

New Constructed Wetlands for Treatment of agricultural Runoff-Waters

Treatment of Rice Field Irrigation Runoff to
Establish a New Wetland Complex in
Momoge National Nature Reserve, Jilin
Province, China

中国吉林莫莫格国家级自然保护区
稻田灌溉水人工湿地生态处理和湿地恢复
示范工程设计



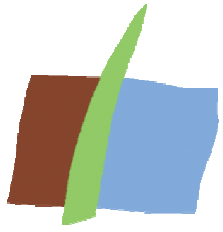
Blumberg Engineers
Land City International Co.
German Ecological Engineering Society



www.blumberg-engineers.de

By Michael Blumberg
April.2011

2011年4月



Objectives of the engineering consultation services

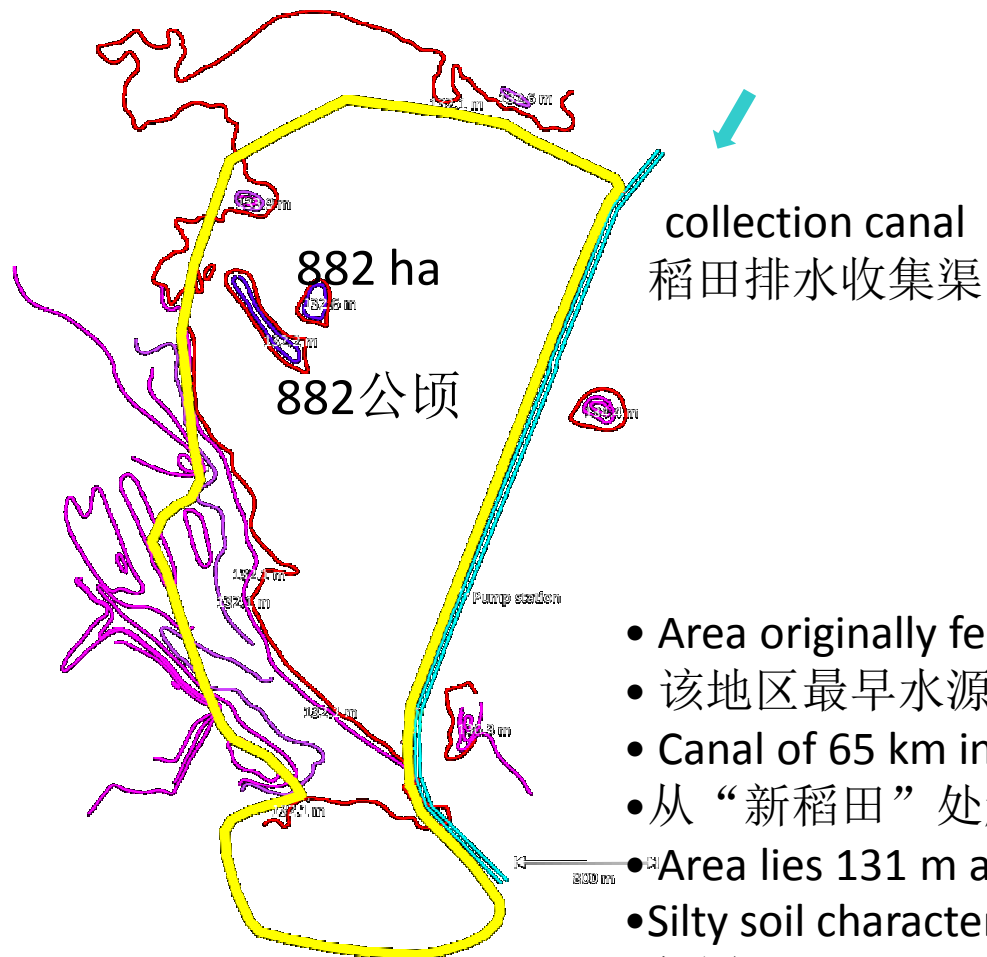
工程咨询服务目标

- Design and construction of a treatment wetland complex and wetland restoration area
- 污水处理湿地复合体与湿地恢复的设计与建设
- Construction supervision and site management
- 建设指导与场地管理

