

TENTH WORKSHOP ON ENVIRONMENTAL MONITORING OF PERSISTENT ORGANIC POLLUTANTS (POPS) IN EAST ASIAN COUNTRIES

Chairperson's Summary

Dusit Thani Manila, Makati City, Republic of the Philippines, 30 November 2013

1. The 10th Workshop on Environmental Monitoring of Persistent Organic Pollutants (POPs) in East Asian Countries commenced on the 28th of November 2013, at the Dusit Thani Manila, Makati City, Republic of the Philippines.
2. The workshop was organized by the Ministry of the Environment, Japan (MOEJ) with support from the Environmental Management Bureau (EMB) of the Department of Environment and Natural Resources (DENR), Republic of the Philippines, and the United Nations Environment Programme (UNEP). Government officials and technical experts from 11 countries (Cambodia, Indonesia, Japan, Republic of Korea, Lao PDR, Malaysia, Mongolia, the Philippines, Singapore, Thailand and Vietnam), Secretariat of the Stockholm Convention, and representatives from the North West Pacific Action Plan (NOWPAP) and the United Nations University (UNU) participated in the Workshop.
3. Dr. Takuya SHIOZAKI, the head of the secretariat, Japan Environmental Sanitation Center (JESC) opened the workshop by welcoming the opening speakers.
4. Ms. Emmanuelita MENDOZA (DENR-EMB, Philippines), led the singing of the Philippine National Anthem while Mr. Kuniaki MAKIYA, Ministry of the Environment, Japan (MOEJ), and Atty. Juan Miguel T. Cuna, CESO IV (EMB), representing Secretary Ramon PJ PAJE of DENR, provided opening addresses.
5. Prof. Koji SHIMADA, Ritsumeikan University, chaired the workshop and Dr. Yasuyuki SHIBATA, National Institute for Environmental Studies (NIES), co-chaired.
6. Chairperson Prof. Koji SHIMADA presented the agenda of the workshop and informed participants regarding revisions of the agenda, such as moving the presentation of the Information Warehouse project and Training Workshop by Republic of Korea and the presentation of the Data Warehouse project by Secretariat of the Stockholm Convention

from the first day to the Policy Group meeting in second day, 29 November 2013.

7. Participants noted the following presentations:
 - (1) Introduction to the 10th Workshop, by Mr. Shigeki MORINAGA (MOEJ);
 - (2) Overview of the past activities of POPs Monitoring Project in East Asian Countries (POPSEA Project), by Dr. Takuya SHIOZAKI (JESC); and
 - (3) Overview and decisions of Stockholm Convention COP6 and the procedures and timelines for the preparation of the 2nd effectiveness evaluation of Stockholm Convention Article 16, by Ms. Katarina MAGULOVA (Secretariat, Stockholm Convention);

8. Participants noted the following presentations on the present situation and future plans of the project:
 - (1) Preparation of the Sub-regional Report on the POPs Monitoring Project in East Asian Countries (POPSEA project) for the 2nd Effectiveness Evaluation of Stockholm Convention, Article 16, by Dr. Takashi SHOJI, Secretariat, Japan Environmental Sanitation Center (JESC);
 - (2) Present status of the UNEP/GEF Trust Fund project lead by Vietnam, Dr. NGUYEN Anh Tuan (Vietnam Environmental Administration).
The participating countries in the UNEP/GEF project discussed the feedback mechanism for project document before submission to UNEP/GEF.
 - (3) Consideration on the monitoring capacity building under the POPSEA project, by Dr. Takuya SHIOZAKI (Secretariat, JESC)

9. Participating countries (Malaysia, Singapore, and Thailand) presented their present status and future activities to start their individual POPs monitoring, while another batch of participating countries (Cambodia, Indonesia, Lao PDR, Vietnam, Mongolia, and Philippines) presented their implementation plans in the UNEP/GEF project.

