

Appendix A – Major Flood Control Projects

Table 1.1 Major Drainage Projects in Northern NT (Completed Projects)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Rural Drainage Rehabilitation Scheme, stage 1, phase 1A – rehabilitation works at Ng Tung River	203	4.2	11/1998	12/2001	Construction of drainage channels and box culvert (about 170 m)	San Wai Barracks, Kwan Tei, Wang Leng, Hung Leng, Leng Tsai, Wang Shan Keuk San Tsuen, Tai Tong Wu, Shan Tong, San Tong Po
Rural drainage rehabilitation scheme, stage 1, phase 1B – rehabilitation works at Sheung Yue River	156	4.9	04/1999	12/2001	Construction of drainage channel	Hang Tau Tai Po, Hang Tau, Cheung Lek, Lin Tong Mei, Tsiu Keng Lo Wai, Tsiu Keng Pang Uk, Tsiu Keng San Wai, Chan Uk Po
Rural drainage rehabilitation scheme – Drainage rehabilitation works at Ping Yuen River and Mo Fan Heung Stream (NNT Portion)	197#	1.7	05/2003	04/2006	Drainage rehabilitation works at Ping Yuen River	Chow Tin Tsuen, Ta Kwu Ling Village, Kan Tau Wai, Fung Wong Wu, Lei Uk, Tong Fong, Shui Hau
Regulation of Shenzhen River, stage 3	390	4	12/2001	11/2006	Training of Shenzhen River upstream of Lo Wu to Lo Shue Leng	Lo Wu, Yuen Leng Chai, Nam Hang, Man Kam To, Muk Wu, Muk Wu Nga Yiu, Lo Shue Ling, Ta Kwu Ling
River training works for the Upper River Indus	756	4.6	08/1999	03/2003	Training of drainage channel	Fu Tei Au, Sheung Shui Wa Shan, Ting Ping Shan Tsuen, Shek Wu San Tsuen, Wu Nga Lok Yeung, Ma Shi Po, Siu Hang San Tsuen, Siu Hang Tsuen, Kan Lung Tsuen, San Wai, San Uk Tsuen
Shek Wu Hui Development Package 4, engineering works	891	1.7	09/1998	02/2002	River training in Area 30	Tsung Yuen, Ho Sheung Heung, Ying Kong
River training works for the Lower River Indus and River Beas	258	2.6	03/1999	03/2001	Construction of drainage channel	Lo Wu, Tak Yuet Lau, Shek Ma, Ngam Pin, Pai Tau Lo, Ho Sheung Heung, Tong Kok, Shek Tsai Leng, Kwu Tung, Ying Kong

The total cost of the project.

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Table 1.2 Major Drainage Projects in Northern NT (Projects Under Construction)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Drainage improvement for Ma Wat River at Kau Lung Hang	208	1.8	06/2005	End 2008	Construction of drainage channels in Ma Wat and north of Hong Lok Yuen	Ma Wat and north of Hong Lok Yuen
Drainage improvement works in Ping Kong, Kau Lung Hang, Yuen Leng, Nam Wa Po and Tai Hang areas	261	5.2	12/2006	End 2010	Construction of drainage channels and box culverts in Ping Kong, Kau Lung Hang, Yuen Leng, Nam Wa Po and Tai Hang areas	Ping Kong, Kau Lung Hang, Yuen Leng, Nam Wa Po and Tai Hang areas
Drainage improvement works in Lung Yuek Tau, Kwan Tei South and Leng Tsai, Fanling	120	3.5	06/2007	Mid 2010	Construction of drainage channels and box culverts in Lung Yuek Tau, Kwan Tei South and Leng Tsai	Lung Yuek Tau, Kwan Tei South and Leng Tsai
Drainage improvement works in Tai Po Tin and Ping Che of Ta Kwu Ling, and Man Uk Pin and Lin Ma Hang of Sha Tau Kok	162	3.6	12/2007	End 2011	Construction of drainage channels and box culverts in Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang	Tai Po Tin, Ping Che, Man Uk Pin and Lin Ma Hang
Drainage improvement works in Ki Lun Tsuen, Ma Tso Lung, Ying Pun, Shek Tsai Leng and Sha Ling in New Territories	222	3.1	08/2008	End 2010	Construction of drainage channels and stormwater drains in Ki Lun Tsuen, Ma Tso Lung, Ying Pun, Shek Tsai Leng and Sha Ling	Ki Lun Tsuen, Ma Tso Lung, Ying Pun, Shek Tsai Leng and Sha Ling

