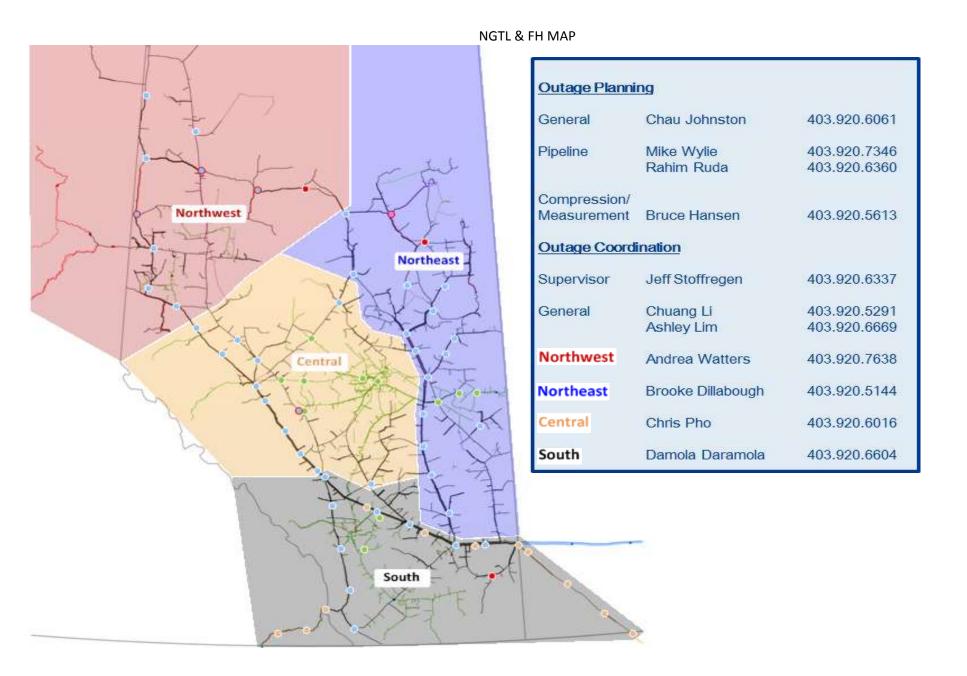




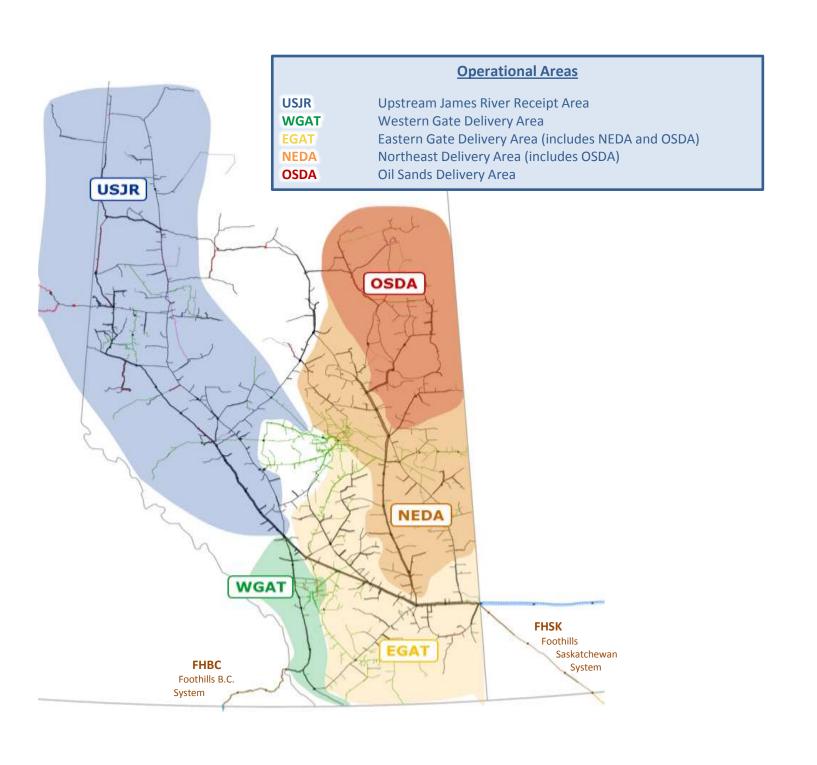
# **October Monthly Outage Forecast**

The Monthly Outage Forecast is a tool provided by TransCanada to show the estimated operational capability. This information is provided for informational purposes only and is not to be relied upon for any other purpose whatsoever. The information is based upon certain assumptions that may or may not be accurate, and therefore is subject to various risks and uncertainties. TransCanada shall not be liable for damages sustained as a result of any use or reliance on such information. Please note, only known and planned outages at the time of publishing will be included in the Monthly Outage Forecast. As new outages are planned they will be added to subsequent MOF reports.

