



Hydro
International

CFE
EcoTech

*Géotechnique
et
assainissement à Namur*

Hydro International
Storm King® with Swirl Cleanse™

Keith Hutchings



BAGECI

Tractebel Engineering
Suez



inasep
votre eau... votre meilleure

SPGE
Société Publique de Gestion de l'Eau

EURODRILL

Namur project History:

- 1998 – Project was opened at Hydro
- 2001 – First meeting held in Namur
- 2004 – Initial site trials carried out
- 2006 – Tendering process begins
- 2007 – CFE EcoTech, environmental department of CFE group, is one of the four members of the joint venture*
 - Hydro is appointed as a subcontractor of CFE EcoTech for the hydraulic design and Storm King® Swirl Cleanse™ manufacturing design.

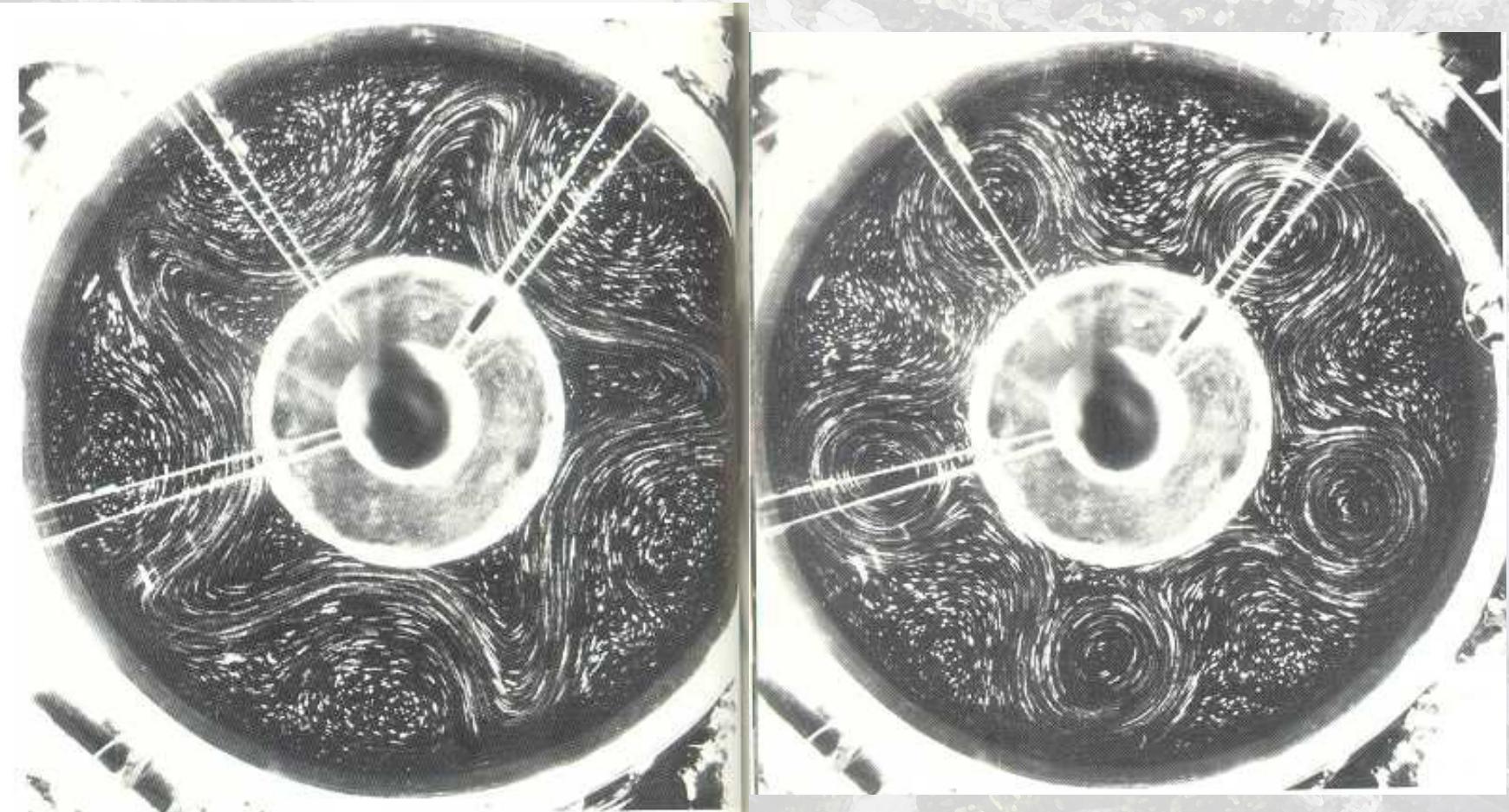
*CFE EcoTech are responsible for the civil design, the low pressure network (both process and hydraulics), design and detailed engineering of electromechanical equipment (including functional specifications). CFE EcoTech are licensed to manufacture some Storm King® with Swirl Cleanse™ components for the Namur project and responsible for installation and commissioning.

