

# Advisory Committee on Water Supplies [2018-2020] Report on Visit to Dongjiang Water Supply System (26 – 27 November 2019)



Advisory Committee on Water Supplies

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**Report on Visit to Dongjiang Water Supply System**  
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**SECTION A - INTRODUCTION**

Delegation of the Advisory Committee on Water Supplies (ACWS) visited the Dongjiang (DJ) Water Supply System (東江供水系統) during the 2-day period from 26 to 27 November 2019. The delegation was led by the Chairman, Dr CHAN Hon Fai and the Vice-Chairman, Prof KWAN Kai Cho, Joseph, with five non-official members and five official members of ACWS and six HKSAR Government officials (see **Annex 1**). The itinerary of the visit is appended at **Annex 2**. During the visit, the delegation met officials of the various Authorities of Guangdong (GD) as listed in **Annex 3** and was updated on the work of GD Authorities in protecting the DJ as well as the quality of DJ water supply to Hong Kong.

**SECTION B – THE VISIT**

2. On arrival at Huizhou (惠州) on the first day (26 November 2019), the delegation took a 45-minute walk along a section of the Green Way (綠道) built along DJ at Huizhou for a close inspection of the DJ water quality in this section of the river which is upstream of the intake point of the DJ water supplied to Hong Kong. During the walk along the Green Way, the delegation also discussed with the officials of the Huizhou Water Authority on the protection and management of the DJ water resources. The delegation noted that this section of DJ was in general well protected and there was no noticeable contamination of the DJ water.



3. After finishing the visit in Huizhou, the delegation went to visit the Taiyuan Pumping Station (太園泵站) and the Dongjiang Water Resource Protection Works at Shima River Mouth (石馬河河口東江水源保護工程).

4. Taiyuan Pumping Station has a designed capacity of 100 cubic metres per second ( $\text{m}^3/\text{s}$ ) and a pump head of 11 metres (m). It is the point where the DJ water for supplying to Hong Kong is abstracted. The abstracted DJ water is conveyed through the Dedicated Aqueduct (東江供水專用輸水管道) to Shenzhen Reservoir (深圳水庫) and subsequently delivered to Hong Kong. The delegation was shown the model of the Dongjiang-Shenzhen Water Supply System (東江—深圳供水系統) in the Taiyuan Pumping Station and briefed on the alignment and operation of the Dedicated Aqueduct.

5. The delegation then visited the DJ Water Resource Protection Works at Shima River Mouth. The delegation noted that the abstraction point of DJ water for supplying to Hong Kong was at about 350 m upstream of the junction of DJ with the Shima River and the any polluted water in Shima River was prevented from entering the abstraction point by means of a fabridam currently. The project was to construct water gates at the junction of DJ with Shima River to replace the existing fabridam to enhance the protection of the quality of the DJ water. The delegation noted that the works were progressing well and the main works would be completed in 2020.

6. In the morning of the second day (27 November 2019), the delegation visited the Integrated Improvement Works for the Water Environment of Shawan River (沙灣河水環境綜合整治工程). Shawan River (沙灣河) would discharge into the Shenzhen Reservoir during severe rainstorm to prevent flooding of the areas in the



vicinity of the river. In the past, Shawan River was polluted by the municipal wastewater discharged into the river, thus the quality of DJ water supply to Hong Kong would be affected when there was flood discharge of Shawan River into the Shenzhen Reservoir. The delegation noted that with the substantial completion of the Integrated Improvement Works for the Water Environment of Shawan River which comprised desilting of Shawan River, laying of sewers for intercepting the municipal wastewater used to discharge into the river and conveying it to the Budixia Water Purification Plant (埔地嚇水質淨化廠) for treatment as well as expansion of the purification plant, the water quality in Shawan River had improved significantly. Water samples were taken from the river for inspection by the delegation who was satisfied with the cleanliness of the river water. The delegation anticipated that the effect on the water quality in Shenzhen Reservoir during flood discharge from Shawan River into the reservoir in severe rainstorm would be greatly reduced thus protecting the quality of DJ water supply to Hong Kong.

7. The delegation then visited the Bio-nitrification Plant (生物硝化廠) located at the inlet of Shenzhen Reservoir. The plant receives and treats incoming DJ water by removing the ammonia in the water before it enters the Shenzhen Reservoir. The capacity of the plant is 4 million cubic metres per day. The delegation noted that the Bio-nitrification Plant had contributed to ensuring the quality of DJ water supply to Hong Kong.

8. Before the end of the trip, the delegation visited the 110 Command Center of the Dongshen Branch of the Shenzhen Public Security Bureau (東深公安分局 110 指揮中心), which monitors the Dedicated Aqueduct and Shenzhen Reservoir via an all-around all-weather (全方位全天候) remote video network. The delegation was



briefed on the security measures adopted for protection of the Dedicated Aqueduct and the Shenzhen Reservoir. The delegates learned that the center played an important role in safeguarding the DJ water supply to Hong Kong.

