

Table of Contents

5 Individual, Family and Community Wellness 5-1

5.1 Data Issues and Context for Analysis 5-1

5.2 Community Well-Being and Delivery of Social Services 5-2

5.2.1 Effect Pathways 5-3

5.2.2 Existing Baseline Conditions 5-6

5.2.3 Assessment and Management of Project-Specific Effects 5-13

5.2.4 Mitigation Measures 5-15

5.2.5 Community Well-Being and Delivery of Social Services – Inuvialuit Settlement Region 5-19

5.2.6 Community Well-Being and Delivery of Social Services – Gwich’in Settlement Area 5-24

5.2.7 Community Well-Being and Delivery of Social Services – Sahtu Settlement Area 5-28

5.2.8 Community Well-Being and Delivery of Social Services – Deh Cho Region 5-33

5.2.9 Community Well-Being and Delivery of Social Services – Industrial and Commercial Centres in the Northwest Territories 5-37

5.2.10 Community Well-Being and Delivery of Social Services – Dene Tha’ First Nation in Northwestern Alberta 5-40

5.2.11 Community Well-Being and Delivery of Social Services – Industrial and Commercial Centres in Northwestern Alberta 5-41

5.3 Health Conditions and Health Care Services 5-41

5.3.1 Effect Pathways 5-42

5.3.2 Existing Baseline Conditions 5-45

5.3.3 Assessment and Management of Project-Specific Effects 5-51

5.3.4 Mitigation Measures 5-54

5.3.5 Health Conditions and Health Care Services – Inuvialuit Settlement Region 5-57

5.3.6	Health Conditions and Health Care Services – Gwich’in Settlement Area.....	5-60
5.3.7	Health Conditions and Health Care Services – Sahtu Settlement Area.....	5-63
5.3.8	Health Conditions and Health Care Services – Deh Cho Region	5-67
5.3.9	Health Conditions and Health Care Services – Industrial and Commercial Centres in the Northwest Territories.....	5-70
5.3.10	Health Conditions and Health Care Services – Dene Tha’ First Nation in Northwestern Alberta.....	5-72
5.3.11	Health Conditions and Health Care Services – Industrial and Commercial Centres in Northwestern Alberta.....	5-74
5.4	Human Health Risks	5-76
5.4.1	Introduction.....	5-76
5.4.2	Effects on Air Quality – Construction	5-78
5.4.3	Effects on Air Quality – Operations	5-84
5.4.4	Effects on Water Quality	5-88
5.4.5	Effects on Soil Quality.....	5-89
5.4.6	Effects of Noise.....	5-89
5.4.7	Summary of Human and Environmental Health Effect Attributes.....	5-92
5.5	Public Safety and Protection Services	5-93
5.5.1	Effect Pathways	5-93
5.5.2	Existing Baseline Conditions.....	5-94
5.5.3	Assessment and Management of Project-Specific Effects	5-95
5.5.4	Mitigation Measures	5-97
5.5.5	Public Safety and Protection Services – Inuvialuit Settlement Region.....	5-100
5.5.6	Public Safety and Protection Services – Gwich’in Settlement Area.....	5-102
5.5.7	Public Safety and Protection Services – Sahtu Settlement Area.....	5-105

5.5.8	Public Safety and Protection Services – Deh Cho Region.....	5-108
5.5.9	Public Safety and Protection Services – Industrial and Commercial Centres in the Northwest Territories.....	5-111
5.5.10	Public Safety and Protection Services – Dene Tha’ First Nation in Northwestern Alberta	5-114
5.5.11	Public Safety and Protection Services – Industrial and Commercial Centres in Northwestern Alberta.....	5-114
5.6	Education Attainment and Services	5-117
5.6.1	Effect Pathways	5-117
5.6.2	Assessment Criteria	5-119
5.6.3	Existing Baseline Conditions.....	5-120
5.6.4	Assessment and Management of Project-Specific Effects	5-126
5.6.5	Mitigation Measures	5-127
5.6.6	Education Attainment and Services – Inuvialuit Settlement Region.....	5-129
5.6.7	Education Attainment and Services – Gwich’in Settlement Area.....	5-132
5.6.8	Education Attainment and Services – Sahtu Settlement Area.....	5-136
5.6.9	Education Attainment and Services – Deh Cho Region.....	5-138
5.6.10	Education Attainment and Services – Industrial and Commercial Centres in the Northwest Territories.....	5-141
5.6.11	Education Attainment and Services – Dene Tha’ First Nation in Northwestern Alberta	5-144
5.6.12	Education Attainment and Services – Industrial and Commercial Centres in Northwestern Alberta.....	5-144
6	Traditional Culture	6-1
6.1	Introduction.....	6-1
6.2	Traditional Harvesting and Land Use.....	6-2
6.2.1	Effect Pathways	6-3
6.2.2	Existing Baseline Conditions.....	6-5