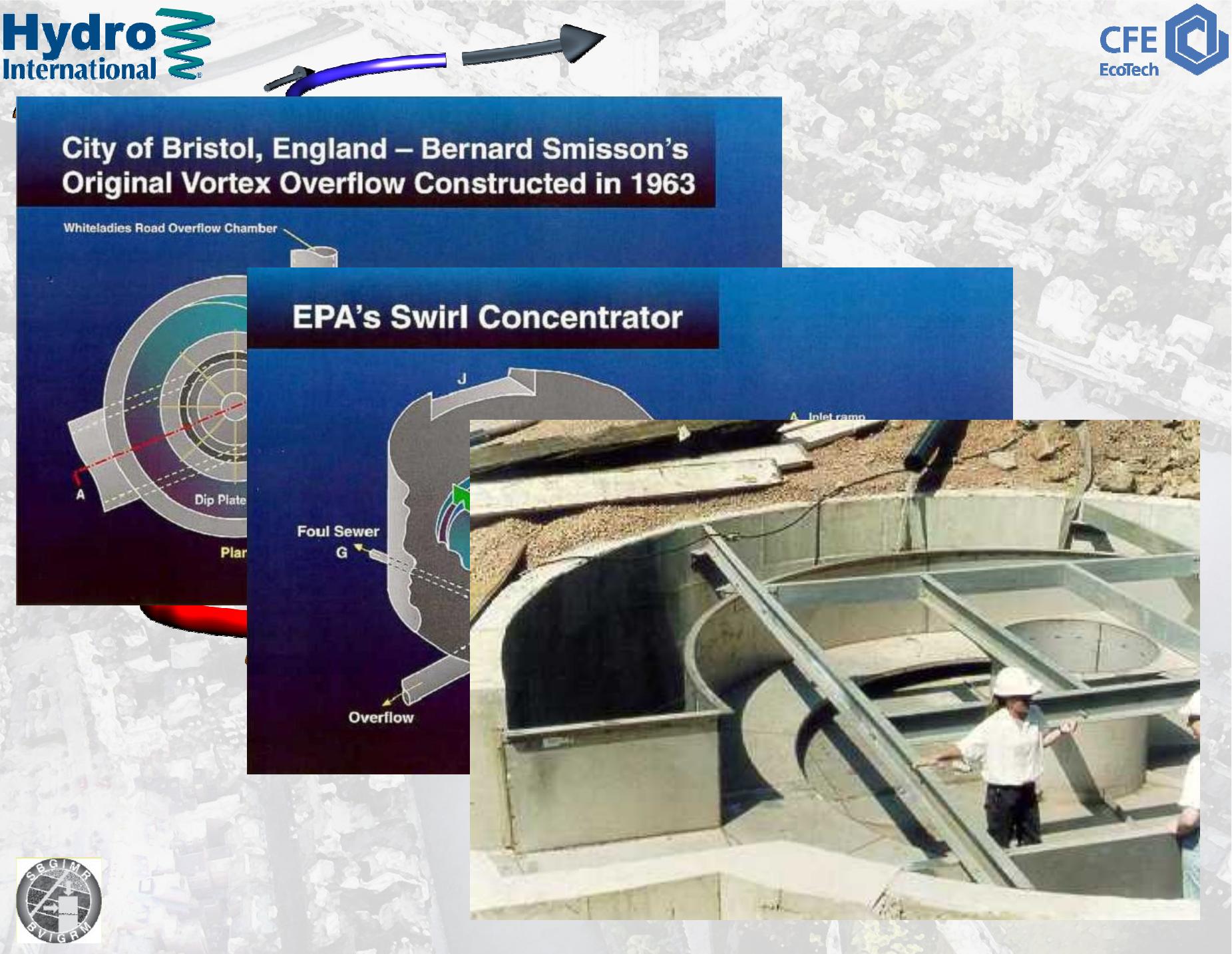


- Hydro – Background
- Development of the Hydro dynamic separator
- Storm King®
- Storm King® with Swirl cleanse™
- Namur Innovations
- Production