10. To end the plenary, Dr. Takuya SHIOZAKI gave some reminders to the participants, and Prof. Koji SHIMADA reiterated the agenda and venue for discussion of the Expert Working Group and Policy Group for the 2nd day of the workshop.

11. The Workshop was divided into two groups, the Policy Group (Chair: Prof. Koji SHIMADA)

and the Expert Working Group (Chair: Dr. Yasuyuki SHIBATA).

12. The Policy Group meeting shared the current states of information and data sharing systems. The participants noted that the modality and strategic approach in developing coalition between POPSEA and UNEP/GEF projects is significant in terms of setting appropriate goals in the project period and efficient use of their resources. Possible plan on the sustainability of the POPSEA project was proposed and discussed. The cooperative monitoring activities in Thailand and Cambodia were proposed and agreed. It was agreed that the next workshop would be identified as the Joint Workshop with 2nd Workshop on the UNEP/GEF project to be held in the 3rd quarter of 2015 possibly in Vietnam. The summary report from the Policy Group meeting is attached as ANNEX 1.
13. The Expert Working Group meeting reviewed and accepted the POPs monitoring data except those lacking QA/QC data which will be sent to the experts later for evaluation. Majority of the participating countries expressed their need for capacity building specially on training for analysis and use of equipment, as well as some financial constraints. The Japanese experience on comparison between passive and active sampling was presented, which showed the potential of the passive sampling for use in the project but needs further research to improve the comparability between the two methods. EWG noted the presentations on draft technical manual of POPs in the atmosphere provided by Japan, analysis of long-range transport of POPs-related chemicals by Global Environmental Fate model, and unintentional production of PCB from chemical manufacturing process. The summary report from the Expert Working Group meeting is attached as ANNEX 2.
14. The Plenary was informed of the contents of the reports from the two groups. The clarification and discussion were made on the reports of the two groups. The contents of the reports were endorsed by the Plenary.
15. The Workshop welcomed the significant progress of the POPs Monitoring Project in East Asian Countries as well as UNEP/GEF project endorsement from the GEF Secretariat, and expressed its expectations to the participating countries for their continuous efforts for the monitoring activities and capacity building.
16. Participants expressed their sincere appreciation to the DENR-EMB, Republic of the

Philippines, Ministry of the Environment, Japan and secretariat for their efforts to host and organise the 10th Workshop.

END

Summary Report of the 7th Policy Group (PG) Meeting

29 November 2013

- Chair: Prof. Koji SHIMADA, Ritsumeikan University, Japan
- Participants: Mr. Kuniaki MAKIYA (Ministry of the Environment, Japan (MOEJ))
Mr. Shigeki MORINAGA (MOEJ)
Mr. Pichhara PHET (Cambodia)
Ms. Dwi Astuti Endah PRIHATININGTYAS (Indonesia)
Ms. Sue-Jin KIM (Republic of Korea (ROK))
Dr. Takuya SHIOZAKI (Secretariat, Japan Environmental Sanitation Center, Japan)
Ms. Darounny VILAYTHONG (Lao PDR)
Mr. Purevdorj BATTULGA (Mongolia)
Ms. Thilaagem MATHEW (Malaysia)
Ms. Emmanuelita D. MENDOZA (Philippines)
Mr. Renato T. CRUZ (Philippines)
Ms. Jean N. ROSETE (Philippines)
Ms. Stefanie H. KOH (Singapore)
Ms. Teeraporn WIRIWUTIKORN (Thailand)
Dr. NGUYEN Anh Tuan (Vietnam)
Ms. Katarina MAGULOVA (UNEP, Secretariat of the Stockholm Convention)
Dr. Osamu ITO (United Nations University (UNU))
Dr. Olga LUKYANOVA (North West Pacific Action Plan (NOWPAP))

The meeting discussed following issues proposed by the secretariat.

