

APPENDIX B CAPITAL COST ESTIMATES

Project Name & No.	CNRL Kirby North Load Project		1923	TRANSMISSION PROJECT ESTIMATE SUMMARY		
Prepared by:	Canadian Natural Resources Limited					
AACE Class:	N/A	Estimate Basis	Service Proposal			
High Range	20%	Low Range	-10%			
Date of Estimate:	March 28, 2018	Base Year Used	2018			
	SYSTEM	PARTICIPANT	TOTAL		ASSUMPTION	
TRANSMISSION LINE						
Material	\$ -	\$ 3,074,839	\$ 3,074,839			
Labour	\$ -	\$ 5,924,578	\$ 5,924,578			
Supply & Install		\$ 288,500	\$ 288,500			
TOTAL TRANSMISSION LINE	\$ -	\$ 9,287,917	\$ 9,287,917			
SUBSTATION						
Material	\$ -	\$	\$	The substation's cost is not considered.		
Labour	\$ -	\$	\$			
Supply & Install		\$	\$			
TOTAL SUBSTATION	\$ -	\$	\$			
TELECOMMUNICATION						
Material	\$ -	\$	\$	No telecom work needed		
Labour	\$ -	\$	\$			
Supply & Install		\$	\$			
TOTAL TELECOMMUNCATIONS	\$ -	\$	\$			
OWNERS						
Pre-PPS Cost	\$ -	\$	\$	The Pre-PPS Cost is rolled into the item below.		
Proposal to Provide Service	\$ -	\$ 126,604	\$ 126,604			
Facility Applications	\$ -	\$ 155,000	\$ 155,000			
Regulatory & Compliance	\$ -	\$	\$	This cost is rolled into the item below.		
Land Rights - Easements	\$ -	\$ 69,699	\$ 69,699			
Land - Damage Claims	\$ -	\$ -	\$			
Land - Acquisitions	\$ -	\$ -	\$			
Other	\$ -	\$ -	\$			
TOTAL OWNERS COST	\$ -	\$ 351,303	\$ 351,303			
DISTRIBUTED						
Procurement Management	\$ -	\$ 50,000	\$ 50,000			
Project Management	\$ -	\$ 358,000	\$ 358,000			
Construction Management	\$ -	\$ 150,000	\$ 150,000			
Contingency		\$ 516,400	\$ 516,400			
Escalation	\$ -	\$	\$			
TOTAL DISTRIBUTED	\$ -	\$ 1,074,400	\$ 1,074,400			
SALVAGE						
Transmission Line Labour	\$ -	\$ -	\$ -			
Substation Labour	\$ -	\$ -	\$ -			
Land Remediation and Reclamation	\$ -	\$ -	\$ -			
TOTAL SALVAGE	\$ -	\$	\$			
OTHER COSTS						
AFUDC	\$	\$ 92,879.17	\$ 92,879.17	1% of TOTAL TRANSMISSION LINE		
E&S/Overhead	\$	\$ 92,879.17	\$ 92,879.17	1% of TOTAL TRANSMISSION LINE		
TOTAL OTHER	\$ -	\$ 185,758	\$ 185,758			
TOTAL PROJECT	\$ -	\$ 10,899,378	\$ 10,899,378			



