INTERNATIONAL WATERS RESULTS NOTES

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Shanghai Agricultural and Non-Point Pollution Reduction Project

GEFID#: 3223 Project Status: Active

1.The GEF grant was approved in June 2010 and became effective in December 2010. A Project Launch mission was undertaken in January 2011. It is still too early to report on results for this project.

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PROJECT OBJECTIVE

The objective of the Shanghai Agricultural and Non-Point Pollution Reduction Project for China is to demonstrate effective and innovative pollution reduction activities in Shanghai's rural areas in order to reduce the rural and agricultural pollution load (especially nutrients) in the surface water flowing to the East China Sea.

RESULTS: PROCESS

The Project was approved in June 2010 and became effective in December 2010. Sub-grant agreements between the Shanghai Financial Bureau and Project Implementing Agencies were signed, except for three agencies. The remaining sub-grant agreements will be signed as soon as pending issues are resolved. Procurement has already started in sub-components of Livestock waste management in Shenye Dairy Farm, Integrated Livestock and Agricultural Waste Management in Qianwei Village, and Integrated Agricultural Pollution Reduction Techniques by Shanghai Agricultural Technology and Extension Service Center. Qingpu village wetland sub-component has started construction, and Training and Dissemination sub-component under Shanghai Agricultural Broadcasting TV School has started production of materials, web-site and video taking. However, it is still too early to report on results for this project, as construction has not been completed.

INDICATOR#1 Demonstration of Pollution Reduction Technologies [8]
Results to date: Project is still in early stages of implementation.

INDICATOR#2 Development of Replication Strategy for disseminating demonstrated technologies [finalized]
Results to date: Project is still in early stages of implementation.

RESULTS: STRESS REDUCTION

The Project will demonstrate technologies to reduce agricultural and non-point source pollution in rural Shanghai through livestock waste management in large and medium scale farms, treatment of agricultural and domestic wastewater by artificial wetland, and promotion of organic fertilizer and application of low toxic chemicals and eco-friendly biological pesticides. Results of the project will be monitored and documented for further analysis. The project will also develop dissemination materials (e.g. booklet and film) and a replication strategy for further dissemination. The project is in early stages and no sub-projects have been completed yet. Therefore it is too early to report on results for the project.

INDICATOR#1 Average quantity of livestock solid and liquid waste treated at livestock farms in Jinshan, Shenye and Qianwei (ton/d).
Results to date: Project is still in early stages of implementation.

INDICATOR#2 Average volume of rural household wastewater treated at wetland wastewater treatment systems in participating villages (m3/d).
Results to date: Project is still in early stages of implementation

INDICATOR#3 Increased replication farms area using demonstrated technologies (cumulative)
Results to date: Project is still in early stages of implementation

RESULTS: WATER RESOURCE AND ENVIRONMENTAL STATUS

Livestock waste, domestic wastewater, crop straw and non-point agricultural run-off fertilizers and pesticides are the major sources of pollution in the rural areas of the Yangtze River and the East China Sea. The project aims to take a comprehensive approach by demonstrating a number of innovative sub-projects to mitigate agricultural and non-point source pollution discharged to a water environment. The outcome of the project will be measured by cumulative amount of reduced pollutant (i.e. TN, TP, BOD, COD and NH3-N).

INDICATOR#1 Reduced pollution of (a) TN, (b) TP, (c) BOD, and (d) COD discharged from subproject sites in Livestock Waste Management Technology Demonstration Component
Results to date: Project is still in early stages of implementation.

INDICATOR#2 Reduced pollution of (a) NH3-N, (b) TP, (c) BOD and (d) COD discharged from subproject sites in Wetland Demonstration for Pollution Reduction Component
Results to date: Project is still in early stages of implementation