## **SECTION C – CONCLUSION**

9. Through the visit, the delegation had a deeper understanding about the latest development of the work of the GD Authorities in protecting DJ and the quality of DJ water supply to Hong Kong. They expressed gratitude to the WSD, the officials of the Department of Water Resources of Guangdong Province (廣東省水利廳) and the executives of the Guangdong Yue Gang Water Supply Co Ltd (廣東粵港供水有限公司) for arranging the visit.

10. The delegation appreciated for the commitment and efforts made by the GD Authorities in maintaining a reliable DJ water supply to Hong Kong in full compliance with the required water quality standards in the DJ water supply agreement.

11. The delegation suggested that the visit should continue to be arranged for members of the ACWS in future so that they can monitor the DJ water quality and keep abreast of the latest development of the work in protecting DJ and the quality of DJ water supply to Hong Kong by the GD Authorities.



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**ANNEXURE**

<b>Annex 1</b>	<b>List of Delegates</b>
<b>Annex 2</b>	<b>Itinerary</b>
<b>Annex 3</b>	<b>List of Guangdong Authorities Met</b>

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**List of Delegates**

姓名 Name		職銜 Title
水務諮詢委員會 <b>Advisory Committee on Water Supplies</b>		
1	陳漢輝博士 Dr CHAN Hon Fai	主席 Chairman
2	關繼祖教授 Prof KWAN Kai Cho, Joseph	副主席 Vice-Chairman
3	黃仲良先生 Mr WONG Chung Leung	委員, 水務署署長 Member, Director of Water Supplies
4	朱威教授 Prof CHU Wei	委員 Member
5	黃兆榮博士 Dr WONG Siu Wing, Eric	委員 Member
6	黃譚智媛醫生 Dr WONG TAAM Chi Woon, Vivian	委員 Member
7	伍振強工程師 Ir NG Chun Keung	委員 Member
8	譚國榮先生 Mr TAM Kwok Wing, Ivan	委員 Member
9	陳特揚先生 Mr CHAN Tak Yeung, Thomas	委員, 發展局首席助理秘書長 Member, Principal Assistant Secretary, Development Bureau
10	林柏岐先生 Mr. LAM Pak Ki, Jason	衛生署委員代表 Member's Representative of Department of Health
11	鄺紹斌先生 Mr KWONG Siu Bun	房屋署委員代表 Member's Representative of Housing Department
12	羅郁發先生 Mr LAW Yuk Fat, Robin	秘書, 水務署 Secretary, Water Supplies Department

姓名 <b>Name</b>		職銜 <b>Title</b>
香港特別行政區政府官員 <b>HKSAR Government Officials</b>		
13	黃恩諾先生 Mr WONG Yan Lok, Roger	水務署助理署長 Assistant Director, Water Supplies Department
14	葉家駿先生 Mr YIP Ka Chun, Gary	水務署總工程師 Chief Engineer, Water Supplies Department
15	郭有定先生 Mr KWOK Yau Ting, Kelvin	水務署總水務化驗師 Chief Waterworks Chemist, Water Supplies Department
16	劉俊沅先生 Mr LAU Chun Yuen, Anthony	水務署工程師 Engineer, Water Supplies Department
17	萬淑君女士 Ms MAN Shuk Kwan, Kimmy	水務署高級新聞主任 Senior Information Officer, Water Supplies Department
18	羅蘭蓉女士 Ms LAW Lan Yung, Candy	政府新聞處攝影師 Photographer, Information Services Department



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**Itinerary**

**Day 1 (26 November 2019, Tuesday)**

08:45 Depart Hong Kong West Kowloon Station  
11:30 Arrive at Huizhou (惠州)  
11:30 Visit Dongjiang (DJ) at Green Way (綠道) at Huizhou (惠州)  
12:15 Lunch  
13:30 Depart Huizhou (惠州)  
15:30 Visit Taiyuan Pumping Station (太園泵站)  
16:30 Visit DJ Water Resource Protection Works at Shima River Mouth  
(石馬河河口東江水源保護工程)  
18:30 Arrive at Dongguan (東莞)  
18:30 Dinner

**Day 2 (27 November 2019, Wednesday)**

09:00 Depart Dongguan (東莞)  
09:45 Visit Integrated Improvement Works for the Water Environment of Shawan River (沙灣河水環境綜合整治工程)  
10:45 Visit Bio-nitrification Plant (生物硝化站) at Shenzhen Reservoir (深圳水庫)  
11:30 Visit 110 Command Centre of the Dongshen Branch of the Shenzhen Public Security Bureau (東深公安分局110指揮中心)  
13:00 Lunch  
14:30 Depart Shenzhen  
15:30 Arrive at Hong Kong West Kowloon Station

