

# Report No. 15

## Visit to Dongjiang Water Supply System (6 - 7 November 2013)



## Advisory Committee on Water Resources and Quality of Water Supplies

**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 15 – Visit to Dongjiang Water Supply System**  
**(6 – 7 November 2013)**

**CONTENT**

<b>Section</b>	<b>Description</b>	<b>Page</b>
A	Introduction	1
B	The Visit	2
C	Press Conference	5
D	Conclusion	5

**ANNEXURE**

**FIGURE**

**PHOTOS**

**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 15 – Visit to Dongjiang Water Supply System**  
**(6 – 7 November 2013)**

**SECTION A - INTRODUCTION**

The visit to Dongjiang-Shenzhen Water Supply System (東深供水系統) has been a major annual activity of the Advisory Committee on Water Resources and Quality of Water Supplies (ACRQWS) and its predecessor, the Advisory Committee on the Quality of Water Supplies since 2000. A delegation comprising eight non-official members, one official member and six other HKSAR Government officials (see details at **Annex 1**) conducted a 2-day visit during 6-7 November 2013. Being accompanied by officials of the Department of Water Resources of Guangdong (GD) Province (廣東省水利廳) and executives of the Guangdong Yue Gang Water Supply Limited (廣東粵港供水有限公司), the Chairman, Dr CHAN Hon Fai led the delegation to meet various officials of the local governments during the visit. The itinerary is appended at **Annex 2**.

2. The visit not only provided members with an updated progress and development in protecting the quality of Dongjiang water made by the GD Authorities and enabled them to get familiar with the Dongjiang-Shenzhen Water Supply System, but also provided an occasion for members to have a direct conversation with the GD Authorities to reflect the concerns of the Hong Kong people on Dongjiang water quality.

## SECTION B – THE VISIT

3. On arrival at Heyuan (河源) on the first day, the delegation immediately travelled to the first destination, the Xinfengjiang Reservoir (新豐江水庫) which is also known as Wanlu Lake (萬綠湖). With a water surface area of about 370 square



kilometres which is as large as one-third of the area of Hong Kong and a storage capacity of about 13.9 billion cubic metres, the Reservoir is the largest reservoir in regulating the flow in Dongjiang apart from serving as a hydropower station for

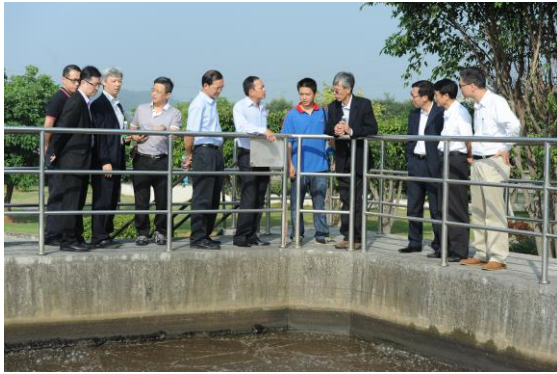
generating renewable electricity and an impounding reservoir for storing raw water. During a boat ride on the Reservoir, the delegation had an opportunity to have a close observation on the quality of the water in the Reservoir and had a fruitful discussion with the officials including those from the Heyuan Municipal People's Government (HMPG) on the protection and management of water resources in Dongjiang. Noting the actions taken by the HMPG to minimize all possible pollution to the Reservoir, the delegation was all impressed by the clean water in the Reservoir.



4. After finishing the visit at the Xinfengjiang Reservoir, the delegation then went to Dongguan (東莞) to prepare for the trip on the second day.



5. In the morning of the second day, the delegation visited the Sanzheng Sewage Treatment Plant (三正污水處理廠) which serves the area of Qiaotou (橋頭) at Dongguan. Phase 1 of the Plant started operation in January 2009 with a treatment capacity of 40,000 tonne/day. The Plant can be further expanded to an ultimate



capacity of 160,000 tonne/day after completion of the remaining Phases 2 and 3. The Plant plays a vital role in improving the water environment of those downstream cities along Dongjiang and protecting the water resources of Dongjiang.

6. The delegation then went to the Taiyuan Pumping Station (太園泵站), which is the water intake point of the Dongjiang water supplied to Hong Kong. Situated on the southern bank of Dongjiang at Dongguan where is about 350 metres (m)



upstream of the junction of Shima River and Dongjiang, the Pumping Station has a design capacity of 100 cubic metres per second at a pump head of 11 m.