- Screening
 - No power
 - No moving parts
 - Automatic operation



Swirl Cleanse™

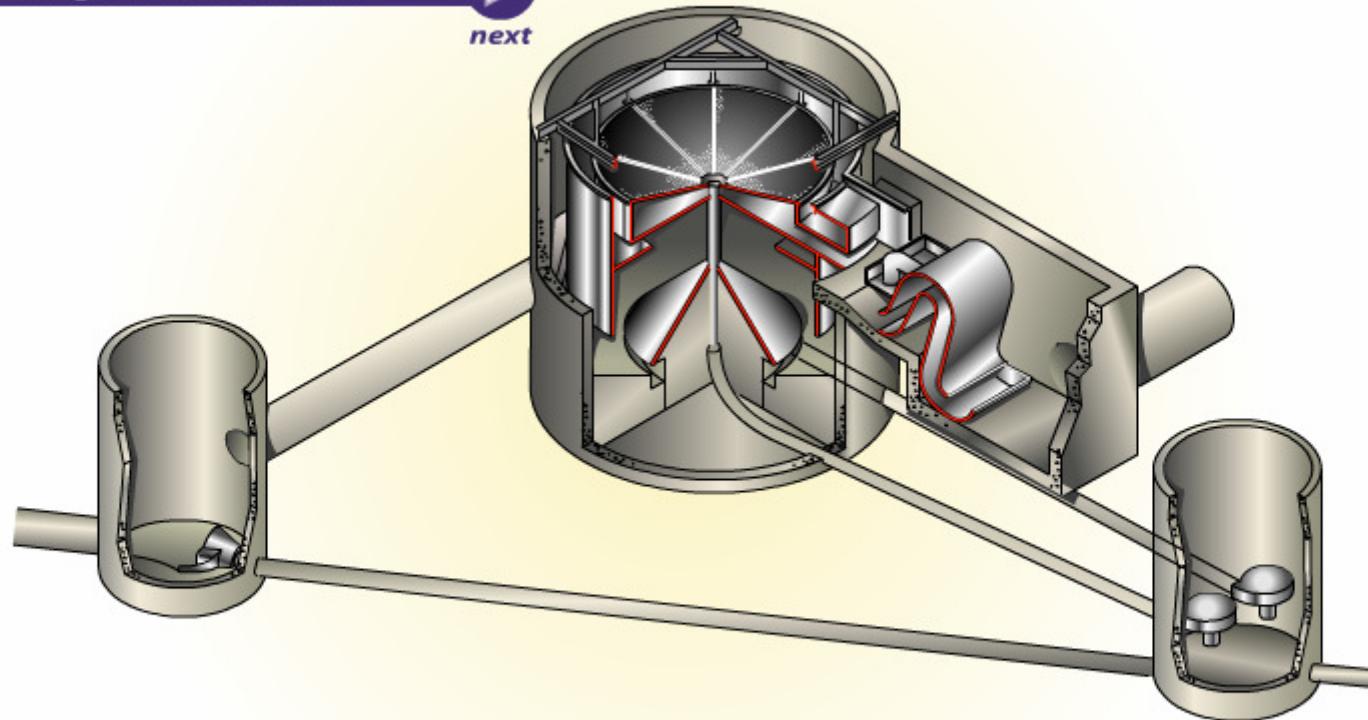


Storm King® Overflow with Swirl-Cleanse™ Screen

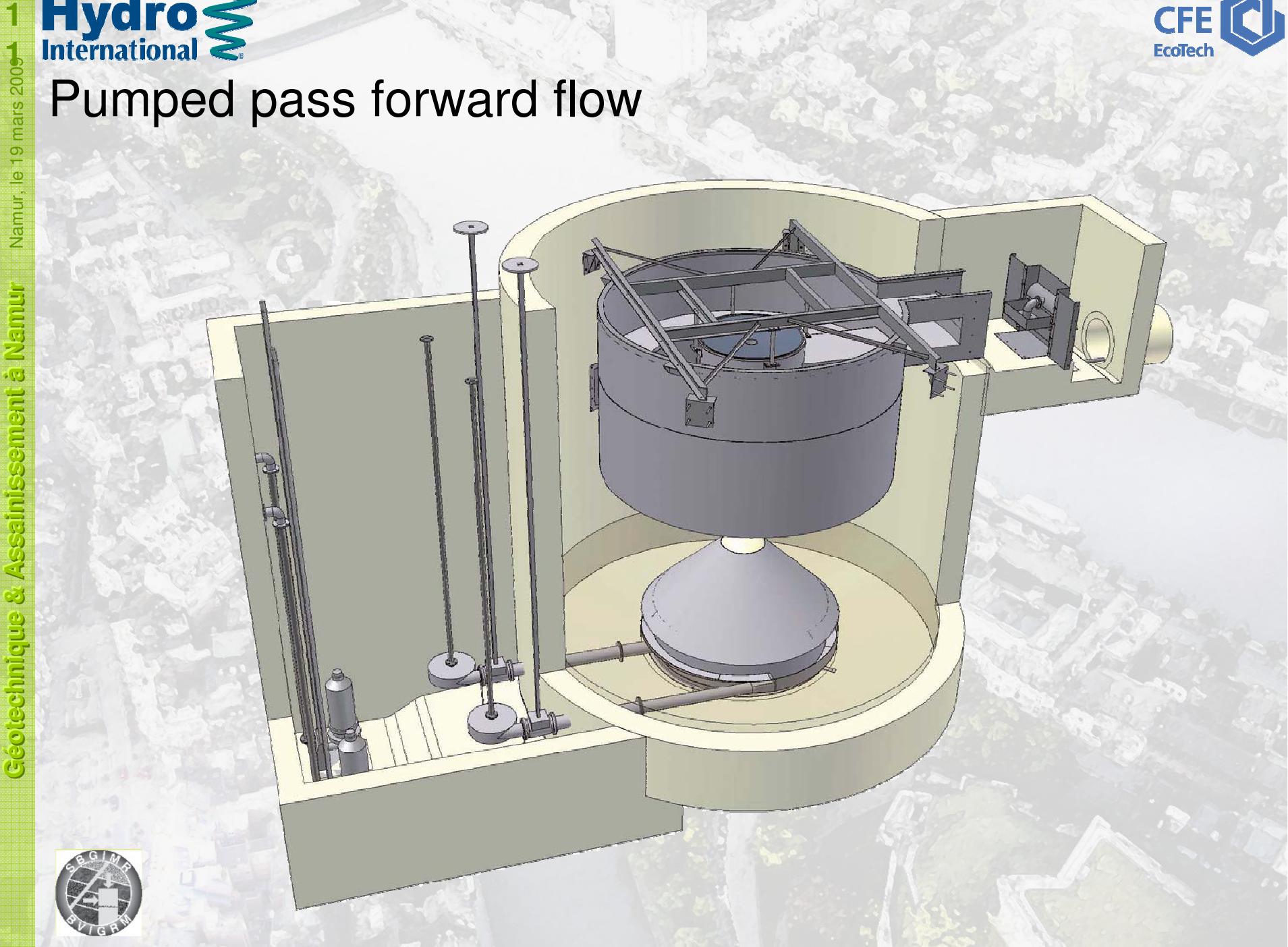