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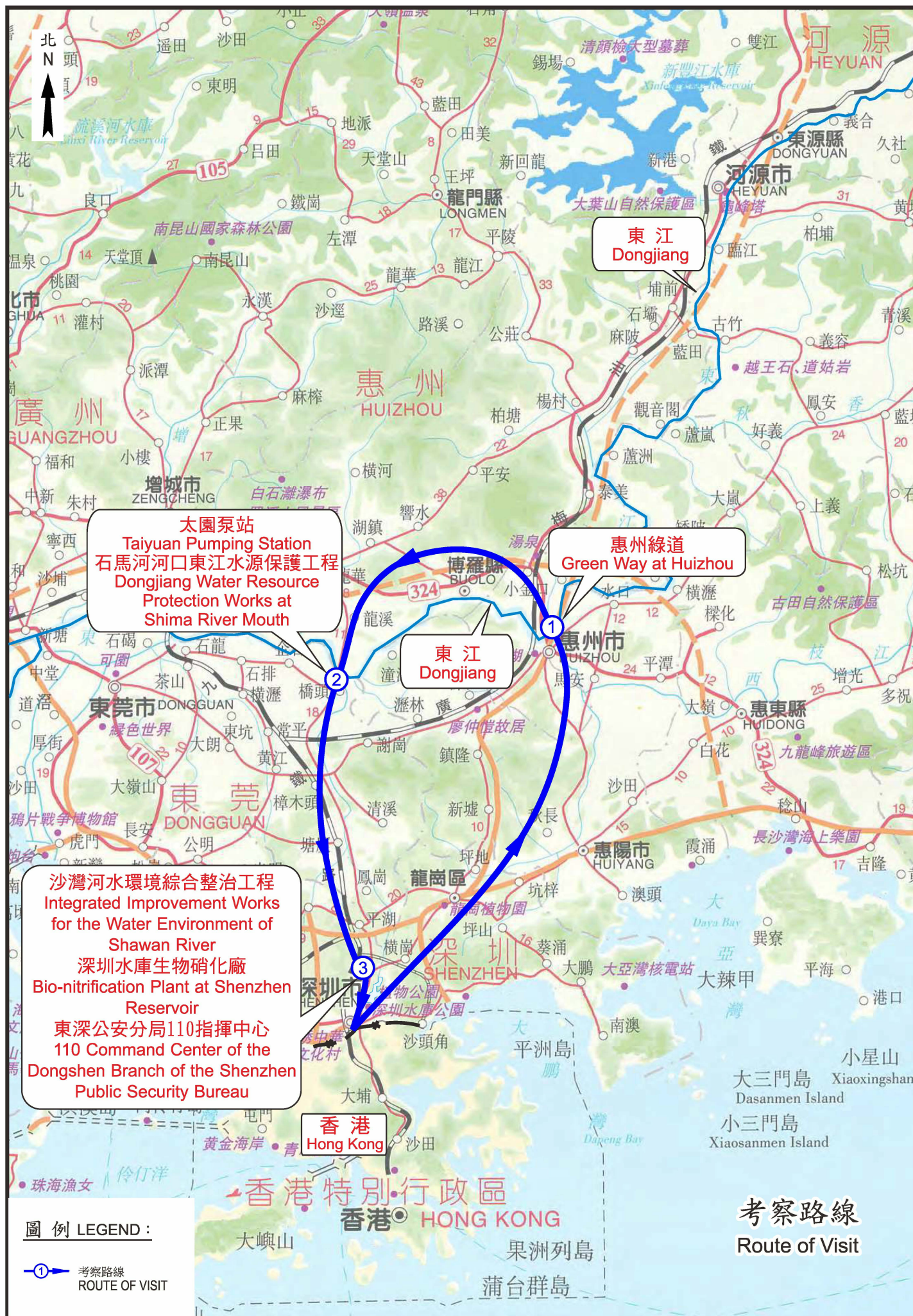
**List of Guangdong Authorities Met**

1	廣東省水利廳 Department of Water Resources of Guangdong Province
2	惠州市水務局 Huizhou Water Authority
3	東莞市水務局 Dongguan Water Authority
4	深圳市水務局 Shenzhen Water Authority
5	粵港供水有限公司 Guangdong Yue Gang Water Supply Company Limited

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**ROUTE OF VISIT**





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**PHOTOS**





Photo 1 – Discussion between the delegation and the officials of Huizhou Water Authority at the Green Way along Dongjiang (DJ) at Huizhou



Photo 2 – Inspection by the delegation on the water quality at the intake point of DJ water supplied to Hong Kong at Taiyuan Pumping Station



Photo 3 – Briefing of the delegation on DJ Water Resource Protection Works at Shima River Mouth



Photo 4 – Briefing of the delegation on Integrated Improvement Works for the Water Environment of Shawan River





Photo 5 – Inspection by the Chairman of Advisory Committee on Water Supplies (ACWS) on the water samples taken from Shawan River



Photo 6 – Inspection by the Chairman of ACWS on the growth of nitrifying bacteria at Bio-nitrification Plant at Shenzhen Reservoir



Photo 7 – Visit of the delegation to 110 Command Centre of the Dongshen Branch of the Shenzhen Public Security Bureau



