

**Chronology of Important Activities Relating to  
Tin Shui Wai Area 31 Phase 1 Piling Contract**

<u>Date</u>	<u>Event</u>
June 1993	Tin Shui Wai Area 31 Phase 1 (TCC) incorporated into the Public Housing Development Programme of the Housing Authority (HA)
March 1995	HA commissioned Acer Consultants (Far East) Ltd. (Acer) to conduct geotechnical assessment study on Tin Shui Wai Areas 30 and 31
21 September 1995	Building Committee (BC) discussed proposed client brief, control plan and project estimates for Tin Shui Wai Areas 30 and 31. Revised client brief and revised project estimates were tabled at the meeting and approved
October 1995	Acer commissioned by HA to assess the ground conditions of TCC
December 1995	Hsin Yieh Architects & Associates Ltd. (HYA) contacted Joseph Chow & Partners Ltd. (JMK) intending to appoint it as its geotechnical consultant should HYA be appointed as the Consultant Architect for the Project
February 1996	Foundation Advice Report compiled by Acer (Acer Report) for the site
15 February 1996	BC approved the appointment of HYA as Consultant Architect
21 March 1996	BC approved the proposed revised client brief, proposed scheme design and project budgets for Area 31 Phases 1, 2 and 3, including \$105 million to increase the estimated depth of precast prestressed concrete (PPC) piles and the estimated extent of preboring works
22 May 1996	Pre-tender meeting attended by Chief Structural Engineer, Liaison Senior Structural Engineer, Liaison Structural Engineer, Geotechnical Engineer and HYA. The geotechnical problems pertaining to the site were conveyed to eligible tenderers

<u>Date</u>	<u>Event</u>
31 May 1996	Tender-out day
4 July 1996	Addendum to Particular Specification 19.88 issued to tenderers requiring contractors to drill sufficient drillholes to substantiate their design at their own expense
12 July 1996	Tender-in day
25 July 1996	Letter from Franki Contractors Ltd (Franki) indicating that it was not prepared to carry out preboring work at the site
30 July 1996	Letter from Franki to HYA providing design calculations for ultimate resistance of piles using static formula
August 1996	HYA formally engaged JMK as its geotechnical sub-consultant
2 August 1996	Consultancy Agreement signed between HA and HYA
16 August 1996	Franki submitted to HYA revised design calculations for ultimate resistance of piles using static formula
22 August 1996	BC endorsed the award of foundation contract to Franki under the "straightforward papers" approval procedure without discussion
29 August 1996	JMK submitted Foundation Advice Report to HYA
3 September 1996	Letter of Acceptance issued by HA to Franki
12 September 1996	Commencement of the Piling Contract  JMK submitted Final Foundation Advice Report to HYA
18 September 1996	Franki submitted Foundation Design Report to HYA for onward transmission to Geotechnical Office
10 October 1996	JMK advised HYA it had no adverse comment on Franki's foundation design  HYA had no comment on Franki's proposed locations of preliminary piles for Blocks 1 and 2

<u>Date</u>	<u>Event</u>
16 October 1996	Pitching of working piles for Blocks 1 and 2
12 November 1996	Franki submitted to HYA the piling sequence for Blocks 1 to 4
14 -16 November 1996	Load test of preliminary pile PP2 for Block 2
22 -25 November 1996	Load test of preliminary pile PP1 for Block 1
28 November 1996	Resident Engineer reported duty
23 December 1996	Additional preliminary piles PP1A and PP2A proposed by Franki for Blocks 1 and 2 respectively
6 - 9 January 1997	Load test of PP1A
18 - 21 January 1997	Load test of PP2A
29 January 1997	Final set of last working pile for Block 1
4 February 1997	Final set of last working pile for Block 2
23 February 1997	HYA approved settlement calculations for Blocks 1 and 2
25 February 1997	JMK approved settlement calculations for Block 1 and commented on those for Block 2
15 - 29 March 1997	Drilling of boreholes HY11 to HY 20
27 March 1997	Franki renamed B+B Construction Co. Ltd. (Franki (B+B))
21 May 1997	All pile cap construction works completed
26 May - 30 June 1997	Drilling of boreholes HY21 to HY24
23 June 1997	Franki (B+B) submitted draft Registered Structural Engineer (RSE) Report to HYA
3 July 1997	HYA commented on the draft RSE Report

<u>Date</u>	<u>Event</u>
6 July 1997	Completion of the Piling Contract
15 July 1997	Franki (B+B) submitted the revised draft RSE Report. HYA issued the Certificate of Completion to Franki (B+B) together with a list of outstanding work including certain omissions in the draft RSE Report
13 October 1997	JMK checked the RSE Report in detail and confirmed it in order
22 October 1997	HYA submitted the RSE Report to HA
7 January 1998	End of maintenance period for the Piling Contract
12 February 1998	HYA urged Yiu Wing Construction Co. Ltd (YWC) to install settlement markers at the site meeting. YWC agreed to complete the work by 21 February 1998
11 March 1998	HYA sent further reminders to YWC urging for installation of settlement markers
16 April 1998	YWC advised that settlement markers had been installed, by which time superstructure was built to the 17 <sup>th</sup> floor
24 April 1998	Initial reading of settlement markers taken when superstructure was built to the 18 <sup>th</sup> floor

*Source of information : written and oral evidence provided by witnesses*