Stage 1 Static Condition

next

by Hydro International



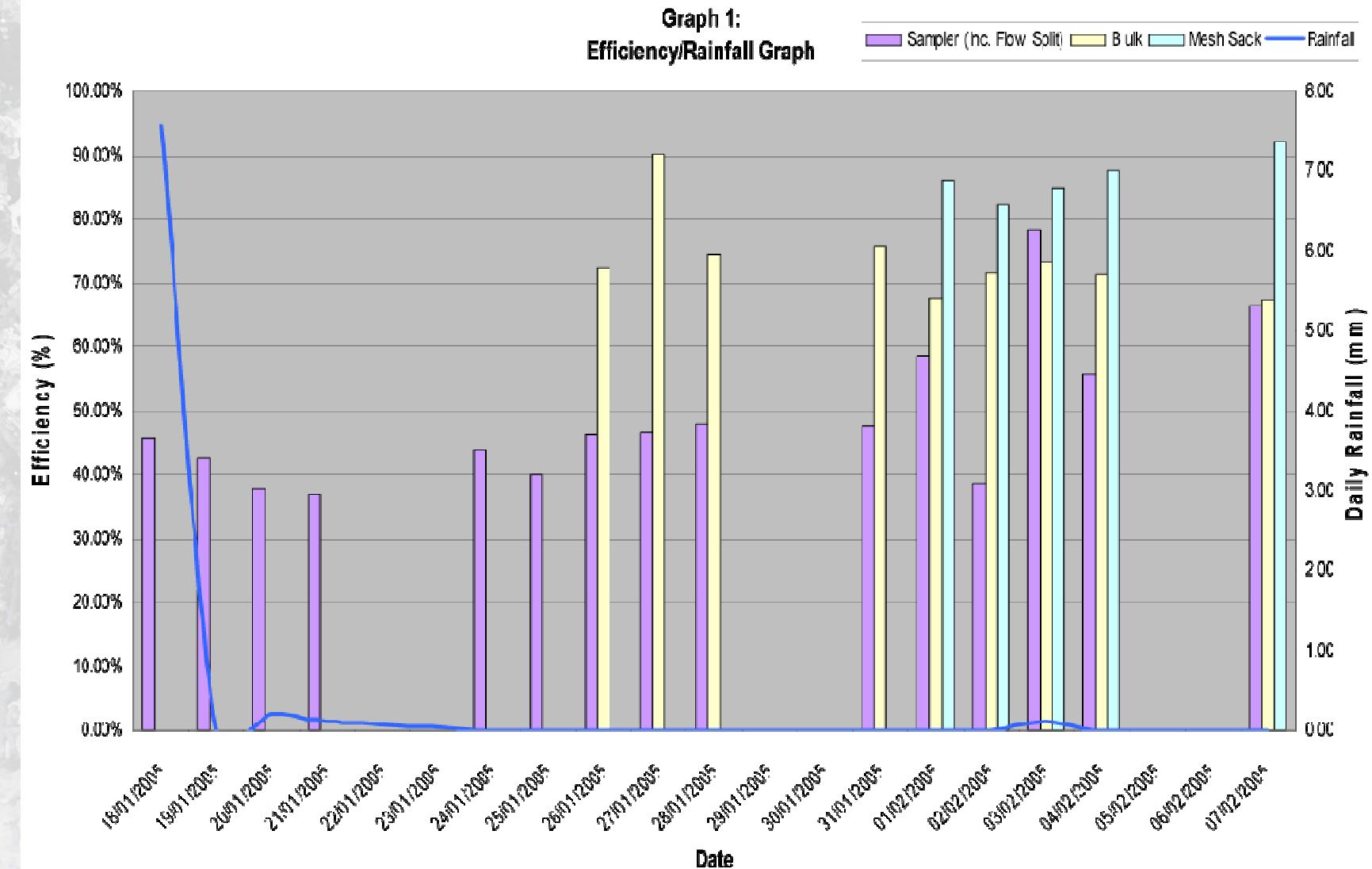


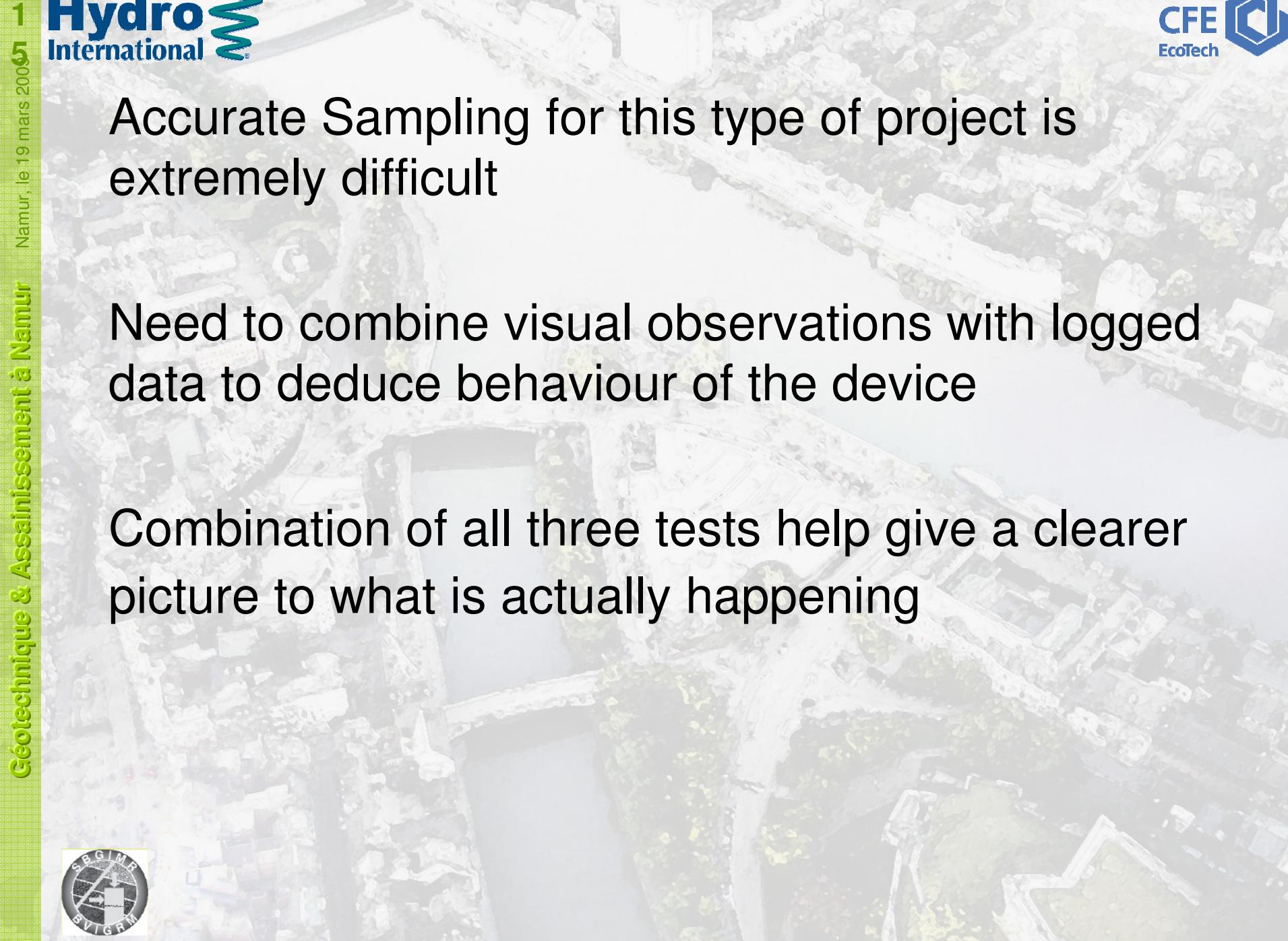


Namur trial unit - 2005









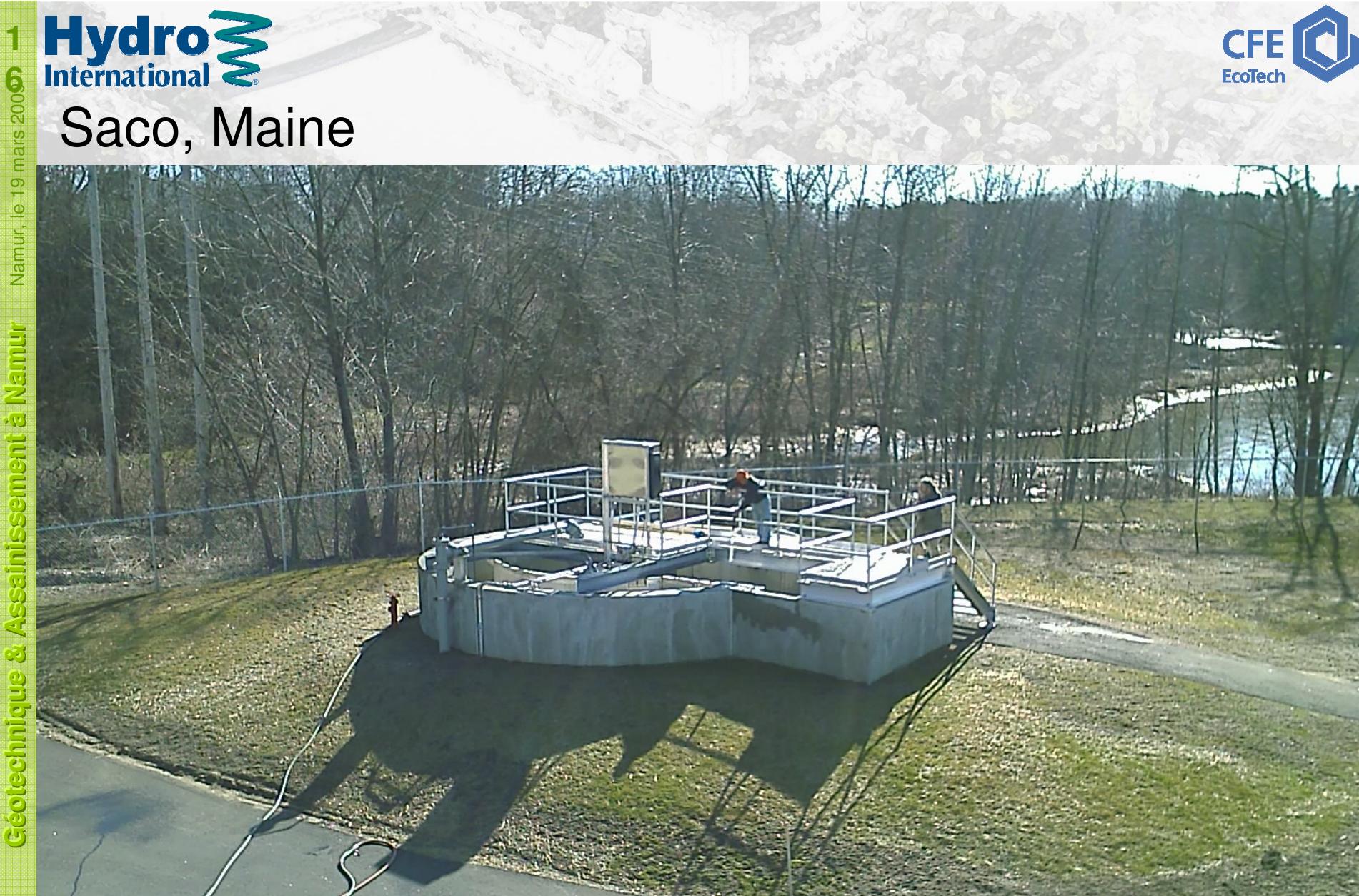
