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July 3, 2019

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Dear Hugh,

Imperial Oil purchases crude oil in Ontario on the basis of a reference price, a terminal charge to Marcus and quality adjustments.

There are two reference prices, one for sweet, one for sour crudes and these are changed monthly.

For **June 2019** these prices are:

Sweet Reference Price	<b>\$ 449.79</b>	Reference Density 825 kg/m <sup>3</sup>	Reference Sulphur .5% S (by weight)
Sour Reference Price	<b>\$ 443.24</b>	850 kg/m <sup>3</sup>	1.2% S

If you have any questions please feel free to call.

**Guillermina Colombres Garmendia**

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# ONTARIO POOL PRICE LIST

MARCUS TERMINALS INC June 2019

Sweet Reference Price (\$/M3) 449.79 - <sup>8</sup> 71.51 c/bl.

Sour Reference Price (\$/M3) 443.24 - <sup>8</sup> 70.47 c/bl.

POOL ID	Location	Sweet Sour	Date Quality Change	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
01	WARWICK FIELD (01)(HEA)	Sour	7/10/1996	883.00	.800	5.520	-16.170	0.0000	0.00	432.59
02	BROOKE FIELD (02)	C Sour	7/10/1996	899.00	1.200	0.000	-24.010	0.0000	0.00	419.23
03	PLYMPTON FIELD (03)	Sour	7/10/1996	886.00	.940	3.588	-17.640	0.0000	0.00	429.19
04	BLLENHEIM (04)	C Sour		897.00	1.700	-6.900	-23.030	0.0000	0.00	413.31
06	GODERICH (06)	Sour		846.00	.700	6.900	1.960	0.0000	0.00	452.10
07	PELEE TWP (07)	Sour		834.00	.700	6.900	7.840	0.0000	0.00	457.98
08	RODNEY WEST FIELD (08)	Sweet		833.00	.100	5.520	-3.920	0.0000	0.00	451.39
09	THAMESVILLE FIELD (09)	Sour		834.00	.700	6.900	7.840	0.0000	0.00	457.98
10	RODNEY (10)	Sour		836.00	.950	3.450	6.860	0.0000	1.00	452.55
11	GLENCOE (11)	Sour		862.00	.700	6.900	-5.880	0.0000	0.00	444.26
12	PETROLIA (12)	Sour		861.00	.920	3.864	-5.390	0.0000	0.00	441.71
14	WATFORD KERWOOD FIE	Sour		838.00	.890	4.278	5.880	0.0000	0.00	453.40
16	DOVER FIELD (16)	Sweet		827.00	.130	5.106	-0.980	0.0000	0.00	453.92
17	OIL SPRINGS (17)	Sour		843.00	.800	5.520	3.430	0.0000	0.00	452.19 - 71.89 c/bl.
18	BOTHWELL THAMESVILL	Sour		836.00	.910	4.002	6.860	0.0000	0.00	454.10
19	DRESDEN (19)	Sour		851.00	1.020	2.484	-0.490	0.0000	0.00	445.23
20	TILBURY WEST (20)(5-10)	Sour		834.00	1.100	1.380	7.840	0.0000	0.00	452.46
21	KINGSVILLE (21)	Sweet		823.00	.200	4.140	0.000	0.0000	0.00	453.93
22	WALLACETOWN (22)	Sour		840.00	1.000	2.760	4.900	0.0000	0.00	450.90
23	SHETLAND (23)	Sour		869.00	.210	13.662	-9.310	0.0000	0.00	447.59
24	CHATHAM TWP (24)	Sour		836.00	1.100	1.380	6.860	0.0000	0.00	451.48
25	WANSTEAD (25)	C Sour		902.00	1.300	-1.380	-25.480	0.0000	0.00	416.38
26	WILSON CROFT (26)	Sour		878.00	1.310	-1.518	-13.720	0.0000	0.00	428.00
28	BECHER (28)	Sour		832.00	.920	3.864	8.820	0.0000	0.00	455.92
29	COLCHESTER (29)	Sweet		823.00	.190	4.278	0.000	0.0000	0.00	454.07
30	WARWICK (30)	C Sour		892.00	1.200	0.000	-20.580	0.0000	0.00	422.66
31	GRAND BEND (31)	Sweet		832.00	.240	3.588	-3.430	0.0000	0.00	449.95
32	CORUNNA (32)	Sour		853.00	.811	5.368	-1.470	0.0000	0.00	447.14
36	LOT 23 CON 1 (DAWNSOM	Sour		852.00	.760	6.072	-0.980	0.0000	0.00	448.33
39	GOBLES #54 (39)	Sweet		836.00	.130	5.106	-5.390	0.0000	0.00	449.51
40	MALDEN (40)	Sweet		819.00	.160	4.692	0.000	0.0000	0.00	454.48

