



ENBRIDGE PIPELINES INC.

IN CONNECTION WITH

ENBRIDGE ENERGY, LIMITED PARTNERSHIP INTERNATIONAL JOINT RATE TARIFF

APPLYING ON
CRUDE PETROLEUM, CONDENSATES AND NATURAL GAS LIQUIDS
FROM

POINTS IN THE PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA,

TO

POINTS IN THE PROVINCE OF ONTARIO AND POINTS IN THE STATES OF ILLINOIS, INDIANA,
MICHIGAN, MINNESOTA, NEW YORK, AND WISCONSIN

USING JOINT ROUTING AS DEPICTED ON PAGE 5 OF THIS TARIFF

The transportation rates listed in this tariff are subject to the Rules and Regulations published by:

Enbridge Pipelines Inc., NEB (National Energy Board) Tariffs Nos. [W] 443 438, 389 and 417, and reissues thereof, on file with the National Energy Board on file with the National Energy Board, for transportation within Canada.

Enbridge Energy, Limited Partnership FERC Tariff Nos. [W] 41.16.0 41.15.0 and 42.5.0, and reissues thereof, for transportation within the United States.

[N] The rates listed in this tariff are payable in United States currency and are applicable on the international movement of Crude Petroleum, Condensates and Natural Gas Liquids tendered to Enbridge Pipelines Inc. at established receiving points in Canada for delivery to established receiving points in Canada for delivery to established delivery points in the United States and Canada.

The provisions published herein will, if effective, not result in an effect on the quality of the human environment.

ISSUED: May 30, 2019

EFFECTIVE: July 1, 2019

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TRANSPORTATION RATES

Commodities shall be classified on the basis of the density and viscosity of such commodities at the time of receipt by Enbridge Pipelines Inc. and assessed a transportation rate as listed in the transportation rate tables below. Density shall be based on 15°C. Viscosity shall be based on Enbridge Pipelines Inc.'s reference line temperature at the time of receipt. Where the density of a commodity falls within the density range of one commodity classification and the viscosity of the commodity falls within the viscosity range of another commodity classification, then the commodity shall be deemed to be in the commodity classification with the higher transportation rate.

NATURAL GAS LIQUIDS (NGL) - A commodity having a maximum absolute vapor pressure of 1,250 kilopascals at 37.8°C and a density of up to but not including 600 kilograms per cubic meter (kg/m³) and a viscosity of up to but not including 0.4 square millimeters per second (mm²/s) will be classified as **Natural Gas Liquids**.

CONDENSATES (CND) – A commodity having a density from 600 kg/ m³ up to but not including 800 kg/ m³ and a viscosity of 0.4 mm²/s up to but not including 2 mm²/s will be classified as **Condensates**.

LIGHT CRUDE PETROLEUM (LIGHT) - A commodity having a density from 800 kg/m³ up to but not including 876 kg/m³ and a viscosity from 2 mm²/s up to but not including 20 mm²/s will be classified as **Light Crude Petroleum**.

MEDIUM CRUDE PETROLEUM (MEDIUM) - A commodity having a density from 876 kg/m³ up to but not including 904 kg/m³ and a viscosity from 20 mm²/s up to but not including 100 mm²/s will be classified as **Medium Crude Petroleum**.

HEAVY CRUDE PETROLEUM (HEAVY) - A commodity having a density from 904 kg/m³ to 940 kg/m³ inclusive and a viscosity from 100 up to and including 350 mm²/s will be classified as **Heavy Crude Petroleum**.

The following tables provide rates including Transmission and Terminalling Charges, as well as the Abandonment Surcharges, the Edmonton Transportation Surcharge, the Phase 1 Southern Access Expansion Surcharge, the Interim Lakehead Operational Tank Surcharge, the Line 78 (Line 62) Twin Surcharge, the CTS Section 20.1 surcharge, the Non-Performance Penalty, and the Line 61 Twin Surcharge. For further information on the applicable tankage charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s NEB Tariff No. **[W] 448 440**, Enbridge Pipelines Inc.'s NEB RT Tariff No. **[W] 19-1 48-2**, and Enbridge Energy, Limited Partnership's FERC Tariff No. **[W] 43.31.0 43-28-0**. For the applicable Oil Allowance charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s NEB Tariff No. **[W] 448 440**, and Enbridge Energy, Limited Partnership's FERC Tariff No. **[W] 41.16.0 41-45-0**.