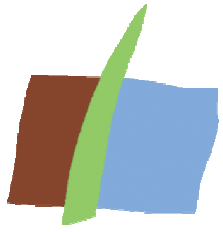


Site Description

场地现状描述

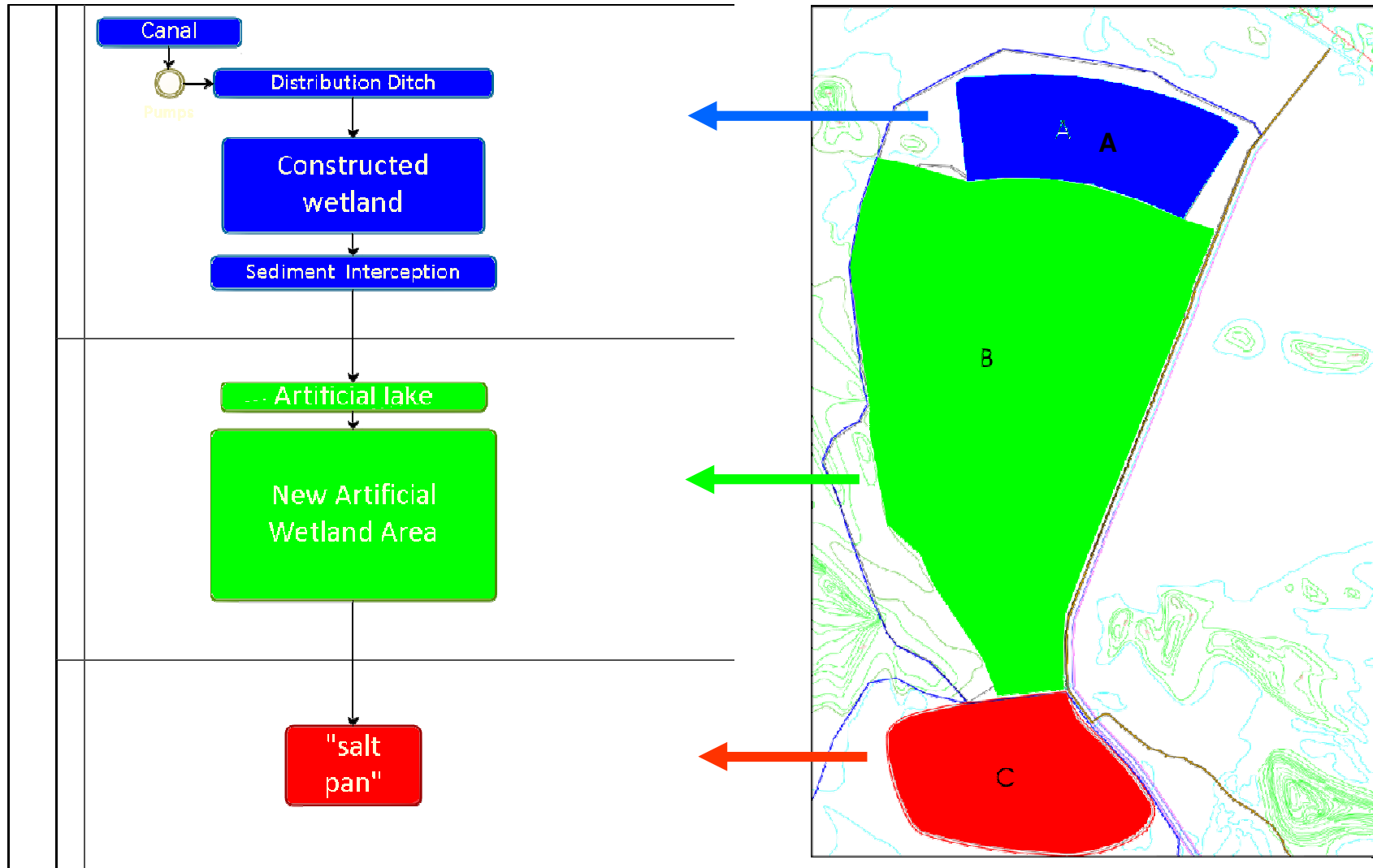


- Area originally fed by the spring floods of the Nengjiang river
- 该地区最早水源为嫩江春季洪水
- Canal of 65 km in length from „New ricefields“
- 从“新稻田”处起约65公里长的汇水渠
- Area lies 131 m above mean sea level 地表海拔高于 131米
- Silty soil characterized as alkaline „Solonetz“
- 归属于„Solonetz“ 的盐土



