



**UNDP/GEF PROJECT ENTITLED “REDUCING ENVIRONMENTAL STRESS IN THE
YELLOW SEA LARGE MARINE ECOSYSTEM”**

UNDP/GEF/YS/RWG-P.3/9
Date: 17 August 2006
English only

**Third Meeting of the Regional Working Group
for the Pollution Component**

Dandong, China, 4 - 7 September 2006

Pollution Component Activities for 2007 and Onwards

1. During the past two years of Project Implementation, members of the RWG-P have provided technical guidance for implementation of activities under this component. Certain activities have been identified for implementation during the first two years of the Project, but not all have been implemented. The delay has been due to various reasons, including lack of budget and human resources, and/or lack of clear directions on how to implement the activities.
2. Agenda 7.1 will focus on the main activities over the next two years that will contribute to the Strategic Action Programme (SAP). This agenda will consider the remaining activities that do not directly contribute to SAP, and which generally focus on capacity building.
3. The activities listed in Agendas 7.2.1 and 7.2.2 have already been presented to the Regional Scientific and Technical Panel and the Project Steering Committee, and have been approved for implementation.

Agenda 7.2.1

Inter-calibration exercises for organics in sediment and biota

4. This activity is listed in the original list of activities in the Project Document and Implementation Plan. At the Second Meeting of the Regional Working Group for the Pollution Component, members discussed this activity which forms one part of the overall inter-calibration exercises. During Agenda 5.2, the Secretariat will describe the achievements of the part on nutrients in seawater for this exercise.
5. The progress of this activity thus far, is that Korea has provided the names of 4 organic labs that are interested in participating in the activity. A scientist from SSI-KORDI was suggested to be contracted to carry out the activity, but has not yet provided a proposal.
6. During this agenda, members are asked to review the organics part of the activity, and agree on how to implement the remaining parts. The TOR for the activity is attached as [Appendix A](#). The following topics should be considered and agreed:

- Places / labs from where standard reference materials can be obtained
- China needs to provide the names of interested labs
- Timeline for activity
- Finalisation of TOR

Agenda 7.2.2

Training Workshop on Assessing Marine Environment Quality

7. This activity was suggested at the 2nd RWG-P Meeting, but due to lack of funds in 2006, the activity was scheduled for implementation in 2007. Members are invited to provide technical guidance for the organisation of the workshop, including the following:
 - Objective of the workshop
 - Workshop topics
 - Target participants
 - Collaboration with other institutes/regional programmes
 - Size, duration, approximate dates, and venue for workshop

Agenda 7.2.3

Suggestions for other activities

8. Members are invited to suggest additional activities that meet the technical and capacity building needs of the region and also the objectives of the Project. Members should keep in mind that the focus of the Project in the next two years is development of the SAP, and recommended activities should be proposed in this context.
9. Document UNDP/GEF/YS/RWG-P.3/8 will explain the SAP-related activities in more detail. The RWG-P is requested to provide guidance on how to develop activities for the SAP.

Appendix A

Terms of Reference for Inter-Calibration of Organic Pollutants in Sediment and Biota

1. Background

In the approved Implementation Plan of the UNDP/GEF Yellow Sea Project, “Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem,” one of the activities of the Pollution Component is a regional inter-calibration exercise between select laboratories that monitor and analyse pollution in the Yellow Sea. The parameters for inter-calibration were agreed by the members of the Regional Working Group-Pollution (RWG-P) at its first meeting (Qingdao, China, 6-9 April 2005), and is attached as [Table 1](#).

Geographic Scope: The Yellow Sea large Marine Ecosystem is defined in this Project Document as the body of water delineated at the south, by a line connecting the north bank of the mouth of the Chang Jiang (Yangtze River) to the south side of Cheju; at the east, by a line connecting Cheju Island to Jindo Island along the coast of the ROK; and to the north, a line connecting Dalian to Penglai (on the Shandong Peninsula). This latter line separates the Bohai Sea from the Yellow Sea and as a result is not included in this study.

2. Description of Required Services

[Name of institution or person co-ordinating the activity] will be contracted to co-ordinate the organics in sediment and biota components of this inter-calibration activity. The chemical classes for this inter-calibration activity are listed in [Table 2](#). The activities to complete the task will include:

1. With collaboration from the Project Management Office (PMO), identify and invite appropriate laboratories to participate in the inter-calibration exercises.
2. With assistance from the PMO, obtain the inter-calibration standards and distribute to participating labs.
3. Co-ordinate and monitor the inter-calibration exercises of the participating laboratories.
4. Collect, collate, and synthesise the results of inter-calibration from the laboratories, for submission to the PMO and RWG-P. The report should contain an analysis of the results and recommendations for improvement and problem solving for future inter-calibration exercises.