Accurate Sampling for this type of project is extremely difficult

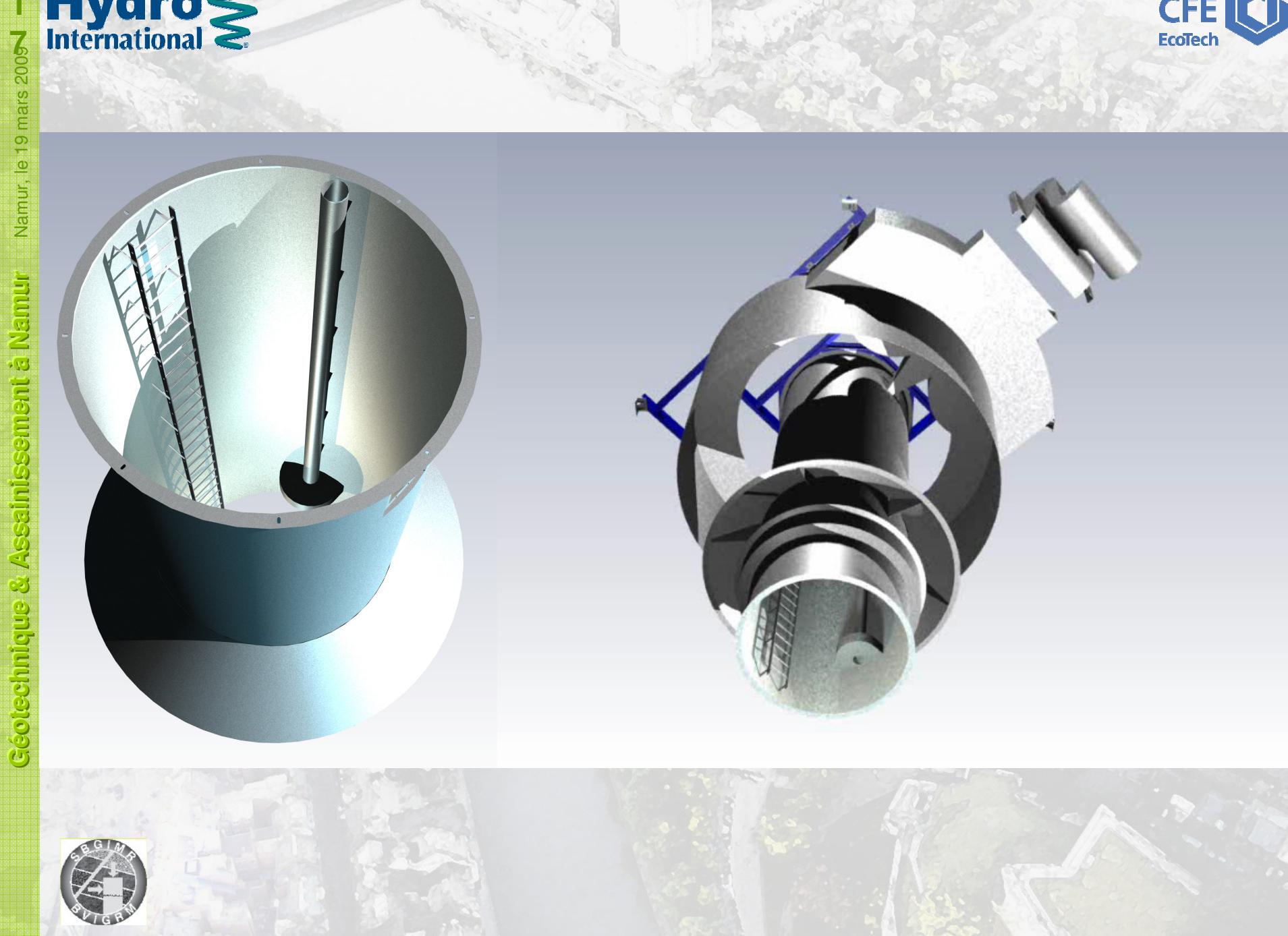
Need to combine visual observations with logged data to deduce behaviour of the device

