

Weholite helps to clean river in Thailand

In the past, wastewater systems in Thailand used concrete pipes to collect the wastewater and transfer it to the treatment plants. With its superior properties and qualifications compared with other kinds of pipe, Weholite is now increasingly being used in the design and construction of wastewater systems in both the public and private sector.



The Chao Praya River is one of the main rivers in Thailand. It flows from Nakhon Sawan through many provinces in the country. It is the most important waterway and water resource for many industries and for a majority of the people in the central region of Thailand.

In 2006 the Ministry of Natural Resources and Environment was urged by the Office of Natural Resources and Environmental Policy and Planning to cooperate with Nakhon Sawan Municipality to prevent wastewater from contaminating the Chao Praya River, since there was no proper combined wastewater treatment system in the area at that time.

SEVERE POLLUTION IN CHAO PRAYA RIVER

The total volume of wastewater from the local population is around 36,000 m³ per day. This has caused continuous pollution problems in the Chao Praya River and for the local community.

The plan was to design a pipeline system for wastewater collection, especially in the area by

the riverside. In the specification, the pipeline was required to be leakproof, and so the Weholite pipe system was chosen.

The size of the pipes ranges from DN/ID 800 to 1,200 mm, with a total pipe length of around 3,800 metres. The total budget for this project was around 600 million baht, or EUR 13.3 million.

Construction and civil works were carried out by Samprasit and Bangsaen Mahanakorn. The project was planned for completion within 48 months. KWH Pipe was also able to do all of the welding work on the Weholite pipes.

PUBLIC SECTOR ALSO REQUIRES WEHOLITE

Another project in Thailand is in the public sector. The 304 Industrial Park is one of the largest industrial estates in the eastern part of Thailand. It is owned by 304 Industrial Park Ltd and promoted by the Board of Investment of Thailand as an investment source for both domestic and foreign entrepreneurs. 304's objective is to provide a good utility system to



DUE TO ITS LIGHT WEIGHT AND ITS AVAILABILITY IN LONGER LENGTHS – IN THIS CASE 12 METRES – WEHOLITE PIPE IS QUICK TO INSTALL AND REQUIRES LESS HEAVY EQUIPMENT.

support increasing demand and make a good impression on investors and clients by choosing high quality and easy-to-maintain equipment and facilities, such as its wastewater collection pipes.

In the past, 304 used asbestos cement for its drainage pipes and PE-HD pipes to collect wastewater on the industrial estate.

“But when we heard about the Weholite pipe and its benefits, we decided to use Weholite instead of asbestos cement pipes for the drainage system and our new wastewater collection pipeline,” said

Mr Kitja Rassameejam, Project Manager, Inter Project Management Co., Ltd, the consultant for 304.

HIGH CHEMICAL RESISTANCE WAS CRUCIAL

“The main reason is that PE-HD has high chemical resistance and the system was a gravity application, so we decided to use Weholite pipe instead,” Mr Kitja explained.

“The cost of Weholite pipe together with installation was 20% lower than that of cement pipe,” he added.

With Weholite pipe, one can cut down working procedures and labour costs because it is an easy-to-install pipe. Due to its light weight and its availability in longer lengths (in this case 12 metres), Weholite pipe is quick to install and requires less heavy equipment.

The project started in the beginning of 2007 and took less than four months to complete. The total length of this pipeline is 6,840 metres, with a size range from DN/ID 350 mm to DN/ID 800 mm. ●