Table 1.3 Major Drainage Projects in Northern NT (Projects Under Design/Planning)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Drainage Improvement works in Northern New Territories – Package C (NNT portion)	136	8	Early 2010	End 2012	Construction of drainage channels in Lung Yuek Tau, Man Uk Pin, Ta Kwu Ling, Ping Che and Lin Ma Hang	Lin Ma Hang, Ping Che, Tai Po Tin, Sheung Shan Kai Wat, Man Uk Pin, Loi Tung, Ng Uk Tsuen, Tan Chuk Hang Lo Wai, Tan Chuk Hang, San Tong Po, Tai Wo, Ma Wat Wai, Ma Liu Shui San Tsuen, Leng Tsai

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Table 2.1: Major Drainage Projects in Northwestern NT (Completed Projects)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai drainage improvements, stage 1, phase 2A – Kam Tina nd Ngau Tam Mei	139	3.2	06/2004	06/2007	Construction of secondary drainage channels in Kam Tin and Ngau Tam Mei	Cheung Kong, Tai Kong Po, Tsat Sing Kong, Ha Che, SanWai Tsuen
Main drainage channel for Yuen Long and Kam Tin – Shan Ha Tsuen to Lam Hau Tsuen section	125	1.5	09/2003	03/2006	Construction of drainage channel in Lung Tin Tsuen	Lung Tin Tsuen, Lam Hau Tsuen
Main drainage channels for Ngau Tam Mei, phase 2 – Ngau Tam Mei to Yau Mei San Tsuen section	100	1.7	03/2000	12/2002	Construction of drainage channel from Ngau Tam Mei to Yau Mei San Tsue	Yau Tam Mei Tsuen, Yau Tam Mei San Tsuen, Wai Tsai
Village flood protection for Yuen Long, Kam Tin and Ngau Tam Mei, North West New Territories, stage 1 - remainder	109	0.9	12/2001	12/2004	Construction of floodwater pumping station in Wang Chau; and construction of Pok Wai drainage channel	Wang Chau, Pok Wai
Yuen Long bypass floodway	432	3.8	01/2003	03/2006	Construction of drainage channels in Yuen Long South	Yuen Long town, Tung Shing Lei, Au Tau, Small Traders New Village, Yeung Uk Tsuen, Chuk San Tsuen, Kong Tau San Tsuen, Shung Ching San Tsuen, Sham Chung Tsuen
San Tin Eastern Main Drainage Channel	354	2.4	10/2002	04/2006	Construction of the Eastern Main drainage channels in San Tin	Lok Ma chau
Main drainage channels for Yuen Long and Kam Tin, stage 2 – remainder	220	3.4	05/2001	07/2003	Construction of drainage channels near Ng Ka Tsuen and Shek Tau Wai	Tsz Tong Tsuen, Ng Ka Tsuen, Kam Tsin Wai, Nam Hing Lei, Chung Sum Tsuen, Pak Pin Tsuen, Uk Tau Tsuen, To Uk Tsuen, Shek Tau Wai, Tsz Tong Tsuen
Main drainage channels for Yuen Long and Kam Tin stage 2 – Kam Tin San Tsuen to Wang Toi Shan section	280	3.1	08/1999	03/2004	Construction of drainage channel from Kam Tin San Tsuen to Wan Toi Shan	Kam Tin San Tsuen, Wing Lung Wai, Kiu Tau Tsuen, Pang Ka Tsuen, Shek Kong San Tsuen, Wang Toi Shan
Main drainage channels for Yuen Long and Kam Tin stage 2 –Kam Tin Road to Tai Kek section	210	3.5	07/1999	03/2002	Construction of drainage channel from Kam Tin Road to Tai Kek	Kat Hing Wai, Tai Hong Tsuen, Shek Wu Tong, Tin Sam Tsuen, Tai Kek

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Main drainage channels for Ngau Tam Mei phase 1 – Yau Mei San Tsuen to Tai Sang Wai section	359	2.3	11/1999	03/2005	Construction of drainage channels from Yau Mei San Tsuen to Tai Sang Wai	Yau Mei San Tsuen, Chuk Yuen Tsuen, Man YuenChuen
Village flood protection for Chuk Yuen Tsuen and Ha San Wai, North West New Territories	122	—	11/2000	03/2003	Construction of floodwater pumping station in Chuk Yuen Tsuen and Ha San Wai	Chuk Yuen Tsuen, Ha San Wai
Village flood protection for Mai Po Lo Wai, Mai Po San Tsuen, Ma Tin Tsuen and Shui Pin Wai, North West New Territories	146	—	12/2001	08/2005	Construction of floodwater pumping stations in Mai Po Lo Wai, Ma Tin Tsuen and Shui Pin Wai	Mai Po Lo Wai, Mai Po San Tsuen, Ma Tin Tsuen, Shui Pin Wai