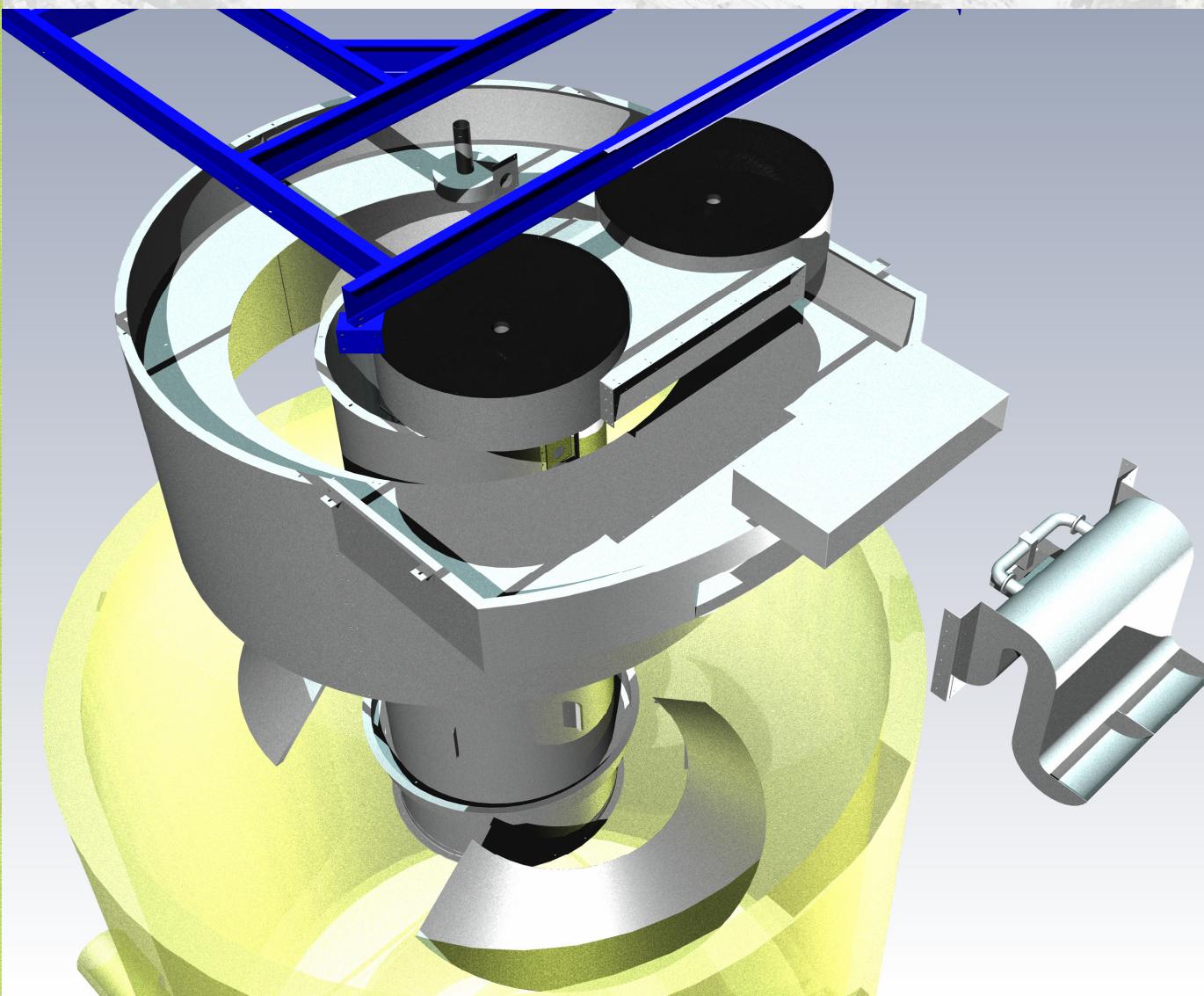
Combination of all three tests help give a clearer picture to what is actually happening