[!] All rates on this page have increased.

**INTERNATIONAL JOINT TRANSPORTATION RATES FOR ENBRIDGE PIPELINES INC.
AND ENBRIDGE ENERGY, LIMITED PARTNERSHIP**

INTERNATIONAL JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER						
From	To	Rate				
		NGL	CND	LIGHT	MEDIUM	HEAVY
Edmonton Terminal, Alberta	Clearbrook, Minnesota		15.6579	16.5453	17.5800	19.3924
	Superior, Wisconsin	17.6203	18.4346	19.3264	20.5727	22.7525
	Lockport, Illinois		25.4811	26.3831	28.1474	31.2384
	Mokena, Illinois		25.4811	26.3831	28.1474	31.2384
	Flanagan, Illinois		25.0262	25.9282	27.6925	30.7835
	Griffith, Indiana		25.4811	26.3831	28.1474	31.2384
	Stockbridge, Michigan		27.8606	28.7665	30.7215	34.1470
	Rapid River, Michigan	21.4990				
	Marysville, Michigan		27.8606	28.7665	30.7215	34.1470
	Corunna or Sarnia Terminal, Ontario	26.6027	28.2273	29.1418	31.107	34.5436
	Nanticoke, Ontario		30.4763	31.5821	33.7381	37.5095
	West Seneca, New York		30.8149	31.9429	34.1482	38.0072
Hardisty Terminal, Alberta	Clearbrook, Minnesota			13.3333	14.2435	15.8384
	Superior, Wisconsin			16.1144	17.2362	19.1986
	Lockport, Illinois			23.1713	24.8111	27.6843
	Mokena, Illinois			23.1713	24.8111	27.6843
	Flanagan, Illinois			22.7164	24.3562	27.2294
	Griffith, Indiana			23.1713	24.8111	27.6843
	Stockbridge, Michigan			25.5546	27.3852	30.5931
	Rapid River, Michigan					
	Marysville, Michigan			25.5546	27.3852	30.5931
	Corunna or Sarnia Terminal, Ontario			25.9300	27.7706	30.9899
	Nanticoke, Ontario			28.3699	30.4018	33.9554
	West Seneca, New York			28.7312	30.8122	34.4534

[I] All rates on this page have increased.

INTERNATIONAL JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER						
From	To	Rate				
		NGL	CND	LIGHT	MEDIUM	HEAVY
Kerrobot Station, Saskatchewan	Clearbrook, Minnesota			11.7368		13.8980
	Superior, Wisconsin	13.1233		14.5179		17.2581
	Lockport, Illinois			21.5747		25.7440
	Mokena, Illinois			21.5747		25.7440
	Flanagan, Illinois			21.1198		25.2891
	Griffith, Indiana			21.5747		25.7440
	Stockbridge, Michigan			23.9580		28.6526
	Rapid River, Michigan	17.0021				
	Marysville, Michigan			23.9580		28.6526
	Corunna or Sarnia Terminal, Ontario	22.1059		24.3333		29.0492
	Nanticoke, Ontario			26.7734		32.0150
West Seneca, New York			27.1345		32.5129	
Regina Terminal, Saskatchewan	Clearbrook, Minnesota			8.5349		10.0060
	Superior, Wisconsin			11.3158		13.3661
	Lockport, Illinois			18.3727		21.8521
	Mokena, Illinois			18.3727		21.8521
	Flanagan, Illinois			17.9178		21.3972
	Griffith, Indiana			18.3727		21.8521
	Stockbridge, Michigan			20.7561		24.7609
	Rapid River, Michigan					
	Marysville, Michigan			20.7561		24.7609
	Corunna or Sarnia Terminal, Ontario			21.1312		25.1574
	Nanticoke, Ontario			23.5715		28.1232
West Seneca, New York			23.9325		28.6209	
Cromer Terminal, Manitoba	Clearbrook, Minnesota			6.2216	6.5749	7.1947
	Superior, Wisconsin	8.1483		9.0029	9.5677	10.5550
	Lockport, Illinois			16.0598	17.1423	19.0407
	Mokena, Illinois			16.0598	17.1423	19.0407
	Flanagan, Illinois			15.6049	16.6874	18.5858
	Griffith, Indiana			16.0598	17.1423	19.0407
	Stockbridge, Michigan			18.4431	19.7164	21.9494
	Rapid River, Michigan	12.0272				
	Marysville, Michigan			18.4431	19.7164	21.9494
	Corunna or Sarnia Terminal, Ontario	17.1308		18.8180	20.1016	22.3460
	Nanticoke, Ontario			21.2583	22.7330	25.3117
West Seneca, New York			21.6195	23.1433	25.8095	

