



EUROPEAN COMMISSION  
DIRECTORATE GENERAL JRC  
JOINT RESEARCH CENTRE  
Rural, Water and Ecosystem Resources Unit

## ***Explanatory note***

# ***PARTICIPANTS IN VALIDATION OF HORIZONTAL STANDARDS***

The information displayed below has been distributed individually to each individual participant, who has registered in time and with complete and full contact details according to the instructions made. The following document is only intended to be reminder of the correspondence received.

At this stage it has also to be stressed that ANY question regarding the practical organisation and execution of the intercomparisons using the samples dispatched by the JRC should be asked **directly and only** our HelpDesk run by my co-worker Dr. Sobiecka. Her contact details can be found at the end of this document. Otherwise, we cannot ensure that the information provided is accurate and quick!

Please do NOT contact neither Dr. Held (IRMM Geel), the coordinator Dr. van der Sloot nor myself directly, as this will cause only delays in the reply.

Ispra, Thursday, 11 January 2007  
Dr. Bernd Manfred Gawlik

## Overview on validation programm - Complexity Group 1

### Parameters of Complexity Group 1

Complexity Group 1 consists of the following property values to be validated:

<b>Parameter</b>	<b>Congeners*</b>
<b>PAH</b>	(Naphthalene (CAS No. 91-20-3), Acenaphthene (CAS No.83-32-9), Acenaphthylene (CAS No.208-96-8), Fluorene (CAS No.86-73-7), Anthracene (CAS No.120-12-7), Phenanthrene (CAS No. 85-01-8), Fluoranthene (CAS No.206-44-0), Pyrene (CAS No.129-00-0), Benz(a)anthracene (CAS No.56-55-3), Chrysene (CAS.No.218-01-9), Benzo(b)fluoranthene (CAS No. 205-99-2), Benzo(k)fluoranthene (CAS No.207-08-9), Benzo(a)pyrene (CAS No.50-32-8), Indeno(1,2,3-cd)pyrene (CAS No.193-39-5), Dibenz(ah)anthracene (CAS No.53-70-3), Benzo(ghi)perylene (CAS No.191-24-2)
<b>PCB</b>	(PCB-28 2,4,4'-trichlorobiphenyl (CAS number: 7012-37-5, PCB-52 2,2',5,5'-tetrachlorobiphenyl (CAS number: 35693-99-3), PCB-101 2,2',4,5,5'-pentachlorobiphenyl (CAS number: 37680-37-2), PCB-118 2,3',4,4',5'-pentachlorobiphenyl (CAS number: 31508-00-6), PCB-138 2,2',3,4,4',5'-hexachlorobiphenyl (CAS number: 35056-28-2), PCB-153 2,2',4,4',5,5'-hexachlorobiphenyl (CAS number: 35065-27-1), PCB-180 2,2',3,4,4',5,5'-heptachlorobiphenyl (CAS number: 35065-29-3);
<b>PCDD/F and cop-PCBs</b>	(2,3,7,8-TCDD; 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD, 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF and the Dioxin-like-PCBs 81, 77,126,169,105,114,118,123,156,157,167,189)
<b>PBDE</b>	Tetra-BDE-47, Penta-BDE-100, Penta-BDE-99, Hexa-BDE-154, Hexa-BDE-153, Hepta-BDE-183, Octa-BDE-196, Octa-BDE-197, Octa-BDE-203, Deca-BDE-209
<b>LAS</b>	C10-Linear alkylsulfonate, C11-Linear alkylsulfonate, C12-Linear alkylsulfonate, C13-Linear alkylsulfonate, C14-Linear alkylsulfonate
<b>NP + E</b>	4-Nonylphenols (NP) - mixture of isomers, CAS # 104-40-5 and 25154-52-3, 4-Nonylphenol monoethoxylates (NP1EO) - mixture of isomers, CAS # 26027-38-3, 4-Nonylphenol diethoxylates (NP2EO), mixture of isomers, CAS # 26027-38-2
<b>Phthalates</b>	Di-(2-ethylhexyl)phthalate C24H38O4 DEHP CAS 00117-81-7, Dibutylphthalate C16H22O4 DBP CAS 00084-74-2);

\* in case that a participant cannot determine all congeners, a selection may be measured.