MARCUS TERMINALS INC

June 2019

POOL ID	Location	Sweet Sour	Date Change	Quality	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
41	CLEARVILLE (41)	Sweet			832.00	.130	5.106	-3.430	0.0000	0.00	451.47
42	SOMBRA (42)(2-24-10) nnn	Sour	7/23/1996		834.00	.700	6.900	7.840	0.0000	0.00	457.98
44	INNERKIP FIELD (44)	Sweet			842.00	.090	5.658	-8.330	0.0000	0.00	447.12
47	MOORE (10-4)(BRIGDEN?)( Sour				843.00	.680	7.176	3.430	0.0000	0.00	453.85
48	SUTORVILLE FIELD (48)(H Sour				904.00	1.100	1.380	-26.460	0.0000	0.00	418.16
49	WILLEY SOUTH FIELD (49 Sweet				828.00	.110	5.382	-1.470	0.0000	0.00	453.70
52	BROOKE (52) C	Sour			888.00	1.100	1.380	-18.620	0.0000	0.00	426.00
53	DAWN FIELD (53)	Sour			839.00	.820	5.244	5.390	0.0000	0.00	453.87
57	MOSA (57)	Sweet			824.00	.300	2.760	0.000	0.0000	0.00	452.55
71	DAWN (71)(1-26-2)	Sour			844.00	.800	5.520	2.940	0.0000	0.00	451.70
72	DAWN (72)(5-27-3)	Sour			827.00	.670	7.314	11.270	0.0000	0.00	461.82
77	TILBURY E TWP (77) ??	Sour			836.00	.620	8.004	6.860	0.0000	0.00	458.10
78	MORPETH FIELD (78)(NGL	Sweet			748.00	.430	0.966	-25.480	0.0000	0.00	425.28
79	MERSEA (79) (8-14-A)	Sweet	4/7/2006		816.60	.162	4.664	0.000	0.0000	0.00	454.45
80	LADYSMITH (80)	Sweet	10/1/1996		832.00	.500	0.000	-3.430	0.0000	0.00	446.36
82	SOMBRA (82)(7-18-7) C	Sour			881.00	.400	11.040	-15.190	0.0000	0.00	439.09
83	DAWN FIELD (83)	Sweet			847.00	.250	3.450	-10.780	0.0000	0.00	442.46
84	RUSCUM RIVER TRENTON	Sour			834.00	.700	6.900	7.840	0.0000	0.00	457.98
85	MOORE (85)(8-4-2)	Sour			832.00	.640	7.728	8.820	0.0000	0.00	459.79
86	PETROLIA MEDIUM (86)	Sour	9/23/1998		880.50	1.190	0.138	-14.945	0.0000	0.00	428.43
87	SOMBRA (87)(6-28-9)	Sour			849.00	.540	9.108	0.490	0.0000	0.00	452.84
88	CORUNNA SECKERTON (8	Sour			853.00	.811	5.368	-1.470	0.0000	0.00	447.14
89	DAWN (89)(3-28-2)	Sweet			830.00	.100	5.520	-2.450	0.0000	0.00	452.86
90	BUTLER DAWN (90)(13-10)	Sweet	10/1/1996		849.00	.500	0.000	-11.760	0.0000	0.00	438.03
91	ENNISKILLEN (91)(4-22-2)	Sour			880.00	.440	10.488	-14.700	0.0000	0.00	439.03
92	SOMBRA FIELD (92)(4-9-12)	Sweet			855.00	.500	0.000	-14.700	0.0000	0.00	435.09
93	MOORE (93)(2-3-11) C	Sour			900.00	1.630	-5.934	-24.500	0.0000	0.00	412.81
94	ENNISKILLEN TWP (94)	Sour			901.00	.870	4.554	-24.990	0.0000	0.00	422.80
95	MALDEN (95)(3-41-4)	Sweet			844.00	.200	4.140	-9.310	0.0000	0.00	444.62
96	RUSCUM RIVER GUELPH (	Sweet			875.00	.400	1.380	-24.500	0.0000	0.00	426.67
97	EDYS MILLS (97)	Sour			832.00	.770	5.934	8.820	0.0000	0.00	457.99
98	COREY EAST FIELD (98)	Sour	9/23/1998		896.20	1.450	-3.450	-22.638	0.0000	0.00	417.15
B1	ALDBOROUGH EAGLE (B1)	Sour			830.00	.990	2.898	9.800	0.0000	0.00	455.94
B2	MCCOLL #2 (B2)	Sour			832.00	.850	4.830	8.820	0.0000	0.00	456.89
B3	BROOKE TWP (B3)	Sour			855.00	.700	6.900	-2.450	0.0000	0.00	447.69