Notes

- a) **Abandonment Surcharge:** The transportation rates include Abandonment Surcharges for transmission and terminalling pursuant to National Energy Board Decision MH-001-2013 and Order MO-030-2014 for movements of all commodities. All movements to the United States incur a receipt terminalling Abandonment Surcharge. Movements to Corunna or Sarnia Terminal, Ontario and Nanticoke, Ontario incur both a receipt and delivery terminalling Abandonment Surcharge.
- b) **Edmonton Transportation Surcharge:** Pursuant to CTS Section 16.3, the transportation tolls from the Edmonton Terminal, Alberta receiving point include a surcharge for transmission and terminalling, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.
- c) **Phase 1 Southern Access Expansion Surcharge:** Pursuant to CTS Section 16.3, the transportation tolls for all movements downstream of Superior, Wisconsin include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.
- d) **Interim Lakehead Operational Tank Surcharge:** Pursuant to CTS Section 16.3, the transportation tolls for all movements downstream of Superior, Wisconsin include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.
- e) **Line 78 (Line 62 Twin) Surcharge:** Pursuant to CTS Section 16.3, the transportation tolls for all commodity movements into and east of Chicago include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.
- f) **CTS Section 20.1(i) Surcharge:** Pursuant to CTS Section 20.1(i), the transportation tolls include a surcharge for Regulatory Change(s) or Enbridge Specific Regulatory Change(s), which is adjusted for distance and commodity type.
- g) **Non-Performance Penalty:** The transportation tolls for all commodity movements include a surcredit for refund of collections under the Non-Performance Penalty, which is adjusted for distance only.
- h) **Line 61 Twin Surcharge:** Pursuant to CTS Section 13.1(e), the transportation tolls include a surcharge, which is adjusted for distance and commodity type.

JOINT ROUTING

Receipt Points in the provinces of Alberta, Saskatchewan, and Manitoba to delivery points in the province of Ontario and the states of Illinois, Indiana, Michigan, Minnesota, and New York

Enbridge Pipelines Inc. – Edmonton or Hardisty, Alberta; Kerrobert or Regina, Saskatchewan; or Cromer, Manitoba to the International Border near Gretna, Manitoba, connecting to;

Enbridge Energy, Limited Partnership – International Border near Neche, North Dakota to Clearbrook, Minnesota; Superior, Wisconsin; Lockport or Mokena, Illinois; Griffith, Indiana; Stockbridge or Rapid River, Michigan; or Marysville, Michigan, connecting to;

Enbridge Pipelines Inc. – International Border near Sarnia, Ontario to Corunna or Sarnia Terminal, Ontario or Nanticoke, Ontario, connecting to;

Enbridge Energy, Limited Partnership – International Border near Grand Island, New York to West Seneca, New York.

EXCEPTIONS

For exceptions to Enbridge Pipelines Inc., Rules and Regulations and Enbridge Energy, Limited Partnership, Rules and Regulations, see the following:

- a) **Exception to Enbridge Energy, Limited Partnership's Rules and Regulations FERC No. [W] 41.16.0 ~~41.15.0~~ Item 9 (h) and FERC No. 42.5.0 Item 10 (i).** For the purposes of this international joint tariff, Enbridge Pipelines Inc. shall collect in kind a percentage, in the amount of 1/10th of 1 percent of all hydrocarbons physically delivered at the designated Regular Delivery Point.
- b) **Exception to Enbridge Energy, Limited Partnership's Rules and Regulations FERC No. [W] 41.16.0 ~~41.15.0~~ Item 7 (a) and FERC No. 42.5.0 Item 8 (c).** For the purposes of this international joint tariff, Enbridge Pipelines Inc. shall charge a shipper the rate for the transportation of Crude Petroleum that is in effect on the date of delivery at the designated Regular Delivery Point for such Crude Petroleum.