(Information Data Warehouse)

1. Participants noted the following presentations and shared the information
 - a. Progress of the workshop on Information Warehouse and Analysis Training of POPs in East Asian Region, Dr. Sue-Jin KIM (ROK)
 - b. GMP Data Warehouse: Structure and Architecture, Ms. Katarina MAGULOVA (UNEP)

(Consideration of strengthening of POPs monitoring capacity under the POPSEA project and coalition with the UNEP/GEF trust Fund project)

2. The participants discussed the following proposals

- a. "Consideration on strengthening of POPs monitoring capacity under the POPSEA project and coalition with UNEP/GEF project", Dr. Takuya SHIOZAKI (Secretariat)
- b. "Present status of the UNEP/GEF trust fund project led by Vietnam", Dr. NGUYEN Anh Tuan (Vietnam)

The participants noted that the capacity building and monitoring activities under the UNEP/GEF project will be benefit from the 10-year experience under the POPSEA project.

And, UNU raised the significance of the project management to implement the UNEP/GEF project smoothly.

- c. Participants discussed the feedback mechanism for development of UNEP/GEF project before submission of the project document to UNEP/GEF.

(Future activities of the POPs monitoring under the POPSEA project)

3. The future implementation plans of the POPs monitoring under the POPSEA project were proposed and discussed.

- a. "Future implementation plan of POPs monitoring", Dr. Takuya SHIOZAKI (Secretariat)
- b. "Proposed plan for Middle-Frequency Monitoring in Thailand", Ms. Teeraporn WIRIWUTIKORN (Thailand)

Thailand expressed the willingness to conduct the quarterly monitoring possibly in 2015-2016.

- c. "The Tam Dao Supersite activities", Dr. NGUYEN Anh Tuan (Vietnam)
- d. ROK expressed its willingness to continue implementing the Super-site monitoring at Jeju Island, Dr. Sue-Jin KIM.
- e. Japan also expressed its willingness to continue the activities of Super-site monitoring at Hedo Cape, Mr. Shigeki MORINAGA.

(Modality of future plan of the POPSEA project)

4. The consideration on the future plan of the implementation of the monitoring and upcoming workshop were made.

- a. The Secretariat proposed that the quarterly monitoring in Vietnam is expected to be carried out as an individual monitoring under the UNEP/GEF project. Monitoring frequency in Tam Dao is expected to be upgraded to monthly.
- b. Final round of pilot monitoring as a cooperative activity in Thailand will be conducted in 2014-2015 to confirm the most suitable site for long-term monitoring.
- c. Cambodia explained its plan to implement the cooperative monitoring in 2015-2016 at Sihanouk Ville.
- d. The further cooperative monitoring will be implemented in Lao PDR, Malaysia and other countries according to the capacity.

(Proposed future directions)

5. The secretariat proposed the future direction for sustainability of the POPSEA project and the participants discussed the contents of the proposals, including roles and future activities of each participating country.
 - a. Future plan for sustainable implementation of POPSEA
 - b. Feasible infrastructure development in the participating countries
 - c. Development of the analytical methodologies to use high resolution gas chromatography/low resolution mass spectrometry or any other low-cost instruments
 - d. Expanding scope of the POPSEA project by implementing passive sampling
 - e. Continuity of capacity building activities
 - f. Coalition of POPSEA project with UNEP/GEF project
 - g. Possible coalition items between POPSEA and UNEP/GEF project were proposed and discussed, such as laboratory assessment, holding of training course on POPs analysis, development of applicable methodologies for POPs monitoring, and so on.
 - h. Detailed coalition items and schedule will be discussed in the Inception workshop on UNEP/GEF project to be held in the third quarter of 2014.
 - i. Strategic approach in developing coalition between these two projects is significant in terms of setting appropriate goals in the project period and efficient use of their resources.
 - j. Super-site monitoring to be implemented in Tam Dao under UNEP/GEF project (2014-2018)
 - k. Proposed timeline for coalition between POPSEA project and UNEP/GEF project presented to the group and is to be revised based on comments of the group. The concrete coalition items and implementation schedule should be finalised.