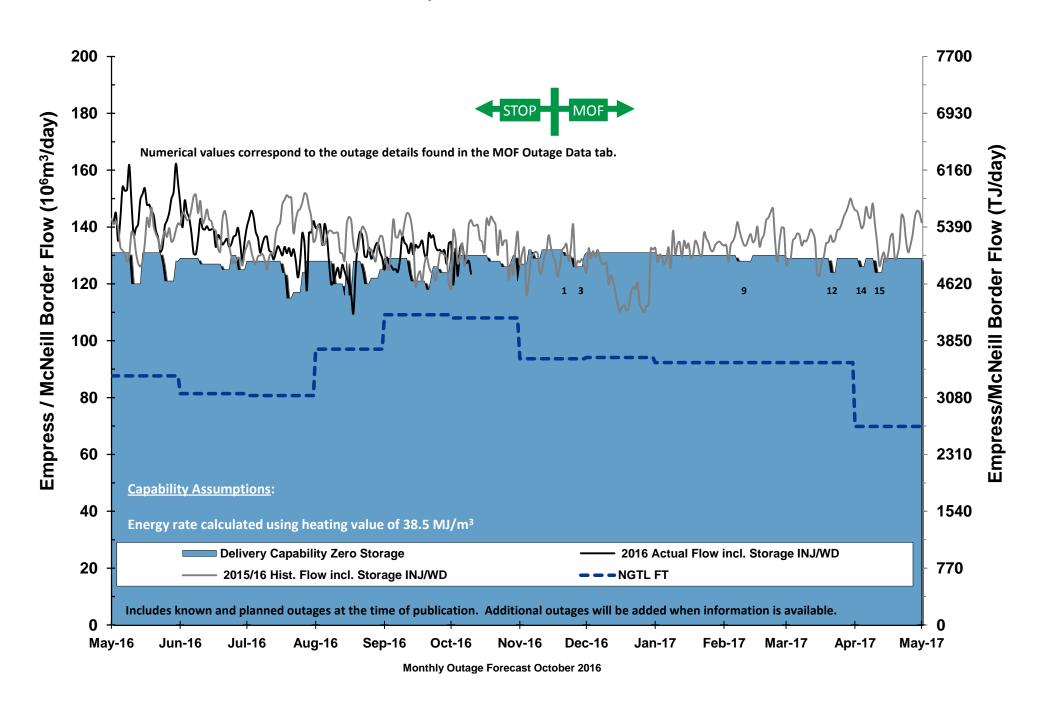


For NGTL System Facilities Segment codes please view link below

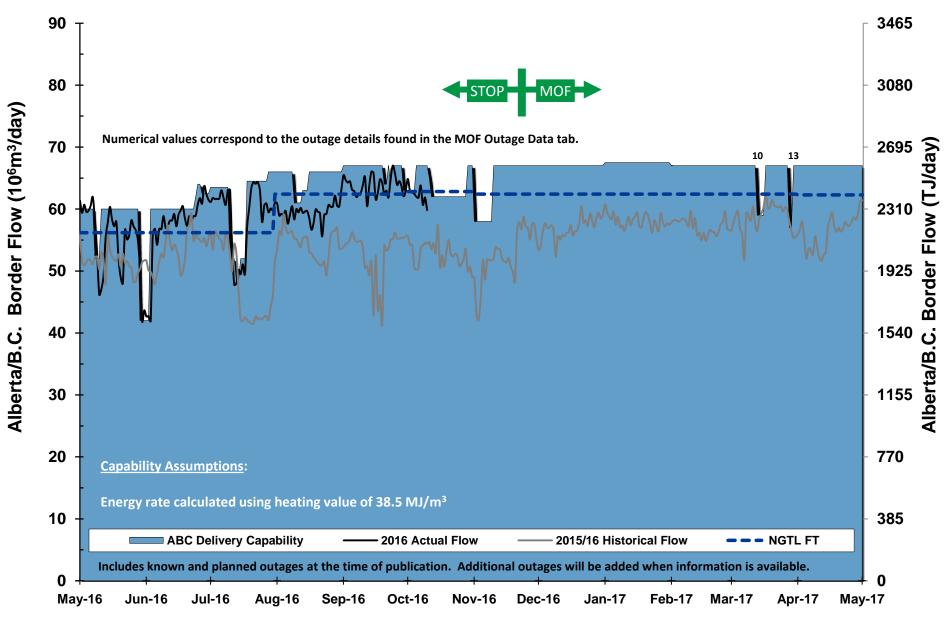
http://www.transcanada.com/customerexpress/docs/fh\_system\_maps/AB\_System\_Map\_2015\_Segments\_Rev18.pdf