SYMBOLS:

[W] – Change in wording only

[N] – New

[I] – Increase

IJT Joint Rate versus Combination of Local Rates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 448 + FERC Tariff No. 43.31.0 versus NEB No. 449/FERC No. 45.17.0
Effective: July 1, 2019

Natural Gas Liquids (NGL)							
Line No.	From	To	Canadian Local Toll per NEB No. 448 ^{1,2}	US Local Rate per FERC No. 43.31.0	Total of Local Rates	IJT per NEB No. 449/FERC No. 45.17.0	Discount Resulting from Joint Rate
(a)	(b)	(c)	(US\$/m3) (d)	(US\$/m3) (e)	(US\$/m3) (f) = (d) +(e)	(US\$/m3) (g)	(US\$/m3) (h) = (g) - (f)
1	Edmonton	Superior	14.3451	4.8154	19.1605	17.6203	(1.5402)
2	Edmonton	Rapid River	14.3451	7.9353	22.2804	21.4990	(0.7814)
3	Edmonton	Sarnia	14.8162	12.3123	27.1285	26.6027	(0.5258)
4	Kerrobert	Superior	9.8758	4.8154	14.6912	13.1233	(1.5679)
5	Kerrobert	Rapid River	9.8758	7.9353	17.8111	17.0021	(0.8090)
6	Kerrobert	Sarnia	10.3468	12.3123	22.6591	22.1059	(0.5532)
7	Cromer	Superior	4.7620	4.8154	9.5774	8.1483	(1.4291)
8	Cromer	Rapid River	4.7620	7.9353	12.6973	12.0272	(0.6701)
9	Cromer	Sarnia	5.2330	12.3123	17.5453	17.1308	(0.4145)

1. Column (d) shows the Canadian Local Toll NEB No. 448 converted into United States currency using a factor of \$1.35 CAD per \$1.00 U.S. (rounded to the nearest nickel).
2. The CLT to Sarnia, Nanticoke and West Seneca are calculated by adding the applicable tolls to the International Boundary near Gretna, Manitoba and the tolls from the International Boundary near Sarnia, Ontario to Sarnia, Nanticoke and International Boundary near Chippawa, Ontario, respectively.

IJT Joint Rate versus Combination of Local Rates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 448 + FERC Tariff No. 43.31.0 versus NEB No. 449/FERC No. 45.17.0
Effective: July 1, 2019

Condensates (CND)								
Line No.	From	To	Canadian Local Toll per NEB No. 448 ^{1,2} (US\$/m3)	US Local Rate per FERC No. 43.31.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 449/FERC No. 45.17.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)	
(a)	(b)	(c)	(d)	(e)	(f) = (d) +(e)	(g)	(h) = (g) - (f)	
1	Edmonton	Clearbrook	14.7466	2.6529	17.3995	15.6579	(1.7416)	
2	Edmonton	Superior	14.7466	5.4428	20.1894	18.4346	(1.7548)	
3	Edmonton	Lockport	14.7466	11.7003	26.4469	25.4811	(0.9658)	
4	Edmonton	Mokena	14.7466	11.7003	26.4469	25.4811	(0.9658)	
5	Edmonton	Flanagan	14.7466	11.7003	26.4469	25.0262	(1.4207)	
6	Edmonton	Griffith	14.7466	11.7003	26.4469	25.4811	(0.9658)	
7	Edmonton	Stockbridge	14.7466	14.0640	28.8106	27.8606	(0.9500)	
8	Edmonton	Marysville	14.7466	14.0640	28.8106	27.8606	(0.9500)	
9	Edmonton	Sarnia	15.2192	13.7412	28.9604	28.2273	(0.7331)	
10	Edmonton	Nanticoke	16.9376	13.7412	30.6788	30.4763	(0.2025)	
11	Edmonton	West Seneca	16.7413	14.4072	31.1485	30.8149	(0.3336)	

1. Column (d) shows the Canadian Local Toll NEB No. 448 converted into United States currency using a factor of \$1.35 CAD per \$1.00 U.S. (rounded to the nearest nickel).
2. The CLT to Sarnia, Nanticoke and West Seneca are calculated by adding the applicable tolls to the International Boundary near Gretna, Manitoba and the tolls from the International Boundary near Sarnia, Ontario to Sarnia, Nanticoke and International Boundary near Chippawa, Ontario, respectively.