Conceptual Design

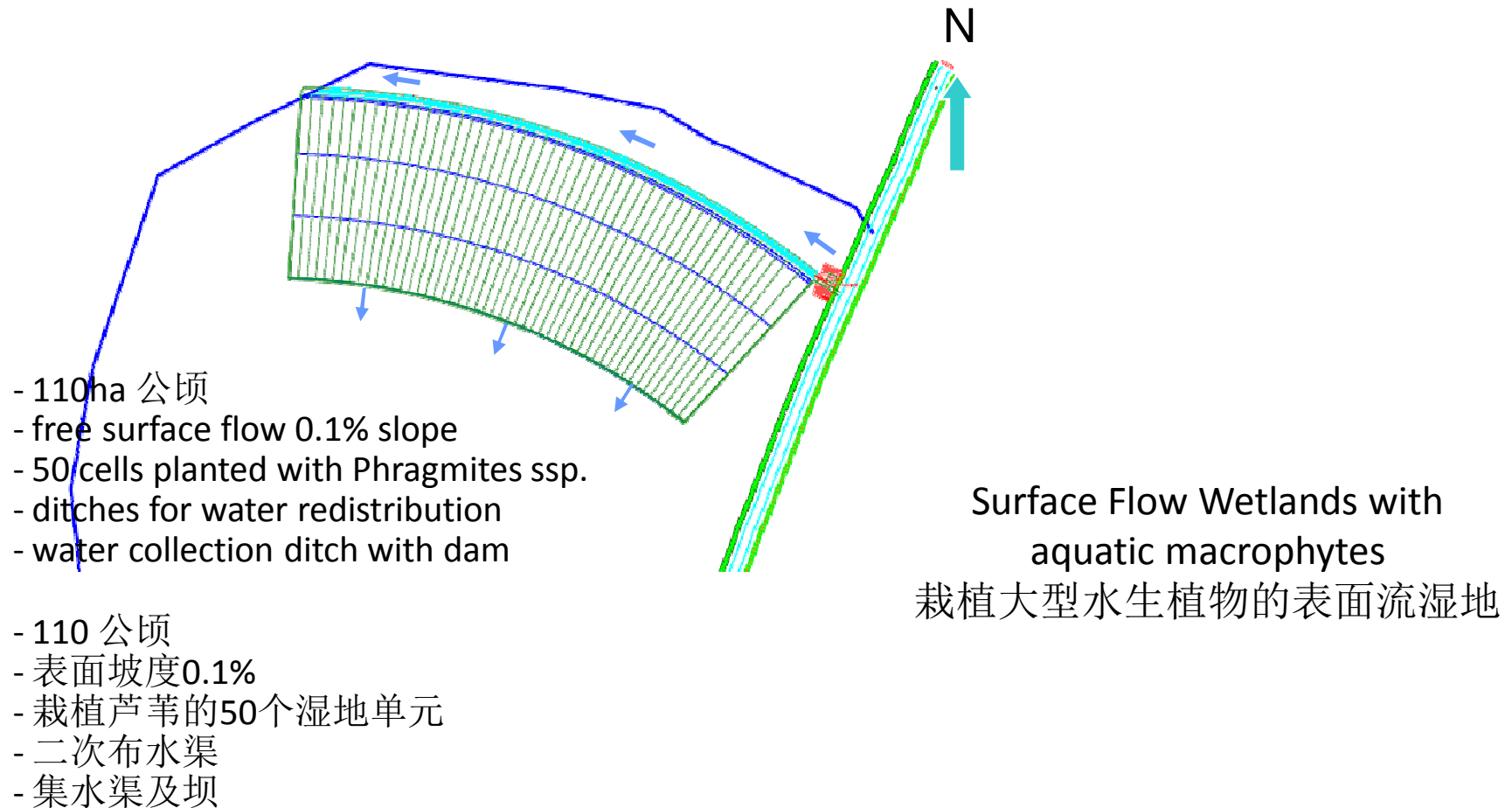
概念设计





Area A: Treatment Wetlands

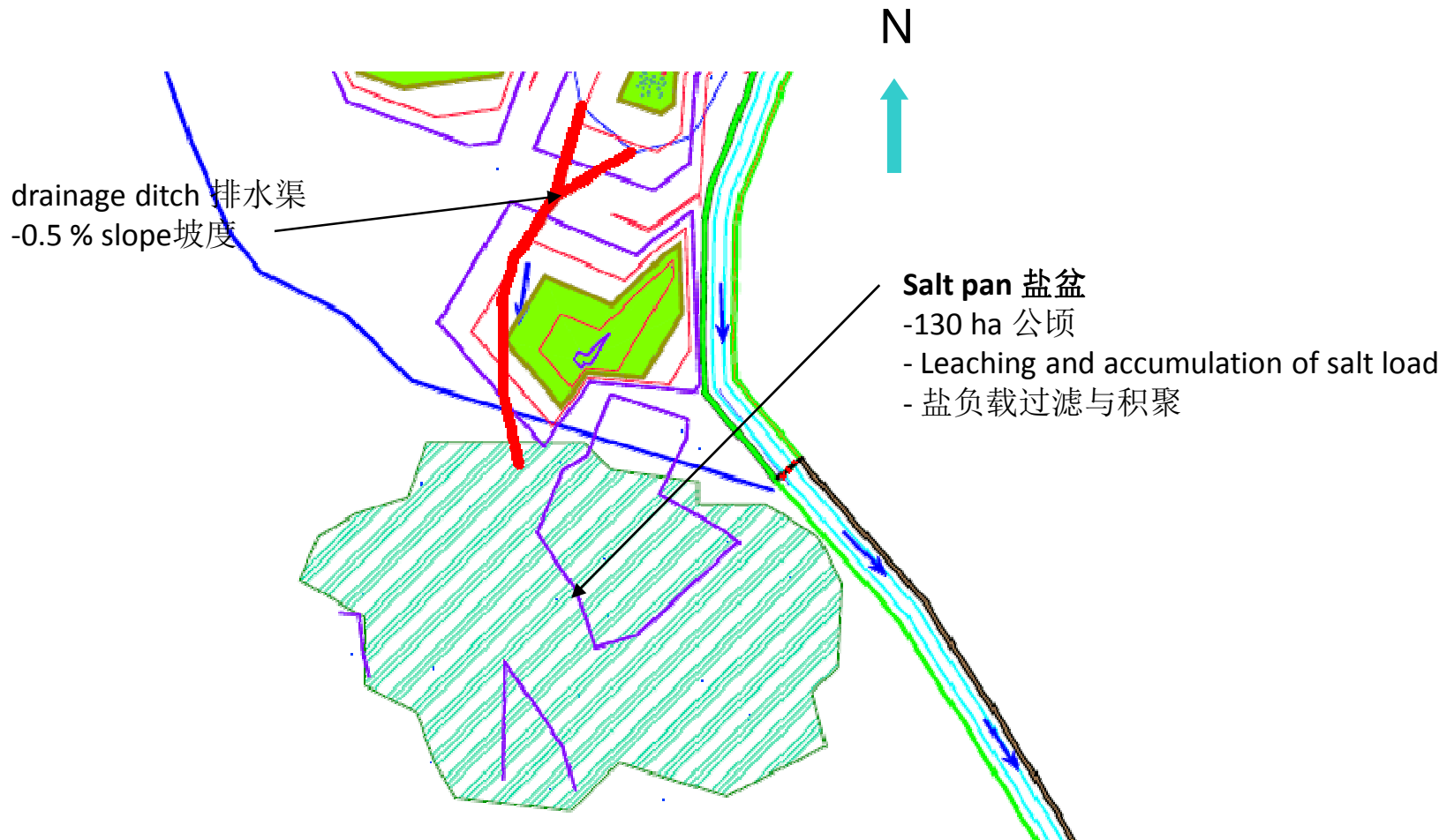
区域A: 水处理湿地

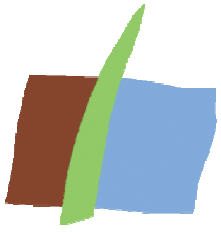




Area C: Final Evaporation

区域C: 最终蒸发





**“It takes more than water
to restore a wetland”**

“恢复湿地，需要的不仅仅是水”

Joy B. Zedler in „Progress in wetland restoration“, *Tree*, 2000, 15 (10), 402-407