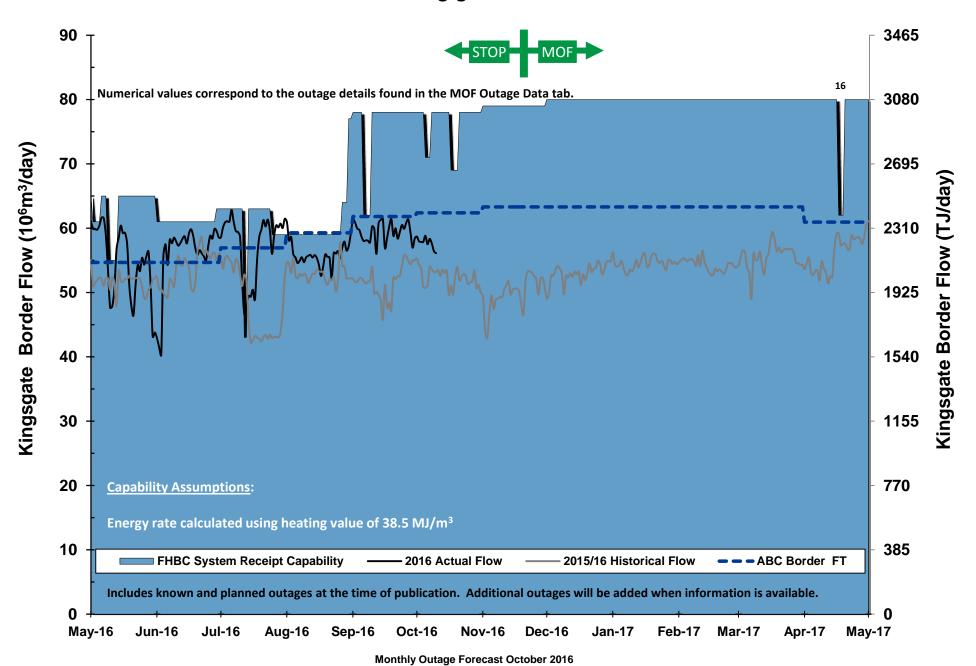
### **Empress/McNeill Border**



### Alberta/B.C. Border

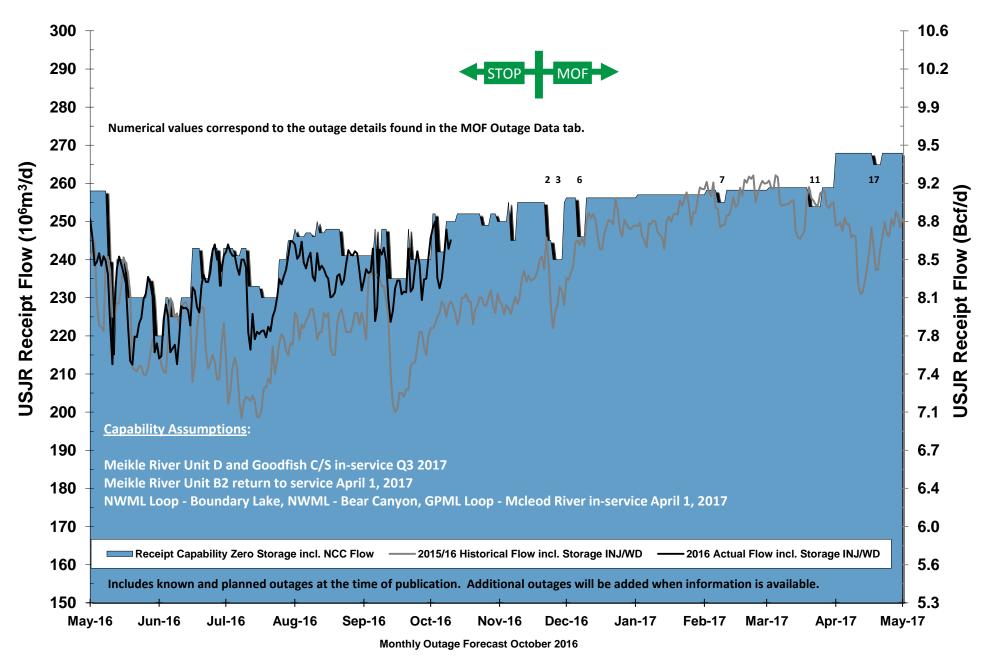


### **Kingsgate Border**



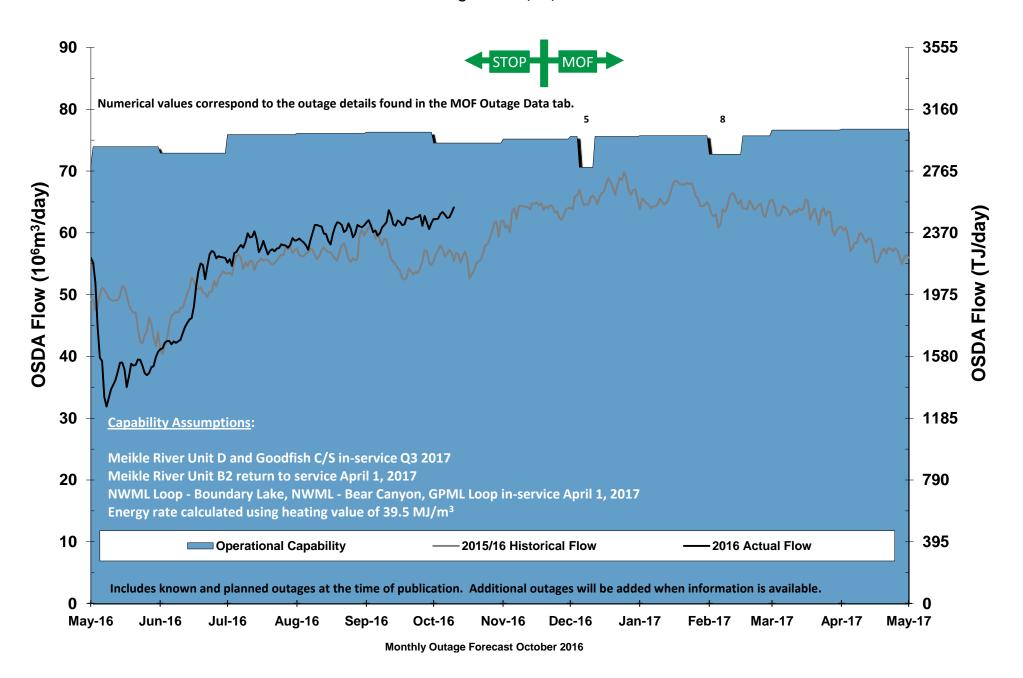
### **Upstream of James River Outlook**

Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28



### Oil Sands Delivery Area (OSDA) Outlook

Segments 10, 11, 14



#### **Area Definitions**

USJR Upstream James River Receipt Area: Groundbirch East, Gordondale, Big Eddy, January Creek, and Rat Creek West interconnects, and all receipt locations in Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28. East Gate Delivery Area: Empress, McNeill, Unity, Cold Lake, Aeco C, Warwick Southeast, Chancellor, Carbon, Severn Creek, and Crossfield interconnects,