6.2.3	Assessment and Management of Project-Specific Effects	6-16
6.2.4	Mitigation Measures	6-17
6.2.5	Traditional Harvesting – Inuvialuit Settlement Region.....	6-19
6.2.6	Traditional Harvesting – Gwich’in Settlement Area	6-21
6.2.7	Traditional Harvesting – Sahtu Settlement Area	6-22
6.2.8	Traditional Harvesting – Deh Cho Region	6-24
6.2.9	Traditional Harvesting – Industrial and Commercial Centres in the Northwest Territories.....	6-25
6.2.10	Traditional Harvesting – Dene Tha’ First Nation in Northwestern Alberta.....	6-26
6.2.11	Traditional Harvesting – Industrial and Commercial Centres in Northwestern Alberta	6-27
6.3	Preservation of Traditional Language and Culture.....	6-27
6.3.1	Effect Pathways	6-27
6.3.2	Existing Baseline Conditions.....	6-29
6.3.3	Assessment and Management of Project-Specific Effects	6-29
6.3.4	Mitigation Measures	6-31
6.3.5	Preservation of Traditional Language and Culture – Inuvialuit Settlement Region	6-32
6.3.6	Preservation of Traditional Language and Culture – Gwich’in Settlement Area.....	6-34
6.3.7	Preservation of Traditional Language and Culture – Sahtu Settlement Area.....	6-35
6.3.8	Preservation of Traditional Language and Culture – Deh Cho Region.....	6-37
6.3.9	Preservation of Traditional Language and Culture – Industrial and Commercial Centres in the Northwest Territories.....	6-39
6.3.10	Preservation of Traditional Language and Culture – Dene Tha’ First Nation in Northwestern Alberta	6-40
6.3.11	Preservation of Traditional Language and Culture – Industrial and Commercial Centres in Northwestern Alberta.....	6-41

7	Nontraditional Land and Resource Use	7-1
7.1	Assessment Scope	7-1
7.1.1	Key Issues	7-1
7.1.2	Valued Components.....	7-2
7.1.3	Key Questions and Effect Pathway Diagrams	7-5
7.1.4	Effect Descriptions.....	7-5
7.2	Project Effects on Nontraditional Land and Resource Use	7-7
7.2.1	Effect Pathway	7-8
7.2.2	Assessment and Management of Project-Specific Effects	7-11
7.2.3	Mitigation Measures	7-20
7.2.4	Nontraditional Land and Resource Use – Inuvialuit Settlement Region.....	7-21
7.2.5	Nontraditional Land and Resource Use – Gwich’in Settlement Area.....	7-32
7.2.6	Nontraditional Land and Resource Use – Sahtu Settlement Area.....	7-40
7.2.7	Nontraditional Land and Resource Use – Deh Cho Region.....	7-47
7.2.8	Nontraditional Land and Resource Use – Northwestern Alberta.....	7-56
7.3	Project Effects on Protected Areas	7-61
7.3.1	Effect Pathway	7-61
7.3.2	Assessment and Management of Project-Specific Effects	7-62
7.3.3	Mitigation Measures	7-63
7.3.4	Protected Areas – Inuvialuit Settlement Region.....	7-63
7.3.5	Protected Areas – Gwich’in Settlement Area	7-73
7.3.6	Protected Areas – Sahtu Settlement Area	7-76
7.3.7	Protected Areas – Deh Cho Region	7-79
7.3.8	Protected Areas – Northwestern Alberta	7-83
7.4	Project Effects on Visual and Aesthetic Resources	7-83
7.4.1	Key Visual and Aesthetic Resources Issues	7-84