### Samples for the validation of CG 1

After a preliminary rough screening, the following materials are used for the validation round of complexity group 1:

<i>Material acronym</i>	<i>Short description</i>
Compost 1	A pollutant loaded compost material from Vienna
Sewage Sludge 1	A mixed sewage sludge from Essen
Soil 3	A sludge amended soil from Barcelona

## Draft standards to be followed

The draft standards to be followed can be downloaded following these links, which are situated on the website of the Project.

<i>Draft standard</i>	<i>URL</i>
PCB	<a href="http://www.ecn.nl/docs/society/horizontal/PCB_standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/PCB_standard_for_validation.pdf</a>
PAH	<a href="http://www.ecn.nl/docs/society/horizontal/PAH_standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/PAH_standard_for_validation.pdf</a>
NP+E	<a href="http://www.ecn.nl/docs/society/horizontal/NP_Standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/NP_Standard_for_validation.pdf</a>
LAS	<a href="http://www.ecn.nl/docs/society/horizontal/LAS_Standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/LAS_Standard_for_validation.pdf</a>
Phthalates	<a href="http://www.ecn.nl/docs/society/horizontal/Phthalate_Standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/Phthalate_Standard_for_validation.pdf</a>
PCDD/Fs and DL-PCB	<a href="http://www.ecn.nl/docs/society/horizontal/Dioxin_Furan_DL-PCB_Standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/Dioxin_Furan_DL-PCB_Standard_for_validation.pdf</a>
PBDE	<a href="http://www.ecn.nl/docs/society/horizontal/BFR_Standard_for_validation.pdf">http://www.ecn.nl/docs/society/horizontal/BFR_Standard_for_validation.pdf</a>
Upper directory	<a href="http://www.ecn.nl/horizontal/phase2/Results%20of%20consultation%20Phase%20II/">http://www.ecn.nl/horizontal/phase2/Results%20of%20consultation%20Phase%20II/</a>

## Analytical programm to be run

Number of bottles to be analysed	2
Independent test-portions PER BOTTLE	2
Number of materials received	3
Analytical conditions:	repeatability conditions, i.e. analysis are to be performed in one analytical run
Additional information	Results are to be reported referring to DRY MATTER content. The choice, how to apply d.m. correction is free for each participant

## Timing

- Dispatch of samples was done on the 18<sup>th</sup> of October 2006.
- MILC User Registration possible from 14<sup>th</sup> of November 2006.
- Opening of the MILC Data Submission 1<sup>st</sup> of December 2006.
- The deadline for submission of results has been set for Complexity Group I to the 31th of January 2007. After that no further submission is possible.

## Submission of data

Data submission is done using the JRC-IRMM MILC Platform. For data submission, each lab has first to register at the following link:

<http://www.irmm.jrc.be/imepapp/registerForComparison.action?comparison=79>

Upon creation of the login and password the MILC Data Submission will be possible from 1<sup>st</sup> of December 2006. Each participant enters its results individually together with some information on the analytical method applied. This means that no paper or files are circulated, thus minimising the risk of transcription errors.

### **Confidentiality of data:**

All data will be treated in a confidential way. Any presentation will refer only to numerical data. It will not be possible to identify the originating laboratory. Please keep in mind that the exercise is NOT a PROFICIENCY TEST, but an evaluation of the Draft CEN Standards.

### **Helpdesk and further information**

Please note that there is NO FEE whatsoever to pay. For custom reasons only, the samples will be accompanied by a PROFORMA INVOICE. Please ignore this.

In case of need for further information please contact:

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