IJT Joint Rate versus Combination of Local Rates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 448 + FERC Tariff No. 43.31.0 versus NEB No. 449/FERC No. 45.17.0
Effective: July 1, 2019

Light Crude Petroleum (LGT)							
Line No.	From	To	Canadian Local Toll per NEB No. 448 ^{1,2}	US Local Rate per FERC No. 43.31.0	Total of Local Rates	IJT per NEB No. 449/FERC No. 45.17.0	Discount Resulting from Joint Rate
(a)	(b)	(c)	(US\$/m3) (d)	(US\$/m3) (e)	(US\$/m3) (f) = (d) +(e)	(US\$/m3) (g)	(US\$/m3) (h) = (g) - (f)
1	Edmonton	Clearbrook	15.6591	2.6529	18.3120	16.5453	(1.7667)
2	Edmonton	Superior	15.6591	5.4428	21.1019	19.3264	(1.7755)
3	Edmonton	Lockport	15.6591	11.7003	27.3594	26.3831	(0.9763)
4	Edmonton	Mokena	15.6591	11.7003	27.3594	26.3831	(0.9763)
5	Edmonton	Flanagan	15.6591	11.7003	27.3594	25.9282	(1.4312)
6	Edmonton	Griffith	15.6591	11.7003	27.3594	26.3831	(0.9763)
7	Edmonton	Stockbridge	15.6591	14.0640	29.7231	28.7665	(0.9566)
8	Edmonton	Marysville	15.6591	14.0640	29.7231	28.7665	(0.9566)
9	Edmonton	Sarnia	16.1376	13.7412	29.8788	29.1418	(0.7370)
10	Edmonton	Nanticoke	18.0042	13.7412	31.7454	31.5821	(0.1633)
11	Edmonton	West Seneca	17.8235	14.4072	32.2307	31.9429	(0.2878)
12	Hardisty	Clearbrook	12.5126	2.6529	15.1655	13.3333	(1.8322)
13	Hardisty	Superior	12.5126	5.4428	17.9554	16.1144	(1.8410)
14	Hardisty	Lockport	12.5126	11.7003	24.2129	23.1713	(1.0416)
15	Hardisty	Mokena	12.5126	11.7003	24.2129	23.1713	(1.0416)
16	Hardisty	Flanagan	12.5126	11.7003	24.2129	22.7164	(1.4965)
17	Hardisty	Griffith	12.5126	11.7003	24.2129	23.1713	(1.0416)
18	Hardisty	Stockbridge	12.5126	14.0640	26.5766	25.5546	(1.0220)
19	Hardisty	Marysville	12.5126	14.0640	26.5766	25.5546	(1.0220)
20	Hardisty	Sarnia	12.9911	13.7412	26.7323	25.9300	(0.8023)
21	Hardisty	Nanticoke	14.8577	13.7412	28.5989	28.3699	(0.2290)
22	Hardisty	West Seneca	14.6770	14.4072	29.0842	28.7312	(0.3530)
23	Kerrobert	Clearbrook	10.8698	2.6529	13.5227	11.7368	(1.7859)
24	Kerrobert	Superior	10.8698	5.4428	16.3126	14.5179	(1.7947)
25	Kerrobert	Lockport	10.8698	11.7003	22.5701	21.5747	(0.9954)
26	Kerrobert	Mokena	10.8698	11.7003	22.5701	21.5747	(0.9954)
27	Kerrobert	Flanagan	10.8698	11.7003	22.5701	21.1198	(1.4503)
28	Kerrobert	Griffith	10.8698	11.7003	22.5701	21.5747	(0.9954)
29	Kerrobert	Stockbridge	10.8698	14.0640	24.9338	23.9580	(0.9758)
30	Kerrobert	Marysville	10.8698	14.0640	24.9338	23.9580	(0.9758)
31	Kerrobert	Sarnia	11.3483	13.7412	25.0895	24.3333	(0.7562)
32	Kerrobert	Nanticoke	13.2148	13.7412	26.9560	26.7734	(0.1826)
33	Kerrobert	West Seneca	13.0341	14.4072	27.4413	27.1345	(0.3068)
34	Regina	Clearbrook	7.5744	2.6529	10.2273	8.5349	(1.6924)
35	Regina	Superior	7.5744	5.4428	13.0172	11.3158	(1.7014)
36	Regina	Lockport	7.5744	11.7003	19.2747	18.3727	(0.9020)
37	Regina	Mokena	7.5744	11.7003	19.2747	18.3727	(0.9020)
38	Regina	Flanagan	7.5744	11.7003	19.2747	17.9178	(1.3569)
39	Regina	Griffith	7.5744	11.7003	19.2747	18.3727	(0.9020)
40	Regina	Stockbridge	7.5744	14.0640	21.6384	20.7561	(0.8823)
41	Regina	Marysville	7.5744	14.0640	21.6384	20.7561	(0.8823)
42	Regina	Sarnia	8.0529	13.7412	21.7941	21.1312	(0.6629)
43	Regina	Nanticoke	9.9195	13.7412	23.6607	23.5715	(0.0892)
44	Regina	West Seneca	9.7387	14.4072	24.1459	23.9325	(0.2134)
45	Cromer	Clearbrook	5.1960	2.6529	7.8489	6.2216	(1.6273)
46	Cromer	Superior	5.1960	5.4428	10.6388	9.0029	(1.6359)
47	Cromer	Lockport	5.1960	11.7003	16.8963	16.0598	(0.8365)
48	Cromer	Mokena	5.1960	11.7003	16.8963	16.0598	(0.8365)
49	Cromer	Flanagan	5.1960	11.7003	16.8963	15.6049	(1.2914)
50	Cromer	Griffith	5.1960	11.7003	16.8963	16.0598	(0.8365)
51	Cromer	Stockbridge	5.1960	14.0640	19.2600	18.4431	(0.8169)
52	Cromer	Marysville	5.1960	14.0640	19.2600	18.4431	(0.8169)
53	Cromer	Sarnia	5.6745	13.7412	19.4157	18.8180	(0.5977)
54	Cromer	Nanticoke	7.5411	13.7412	21.2823	21.2583	(0.0240)
55	Cromer	West Seneca	7.3603	14.4072	21.7675	21.6195	(0.1480)