AESO Project Name & No.	CNRL Kirby North Load		P1923 / D.0672		TRANSMISSION PROJECT ESTIMATE SUMMARY	
Prepared by:	AltaLink Management Ltd.					
AACE Class:	3	Estimate Basis	Service Proposal			
High Range	20%	Low Range	-10%			
Date of Estimate:	12-Mar-18	Base Year Used	2018			
In Service Date	1-Mar-19					
	SYSTEM	PARTICIPANT	TOTAL		ASSUMPTIONS	
TRANSMISSION LINE						
Material	\$	-	\$	246,691	\$	246,691
Labour	\$	-	\$	432,431	\$	432,431
Supply & Install	\$	-	\$	-	\$	-
TOTAL TRANSMISSION LINE	\$	-	\$	679,122	\$	679,122
SUBSTATION						
Material	\$	-	\$	-	\$	-
Labour	\$	-	\$	24,296	\$	24,296
Supply & Install	\$	-	\$	-	\$	-
TOTAL SUBSTATION	\$	-	\$	24,296	\$	24,296
TELECOMMUNICATION						
Material	\$	-	\$	-	\$	-
Labour	\$	-	\$	-	\$	-
Supply & Install	\$	-	\$	-	\$	-
TOTAL TELECOMMUNCATIONS	\$	-	\$	-	\$	-
OWNERS						
Pre-SP Cost	\$	-	\$	21,310	\$	21,310
Service Proposal	\$	-	\$	26,896	\$	26,896
Facility Applications	\$	-	\$	159,881	\$	159,881
Regulatory & Compliance	\$	-	\$	-	\$	-
Land Rights - Easements	\$	-	\$	7,851	\$	7,851
Land - Damage Claims	\$	-	\$	-	\$	-
Land - Acquisitions	\$	-	\$	4,982	\$	4,982
Land - Other	\$	-	\$	-	\$	-
TOTAL OWNERS COST	\$	-	\$	220,920	\$	220,920
DISTRIBUTED						
Procurement Management	\$	-	\$	13,139	\$	13,139
Project Management	\$	-	\$	246,721	\$	246,721
Construction Management	\$	-	\$	119,873	\$	119,873
Contingency	\$	-	\$	178,000	\$	178,000
Escalation	\$	-	\$	15,435	\$	15,435
TOTAL DISTRIBUTED	\$	-	\$	573,168	\$	573,168
SALVAGE						
Transmission Line Labour	\$	-	\$	8,000	\$	8,000
Substation Labour	\$	-	\$	-	\$	-
Telecom Labour	\$	-	\$	-	\$	-
Land Remediation and Reclamation	\$	-	\$	-	\$	-
TOTAL SALVAGE	\$	-	\$	8,000	\$	8,000
OTHER COSTS						
AFUDC	\$	-	\$	-	\$	-
E&S/Overhead	\$	-	\$	124,938	\$	124,938
TOTAL OTHER	\$	-	\$	124,938	\$	124,938
TOTAL PROJECT	\$	-	\$	1,630,444	\$	1,630,444

AESO Project Name & No.		CNRL Kirby North Load - Rev 1		P1923		ATCO always there. anywhere. TRANSMISSION PROJECT ESTIMATE SUMMARY
Prepared by:		ATCO Electric Transmission				
AACE Class:	3	Estimate Basis	Service Proposal P&L			
High Range	20%	Low Range	-10%			
Date of Estimate:	05/23/2018	Base Year \$	2018			
In Service Date	03/01/2019	In Service Year \$	2019			
	SYSTEM	CUSTOMER	TOTAL			ASSUMPTIONS
TRANSMISION LINE						
Material	\$	-	\$	-	\$	No Scope
Labour	\$	-	\$	-	\$	
TOTAL TRANSMISSION LINE	\$	-	\$	-	\$	
SUBSTATION						
Material	\$	-	\$	400	\$	400
Labour	\$	-	\$	42,760	\$	42,760
TOTAL SUBSTATION	\$	-	\$	43,160	\$	43,160
TELECOMMUNICATION						
Material	\$	-	\$	-	\$	No Scope
Labour	\$	-	\$	-	\$	
TOTAL TELECOMMUNCATIONS	\$	-	\$	-	\$	
OWNERS						
Pre-SP Cost	\$	-	\$	3,986	\$	3,986
Service Proposal	\$	-	\$	23,767	\$	23,767
Facility Applications	\$	-	\$	-	\$	-
Regulatory & Compliance	\$	-	\$	850	\$	850
Land Rights - Easements	\$	-	\$	-	\$	-
Land - Damage Claims	\$	-	\$	-	\$	-
Land - Acquisitions	\$	-	\$	-	\$	-
Other	\$	-	\$	-	\$	-
TOTAL OWNERS COST	\$	-	\$	28,603	\$	28,603
DISTRIBUTED						
Procurement Management	\$	-	\$	425	\$	425
Project Management	\$	-	\$	12,835	\$	12,835
Construction Management	\$	-	\$	5,500	\$	5,500
Contingency	\$	-	\$	10,000	\$	10,000
Escalation	\$	-	\$	597	\$	597
TOTAL DISTRIBUTED	\$	-	\$	29,357	\$	29,357
SALVAGE						
Transmission Line Labour	\$	-	\$	-	\$	No Scope
Substation Labour	\$	-	\$	-	\$	
Telecom Labour	\$	-	\$	-	\$	
Land Remediation and Reclamation	\$	-	\$	-	\$	
TOTAL SALVAGE	\$	-	\$	-	\$	
OTHER COSTS						
AFUDC	\$	-	\$	-	\$	-
E&S/Overhead	\$	-	\$	15,168	\$	15,168
TOTAL OTHER	\$	-	\$	15,168	\$	15,168
TOTAL PROJECT	\$	-	\$	116,288	\$	116,288