7.4.2	Effect Pathway	7-86
7.4.3	Assessment and Management of Project-Specific Effects	7-87
7.4.4	Mitigation Measures	7-88
7.4.5	Visual and Aesthetic Resources – Inuvialuit Settlement Region.....	7-90
7.4.6	Visual and Aesthetic Resources – Gwich’in Settlement Area.....	7-99
7.4.7	Visual and Aesthetic Resources – Sahtu Settlement Area.....	7-102
7.4.8	Visual and Aesthetic Resources – Deh Cho Region....	7-103
7.4.9	Visual and Aesthetic Resources – Northwestern Alberta.....	7-104
8	Heritage Resources	8-1
8.1	Scope of Assessment.....	8-3
8.1.1	Key Issues	8-3
8.1.2	Valued Components.....	8-3
8.1.3	Culturally Sensitive Sites.....	8-4
8.1.4	Heritage Resources of Particular Historic Value	8-4
8.1.5	Sites of Research Value	8-4
8.1.6	Key Question and Effect Pathway Diagram	8-5
8.1.7	Study Area	8-8
8.1.8	Methods.....	8-10
8.1.9	Information Sources.....	8-17
8.1.10	Regional Conditions.....	8-18
8.2	Heritage Resources – Inuvialuit Settlement Region	8-18
8.2.1	Environmental and Cultural Contexts.....	8-18
8.2.2	Baseline Conditions	8-25
8.2.3	Project-Specific Effects	8-28
8.3	Heritage Resources – Gwich’in Settlement Area	8-31
8.3.1	Environmental and Cultural Contexts.....	8-31
8.3.2	Baseline Conditions	8-36

8.3.3	Project-Specific Effects	8-40
8.4	Heritage Resources – Sahtu Settlement Area	8-42
8.4.1	Environmental and Cultural Contexts.....	8-42
8.4.2	Baseline Conditions	8-48
8.4.3	Project-Specific Effects	8-51
8.5	Heritage Resources – Deh Cho Region	8-55
8.5.1	Environmental and Cultural Contexts.....	8-55
8.5.2	Baseline Conditions	8-57
8.5.3	Project-Specific Effects	8-60
8.6	Heritage Resources – Northwestern Alberta.....	8-62
8.6.1	Environmental and Cultural Contexts.....	8-62
8.6.2	Pipeline Corridor and Associated Facilities.....	8-64
8.7	Baseline Summary	8-64
8.7.1	Inuvialuit Settlement Region	8-64
8.7.2	Gwich’in Settlement Area.....	8-66
8.7.3	Sahtu Settlement Area.....	8-67
8.7.4	Deh Cho Region.....	8-69
8.7.5	Northwestern Alberta.....	8-70
8.7.6	General Project Summary	8-70
8.8	Potential Project Effects.....	8-73
8.9	Potential Mitigations	8-74
8.9.1	Heritage Resource Management Plan.....	8-76
8.10	Prediction Confidence.....	8-85
8.11	Future Study Considerations.....	8-86
8.12	Determination of Significance	8-87
9	Cumulative Effects.....	9-1
9.1	Introduction.....	9-1
9.1.1	Summary of Results.....	9-1
9.1.2	Spatial Boundaries	9-2

9.1.3	Temporal Boundary	9-3
9.1.4	Past and Current Land Uses	9-3
9.1.5	Assessment Method	9-6
9.1.6	Significance.....	9-6
9.2	Cumulative Effects – Reasonably Foreseeable Land Uses.....	9-7
9.2.1	The Economy	9-7
9.2.2	Infrastructure and Community Services	9-11
9.2.3	Individual, Family and Community Wellness	9-13
9.2.4	Traditional Harvesting and Culture	9-19
9.2.5	Nontraditional Land and Resource Use	9-20
9.2.6	Protected Areas	9-25
9.2.7	Visual and Aesthetic Resources.....	9-26
9.2.8	Heritage Resources	9-27
9.3	Cumulative Effects – Hypothetical Land Uses.....	9-28
9.3.1	Assessment and Management of Cumulative Effects....	9-29
9.3.2	Residual Effects	9-31
10	Monitoring and Follow-Up.....	10-1
10.1	Introduction.....	10-1
10.2	Objectives	10-1
10.3	Monitoring Plan Strategy	10-2
10.4	Project Effects Measurements – Construction.....	10-4
10.5	Project Effects Measurements – Operations.....	10-5
	References	
	Glossary	