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Table 2:2 Major Drainage Projects in Northwestern NT (Projects under Construction)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai drainage improvements, stage 1, phase 2B – Cheung Chun San Tsuen and Kam Tsin Wai	156	2.1	03/2007	End 2009	Construction of drainage channels in Cheung Chun San Tsuen and Kam Tsin Wai	Cheung Chun San Tsuen and Kam Tsin Wai
Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai drainage improvement, stage 1, phase 2B – remaining works	202	2.3	12/2007	Early 2011	Construction of secondary drainage channels in Kam Tin	Yuen Kong San Tsuen, Cheung Po, Ma On Kong

Table 2:3 Major Drainage Projects in Northwestern NT (Projects under Design/Planning)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Drainage improvement in Northern New Territories – package A	168	2.1	End 2012	End 2018	Construction of the western main drainage channel in San Tin	Western San Tin

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Table 3.1 Major Drainage Projects in West Kowloon (Completed Projects)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
West Kowloon drainage improvement, stages 2 phase 1 works	686	23	12/1999	12/2004*	Improvement of 23km of stormwater drains	Tsim Sha Tsui, Mong Kok, Tai Kok Tsui, Lai Chi Kok, Cheung Sha Wan, Sham Shui Po
West Kowloon drainage improvement, stage 2 phase 2 and stage 3 phase 1 works	1,200	11	01/2001	08/2007	Construction of Tai Hang Tung flood stage scheme and Kai Tak stormwater transfer tunnel and improvement of 11km of stormwater drains	Yau Ma Tei, Mong Kok, Tai Kok Tsui, Sham Shui Po

* Substantial completion date: Overall completion in August 2005

Table 3.2 Major Drainage Projects in West Kowloon (Projects under Design/Planning)

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
West Kowloon drainage improvement - Lai Chi Kok drainage tunnel	1,669	3.7	End 2008	Mid 2012	Construction of drainage tunnel	Sham Shui Po, Cheung Sha Wan and Lai Chi Kok
West Kowloon drainage improvement - Inter-Reservoir Transfer Scheme	308	2.8	End 2009	End 2012	Inter-reservoir Transfer Scheme	Lai Chi Kok, Cheung Sha Wan and Sham Shui Po

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Table 4: Achievements of Major Flood Prevention Projects in Other Areas

Project Title	Construction Cost (\$M)	Length (km)	Start Date	Completion Date	Brief Description	Location of Significant Improvements and Benefits
Drainage improvement in Northern Hong Kong Island – Hong Kong West drainage tunnel	3045	18	11/2007	Early 2012	Construction of stormwater drainage tunnel	Causeway Bay, Wan Chai, Central, Sheung Wan, Kennedy Town
Drainage improvement in Northern Hong Kong Island – western lower catchment works	373	4.4	06/2008	End 2012	Construction of stormwater drains	Chai Wan, Shau Kei Wan, North Point, Causeway Bay, Wan Chai, Central, Sheung Wan, Kennedy Town
Drainage improvement works in Shuen Wan, Tai Po	229	9.8	Early 2009	Early 2012	Construction of stormwater drains, box culvert and a stormwater pumping station	Tai Po Town Areas, Tung Tsz, Sheun Wan, Wai Ha, Ting Kok Road
Drainage improvement works in upper Lam Tsuen River, She Shan River, upper Tai Po River, Ping Long and Kwun Hang	421	4.4	09/2007	Mid 2011	Construction of drainage channels and box-culvert	upper Lam Tsuen River, She Shan River, upper Tai Po River, Ping Long and Kwun Hang
Drainage improvement in Tsuen Wan, Kwai Chung and Tsing Yi – Tsuen Wan drainage tunnel	1260	5.35	12/2007	End 2011	Construction of stormwater drainage tunnel	Tsuen Wan and Kwai Chung
Drainage Improvement in Sai Kung	158	2	03/2007	End 2009	Construction and drainage channels	Sha Ha, Pak Kong, Ho Chung, Sai Kung Town
Drainage Improvement in East Kowloon – Package B phase 2	191	11	04/2007	Early 2011	Construction of stormwater drains	Hung Hom, Ma Tau Wai, Kowloon City, Kwun Tong, San Po Kong,
Drainage improvement in Northern Hong Kong Island – Sheung Wan stormwater pumping station	195	—	06/2006	End 2009	Construction of stormwater pumping station	Sheung Wan
Drainage improvement in East Kowloon – package A	190	5.6	05/2005	Early 2009	Construction of drains and box culverts	Tsim Sha Tsui, To Kwa Wan, Wong Tai Sin, Yau Tong
Drainage improvement in East Kowloon – package B phase 1	222	5.6	05/2006	Early 2010	Construction of stormwater drains and box culverts	Hung Hom, Kowloon City and San PoKong