(Next workshops)

6. The participants discussed and agreed following proposals.
 - a. The Inception Workshop on UNEP/GEF project is planned to be held in the third quarter of 2014.
 - b. The next POPSEA workshop will be held as the Joint Workshop with UNEP/GEF project in the third quarter of 2015 possibly in Vietnam.

END

Summary Report of the 8th Expert Working Group (EWG) Meeting

29 November 2013

Chairperson: Dr. Yasuyuki SHIBATA (NIES)

Participants: Dr. Noriyuki SUZUKI (Japan)

Prof. Takeshi NAKANO (Japan)

Prof. Takumi TAKASUGA (Japan)

Mr. Chandath HIM (Cambodia)

Ms. Novy FARHANI (Indonesia)

Dr. Jong- Woo CHOI (ROK)

Mr. Phongsavath YINGYONG (Lao PDR)

Ms. Ezahtulsyahreen Ab RAHMAN (Malaysia)

Mr. Altangadas BAYANGARGAL (Mongolia)

Ms. Yubao J. LIM (Singapore)

Ms. Teresita Abungan PERALTA

Ms. Ma. Fatima R. MOLINA

Prof. Evangeline Custodio SANTIAGO (Philippines)

Dr. Pattanan Tarin (Thailand)

Ms. Giang Hong LE (Vietnam)

Mr. Yuji Kashima, Dr. Takashi Shoji (Secretariat, Japan Environmental Sanitation Center)

Mr. Ho- Joong Kim, Ms. Kyoung-Sim Kim (Observers, Korea)

Dr. Olga N. LUKIANOVA (Observer, NOWPAP)

Eldelinita D. Andres, Noemi Ruth Q Infante(Philippines, Observer)

1. EWG reviewed the obtained data described in the Sub-regional Report from 2008 to 2013, and the results of the super-site monitoring in Republic of Korea and Japan as reported, and concluded that the high frequency data at two super-sites were acceptable. The Chairperson explained general QA/QC procedures, i.e. method detection limit, method quantification limit, recovery of surrogates, procedure blanks, travel blanks, and duplicate analysis, and noted that the reported data by the Secretariat was not sufficient to assess the quality of the analysis. The cooperative monitoring data will be accepted after circulating QA/QC information to the experts. Participants also raised some questions, concerns and comments regarding the content of the reports which will be addressed adequately.

2. Participating countries (Cambodia, Indonesia, Malaysia, Mongolia, Philippines, Singapore, Thailand, Lao PDR) presented their challenges for the implementation of the POPs monitoring. Majority of the participating countries expressed their need for capacity building specifically training for analysis and use of equipment. Most countries also experience financial constraints, affecting the implementation of the Monitoring of POPs in their countries. Lao PDR suggested that while they didn't have the capacity to do analysis, they can send samples to other international laboratories for analysis. Participants also raised other concerns, comments and questions on the presentations. The Chairperson recognized the need for capacity building activities which could be considered under UNEP/GEF Project.
3. The EWG reviewed the proposal on the implementation plan of cooperative monitoring under the POPSEA project in 2014 and 2015, and accepted the plan. If the resources are available, simultaneous analysis of PCB together with POPs pesticides is proposed.
4. The Chairperson asked Prof. TAKASUGA to present detailed comparison between data from active and passive sampling. The EWG recognized potential of passive sampling, but also identify further research needed to improve comparability of the two methods.
5. Prof. TAKASUGA introduced the draft technical manual on the monitoring of POPs in the atmospheric environment including newly added POP chemicals.
6. Participants noted the following presentations on recent research activities:
 - (1) Analysis Example of Long-range and Inter-media Transport of POP-related Chemicals by Global Environmental Fate Model, Dr. Noriyuki SUZUKI; and
 - (2) Unintentional Formation of PCB from Chemical Manufacturing Process, Prof. Takeshi NAKANO.
7. The EWG recognized the importance of harmonization and collaboration between POPSEA project and UNEP/GEF Project to generate quality data and sustainability of the regional POPs monitoring.

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