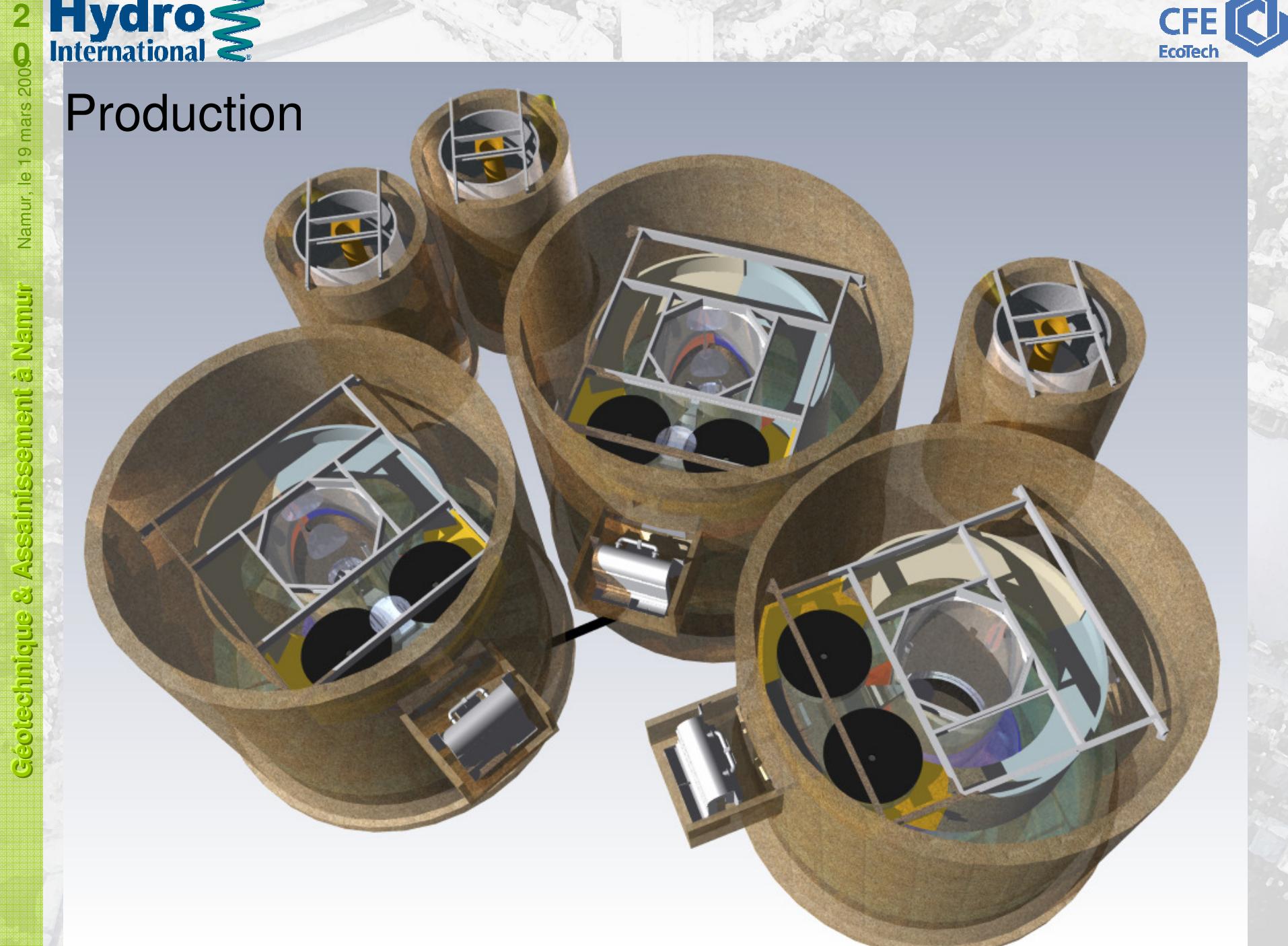
Saco, Maine



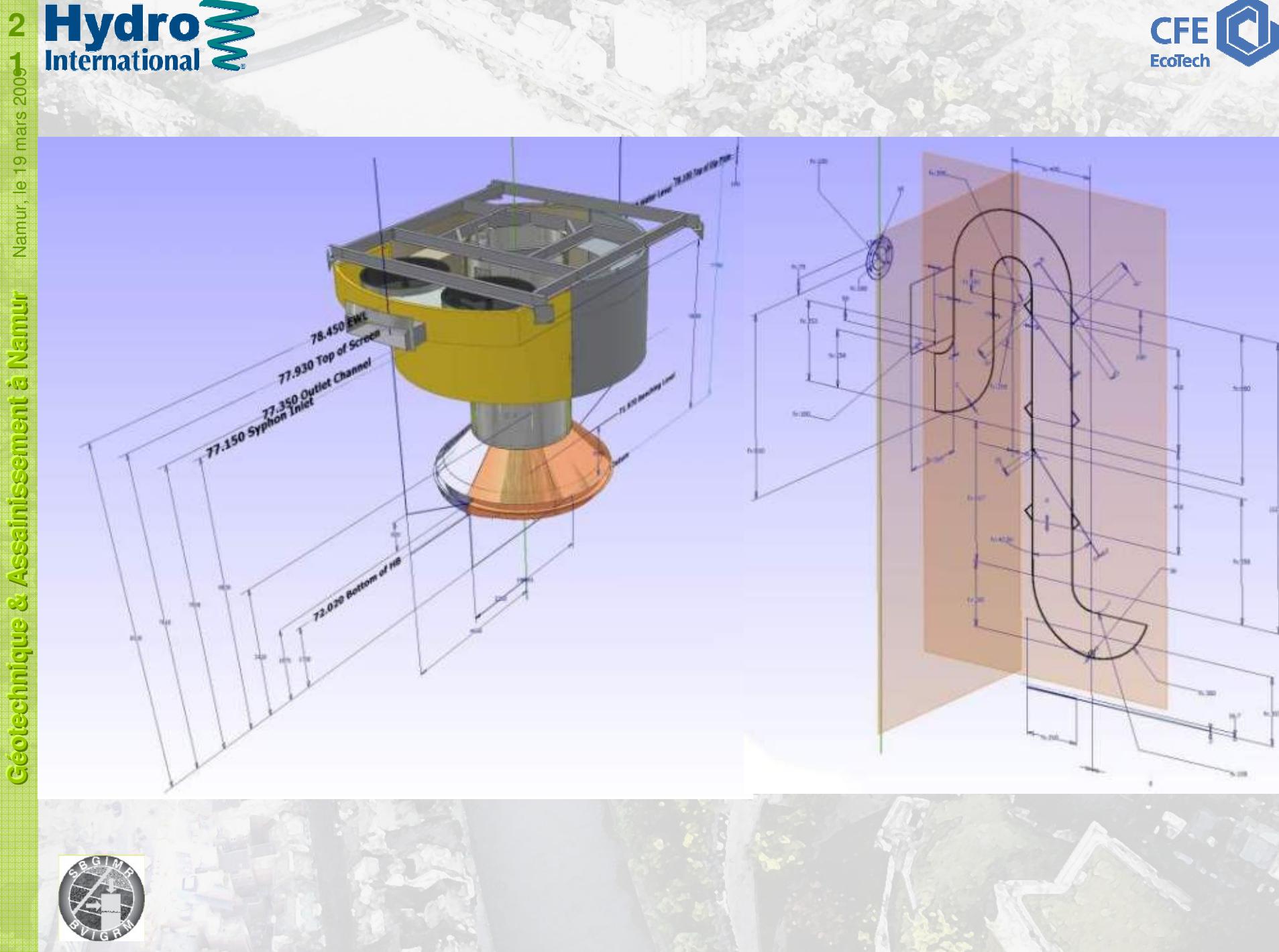


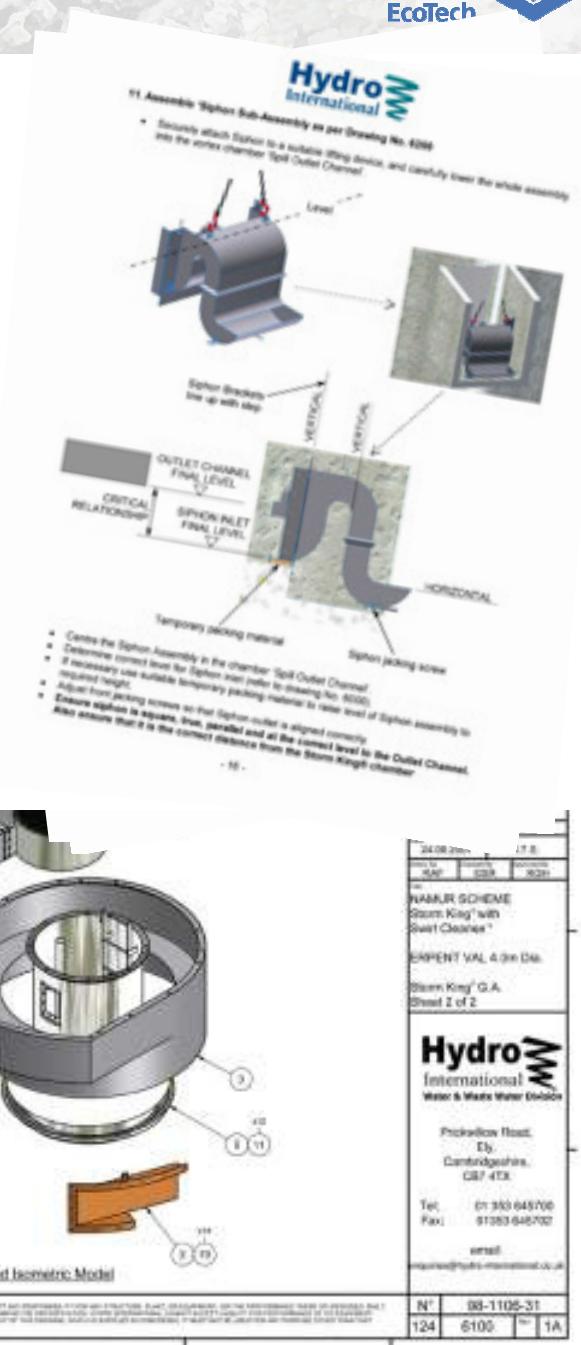
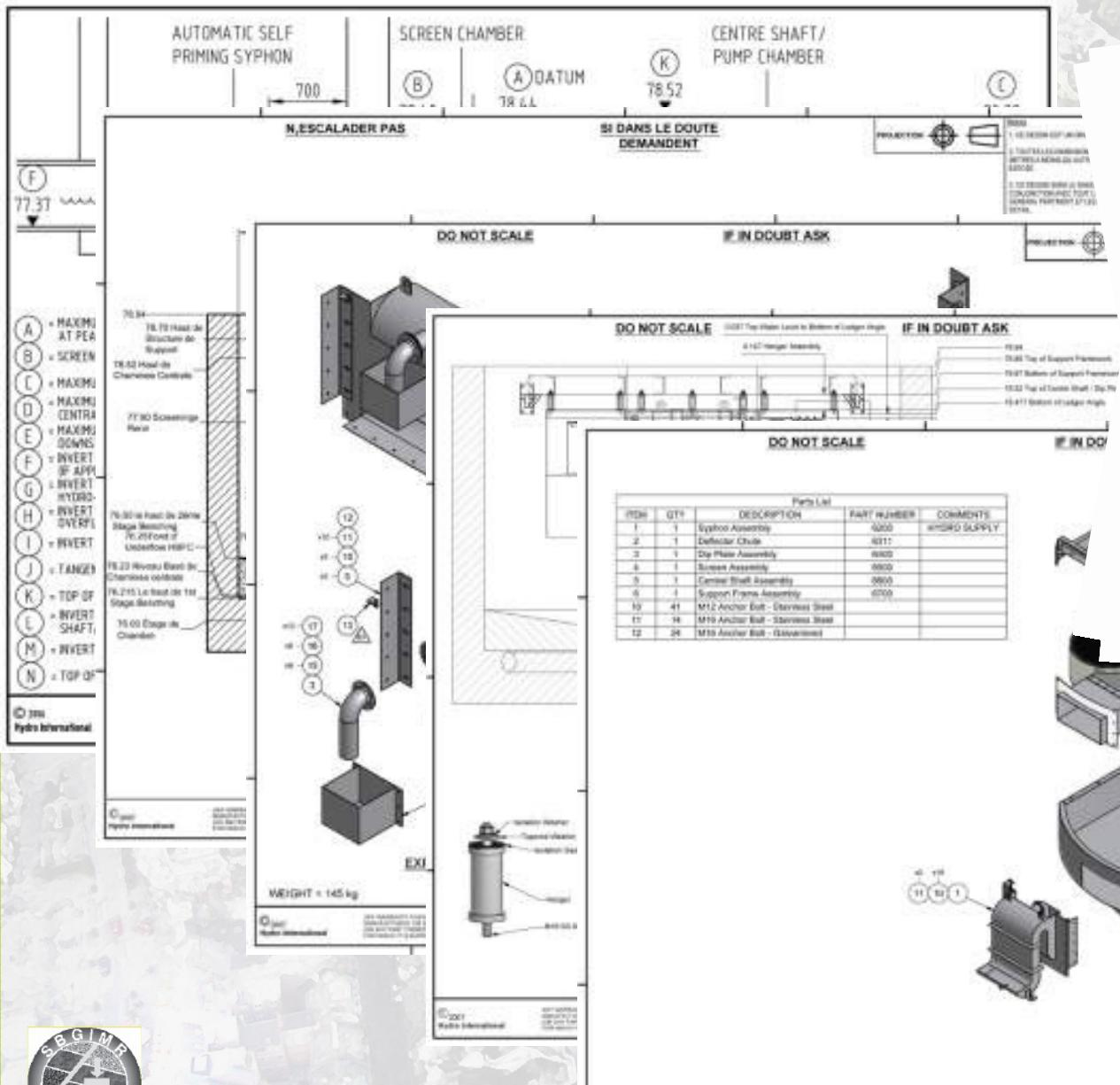






Production







Conclusion:

Hydro International has a policy of continual Product development and employ cutting edge technologies to reduce time scales whilst still conducting real world validation and verification

Proven track record of the use of applied hydraulics to effectively control flows and prevent pollution

Storm King® with Swirl Cleanse™ offers BATNEEC* approach to the resolution of potential problems



*Best Available Technique Not Entailing Excessive Cost

Hydro^W International