72.25c/bl.

66.32c/bl.

MARCUS TERMINALS INC

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POOL ID	Location	Sweet Sour	Date Quality Change	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
B4	EUPHEMIA TWP (B4)	Sour		834.00	.700	6.900	7.840	0.0000	0.00	457.98
B5	ROCHESTER (1-20-5) (RUSC)	Sweet		824.00	.130	5.106	0.000	0.0000	0.00	454.90
B6	COMBER (B6)	Sour		868.00	1.040	2.208	-8.820	0.0000	0.00	436.63
B7	WHEATLEY NORTH (B7)	Sweet	8/30/2000	816.10	.140	4.968	0.000	0.0000	0.00	454.76
B8	DAWN TWP (B8)(4-30-3)	Sour		817.00	.570	8.694	12.250	0.0000	0.00	464.18
B9	ZONE CENTRE FIELD(B9)	Sour		827.00	.900	4.140	11.270	0.0000	0.00	458.65
C1	MOORE TWP (C1) (2-22-2)	Sour		850.00	.570	8.694	0.000	0.0000	0.00	451.93
C3	SARNIA TWP. (C3)	Sour		859.00	1.240	-0.552	-4.410	0.0000	0.00	438.28
C4	GOSFIELD S. (C4)(8-7-5)(IN	Sweet		825.00	.500	0.000	0.000	0.0000	0.00	449.79
C5	TILBURY EAST (C5)	Sweet		824.00	.400	1.380	0.000	0.0000	0.00	451.17
C6	PT.ALMA CONDENSATE	Sour	2/20/1997	833.80	1.270	-0.966	7.938	0.0000	0.00	450.21
C7	MAIDSTONE (C7)(7-17-5)(I	Sweet		825.00	.500	0.000	0.000	0.0000	0.00	449.79
C8	ROMNEY (C8)(6-13-3)	Sweet		813.00	.170	4.554	0.000	0.0000	0.00	454.34
C9	GOSFIELD S. (C9)(1-1-3)(IN	Sweet		825.00	.500	0.000	0.000	0.0000	0.00	449.79
D1	MERSEA TWP (D1)(6-23-7)	Sweet		813.00	.140	4.968	0.000	0.0000	0.00	454.76
D4	ROMNEY (D4)(7-10-2)	Sweet		820.00	.150	4.830	0.000	0.0000	0.00	454.62
D5	DOVER EAST (D5)(7-5-5)	Sweet		828.00	.130	5.106	-1.470	0.0000	0.00	453.43
D6	MERSEA TWP (D6)(2-15-8)	Sweet		816.00	.150	4.830	0.000	0.0000	0.00	454.62
D7	MERSEA (D7)(8-16-VIII)	Sweet		816.00	.150	4.830	0.000	0.0000	0.00	454.62
D8	ROMNEY (D8)(3-14-2)	Sweet		814.00	.150	4.830	0.000	0.0000	0.00	454.62
D9	MOORE TWP (D9)(3-14-10)	Sweet		866.00	.500	0.000	-20.090	0.0000	0.00	429.70
E1	ROMNEY (E1)(6-13-4)	Sweet		813.00	.140	4.968	0.000	0.0000	0.00	454.76
E2	ROMNEY (E2)(5-15-1)(INT)	Sweet	5/13/1997	824.90	.150	4.830	0.000	0.0000	0.00	454.62
E3	RALIEGH (E3)(1-17-13)(INT)	Sweet		750.00	.500	0.000	-24.500	0.0000	0.00	425.29
E4	GOSFIELD (E4)(4-4-4)(INT)	Sweet		825.00	.500	0.000	0.000	0.0000	0.00	449.79
E5	RALIEGH (ST. PATRICKS?)	Sour		900.00	1.500	-4.140	-24.500	0.0000	0.00	414.60
E6	GOSFIELD N. (E6)(2-21-6)(I	Sweet		817.00	.151	4.816	0.000	0.0000	0.00	454.61
E7	COLCHESTER SOUTH (E7)(	Sweet		816.00	.160	4.692	0.000	0.0000	0.00	454.48
E8	ENNISKILLEN (E8)(7-16-6)(	Sour		895.00	1.300	-1.380	-22.050	0.0000	0.00	419.81
E9	MERSEA (E9)(4-14-1)	Sweet		820.00	.160	4.692	0.000	0.0000	0.00	454.48
F1	MOORE (F1)(1-1-22-VI)(INT	Sour		895.00	1.300	-1.380	-22.050	0.0000	0.00	419.81
F2	MOORE TWP (F2)(2-14-7)	Sour		827.00	.880	4.416	11.270	0.0000	0.00	458.93
F3	ENNISKILLEN (F3)(6-15-2)	Sour		895.00	1.300	-1.380	-22.050	0.0000	0.00	419.81
F4	MERSEA (F4)(5-10-9)(INT)	Sweet		825.00	.500	0.000	0.000	0.0000	0.00	449.79
F5	GOSFIELD S. (F5)	Sweet		815.00	.150	4.830	0.000	0.0000	0.00	454.62

MARCUS TERMINALS INC

June 2019

POOL ID	Location	Sweet Sour	Date Quality Change	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
F6	SOMBRA (F6)(8-02-06)	Sour		849.00	.840	4.968	0.490	0.0000	0.00	448.70
F7	CAMDEN (DAWN #2?) (F7)(	Sour		839.00	.820	5.244	5.390	0.0000	0.00	453.87
F8	MERSEA 6-20-11	Sweet	5/13/1997	827.60	.170	4.554	-1.274	0.0000	0.00	453.07
F9	SOMBRA (RAM #33) (F9)(5-	Sour		876.00	.890	4.278	-12.740	0.0000	0.00	434.78
G1	ROCHESTER #1 (G1) (1-17-2	Sweet	6/1/1998	818.80	.170	4.554	0.000	0.0000	0.00	454.34
G2	MERSEA (G2)(3-6-V)	Sweet		813.00	.160	4.692	0.000	0.0000	0.00	454.48
G3	MERSEA (G3,G9)(3-4-IV-ST	Sweet		815.00	.151	4.816	0.000	0.0000	0.00	454.61
G4	MERSEA (G4)(2-1-V)	Sweet		820.00	.160	4.692	0.000	0.0000	0.00	454.48
G8	MOORE (G8)(27.28-2)	Sour		842.00	.740	6.348	3.920	0.0000	0.00	453.51
G9	MERSEA 4-240-STR	Sweet		815.00	.151	4.816	0.000	0.0000	0.00	454.61
H1	MERSEA (H1,H2)(2-241.6-24	Sweet		817.00	.154	4.775	0.000	0.0000	0.00	454.57
H3	MERSEA (H3)(3-3-V)	Sweet		813.00	.155	4.761	0.000	0.0000	0.00	454.55
H4	MERSEA (H4) (1-5-IV)	Sweet		815.00	.155	4.761	0.000	0.0000	0.00	454.55
H5	ROCHESTER (H5) (8-21-6)	Sweet		822.00	.167	4.595	0.000	0.0000	0.00	454.39
H6	RAM BP #29 (H6)	Sweet		817.00	.139	4.982	0.000	0.0000	0.00	454.77
H7	SOMBRA 1-10 (WELL#15)	Sour		871.00	1.000	2.760	-10.290	0.0000	0.00	435.71
H8	EOTT ENERGY (H8)	Sweet		822.00	.202	4.112	0.000	0.0000	0.00	453.90
H9	GOSFIELD SOUTH 4-4-III	Sweet	3/6/1997	817.00	.160	4.692	0.000	0.0000	0.00	454.48
J1	ANDERTON 8-2-IV (J1)	Sour		844.00	.209	13.676	2.940	0.0000	0.00	459.86
J2	ROCHESTER 7-17-IV EBR	Sweet		826.40	.150	4.830	-0.686	0.0000	0.00	453.93
J4	DAWN 5-30-10	Sour	10/23/1996	877.50	.677	7.217	-13.475	0.0000	0.00	436.98
J5	ENNISKILLEN 1-25-IX	Sour		875.10	.760	6.072	-12.299	0.0000	0.00	437.01
J6	GOSFIELD SOUTH 3-K-3	Sweet	5/30/1997	813.70	.169	4.568	0.000	0.0000	0.00	454.36
J7	GOSFIELD SOUTH 2-24-V	Sweet	9/2/1997	823.60	.140	4.968	0.000	0.0000	0.00	454.76
J8	ROMNEY 4-9-2	Sour	4/3/2003	825.00	.700	6.900	12.250	0.0000	0.00	462.39
J9	MERSEA 8-23-IX	Sweet	9/2/1998	820.10	.152	4.802	0.000	0.0000	0.00	454.59
K1	MERSEA 1-16-1	Sweet	8/31/1998	808.50	.140	4.968	0.000	0.0000	0.00	454.76
K2	STEPHEN 4-11-XXII	Sweet	12/8/1999	835.00	.400	1.380	-4.900	0.0000	0.00	446.27
K3	ENNISKILLEN 2-27-XI	Sour	1/8/1999	892.20	.910	4.002	-20.678	0.0000	0.00	426.56
K4	ALDBOROUGH 7-D-VII	Sour	5/1/2000	836.50	.880	4.416	6.615	0.0000	0.00	454.27
K5	MOORE 2-15-VIII	Sour	5/1/2000	853.00	.810	5.382	-1.470	0.0000	0.00	447.15
K6	MERSEA 5-20-A	Sweet	8/30/2000	811.20	.140	4.968	0.000	0.0000	0.00	454.76
K7	INNERKIP CONDENSATE	Sour	11/29/2000	600.00	.150	14.490	-85.750	0.0000	0.00	371.98
K8	DOVER WEST 4-9-III	Sweet	2/9/2001	845.00	.350	2.070	-9.800	0.0000	0.00	442.06
K9	SOMBRA 7-A-XI	Sour	5/2/2001	841.40	1.040	2.208	4.214	0.0000	0.00	449.66

POOL ID	Location	Sweet Sour	Date Quality Change	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
L1	SOMBRA 8-27-XII	Sour	6/6/2001	833.00	.640	7.728	8.330	0.0000	0.00	459.30
L2	BEAVER CREEK MICHIGA	Sour	1/9/2003	790.00	1.920	-9.936	7.350	0.0000	0.00	440.65
L4	ROMNEY 8-194-TRS LAKE	Sweet	3/11/2003	813.90	.168	4.582	0.000	0.0000	0.00	454.37
L5	SLOCUM BATTERY	Sour	6/7/2012	699.70	.606	8.197	-36.897	0.0000	0.00	414.54
L6	ROOD BATTERY	Sour	6/7/2012	655.00	.284	12.641	-58.800	0.0000	0.00	397.08
L7	GOSFIELD SOUTH 4 G 2	Sweet	4/22/2003	816.00	.160	4.692	0.000	0.0000	0.00	454.48
L8	HOUGHTON 6-13-VII	Sour	7/15/2005	865.80	.800	5.520	-7.742	0.0000	0.00	441.02
L9	NORTH WALSINGHAM 8-8	Sour	7/15/2005	894.00	.800	5.520	-21.560	0.0000	0.00	427.20
M1	BAYHAM	Sweet	8/29/2005	841.30	.145	4.899	-7.987	0.0000	0.00	446.70
M2	ROCHESTER 5-12-IV EBR	Sweet	9/30/2005	826.60	.150	4.830	-0.784	0.0000	0.00	453.84
M3	TILBURY WEST 3-2-X	Sweet	1/30/2008	830.20	.177	4.457	-2.548	0.0000	0.00	451.70
M4	BROOKE 4-5-XIV	Sour	1/7/2011	913.50	1.030	2.346	-31.115	0.0000	0.00	414.47
M5	DUNWICH 1-4-24-A	Sour	6/1/2012	836.00	.910	4.002	6.860	0.0000	0.00	454.10
M6	DUNWICH 4-24-A PATON	Sweet	6/1/2012	834.70	.110	5.382	-4.753	0.0000	0.00	450.42
M8	MOORE 2-5-2 CROMAR	Sour	2/27/2018	817.80	.610	8.142	12.250	0.0000	0.00	463.63
R1	BAKKEN / WILLMAR SASK	Sweet	6/27/2012	822.00	.150	4.830	0.000	0.0000	0.00	454.62
R10	CAL/SW, WHITECOURT, A	Sour	2/1/2013	.00	.000	16.560	-379.750	0.0000	0.00	80.05
R2	CONNACHER BLEND/FT.M	Sour	9/12/2012	.00	4.500	-45.540	-379.750	0.0000	0.00	17.95
R3	FOSTERTON/SASKATCHE	Sour	3/15/2012	934.00	3.300	-28.980	-41.160	0.0000	0.00	373.10
R4	L.S.B./MANITOBA/VIP	Sour	9/12/2012	833.00	.500	9.660	8.330	0.0000	0.00	461.23
R5	SLE EDMONTON ALBERT	Sour	2/12/2013	826.00	.800	5.520	11.760	0.0000	0.00	460.52
R6	MBS EDMONTON ALBER	Sweet	2/12/2013	828.00	.500	0.000	-1.470	0.0000	0.00	448.32
R7	RSW, SCOTFORD, LB.	Sweet	2/28/2013	822.00	.400	1.380	0.000	0.0000	0.00	451.17
R8	CAL, SCOTFORD, ALB.	Sour	2/28/2013	850.00	1.040	2.208	0.000	0.0000	0.00	445.45
R9	NDS, SUPERIOR, WISC.	Sweet	2/28/2013	819.00	.280	3.036	0.000	0.0000	0.00	452.83
RC9	RAIL CAR	Sour	4/10/2012	803.00	.100	15.180	12.250	0.0000	0.00	470.67
S1	CAL/SW, WHITECOURT, A	Sour	2/1/2013	.00	.000	16.560	-379.750	0.0000	0.00	80.05
S2	CAL/MBS, WHITECOURT,	Sour	2/1/2013	.00	.000	16.560	-379.750	0.0000	0.00	80.05
S3	MSW SUPERIOR WISCONS	Sweet	4/24/2013	.00	.000	6.900	-392.000	0.0000	0.00	64.69
S4	CAL WHITECOURT, ALB.	Sour	4/24/2013	.00	.000	16.560	-379.750	0.0000	0.00	80.05
S5	MSW UNITY, SASKATCHE	Sweet	4/24/2013	.00	.000	6.900	-392.000	0.0000	0.00	64.69
S6	SW WHITECOURT, ALB.	Sweet	4/24/2013	.00	.000	6.900	-392.000	0.0000	0.00	64.69
S7	DRAYTON VALLEY SWEE	Sweet	5/14/2013	834.00	.000	6.900	-4.410	0.0000	0.00	452.28
S8	BAKKEN/BIENFAIT SASKA	Sweet	5/15/2013	822.00	.150	4.830	0.000	0.0000	0.00	454.62
S9	NDS, FT. SASKATCHEWAN	Sour	5/3/2013	819.00	.280	12.696	12.250	0.0000	0.00	468.19

MARCUS TERMINALS INC

June 2019

POOL ID	Location	Sweet Sour	Date Quality Change	Density Kg/M3	Sulphur Percent	Sulphur Adjustment	Density Adj.	BSW Pen	Mercap Penalty	Producer Price
U1		Sour		.00	.000	16.560	-379.750	0.0000	0.00	80.05
U10	AURELIUS MICHIGAN	Sour	11/24/2003	838.30	1.040	2.208	5.733	0.0000	0.00	451.18
U2	CONNACHER BLEND/FT.M	Sour	3/16/2012	950.00	4.500	-45.540	-49.000	0.0000	0.00	348.70
U3		Sour		.00	.000	16.560	-379.750	0.0000	0.00	80.05
U4	GM 18 MICHIGAN	Sour	11/24/2003	834.10	.790	5.658	7.791	0.0000	0.00	456.69
U5	KENNINGTON/MILFORD	Sour	11/24/2003	835.60	.790	5.658	7.056	0.0000	0.00	455.95
U6	BRIGHTON 11 MICHIGAN	Sour	11/24/2003	854.50	1.130	0.966	-2.205	0.0000	0.00	442.00
U7	CONVIS MICHIGAN	Sour	11/24/2003	870.30	1.840	-8.832	-9.947	0.0000	0.00	424.46
U8	PENNFIELD MICHIGAN	Sour	11/24/2003	892.80	2.100	-12.420	-20.972	0.0000	0.00	409.85
U9	SPUTNIK WHOLE CRUDE	Sour	2/12/2007	848.00	3.090	-26.082	0.980	0.0000	0.00	418.14
V1	HARTLAND MICHIGAN	Sour	12/12/2003	812.00	.840	4.968	12.250	0.0000	0.00	460.46
V2	HYPERION RICH FIELD	Sour	3/30/2007	823.10	1.810	-8.418	12.250	0.0000	0.00	447.07
V3	ADDISON MICHIGAN	Sour	5/27/2005	839.30	.765	6.003	5.243	0.0000	0.00	454.49
X1	FINCH TERMINAL	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X2	OTTAWA BULK TERMINA	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X3	ST. GEORGE TERMINAL	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X4	S.ST.MARIE TERMINAL	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X5	SHELL KEELE TERMINAL	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X6	SUDBURY BULK TERMINA	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X7	ULTRAMAR TERMINAL (M	Sweet	7/1/2004	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X8	PETRO CANADA/SHELL KE	Sweet	4/11/2005	.00	.000	6.900	-392.000	0.0000	0.00	64.69
X9	PETRO CANADA/OAKVILL	Sweet	4/11/2005	.00	.000	6.900	-392.000	0.0000	0.00	64.69
Y1	MERSEA (GOLDSMITH BA	Sweet	6/1/1998	819.50	.150	4.830	0.000	0.0000	0.00	454.62
Y2	ROMNEY TWP (RENWICK	Sweet		816.60	.150	4.830	0.000	0.0000	0.00	454.62
Y3	DOVER TWP (BATTERY)	Sweet		828.00	.130	5.106	-1.470	0.0000	0.00	453.43