1. Column (d) shows the Canadian Local Toll NEB No. 448 converted into United States currency using a factor of \$1.35 CAD per \$1.00 U.S. (rounded to the nearest nickel).
2. The CLT to Sarnia, Nanticoke and West Seneca are calculated by adding the applicable tolls to the International Boundary near Gretna, Manitoba and the tolls from the International Boundary near Sarnia, Ontario to Sarnia, Nanticoke and International Boundary near Chippawa, Ontario, respectively.

IJT Joint Rate versus Combination of Local Rates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 448 + FERC Tariff No. 43.31.0 versus NEB No. 449/FERC No. 45.17.0
Effective: July 1, 2019

Medium Crude Petroleum (MED)							
Line No.	From	To	Canadian Local Toll per NEB No. 448 ^{1,2} (US\$/m3)	US Local Rate per FERC No. 43.31.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 449/FERC No. 45.17.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) + (e)	(g)	(h) = (g) - (f)
1	Edmonton	Clearbrook	16.7109	2.8015	19.5124	17.5800	(1.9324)
2	Edmonton	Superior	16.7109	5.8016	22.5125	20.5727	(1.9398)
3	Edmonton	Lockport	16.7109	12.5725	29.2834	28.1474	(1.1360)
4	Edmonton	Mokena	16.7109	12.5725	29.2834	28.1474	(1.1360)
5	Edmonton	Flanagan	16.7109	12.5725	29.2834	27.6925	(1.5909)
6	Edmonton	Griffith	16.7109	12.5725	29.2834	28.1474	(1.1360)
7	Edmonton	Stockbridge	16.7109	15.1251	31.8360	30.7215	(1.1145)
8	Edmonton	Marysville	16.7109	15.1251	31.8360	30.7215	(1.1145)
9	Edmonton	Sarnia	17.1976	14.8042	32.0018	31.1070	(0.8948)
10	Edmonton	Nanticoke	19.2093	14.8042	34.0135	33.7381	(0.2754)
11	Edmonton	West Seneca	19.0434	15.4972	34.5406	34.1482	(0.3924)
12	Hardisty	Clearbrook	13.4341	2.8015	16.2356	14.2435	(1.9921)
13	Hardisty	Superior	13.4341	5.8016	19.2357	17.2362	(1.9995)
14	Hardisty	Lockport	13.4341	12.5725	26.0066	24.8111	(1.1955)
15	Hardisty	Mokena	13.4341	12.5725	26.0066	24.8111	(1.1955)
16	Hardisty	Flanagan	13.4341	12.5725	26.0066	24.3562	(1.6504)
17	Hardisty	Griffith	13.4341	12.5725	26.0066	24.8111	(1.1955)
18	Hardisty	Stockbridge	13.4341	15.1251	28.5592	27.3852	(1.1740)
19	Hardisty	Marysville	13.4341	15.1251	28.5592	27.3852	(1.1740)
20	Hardisty	Sarnia	13.9207	14.8042	28.7249	27.7706	(0.9543)
21	Hardisty	Nanticoke	15.9325	14.8042	30.7367	30.4018	(0.3349)
22	Hardisty	West Seneca	15.7665	15.4972	31.2637	30.8122	(0.4515)
23	Cromer	Clearbrook	5.5412	2.8015	8.3427	6.5749	(1.7678)
24	Cromer	Superior	5.5412	5.8016	11.3428	9.5677	(1.7751)
25	Cromer	Lockport	5.5412	12.5725	18.1137	17.1423	(0.9714)
26	Cromer	Mokena	5.5412	12.5725	18.1137	17.1423	(0.9714)
27	Cromer	Flanagan	5.5412	12.5725	18.1137	16.6874	(1.4263)
28	Cromer	Griffith	5.5412	12.5725	18.1137	17.1423	(0.9714)
29	Cromer	Stockbridge	5.5412	15.1251	20.6663	19.7164	(0.9499)
30	Cromer	Marysville	5.5412	15.1251	20.6663	19.7164	(0.9499)
31	Cromer	Sarnia	6.0278	14.8042	20.8320	20.1016	(0.7304)
32	Cromer	Nanticoke	8.0396	14.8042	22.8438	22.7330	(0.1108)
33	Cromer	West Seneca	7.8736	15.4972	23.3708	23.1433	(0.2275)

