



土木工程拓展署
**Civil Engineering and
Development Department**

Supplemental Agreement No. 1
to
Agreement No. CE 54/2001 (CE)

Wan Chai Development Phase II Planning and Engineering Review

**ENVIRONMENTAL IMPACT ASSESSMENT REPORT
FOR WAN CHAI DEVELOPMENT PHASE II
AND CENTRAL-WAN CHAI BYPASS**

VOLUME 2 – Road Works (Text)

December 2007

Document Ref. 97103_EIA9 (Dec07)

MAUNSELL CONSULTANTS ASIA LTD

SA1 to Agreement No. CE 54/2001 (CE)

**WAN CHAI DEVELOPMENT PHASE II
PLANNING AND ENGINEERING REVIEW**

ENVIRONMENTAL IMPACT ASSESSMENT REPORT

FOR

WAN CHAI DEVELOPMENT PHASE II AND CENTRAL-WAN CHAI BYPASS

CONTENTS

	Page
VOLUME 2 – ROAD WORKS	
Part B - Schedule 2 DP2: Road P2 and other roads which are classified as primary/district distributor roads	
1	INTRODUCTION..... 1-1
1.1	Project Background..... 1-1
1.2	WDII Review 1-2
1.3	Harbour-Front Enhancement Review 1-3
1.4	Environmental Impact Assessment..... 1-4
1.5	Objectives and Scope of the EIA Study..... 1-5
1.6	Designated Projects under the EIAO 1-6
1.7	Relevant Approved EIA Reports 1-7
1.8	Structure of this Volume 2 – Part B..... 1-7
2	PROJECT DESCRIPTION 2-1
2.1	Site Location 2-1
2.2	EIA Study Area..... 2-1
2.3	Project Requirements, Scope and Benefits 2-2
2.4	Construction Methods and Engineering Requirements 2-3
2.5	Operation of the Project..... 2-3
2.6	Works Programme 2-3
2.7	Related Projects 2-3
3	AIR QUALITY 3-1
3.1	Introduction..... 3-1
3.2	Environmental Legislation, Policies, Plans, Standards and Criteria..... 3-1
3.3	Description of the Environment..... 3-2
3.4	Sensitive Receivers 3-3
3.5	Identification of Environmental Impacts 3-4
3.6	Assessment Methodology 3-6
3.7	Prediction and Evaluation of Environmental Impacts 3-20
3.8	Mitigation of Adverse Environmental Impacts..... 3-25
3.9	Evaluation of Residual Impacts 3-25
3.10	Environmental Monitoring and Audit..... 3-25
3.11	Conclusion 3-26

4	NOISE	4-1
4.1	Introduction.....	4-1
4.2	Environmental Legislation, Policies, Plans, Standards and Criteria.....	4-1
4.3	Description of the Environment.....	4-4
4.4	Sensitive Receivers.....	4-5
4.5	Assessment Methodology.....	4-5
4.6	Identification of Environmental Impacts.....	4-10
4.7	Prediction and Evaluation of Environmental Impacts.....	4-10
4.8	Mitigation of Adverse Environmental Impacts.....	4-11
4.9	Evaluation of Residual Impacts.....	4-13
4.10	Environmental Monitoring and Audit.....	4-14
4.11	Conclusion.....	4-14
5	WATER QUALITY	5-1
5.1	Introduction.....	5-1
5.2	Water Sensitive Receivers.....	5-1
5.3	Environmental Legislation, Policies, Plans, Standards and Criteria.....	5-1
5.4	Description of the Environment.....	5-4
5.5	Identification of Environmental Impact.....	5-6
5.6	Assessment Methodology.....	5-7
5.7	Prediction and Evaluation of Environmental Impacts.....	5-7
5.8	Mitigation of Adverse Environmental Impacts.....	5-8
5.9	Evaluation of Residual Impacts.....	5-10
5.10	Environmental Monitoring and Audit.....	5-11
5.11	Conclusion.....	5-11
6	WASTE MANAGEMENT	6-1
6.1	Introduction.....	6-1
6.2	Environmental Legislation, Policies, Plans, Standards and Criteria.....	6-1
6.3	Assessment Methodology.....	6-2
6.4	Identification of Potential Sources of Impact.....	6-3
6.5	Prediction and Evaluation of Environmental Impacts.....	6-3
6.6	Mitigation Measures.....	6-7
6.7	Evaluation of Residual Impacts.....	6-9
6.8	Environmental Audit.....	6-9
6.9	Conclusion.....	6-10
7	LAND CONTAMINATION	7-1
8	SEWERAGE IMPACT AND SEWAGE TREATMENT IMPLICATIONS	8-1
9	MARINE ECOLOGY	9-1
10.	LANDSCAPE AND VISUAL IMPACT ASSESSMENT	10-1
10.1	Introduction.....	10-1
10.2	Environmental Legislation, Standards and Guidelines.....	10-1
10.3	Assessment Methodology.....	10-2
10.4	Scope and Content of the Study.....	10-7
10.5	Review of Planning and Development Control Framework.....	10-8
10.6	Comments on Landscape and Visual Issues received during Consultations.....	10-11
10.7	Baseline Study.....	10-13
10.8	Landscape Impact Assessment.....	10-33
10.9	Visual Impact Assessment.....	10-42
10.10	Conclusion.....	10-48

11	CULTURAL HERITAGE.....	11-1
12	ENVIRONMENTAL MONITORING AND AUDIT	12-1
12.1	Introduction.....	12-1
12.2	Air Quality Impact	12-1
12.3	Noise Impact	12-2
12.4	Water Quality Impact.....	12-2
12.5	Waste Management.....	12-2
12.6	Land Contamination	12-3
12.7	Marine Ecology.....	12-3
12.8	Landscape and Visual	12-3
12.9	Cultural Heritage.....	12-4
13	IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES	13-1
14	CONCLUSION	14-1
14.1	Introduction.....	14-1
14.2	Environmental Outcomes	14-13
14.3	Air Quality Impact	14-19
14.4	Noise Impact	14-20
14.5	Water Quality Impacts	14-20
14.6	Waste Management Implications.....	14-21
14.7	Land Contamination Impact	14-21
14.8	Marine Ecological Impact.....	14-21
14.9	Landscape and Visual Impact	14-21
14.10	Cultural Heritage Impact	14-22
14.11	Environmental Monitoring and Audit.....	14-23
14.12	Overall Conclusion	14-23