List of Figures

Figure 5-1: Project Effects on Family and Community Well-Being, and Family and Social Services..... 5-4

Figure 5-2: Alcohol-Related Offences in the Northwest Territories (2002)..... 5-8

Figure 5-3: Children in Care in the Northwest Territories (2002 to 2003 fiscal year)..... 5-11

Figure 5-4: Project Effects on Health Conditions and Health Care Services..... 5-43

Figure 5-5: Accident and Injury Deaths in the Northwest Territories (1994 to 1998)..... 5-48

Figure 5-6: Project Effects on Public Safety and Protection Services..... 5-94

Figure 5-7: Project Effects on Skill Levels, Educational Attainment, and Education and Training Services 5-118

Figure 5-8: High School Completion in the Northwest Territories (2001)..... 5-123

Figure 6-1: Project Effects on Traditional Harvesting and Land Use 6-3

Figure 6-2: Household Consumption of Country Foods in the Northwest Territories (2002) 6-12

Figure 6-3: Active Trappers in the Northwest Territories (2002) 6-14

Figure 6-4: Project Effects on Traditional Language and Culture..... 6-28

Figure 6-5: Residents Who Speak their Aboriginal Language (1999) 6-31

Figure 7-1: Project Effects on Nontraditional Land and Resource Use 7-8

Figure 7-2: Land Ownership in the Inuvialuit Settlement Region..... 7-22

Figure 7-3: Oil and Gas Dispositions in the Inuvialuit Settlement Region..... 7-24

Figure 7-4: Historical Dredging in the Beaufort Sea..... 7-26

Figure 7-5: Land Ownership in the Gwich'in Settlement Area..... 7-33

Figure 7-6: Oil and Gas Dispositions in the Gwich'in Settlement Area and Sahtu Settlement Area..... 7-37

Figure 7-7: Land Ownership in the Sahtu Settlement Area..... 7-41

Figure 7-8: Land Ownership in the Deh Cho Region and Northwestern Alberta..... 7-48

Figure 7-9: Oil and Gas Dispositions in the Deh Cho Region and Northwestern Alberta..... 7-52

Figure 7-10: Project Effects on Environmentally Protected Areas..... 7-61

Figure 7-11: Protected Areas in the Inuvialuit Settlement Region..... 7-65

Figure 7-12: Beluga Management Zones in the Beaufort Sea..... 7-66

Figure 7-13: Kittigazuit Designated Route..... 7-69

Figure 7-14: Protected Areas in the Gwich'in Settlement Area 7-74

Figure 7-15: Protected Areas in the Sahtu Settlement Area 7-77

Figure 7-16: Protected Areas in the Deh Cho Region and Northwestern Alberta..... 7-81

Figure 7-17: Project Effects on Visual and Aesthetic Resources 7-86

Figure 7-18: Potential Visibility of Niglintgak Gas Conditioning Facility 7-94
Figure 7-19: Potential Visibility of Taglu Gas Conditioning Facility 7-96
Figure 7-20: Potential Visibility of Parsons Lake Gas Conditioning
Facility 7-98
Figure 7-21: Potential Visibility of Inuvik Area Facility 7-101
Figure 8-1: Project Effects on Heritage Resources..... 8-5
Figure 8-2: Revisited and Newly Recorded Heritage Resource Sites –
Inuvialuit Settlement Region 8-26
Figure 8-3: Revisited and Newly Recorded Heritage Resource Sites –
Gwich'in Settlement Region..... 8-39
Figure 8-4: Revisited and Newly Recorded Heritage Resource Sites –
Sahtu Settlement Area..... 8-49
Figure 8-5: Revisited and Newly Recorded Heritage Resource Sites –
Deh Cho Region..... 8-58