1. Column (d) shows the Canadian Local Toll NEB No. 448 converted into United States currency using a factor of \$1.35 CAD per \$1.00 U.S. (rounded to the nearest nickel).
2. The CLT to Sarnia, Nanticoke and West Seneca are calculated by adding the applicable tolls to the International Boundary near Gretna, Manitoba and the tolls from the International Boundary near Sarnia, Ontario to Sarnia, Nanticoke and International Boundary near Chippawa, Ontario, respectively.

IJT Joint Rate versus Combination of Local Rates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 448 + FERC Tariff No. 43.31.0 versus NEB No. 449/FERC No. 45.17.0
Effective: July 1, 2019

Heavy Crude Petroleum (HVY)								
Line No.	From	To	Canadian Local Toll per NEB No. 448 ^{1,2}	US Local Rate per FERC No. 43.31.0	Total of Local Rates	IJT per NEB No. 449/FERC No. 45.17.0	Discount Resulting from Joint Rate	
(a)	(b)	(c)	(US\$/m3)	(US\$/m3)	(US\$/m3)	(US\$/m3)	(US\$/m3)	(US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) +(e)	(g)	(h) = (g) - (f)	
1	Edmonton	Clearbrook	18.5523	3.0637	21.6160	19.3924	(2.2236)	
2	Edmonton	Superior	18.5523	6.4279	24.9802	22.7525	(2.2277)	
3	Edmonton	Lockport	18.5523	14.1028	32.6551	31.2384	(1.4167)	
4	Edmonton	Mokena	18.5523	14.1028	32.6551	31.2384	(1.4167)	
5	Edmonton	Flanagan	18.5523	14.1028	32.6551	30.7835	(1.8716)	
6	Edmonton	Griffith	18.5523	14.1028	32.6551	31.2384	(1.4167)	
7	Edmonton	Stockbridge	18.5523	16.9879	35.5402	34.1470	(1.3932)	
8	Edmonton	Marysville	18.5523	16.9879	35.5402	34.1470	(1.3932)	
9	Edmonton	Sarnia	19.0501	16.6626	35.7127	34.5436	(1.1691)	
10	Edmonton	Nanticoke	21.3166	16.6626	37.9792	37.5095	(0.4697)	
11	Edmonton	West Seneca	21.1803	17.4037	38.5840	38.0072	(0.5768)	
12	Hardisty	Clearbrook	15.0488	3.0637	18.1125	15.8384	(2.2741)	
13	Hardisty	Superior	15.0488	6.4279	21.4767	19.1986	(2.2781)	
14	Hardisty	Lockport	15.0488	14.1028	29.1516	27.6843	(1.4673)	
15	Hardisty	Mokena	15.0488	14.1028	29.1516	27.6843	(1.4673)	
16	Hardisty	Flanagan	15.0488	14.1028	29.1516	27.2294	(1.9222)	
17	Hardisty	Griffith	15.0488	14.1028	29.1516	27.6843	(1.4673)	
18	Hardisty	Stockbridge	15.0488	16.9879	32.0367	30.5931	(1.4436)	
19	Hardisty	Marysville	15.0488	16.9879	32.0367	30.5931	(1.4436)	
20	Hardisty	Sarnia	15.5466	16.6626	32.2092	30.9899	(1.2193)	
21	Hardisty	Nanticoke	17.8131	16.6626	34.4757	33.9554	(0.5203)	
22	Hardisty	West Seneca	17.6768	17.4037	35.0805	34.4534	(0.6271)	
23	Kerrobert	Clearbrook	13.0526	3.0637	16.1163	13.8980	(2.2183)	
24	Kerrobert	Superior	13.0526	6.4279	19.4805	17.2581	(2.2224)	
25	Kerrobert	Lockport	13.0526	14.1028	27.1554	25.7440	(1.4114)	
26	Kerrobert	Mokena	13.0526	14.1028	27.1554	25.7440	(1.4114)	
27	Kerrobert	Flanagan	13.0526	14.1028	27.1554	25.2891	(1.8663)	
28	Kerrobert	Griffith	13.0526	14.1028	27.1554	25.7440	(1.4114)	
29	Kerrobert	Stockbridge	13.0526	16.9879	30.0405	28.6526	(1.3879)	
30	Kerrobert	Marysville	13.0526	16.9879	30.0405	28.6526	(1.3879)	
31	Kerrobert	Sarnia	13.5504	16.6626	30.2130	29.0492	(1.1638)	
32	Kerrobert	Nanticoke	15.8169	16.6626	32.4795	32.0150	(0.4645)	
33	Kerrobert	West Seneca	15.6806	17.4037	33.0843	32.5129	(0.5714)	
34	Regina	Clearbrook	9.0477	3.0637	12.1114	10.0060	(2.1054)	
35	Regina	Superior	9.0477	6.4279	15.4756	13.3661	(2.1095)	
36	Regina	Lockport	9.0477	14.1028	23.1505	21.8521	(1.2984)	
37	Regina	Mokena	9.0477	14.1028	23.1505	21.8521	(1.2984)	
38	Regina	Flanagan	9.0477	14.1028	23.1505	21.3972	(1.7533)	
39	Regina	Griffith	9.0477	14.1028	23.1505	21.8521	(1.2984)	
40	Regina	Stockbridge	9.0477	16.9879	26.0356	24.7609	(1.2747)	
41	Regina	Marysville	9.0477	16.9879	26.0356	24.7609	(1.2747)	
42	Regina	Sarnia	9.5454	16.6626	26.2080	25.1574	(1.0506)	
43	Regina	Nanticoke	11.8119	16.6626	28.4745	28.1232	(0.3513)	
44	Regina	West Seneca	11.6757	17.4037	29.0794	28.6209	(0.4585)	
45	Cromer	Clearbrook	6.1508	3.0637	9.2145	7.1947	(2.0198)	
46	Cromer	Superior	6.1508	6.4279	12.5787	10.5550	(2.0237)	
47	Cromer	Lockport	6.1508	14.1028	20.2536	19.0407	(1.2129)	
48	Cromer	Mokena	6.1508	14.1028	20.2536	19.0407	(1.2129)	
49	Cromer	Flanagan	6.1508	14.1028	20.2536	18.5858	(1.6678)	
50	Cromer	Griffith	6.1508	14.1028	20.2536	19.0407	(1.2129)	
51	Cromer	Stockbridge	6.1508	16.9879	23.1387	21.9494	(1.1893)	
52	Cromer	Marysville	6.1508	16.9879	23.1387	21.9494	(1.1893)	
53	Cromer	Sarnia	6.6485	16.6626	23.3111	22.3460	(0.9651)	
54	Cromer	Nanticoke	8.9151	16.6626	25.5777	25.3117	(0.2660)	
55	Cromer	West Seneca	8.7788	17.4037	26.1825	25.8095	(0.3730)	

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