DATA
ACCOMPANYING REPORT

Sampling and Analysis of Litterfall

The realization of the intensive monitoring program in Bulgaria was organized in 3 stationary areas. The stations are equipped with collectors for litterfall. The number of collectors is 5 for each station. The collector positions are in compliance with the requirements laid down in the Manual.

The litterfall samples are collected annually, each month in a period of heavy fall.

- **Collecting of litterfall samples** – Samples were collected, stored and mixed in accordance with the Manual. The frequency of litterfall sampling is monthly. Each of stations was equipped with 5 litterfall collectors. The collector sampling area is $1m^2$.
  The sampling periods were respectively for Vitinia station – from 27.05.2009 to 12.11.2009, for Staro Oriahovo station – from 24.08.2009 to 10.12.2009 and for Yundola station – from 29.05.2009 to 13.11.2009.

- **Analysis of litterfall samples** - The estimations of litterfall content covered all mandatory parameters excluding Mg (because of technical problem) in compliance with the Manual were performed. Except the mandatory parameters, the following optimal were analyzed – Mn, Fe, Cu, Pb, Al and Zn.

  The analytical methods, units and limits of detection for the elements are given as follows:

Sequence number	Parameter	Units	Standardized internal methods for analysis
1	2	3	4
1	K	mg/g	XR – x-ray fluorescence spectrometry
2	Ca	mg/g	XR – x-ray fluorescence spectrometry
3	Mg	mg/g	
4	N tot.	g/kg	ISO 11261
5	P	mg/kg	ISO 11466
6	C org.	g/kg	ISO 14235
7	S	mg/kg	XR – x-ray fluorescence spectrometry
8	Mn	mg/kg	XR – x-ray fluorescence spectrometry
9	Zn	mg/kg	XR – x-ray fluorescence spectrometry
10	Fe	mg/kg	XR – x-ray fluorescence spectrometry
11	Cu	mg/kg	XR – x-ray fluorescence spectrometry
12	Pb	mg/kg	XR – x-ray fluorescence spectrometry
13	Al	mg/kg	XR – x-ray fluorescence spectrometry