List of Tables

Table 5-1:	Hospitalizations for Alcohol-related Illnesses and Alcohol Offences.....	5-7
Table 5-2:	Statistical Indicators of Dysfunctional Families and Weakness in Community Controls.....	5-9
Table 5-3:	Well-Being Conditions – Construction Effect Attributes for the Inuvialuit Settlement Region	5-22
Table 5-4:	Delivery of Social Services – Construction Effect Attributes for the Inuvialuit Settlement Region	5-23
Table 5-5:	Well-Being Conditions and Delivery of Social Services – Operations Effect Attributes for the Inuvialuit Settlement Region	5-24
Table 5-6:	Well-Being Conditions – Construction Effect Attributes for the Gwich’in Settlement Area	5-27
Table 5-7:	Delivery of Social Services – Construction Effect Attributes Gwich’in Settlement Area	5-28
Table 5-8:	Well-Being Conditions and Delivery of Social Services – Operations Effect Attributes for the Gwich’in Settlement Area	5-28
Table 5-9:	Well-Being Conditions – Project Effect Attributes for the Sahtu Settlement Area	5-32
Table 5-10:	Delivery of Social Services – Project Effect Attributes for the Sahtu Settlement Area	5-32
Table 5-11:	Well-Being Conditions – Project Effect Attributes for the Deh Cho Region	5-36
Table 5-12:	Delivery of Social Services – Project Effect Attributes for the Deh Cho Region	5-37
Table 5-13:	Well-Being Conditions – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories	5-39
Table 5-14:	Delivery of Social Services – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories	5-40
Table 5-15:	Selected Health Problem Indicators	5-46
Table 5-16:	Size and Number of Stationary and Mobile Camps During Construction	5-53
Table 5-17:	Health Conditions – Project Effect Attributes for the Inuvialuit Settlement Region.....	5-59
Table 5-18:	Health Care Services – Project Effect Attributes for the Inuvialuit Settlement Region.....	5-60
Table 5-19:	Health Conditions – Project Effect Attributes for the Gwich’in Settlement Area	5-62
Table 5-20:	Health Care Services – Project Effect Attributes for the Gwich’in Settlement Area	5-63

Table 5-21:	Health Conditions – Project Effect Attributes for the Sahtu Settlement Area	5-66
Table 5-22:	Health Care Services – Project Effect Attributes for the Sahtu Settlement Area	5-66
Table 5-23:	Health Conditions – Project Effect Attributes for the Deh Cho Region.....	5-69
Table 5-24:	Health Care Services – Project Effect Attributes for the Deh Cho Region.....	5-69
Table 5-25:	Health Conditions – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories.....	5-71
Table 5-26:	Health Care Services – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories	5-72
Table 5-27:	Health Conditions – Project Effects Attributes for the Dene Tha’ First Nation Communities	5-73
Table 5-28:	Health Care Services – Project Effects Attributes for the Dene Tha’ First Nation Communities	5-73
Table 5-29:	Health Conditions – Project Effects Attributes for Industrial and Commercial Centres in Northwestern Alberta.....	5-75
Table 5-30:	Health Care Services – Project Effects Attributes for Industrial and Commercial Centres in Northwestern Alberta.....	5-76
Table 5-31:	Composition of American Ambient Atmospheric Fine Particulate Matter and Diesel Exhaust Fine Particulate Matter	5-80
Table 5-32:	Human and Environmental Health – Construction Effect Attributes.....	5-92
Table 5-33:	Human and Environmental Health – Operations Effect Attributes.....	5-92
Table 5-34:	Protection Services – Project Effect Attributes for the Inuvialuit Settlement Region.....	5-101
Table 5-35:	Protection Services – Construction Effect Attributes for the Gwich’in Settlement Area	5-104
Table 5-36:	Protection Services – Operations Effect Attributes for the Gwich’in Settlement Area	5-105
Table 5-37:	Protection Services – Project Effect Attributes for the Sahtu Settlement Area	5-107
Table 5-38:	Protection Services – Project Effect Attributes for the Deh Cho Region.....	5-111
Table 5-39:	Protection Services – Project Effect Attributes for the Industrial and Commercial Centres in the Northwest Territories	5-113

