

CITY OF DAWSON CREEK

COMPREHENSIVE ENVIRONMENTAL DEVELOPMENT PLAN

Infrastructure Report

TABLE OF CONTENTS

1.0 INTRODUCTION 1

 1.1 COMPREHENSIVE ENVIRONMENTAL DEVELOPMENT PLAN CONTEXT 1

 1.2 ORGANIZATION OF INFRASTRUCTURE REPORT 1

2.0 WATER SUPPLY AND DISTRIBUTION..... 3

 2.1 INFORMATION SOURCES 3

 2.2 SOURCE WATER 3

 2.3 WATER FILTRATION 3

 2.4 PER CAPITA WATER CONSUMPTION 4

 2.5 PROJECTED DEMANDS..... 4

 2.6 FILTRATION PLANT CAPACITY 7

 2.7 DISTRIBUTION NETWORK 7

 2.8 STORAGE..... 8

 2.9 WATER CONSERVATION..... 8

 2.10 WATER COSTS 10

3.0 SANITARY SEWAGE COLLECTION AND TREATMENT..... 11

 3.1 COLLECTION SYSTEM 11

 3.2 PER CAPITA FLOWS 11

 3.3 SEWAGE TREATMENT PLANT 13

 3.4 PLANT SPARE CAPACITY 13

 3.5 SANITARY SEWER EXTENSIONS 14

 3.6 SANITARY SEWER SUMMARY 15

 3.7 SANITARY SEWER COSTS 15

4.0 STORM DRAINAGE..... 16

 4.1 EXISTING SYSTEM..... 16

 4.2 DEVELOPMENT AREAS 16

 4.3 DEVELOPMENT GUIDELINES 17

 4.4 STORM DRAINAGE COSTS 18

5.0	ROADS	19
5.1	EXISTING CONDITION	19
5.2	DEVELOPMENT AREAS	19
5.3	DEVELOPMENT GUIDELINES	19
5.4	ROAD COSTS	20
6.0	SUMMARY	22

APPENDICES

Appendix A Water Capital Cost Summary

LIST OF TABLES

Table 2.1 Water Demand Projections
Table 3.1 Projected Sanitary Sewage Flows

LIST OF FIGURES

Figure 1.1 Comprehensive Environmental Development Plan Process
Figure 2.1 Water Consumption (1960 to 2021)
Figure 2.2 Monthly Water Flow (1998 to 2002)
Figure 2.3 Development Areas
Figure 3.1 Monthly Wastewater Flow (1998 to 2002)
Figure 5.1 Proposed Paving Program
Figure 6.1 Development Area Infrastructure Summa