Qualifications:

The institution or person selected to carry out this task should have the following qualifications:

- At least 20 years track record in the area of coastal and marine environmental management and/or research.
- Strong natural science background with knowledge of marine environmental pollution analytical techniques.
- Knowledge of regional laboratories working in analysis of pollutants.
- Well-versed in inter-calibration techniques.
- Appropriate academic qualifications and good interpersonal skills to liaise with the participating institutions.

3. Duration and Timing

The commissioned assignment should be carried out from <<Insert Date>>through <<Insert Date>>, according to the following schedule:

<u>Task</u>	<u>Deadline</u>
Contract signature	2006
Identify and contact labs to participate	2006
Obtain the inter-calibration standards and distribute to participating labs	2006
Inter-calibration exercises	2006
Progress report on status of calibration exercises	2007
Final synthesis report and financial statement submitted to PMO	2007

4. Monitoring/Progress Control

The PMO will assume overall supervision and co-ordination of this task. Programmatic guidance should be sought from the Project Manager, Mr. Yihang Jiang (yihang@yslme.org), copied to Ms. Connie Chiang (connie@yslme.org) at the Yellow Sea PMO. All deliverables should be submitted via e-mail to Ms. Connie Chiang, following the schedule above.

5. Expected Outputs/Results

The final product should be a report following the “suggested table of contents” as listed in [Table 3](#).

A progress report should be submitted to the PMO by <<Insert Date>> to enable both parties to monitor the progress of the task, and assist where necessary, in completing the final task. One copy of the final report and financial statement should be submitted to the Yellow Sea Project Management Office, via e-mail, by <<Insert Date>>.

Table 1A – Parameters for Inter-calibration Exercise

Medium	Target Pollutants	Korea	China	Regional	Priorities		
					Korea	China	Regional
Water	NO2	•	•	•	1	1	1
	NO3	•	•	•	1	1	1
	Ammonia	•	•	•	1	1	1
	Total dissolved N						
	Total particulate N						
	Total dissolved P						
	Phosphate	•	•	•	1	1	1
	Total particulate P						
	Silicates	•	•	•	1	1	1
Sediment	Trace metals	•	•	•	3	2	2
	PCBs	•	•	•	2	2	2
	OCPs	•	•	•	2	2	2
	PAHs	•	•	•	2	2	2
	Organotins	•	○	○	4	4	4
	Phenolic compounds	•	○	○	5	5	5
	PBDEs	•	○	○	6	6	6
	Organic carbon						
	Grain size						
	Oil	•	•				
Biota (bivalves)	Trace metals	•	•	•	3	2	2
	PCBs	•	•	•	2	2	2
	OCPs	•	•	•	2	2	2
	PAHs	•	•	•	2	2	2
	Organotins	•	○	○	4	4	4
	Phenolic compounds						
	PBDEs	•	○	○	5	5	5
	Lipid						

Note • : Compulsory
 ○ : Optional
 1 = high priority; 6 = low

Table 2A
Parameters for Organics Inter-calibration Exercise

Medium	Target Pollutants
Sediment	Trace metals (Zn, Cd, Pb, Cu, Cr, Hg, As)
	PCBs - see table below
	OCPs - see table below
	PAHs - see table below
Biota (bivalves)	Trace metals (Zn, Cd, Pb, Cu, Cr, Hg, As)
	PCBs - see table below
	OCPs - see table below
	PAHs - see table below

<u>Priority PAHs (16)</u>	<u>OCPs (16)</u>	<u>PCBs (10)</u>
Naphthalene	Aldrin	CB 52
Acenaphthylene	Chlordane	CB 101
Acenaphthene	DDT and metabolites (4)	CB 105
Fluorene	Dieldrin	CB 110
Phenanthrene	Endrin	CB 118
Anthracene	Heptachlor	CB 128
Pyrene	Heptachlor epoxide	CB 138
Benzo[a]anthracene	Hexachlorbenzene	CB 153
Chrysene	Hexachlorocyclohexanes (4)	CB 180
Benzo[b]fluoranthene	Pentachloronitrobenzene	CB 189
Benzo[k]fluoranthene		
Benzo[a]pyrene		
Indeno[1,2,3-cd]anthracene		
Benzo[ghi]perylene		

Table 3A

SUGGESTED FINAL REPORT TABLE OF CONTENTS

- I. Background of assignment
- II. Methods used to carry out assignment
- III. Results of inter-calibration from each laboratory
- IV. Assessment and synthesis of results
- V. Recommendations for any encountered problems and improvements for future calibration exercises