Table 5-40:	Protection Services – Project Effects Attributes for Industrial and Commercial Centres in Northwestern Alberta	5-116
Table 5-41:	Selected Education Characteristics of Adults	5-122
Table 5-42:	Education Attainment, by Gender (2001)	5-123
Table 5-43:	School Profile Data for Selected Communities Along the Pipeline Route	5-125
Table 5-44:	Education Attainment and Services – Construction Effect Attributes for the Inuvialuit Settlement Region	5-131
Table 5-45:	Education Attainment and Services – Operations Effect Attributes for the Inuvialuit Settlement Region	5-132
Table 5-46:	Education Attainment and Services – Construction Effect Attributes for the Gwich’in Settlement Area	5-134
Table 5-47:	Education Attainment and Services – Operations Effect Attributes for the Gwich’in Settlement Area	5-135
Table 5-48:	Education Attainment and Services – Construction Effect Attributes for the Sahtu Settlement Area	5-138
Table 5-49:	Education Attainment and Services – Operations Effect Attributes for the Sahtu Settlement Area	5-138
Table 5-50:	Education Attainment and Services – Construction Effect Attributes for the Deh Cho Region.....	5-141
Table 5-51:	Education Attainment and Services – Operations Effect Attributes for the Deh Cho Settlement Region	5-141
Table 5-52:	Education Attainment and Services – Construction Effect Attributes for the Industrial and Commercial Centres in the Northwest Territories.....	5-144
Table 6-1:	Total and Per Capita Weights of Edible Harvests by Inuvialuit, Gwich’in and Sahtu Aboriginal Residents.....	6-10
Table 6-2:	Percentage of Households Consuming Country Food	6-11
Table 6-3:	Active Trappers and Average Earnings per Trapper.....	6-13
Table 6-4:	Traditional Harvesting – Project Effect Attributes for the Inuvialuit Settlement Region.....	6-20
Table 6-5:	Traditional Harvesting – Project Effect Attributes for the Gwich’in Settlement Area	6-22
Table 6-6:	Traditional Harvesting – Project Effect Attributes for the Sahtu Settlement Area	6-23
Table 6-7:	Traditional Harvesting – Project Effect Attributes for the Deh Cho Region	6-24
Table 6-8:	Traditional Harvesting – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories	6-26
Table 6-9:	Traditional Harvesting – Project Effect Attributes for the Dene Tha’ First Nation.....	6-27
Table 6-10:	Residents Who Speak their Aboriginal Language	6-30

Table 6-11:	Language and Culture Preservation – Project Effect Attributes for the Inuvialuit Settlement Region	6-33
Table 6-12:	Language and Culture Preservation – Project Effect Attributes for the Gwich’in Settlement Area	6-35
Table 6-13:	Language and Culture Preservation – Project Effect Attributes for the Sahtu Settlement Area	6-36
Table 6-14:	Language and Culture Preservation – Project Effect Attributes for the Deh Cho Region.....	6-38
Table 6-15:	Language and Culture Preservation – Project Effect Attributes for Industrial and Commercial Centres in the Northwest Territories	6-40
Table 6-16:	Language and Culture Preservation – Project Effect Attributes for the Dene Tha’ First Nation	6-40
Table 7-1:	Definitions of Geographic Extent.....	7-6
Table 7-2:	Primary Borrow Source Demand and Supply Estimate	7-13
Table 7-3:	Nontraditional Land and Resource Use – Combined Project Effects	7-19
Table 7-4:	Nontraditional Land and Resource Use – Project Effect Attributes for the Inuvialuit Settlement Region	7-34
Table 7-5:	Nontraditional Land and Resource Use – Project Effect Attributes for the Gwich’in Settlement Area	7-42
Table 7-6:	Nontraditional Land and Resource Use – Project Effect Attributes for the Sahtu Settlement Area	7-49
Table 7-7:	Nontraditional Land and Resource Use – Project Effect Attributes for the Deh Cho Region.....	7-55
Table 7-8:	Nontraditional Land and Resource Use – Project Effect Attributes for Northwestern Alberta.....	7-60
Table 7-9:	Protected Areas – Combined Project Effects	7-63
Table 7-10:	Protected Areas – Project Effect Attributes for the Inuvialuit Settlement Region.....	7-72
Table 7-11:	Protected Areas – Project Effect Attributes for the Gwich’in Settlement Area	7-76
Table 7-12:	Protected Areas – Project Effect Attributes for the Sahtu Settlement Area	7-79
Table 7-13:	Protected Areas – Project Effect Attributes for the Deh Cho Region.....	7-82
Table 7-14:	Protected Areas – Project Effect Attributes for Northwestern Alberta	7-83
Table 7-15:	Visual and Aesthetic Resources – Combined Project Effects.....	7-88
Table 7-16:	Visual and Aesthetic Resources – Project Effect Attributes for the Inuvialuit Settlement Region	7-99
Table 7-17:	Visual and Aesthetic Resources – Project Effect Attributes for the Gwich’in Settlement Area	7-102