and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
1	19	NPS 42 Eastern Alberta Mainline Loop #3 and NPS 34 Eastern Alberta Mainline - Pipeline Modifications (7 days). New	11/21/16	11/27/16	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 130 E6m3/d. Typical Flow 125-135 e6m3/d.	Chau Johnston	EGAT
2	8	Nordegg C/S- Station Maintenance (4 days).	11/22/16	11/25/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 245 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
3	6 & 12	NPS 24/30 NCC Peerless Lake/Marten Hills Lateral Loop #2/Paul Lake Crossover - Pipeline Maintenance (5 days). Capacity Revised	11/25/16	11/29/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 240 E6m3/d. Typical Flow 230-265 E6m3/d.  Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.	Chuang Li	USJR EGAT
4	20	NPS 10/12 Tide Lake Lateral - Pipeline Modifications (6 days within window). Dates Revised	11/25/16	12/02/16	Nils required at Tide Lake North, Tide Lake East, Tide Lake B, Tide Lake and Tide Lake South meter stations. Typical Flow 260-660 E3m3/d.	Damola Daramola	Local
5	10	NPS 36 NCC Loop and Fort McKay Mainline - Pipeline Maintenance (7 days). Capacity Revised	12/05/16	12/11/16	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 71 E6m3/d. Typical Flow 60-70 E6m3/d.	Chris Pho	OSDA
6	8	Swartz Creek C/S - Station Maintenance (3 days). New	12/06/16	12/08/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 246 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
7	4	NPS 36 NWML Loop # 2 - Bear Canyon Section - Pipeline Modifications (4 days within window). New	02/01/17	02/15/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 255 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
8	10	NPS 16 Pelican Mainline- Pipeline Modifications (10-15 days within window). New	02/01/17	02/15/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 72 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
9	6	NPS 24 Marten Hills Lateral Loop - Pipeline Modifications (6 days). Capacity Revised	02/07/17	02/13/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 128 E6m3/d. Typical Flow 125-135 e6m3/d.	Brooke Dillabough	EGAT
10	21	Turner Valley #2 - Unit Maintenance (4 days).	03/13/17	03/16/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 59 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
11	4	NPS 36 NWML Loop # 2 - Boundary Lake Section - Pipeline Modifications (6 days). New	03/20/17	03/25/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 254 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR

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and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES START FINISH		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
12	20	Jenner C/S - Station Maintenance (3 days). Capacity Revised	03/21/17	03/23/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
13	21	Burton Creek C/S - Station Maintenance (2 days).	03/28/17	03/29/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 57 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
14	18	Red Deer C/S- Station Maintenance (3 days). New	04/03/17	04/05/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
15	18	Crawling C/S - Station Maintenance (4 days). New	04/10/17	04/13/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
16	21	Elko C/S - Station Maintenance (3 days). New	04/17/17	04/19/17	Potential IT/FT receipt restriction on FHBC. Capability 62 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
17	8	Vetchland C/S - Station Maintenance (4 days). New	04/18/17	04/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 264 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
18	20	NPS 8 Vale East Lateral - Pipeline Modifications (6 days within window). New	04/24/17	05/07/17	Nil required at Vale East meter station. Typical Flow 330 E3m3/d.	Rahim Ruda	Local
19	15	Dusty Lake, Gadsby A & B C/S - Station Maintenance (3 days). New	05/01/17	05/03/17	Potential IT/FT delivery restriction in the North and East Delivery Area. Capability 70 E6m3/d. Typical Flow 70-80 E6m3/d.	Brooke Dillabough	NEDA
20	7	Berland River C/S - Station Maintenance (5 days). New	05/08/17	05/12/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
21	21	Moyie C/S - Station Maintenance (5 days). New	05/08/17	05/12/17	Potential IT/FT receipt restriction on FHBC. Capability 60 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
22	21	Turner Valley C/S - Station Maintenance (3 days). New	05/09/17	05/11/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 55 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT

#### **Area Definitions**

USJR Upstream James River Receipt Area: Groundbirch East, Gordondale, Big Eddy, January Creek, and Rat Creek West interconnects, and all receipt locations in Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28. East Gate Delivery Area: Empress, McNeill, Unity, Cold Lake, Aeco C, Warwick Southeast, Chancellor, Carbon, Severn Creek, and Crossfield interconnects,