7. The delegation was given a briefing of the alignment of the dedicated aqueduct with the aid of a model of the Dongjiang-Shenzhen Water Supply System. The delegation was also informed that after



the implementation of the Shima River Diversion Works (石馬河調污工程), the flow from Shima River, which contains the discharge from Dongguan, had been diverted to East Channel for treatment before discharging into the Pearl River. This measure can avoid contaminating the Dongjiang water at the intake point at Taiyuan Pumping Station and the quality of Dongjiang water had been further safeguarded before supplying to Hong Kong.

8. The delegation then visited the Bio-nitrification Plant (生物硝化廠) located



at the inlet of Shenzhen Reservoir (深圳水庫). With a daily capacity of 4 million cubic metres, the Plant receives and treats the Dongjiang water from the Dedicated Aqueduct by removing the ammonia before flowing to Shenzhen Reservoir. Delegates

noted that the quality of Dongjiang water supplied to Hong Kong had improved significantly and also water of good quality had been maintained since the commissioning of the dedicated aqueduct and operation of the Bio-nitrification Plant.

9. Before ending the trip, the delegation visited the Dongjiang Water Supply Scheme Safety Monitoring and Control Centre (東江供水工程安全監控中心), where Dongshen Branch of the Shenzhen Public Security Bureau (深圳市公安局東深分局) oversees its monitoring and control facilities installed along the Dedicated Aqueduct and in Shenzhen Reservoir. The delegation was briefed about the security



measures adopted for the protection of the Dedicated Aqueduct and the Dongjiang water.

## **SECTION C – PRESS CONFERENCE**

10. Upon returning to Hong Kong, a press conference was held in the Headquarters of the Water Supplies Department at the end of the visit. The Chairman, Dr CHAN Hon Fai (陳漢輝博士) hosted the press conference with four members, namely, Prof CHAN Lung Sang (陳龍生教授), Dr LEE Ka Yan, David (李家仁醫生), Ms WONG Wai Lan, Luciana (王惠蘭女士) and Ms TONG Po Chun (湯寶珍女士).



To start the press conference, the Chairman gave a brief account of the visit with the aid of a short video summarizing the visit. The other members shared their observations on water quality of Dongjiang during the 2-day visit. They advised the press that the water quality of Dongjiang was satisfactory and appealed to the public of Hong Kong to conserve water.

## **SECTION D – CONCLUSION**

11. Members were pleased that opportunities were provided for them to reflect the concerns of Hong Kong people on the quality of Dongjiang water to the GD Authorities direct during the visit. Delegates highly appreciated the continuous efforts made by the GD Authorities in protecting the Dongjiang water and abating pollution within the Dongjiang River Basin, as well as ensuring the quality of

Dongjiang water in full compliance with the required standards before conveying to Hong Kong.

12. Delegates were also grateful for the commitment of the GD Authorities to maintain a reliable supply of Dongjiang water to Hong Kong despite the extreme weather occurred in Guangdong and the increasing demand for Dongjiang water arising from the rapid economic growth in cities along the river in the past years.



**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 15 – Visit to Dongjiang Water Supply System**  
**(6 – 7 November 2013)**

**ANNEXURE**

<b>Annex 1</b>	<b>List of Participants</b>
<b>Annex 2</b>	<b>Itinerary</b>

**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 15 – Visit to Dongjiang Water Supply System**  
**(6 – 7 November 2013)**

**List of Participants**

姓名 Name		職銜 Title
<b>水資源及供水水質事務諮詢委員會 ACRQWS</b>		
1	陳漢輝博士 Dr CHAN Hon Fai	主席 Chairman
2	劉乙凡先生 Mr LAU Yuet Fan, Ivan	委員 Member
3	潘樂祺先生 Mr POON Lock Kee, Rocky	委員 Member
4	王惠蘭女士 Ms WONG Wai Lan, Luciana	委員 Member
5	湯寶珍女士 Ms TONG Po Chun	委員 Member
6	陳龍生教授 Prof CHAN Lung Sang	委員 Member
7	李家仁醫生 Dr LEE Ka Yan, David	委員 Member
8	鄭文聰先生 Mr CHENG Man Chung, Daniel	委員 Member
9	黃國輝先生 Mr WONG Kwok Fai, Alfred	秘書 Secretary
<b>其他 Others</b>		
10	吳孟冬先生 Mr NG Mang Tung, Bobby	水務署副署長 Deputy Director, Water Supplies Department
11	麥成章先生 Mr MAK Shing Cheung, Vincent	水務署助理署長 Assistant Director, Water Supplies Department
12	周世威先生 Mr CHAU Sai Wai	水務署總工程師 Chief Engineer, Water Supplies Department
13	郭有定先生 Mr KWOK Yau Ting, Kelvin	水務署高級化驗師 Senior Chemist, Water Supplies Department
14	李志灝先生 Mr LEE Chi Ho, Horace	水務署工程師 Engineer, Water Supplies Department
15	楊陽明先生 Mr YEUNG Yeung Ming	政府新聞處攝影師 Photographer, Information Services Department

**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 15 – Visit to Dongjiang Water Supply System**  
**(6 – 7 November 2013)**

**Itinerary**

**Day 1 (Wednesday, 6.11.2013)**

- 08:15 Depart at Hung Hom Terminal by Through Train
- 12:00 Arrive at Heyuan (河源市)
- 12:00 Lunch
- 13:30 Visit Xinfengjiang Reservoir (新豐江水庫)
- 17:00 Arrive at Dongguan (東莞市)
- 18:00 Dinner

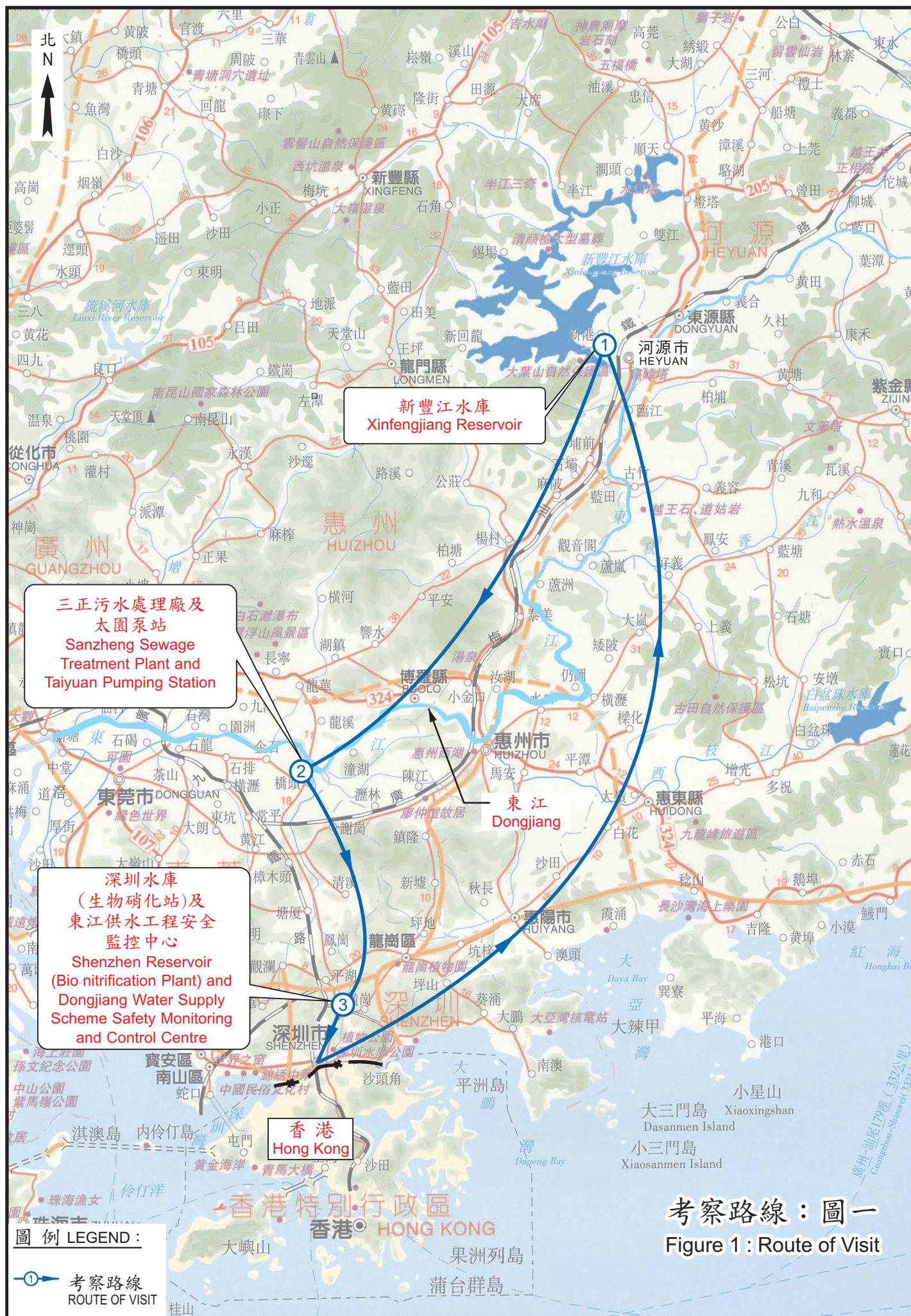
**Day 2 (Thursday, 7.11.2013)**

- 07:45 Visit Sanzheng Sewage Treatment Plant (三正污水處理廠)
- 09:15 Visit Taiyuan Pumping Station (太園泵站)
- 10:15 Visit Bio-nitrification Plant (生物硝化站) at Shenzhen Reservoir (深圳水庫) and Dongjiang Water Supply Scheme Safety Monitoring and Control Centre (東江供水工程安全監控中心)
- 12:30 Lunch
- 13:45 Return to Hong Kong via Lo Wu
- 16:00 Convene a press conference at WSD Headquarters, Immigration Tower

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**FIGURE**





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**PHOTOS**





Photo 1 – The delegation at Xinfengjiang Reservoir



Photo 2 – Deputy Director of Water Supplies and the Chairman of ACRQWS  
(from right to left) at Xinfengjiang Reservoir



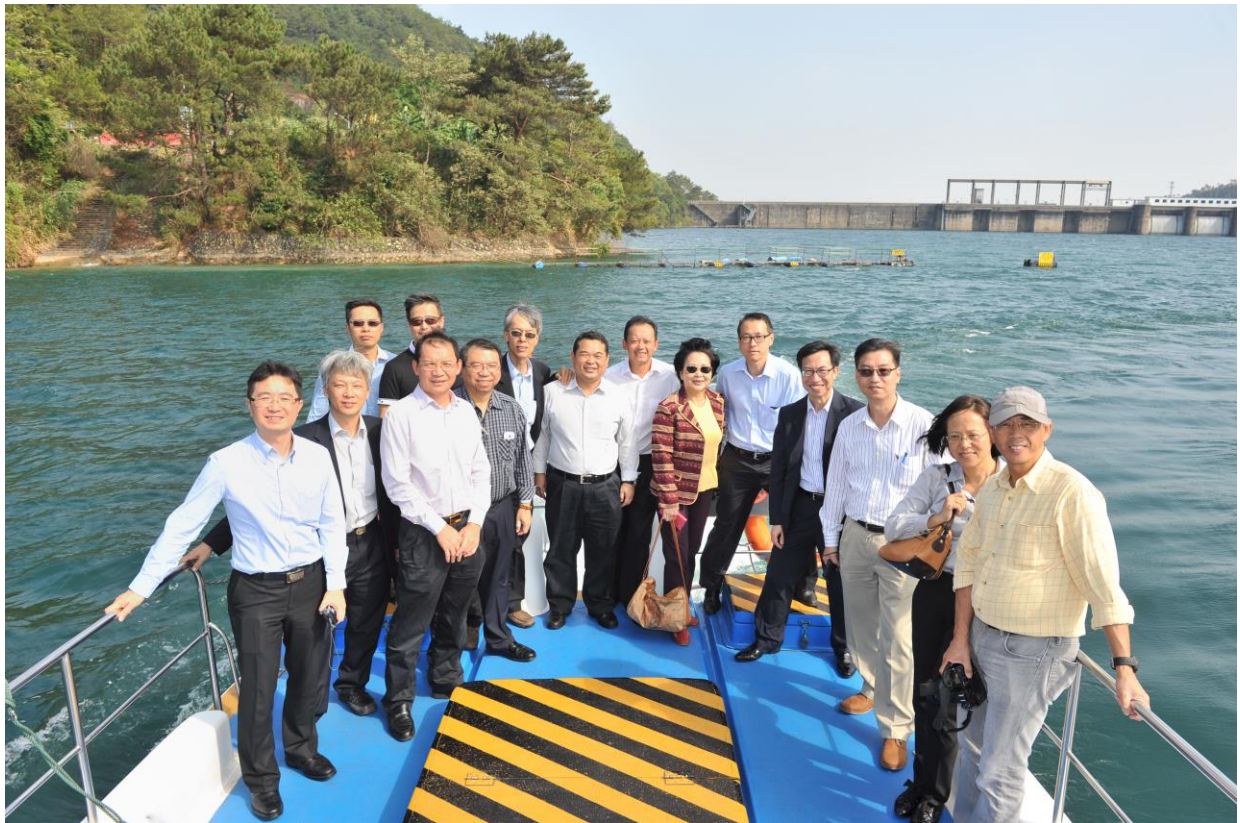


Photo 3 – The delegation at Xinfengjiang Reservoir



Photo 4 – The delegation at Sanzheng Sewage Treatment Plant





Photo 5 – The delegation at Sanzheng Sewage Treatment Plant



Photo 6 – The delegation at Sanzheng Sewage Treatment Plant





Photo 7 – The delegation at Taiyuan Pumping Station



Photo 8 – The delegation at Taiyuan Pumping Station

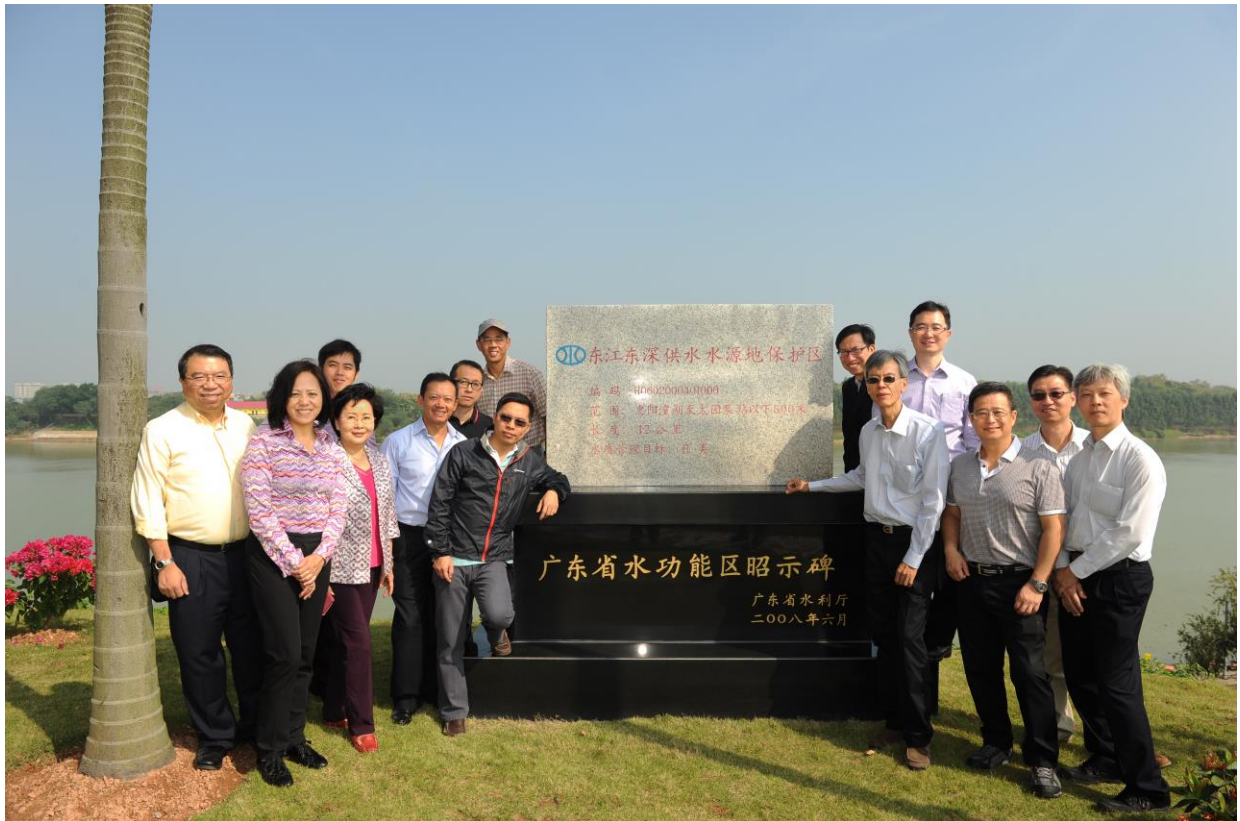


Photo 9 – The delegation at Taiyuan Pumping Station



Photo 10 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir





Photo 11 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir



Photo 12 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir





Photo 13 – The delegation at Dongjiang Water Supply Scheme  
Safety Monitoring and Control Centre



Photo 14 – The delegation at Dongjiang Water Supply Scheme  
Safety Monitoring and Control Centre





Photo 15 – The press conference



Photo 16 – The press conference