Table 7-18:	Visual and Aesthetic Resources – Project Effect Attributes for the Sahtu Settlement Area	7-103
Table 7-19:	Visual and Aesthetic Resources – Project Effect Attributes for the Deh Cho Region.....	7-104
Table 7-20:	Visual and Aesthetic Resources – Project Effect Attributes for Northwestern Alberta.....	7-104
Table 8-1:	Heritage Resources in Potential Conflict with Niglintgak, Taglu and Parsons Lake in the Inuvialuit Settlement Region	8-25
Table 8-2:	Heritage Resources in Potential Conflict with the Gathering System in the Inuvialuit Settlement Region	8-27
Table 8-3:	Heritage Resources in Potential Conflict with Infrastructure Sites in the Inuvialuit Settlement Region	8-28
Table 8-4:	Heritage Resources in Potential Conflict with Borrow Sites in the Inuvialuit Settlement Region	8-28
Table 8-5:	Heritage Resources Investigated During the 2002 and 2003 Focused Reconnaissance and Impact Assessment Program in the Inuvialuit Settlement Region	8-29
Table 8-6:	Heritage Resources in Potential Conflict with the Pipeline Corridor and Associated Facilities in the Gwich'in Settlement Area	8-38
Table 8-7:	Heritage Resources in Potential Conflict with Infrastructure Sites in the Gwich'in Settlement Area	8-38
Table 8-8:	Heritage Resources in Potential Conflict with Borrow Sites in the Gwich'in Settlement Area	8-40
Table 8-9:	Heritage Resources Investigated During the 2002 and 2003 Focused Reconnaissance and Impact Assessment Program in the Gwich'in Settlement Area	8-41
Table 8-10:	Heritage Resources in Potential Conflict with the Pipeline Corridor and Associated Facilities in the Sahtu Settlement Area	8-50
Table 8-11:	Heritage Resources in Potential Conflict with Infrastructure Sites in the Sahtu Settlement Area	8-51
Table 8-12:	Heritage Resources in Potential Conflict with Borrow Sites in the Sahtu Settlement Area	8-52
Table 8-13:	Heritage Resources Investigated During the 2002 and 2003 Focused Reconnaissance Program in the Sahtu Settlement Area	8-52
Table 8-14:	Heritage Resources in Potential Conflict with the Pipeline Corridor and Associated Facilities in the Deh Cho Region	8-59
Table 8-15:	Heritage Resources in Potential Conflict with Infrastructure Sites in the Deh Cho Region.....	8-59
Table 8-16:	Heritage Resources in Potential Conflict with Borrow Sites in the Deh Cho Region	8-60

Table 8-17:	Heritage Resources Investigated During the 2002 and 2003 Focused Reconnaissance Program in the Deh Cho Region	8-60
Table 8-18:	Heritage Resources – Project Effect Attributes.....	8-87
Table 9-1:	Examples of Significance of Socio-Economic Cumulative Effects Attributes.....	9-7
Table 9-2:	Assessment and Management of Cumulative Effects	9-9
Table 9-3:	Summary of Cumulative Effects on the Economy	9-12
Table 9-4:	Summary of Cumulative Effects on Housing.....	9-13
Table 9-5:	Summary of Cumulative Effects on Delivery of Social Services	9-15
Table 9-6:	Summary of Cumulative Effects on Health Services.....	9-16
Table 9-7:	Summary of Cumulative Effects on Delivery of Safety and Protective Services	9-17
Table 9-8:	Summary of Cumulative Effects on Educational Attainment and Services.....	9-18
Table 9-9:	Summary of Cumulative Effects on Traditional Harvesting and Culture	9-19
Table 9-10:	Summary of Cumulative Effects on Nontraditional Land and Resource Use	9-21
Table 9-11:	Summary of Cumulative Effects on Protected Areas.....	9-26