Work being implemented in coordination with BP.
<b>Birds</b>	Carcass Sinking			Trustees sent carcass sinking/drift study to BP on May 13, 2011. BP returned comments back to the Trustees on May 27, 2011.
<b>Birds</b>	Avian Toxicity			BP received May 26, 2011 and is reviewing.
<b>Birds</b>	Avian Physiology			BP received May 26, 2011 and is reviewing.
<b>Birds</b>	Wildlife Recovery Data			BP received May 26, 2011 and is reviewing.

### Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Corals	Deepwater Coral SPMD Deployment Plan	Pending	7/9/2010	Awaiting Trustee signature based on BP comments and signature page provided to Trustees on July 9, 2010.
Deepwater Benthic Communities	SPI Survey Addendum #1			BP to send Trustees a no cost addendum that addresses the removal of the water column data collection and adds one-day to the study.
Deepwater Benthic Communities	SPI Survey Addendum #2			BP to send Trustees an addendum for a follow-up cruise to complete the stations not completed during the first cruise as well as locations identified during the ROV Sediment and Bottom Water (HOS Sweetwater 2) study that showed features of interest in the hypothesized "bath tub ring" area.
Deepwater Benthic Communities	ROV Megafauna/Megaplankton Survey			Final plan awaiting signature.
Deepwater Benthic Communities	ROV Megafauna/Megaplankton Survey Addendum			BP to send Trustees an addendum for a follow-up cruise to complete the stations not completed during the first cruise.

### Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Deepwater Benthic Communities	Mesophotic Reef Study			BP provided comments on June 18, 2011. Waiting revised study plan. Proposed cruise date September 2011.
Deepwater Benthic Communities	ROV Hardground Survey			Trustees preparing draft study plan. Proposed cruise date September/October 2011.
Deepwater Benthic Communities	Red Crab Study			Trustees provided preliminary draft conceptual plan June 27, 2011 for BP review and comment.
Fish	Assessment plan for Marsh Edge and Sandy Shoreline			Trustees revising plan based on April shakedown surveys to refine methods.
Fish	Nearshore Ephemeral Data Collections: Submerged Oil Characterization Across Multiple Habitats			Trustees revising plan based on April shakedown surveys to refine methods.
Marine Mammals & Turtles	Kemp's ridley nesting study addendum			Trustees revising draft plan, and BP and Trustees are discussing appropriate data sharing and laboratory analysis language. Pending since March 2011.
Marine Mammals & Turtles	Loggerhead nesting study addendum			Trustees revising draft plan, and BP and Trustees are discussing appropriate data sharing and laboratory analysis language. Pending since March 2011.



<b>Joint Work Plans Under Revision/Awaiting Signature (June)</b>				
<b>TWG</b>	<b>Plan</b>	<b>Signature Date</b>		<b>Comments</b>
		<b>NOAA/USFWS</b>	<b>BP</b>	
<b>Marine Mammals &amp; Turtles</b>	Genetic Analysis of Stock Structure, Species Identification and Sex Determination for Marine Mammal Biopsies and Strandings			Trustees provided draft plan, and BP and Trustees are discussing appropriate data sharing and laboratory analysis language. Pending since March 2011.
<b>Marine Mammals &amp; Turtles</b>	Addendum to Sargassum Turtle Plan for organizing and linking sea turtle data sets gathered during response and assessment efforts for the MC252 Deep Water Horizon oil spill			BP provided comments in late April. This proposal appears to have been pulled from the cooperative process due to response data sharing issues. NOAA indicated for the work could be cooperative contingent on BP funding.
<b>Marine Mammals &amp; Turtles</b>	Post Release Monitoring and Tracking Loggerhead Turtles			Trustees revising draft plan as agreed by email on October 21, 2010. Field work complete. Final work Plan has been pending from Trustees since October 2010.
<b>Marine Mammals &amp; Turtles</b>	Nearshore cetacean & sea turtle prey item sampling plan			Several drafts and comments were exchanged in June 2011. Plan should be signature ready in mid-July 2011.
<b>Marine Mammals &amp; Turtles</b>	Investigation of Marine Mammal Morbidity and Mortality through Active Surveillance for Strandings			BP received revised draft on May 27. Discussions regarding scope of work and data sharing are ongoing.

## Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
SAV	Tier 2 Plan (PEMD Monitoring, Rapid Assessment, Submerged Oil Sentinel Monitoring, Pre-Assessment Low Altitude Aerial Photography of Seagrass Beds)			Trustees provided revised draft May 31. BP reviewing.
SAV	Tier 3 Plan			Trustees provided May 25. BP reviewing.
Shoreline	LIDAR Data Acquisition Plan			BP to provide comments on 6-14 revisions to the plan.
Shoreline	Sampling and Monitoring Plan for Coastal Vegetation			BP received a new draft of the plan on June 28 and is preparing comments.
Shoreline	MS and AL Addendum to the Monitoring Plan For Coastal Vegetation			Trustees reviewing BP comments to draft plan provided April 19, including a proposed alternative sampling plan.
Water Column	December Cooperative Cruise- (NOAA/BP-CardnoENTRIX NRDA Cooperative Deep Tow Cruise 2/December 2010 Arctic-HOS Davis 5-Sarah Bordelon Cruise)			Awaiting Trustee signature on revised signature page that BP provided on March 28 with an added disclaimer for the record. Field work complete.
Water Column	NRDA Ocean Current Field Plan: Moored ADCPs			Trustees to propose a date for the joint Hydrology meeting. Draft plan on hold pending hydrology meeting. This meeting has been pending since February 2011.

### Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Water Column	Injury Ephemeral Data Collections: ADCP-Measured Currents Monitoring Plan Deepwater Horizon Oil Spill (DWHOS) September 2010 Maintenance Mission			Awaiting Trustee signature of agreed plan provided February 19. Field work (maintenance) complete. Pending since February 2011.
Water Column	MC252 Deepwater Horizon Oil Spill ADCP-Measured Currents Monitoring Plan December 2010 Quarterly Maintenance Mission Amendment #2			Awaiting Trustee signature of agreed plan provided February 19. Field work (maintenance) complete. Pending since February 2011.
Water Column	MC252 Deepwater Horizon Oil Spill ADCP-Measured Currents Monitoring Plan June 2011 Quarterly Maintenance Mission			Awaiting Trustee comments and approval. Cruise scheduled for June 20, 2011.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Shakedown Cruise 1 – Nick Skansi			Trustees reviewing revised plan provided on February 8. Field work complete.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Shakedown Cruise 2 – Nick Skansi			Trustees reviewing revised plan provided on February 8. Field work complete.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Cruise 3 – Nick Skansi			Trustees reviewing revised plan provided January 11. Field work complete.
Water Column – Plankton	Plankton Sampling Plan – Fall 2010 Cruise 4 – Nick Skansi			Trustees reviewing revised plan provided January 11. Field work complete.
Water Column - Plankton	SEAMAP Plankton Sampling Plan & Winter 2011 Cruise Plan - Oregon II			BP agreed plan was ready for signature April 4, 2011. Waiting for a signature from NOAA to proceed with signing process.

### Joint Work Plans Under Revision/Awaiting Signature (June)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Water Column - Plankton	Winter 2011 Oceanus VPRII Cruise Plan - Addendum			BP agreed plan was ready for signature April 4, 2011.
Water Column - Plankton	Summer 2011 Plankton Imaging Cruise Plan			BP agreed plan was ready for signature June 16, 2011.
Water Column - Plankton	Offshore Deep Meso- and Bathypelagic Fish Sampling Plan Summer 2011			BP agreed plan was ready for signature June 21, 2011
Water Column - Plankton	July 2011 McArthur II Epipelagic Plankton Bongo & Neuston Sampling Cruise Plan			BP agreed plan was ready for signature June 30, 2011.
Water Column - Plankton	Summer 2011 Epipelagic Plankton Bongo & Neuston Sampling Cruise Plan			BP provided comments to Trustees on June 15, 2011; Awaiting responses to comments and revised work plan.
Water Column - Plankton	1-meter MOCNESS Summer 2011 Plankton Sampling Cruise Plan			BP provided comments to Trustees on June 17, 2011; Awaiting responses to comments and revised work plan.
Water Column - Plankton	10-meter MOCNESS Summer 2011 Plankton Sampling Cruise Plan			BP provided comments to Trustees on June 17, 2011; Awaiting responses to comments and revised work plan.
Water Column - Seeps	Natural Hydrocarbon Seep Study Plan			Trustees reviewing draft cruise plan document provided July 25.

<b>Joint Work Plans Awaiting Louisiana Signature (June)</b>			
<b>TWG</b>	<b>Plan</b>	<b>Date NOAA/USFWS Submitted to Louisiana</b>	<b>Comments</b>
<b>Birds</b>	Carcass Persistence Study	6/12/2011	
<b>Birds</b>	Osprey Rapid Assessment	11/1/2010	Minus DOI signature.
<b>Blrds</b>	Raptor – Osprey Rapid Assessment Addendum – Bird Study #9	4/27/2011	
<b>Birds</b>	Wintering Waterfowl Study	2/4/2011	
<b>Corals</b>	Shallow-water Coral Tier 1 Plan Addendum	5/17/2011	
<b>Deepwater Benthic Communities</b>	Sediment Profile Imaging (SPI) Study Plan	4/6/2011	
<b>Deepwater Benthic Communities</b>	HOS Sweetwater ROV Sediment Sampling Study	3/23/2011	
<b>Fish</b>	Assessment Plan for Sargassum Communities and Associated Fauna in the Northern Gulf of Mexico	5/7/2011	
<b>Fish</b>	Pisces Summer 2011 Meso-Bathypelagic Plan	6/28/2011	
<b>Marine Mammals &amp; Turtles</b>	Addendum February 2011 ADCP Maintenance and HARP Recovery Plan	3/18/2011	
<b>Marine Mammals &amp; Turtles</b>	Dry Tortugas MARU and HARP Recovery February 2011 Mission	2/26/2011	
<b>Marine Mammals &amp; Turtles</b>	Spatial Distribution (Aerial) Marine Mammal and Turtles 2011	1/30/2011	
<b>SAV</b>	Sampling and Analysis Plan for Jean Lafitte National Historic Park (JELA 2011)	5/27/2011	
<b>Water Column</b>	HOS Davis Cruise 3 Addendum	12/4/2010	
<b>Water Column - Plankton</b>	Spring Epipelagic plankton plan Bunny Bordelon	4/27/2011	
<b>Water Column - Plankton</b>	Spring Plankton Imaging VPRII - Oceanus	3/9/2011	

**Joint Work Plans Awaiting Louisiana Signature (June)**

<b>TWG</b>	<b>Plan</b>	<b>Date NOAA/USFWS Submitted to Louisiana</b>	<b>Comments</b>
<b>Water Column – Plankton</b>	Spring Plankton Imaging VPRII – Oceanus Addendum	6/2/2011	