and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
#	#		START	FINISH			
23	21	Turner Valley #1 - Unit Maintenance (4 days). New	05/15/17	05/18/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 59 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
24	18	Hussar C/S - Station Maintenance (4 days). New	05/16/17	05/19/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 122 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
25	5	Fox Creek C/S - Station Maintenance (3 days). New	05/23/17	05/25/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 264 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
26	11	Field Lake A & B C/S - Station Maintenance (2 days). New	05/24/17	05/25/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 74 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
27	7	Gold Creek C/S - Station Maintenance (3 days). New	05/26/17	06/01/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
28	21	Crowsnest A C/S - Station Maintenance (3 days). New	05/29/17	05/31/17	Potential IT/FT receipt restriction on FHBC. Capability 60 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
29	21	Crowsnest A & B C/S - Station Maintenance (2 days). New	05/30/17	05/31/17	Potential IT/FT receipt restriction on FHBC. Capability 53 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
30	21	Crowsnest B C/S - Station Maintenance (1 day). New	06/01/17	06/01/17	Potential IT/FT receipt restriction on FHBC. Capability 61 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
31	8	Wolf Lake C/S - Station Maintenance (5 days). New	06/05/17	06/09/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
32	21	Winchell Lake C/S - Station Maintenance (5 days). New	06/05/17	06/09/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 54 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
33	/()	NPS 10 Vale Lateral - Pipeline Modifications (6 days within window). New	06/23/17	07/07/17	Nils required at Vale and Vale East meter stations. Typical Fow 500 E3m3/d.	Rahim Ruda	Local

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and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE	SEG "	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
34	8	Clearwater C/S - Station Maintenance (2 days). New	07/04/17	07/05/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
35	1/	Hanmore Lake B & C C/S - Station Maintenance (4 days). New	07/04/17	07/07/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 75 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
36	18	Acme C/S - Station Maintenance (5 days). New	07/10/17	07/14/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
37	18	Schrader Creek West #2 - Unit Maintenance (5 days). New	07/24/17	07/28/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
38	1 /	NPS 12 Ghostpine Lateral - Pipeline Modifications (6 days within window). New	08/01/17	08/15/17	Nils required at Carbon West & Gatine meter stations. Typical Flow 600 E3m3/d.	Rahim Ruda	Local
39	12	Hanmore Lake B & C C/S - Station Maintenance (2 days). New	08/01/17	08/02/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 75 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
40	18	Schrader Creek East & West C/S - Station Maintenance (3 days). New	08/08/17	08/10/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
41	21	Drywood C/S - Station Maintenance (5 days). New	08/14/17	08/18/17	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3m3/d. Typical flow 1500- 2500 E3m3/d.	Damola Daramola	Local
42	8	Swartz Creek C/S - Station Maintenance (5 days). New	08/14/17	08/18/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
43	าก	NPS 16 Leming Lake Sales Lateral - Pipeline Modifications (6 days within window). New	08/15/17	08/30/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 72 E6m3/d. Typical Flow 60-70 E6m3/d.  Potential IT/FT delivery restriction at Mahihkan and Tucker Lake Sales. Capability 7500 E6m3/d.  Typical Flow 6000-8000 E3m3/d.  Nil required at Jackfish Creek meter station. Typical flow 30 E3m3/d	Brooke Dillabough	OSDA Local
44		NPS 8 Dorothy Lateral and NPS10 Cessford-Burfield Lateral - Pipeline Modifications (6 days within window). New	09/01/17	09/15/17	Nils required at Dorothy, Lone Butte, Cessford Burfield West, Cessford Burfield West #2, Bullpound, Cessford North meter stations. Typical Flow 600 E3m3/d.	Rahim Ruda	Local

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• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
#	#		START	FINISH			
45	5	Knight C/S - Station Maintenance (3 days). New	09/05/17	09/07/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
46	4	Hidden Lake North C/S - Station Maintenance (5 days). New	09/11/17	09/15/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 264 E6m3/d. Typical Flow 230-265 e6m3/d	Andrea Watters	USJR
47	7	Latornell C/S - Station Maintenance (5 days). New	09/18/17	09/22/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
48	4	Hidden Lake C/S - Station Maintenance (4 days). New	09/25/17	09/28/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 264 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
49	8	Nordegg C/S - Station Maintenance (19 days). New	10/02/17	10/20/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
50	6	Paul Lake B2 C/S - Station Maintenance (7 days). New	10/13/17	10/23/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 257 E6m3/d. Typical Flow 230-265 E6m3/d.  Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 119 E6m3/d. Typical Flow 125-135 e6m3/d.	Brooke Dillabough	USJR EGAT
51	18	Beiseker C/S - Station Maintenance (2 days). New	10/24/17	10/25/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
52	18	Schrader Creek East #1 - Unit Maintenance (4 days). New	10/30/17	11/02/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT