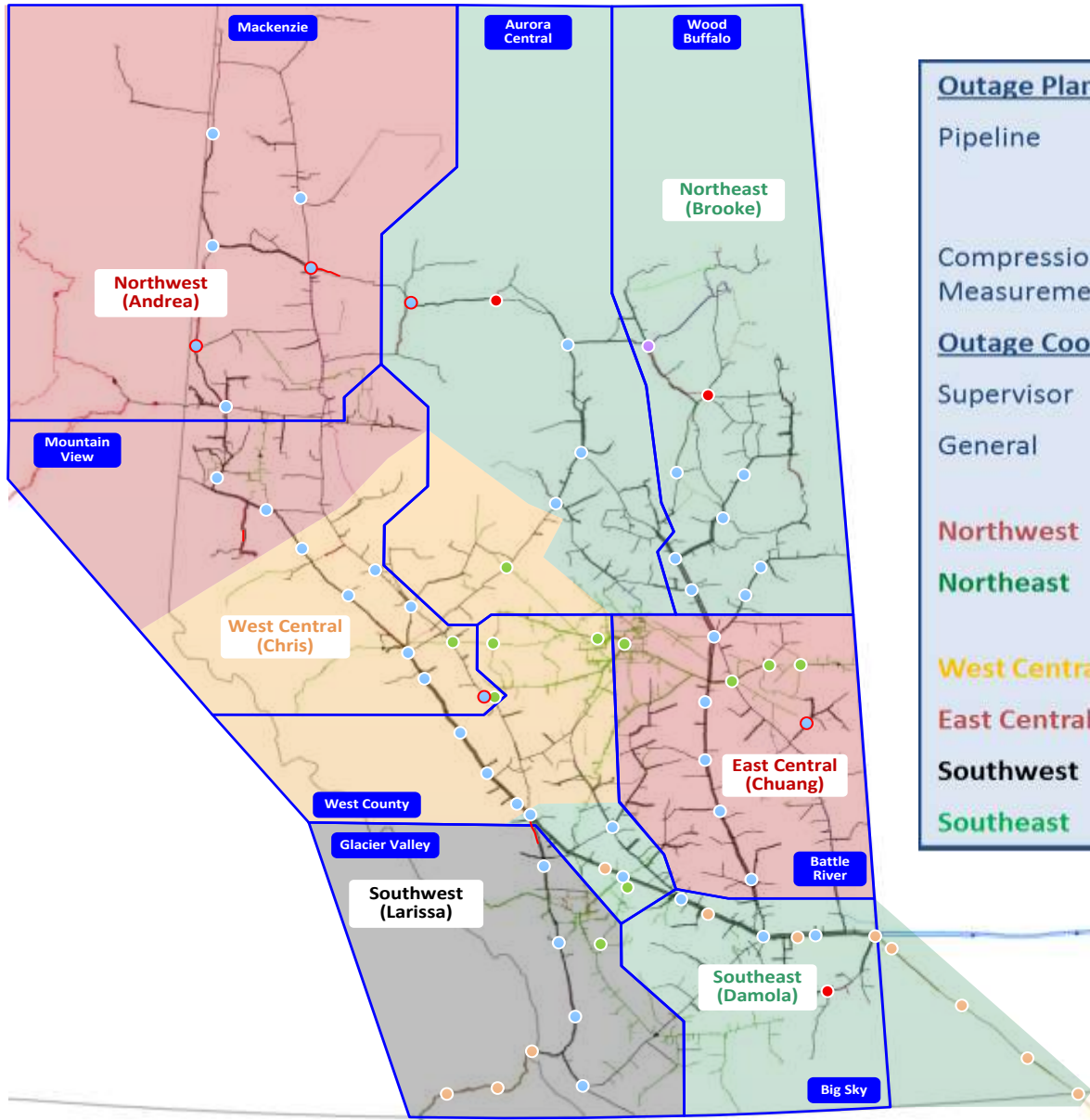


January Monthly Outage Forecast

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.

NGTL & FH MAP



<u>Outage Planning</u>		
Pipeline	Mike Wylie	403.920.7346
	Rahim Ruda	403.920.6360
	Chau Johnston	403.920.6061
Compression/ Measurement	Bruce Hansen	403.920.5613
<u>Outage Coordination</u>		
Supervisor	Jeff Stoffregen	403.920.6337
General	Chuang Li	403.920.5291
	Ashley Lim	403.920.6669
Northwest	Andrea Watters	403.920.7638
Northeast	Brooke Penner (Dillabough)	403.920.5144
West Central	Chris Pho	403.920.6016
East Central	Chuang Li	403.920.5291
Southwest	Larissa Zhang	587.933.0784
Southeast	Damola Daramola	403.920.6604

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

Operational Areas

USJR

Upstream James River Receipt Area

WGAT

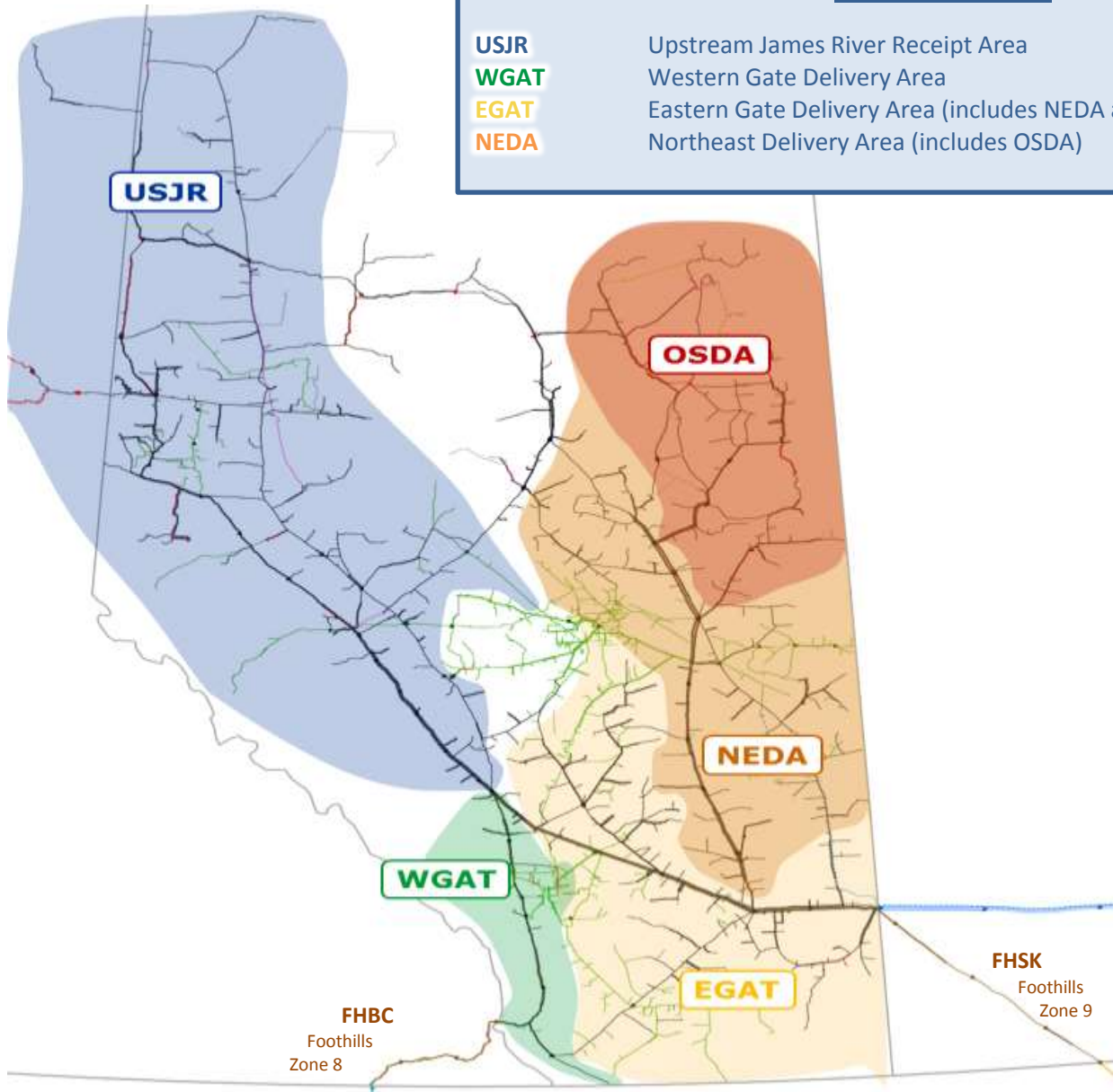
Western Gate Delivery Area

EGAT

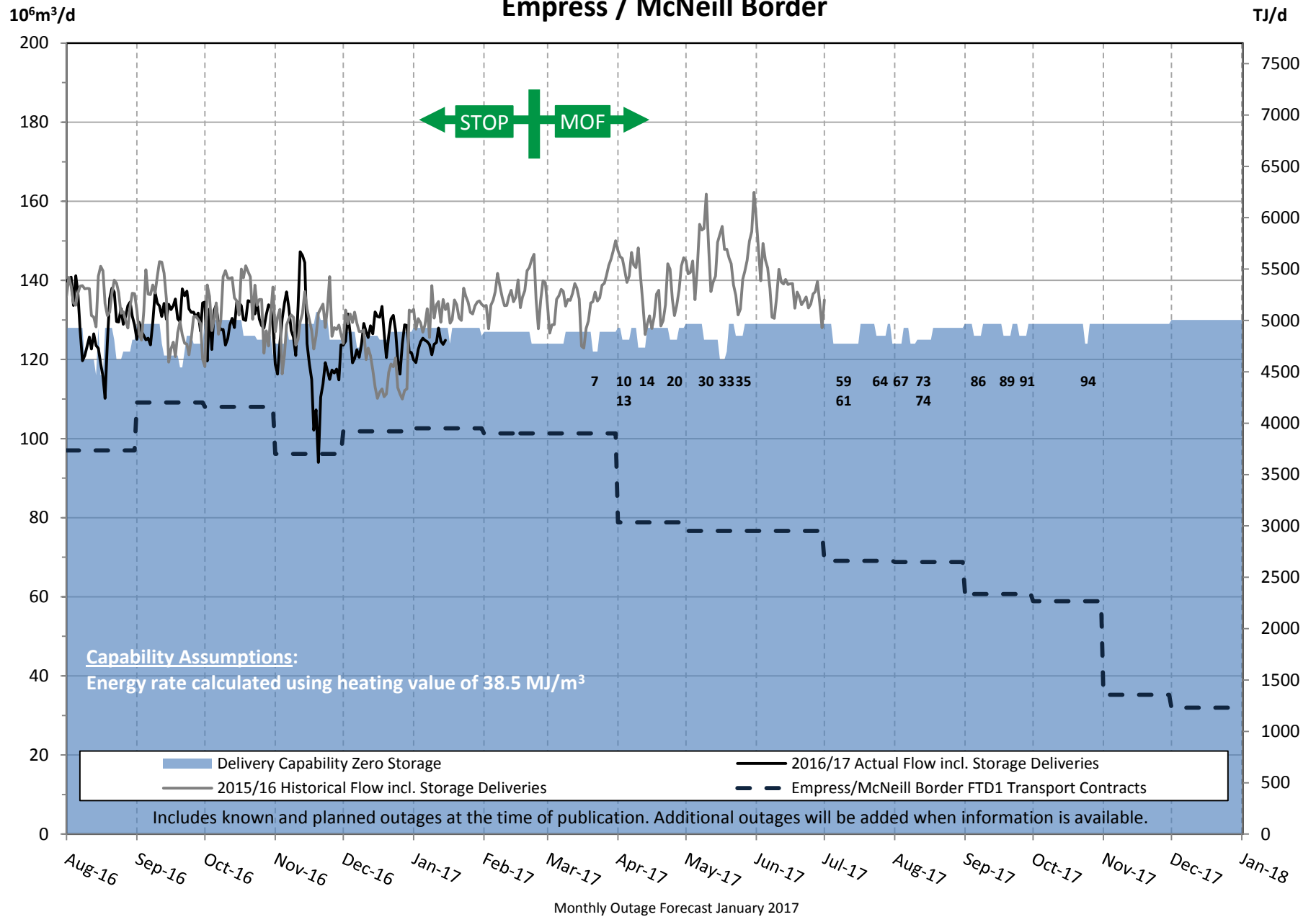
Eastern Gate Delivery Area (includes NEDA and OSDA)

NEDA

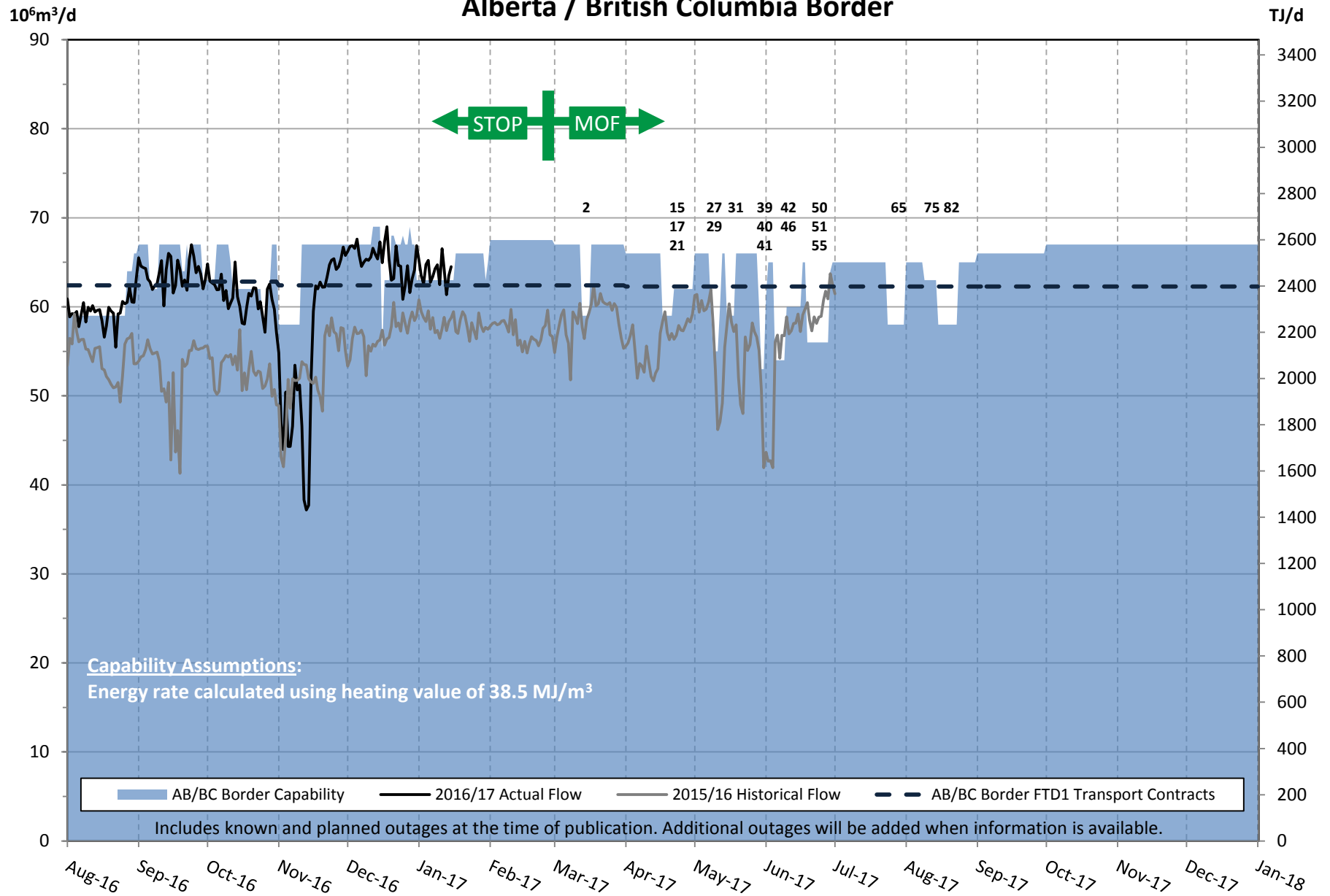
Northeast Delivery Area (includes OSDA)



Empress / McNeill Border



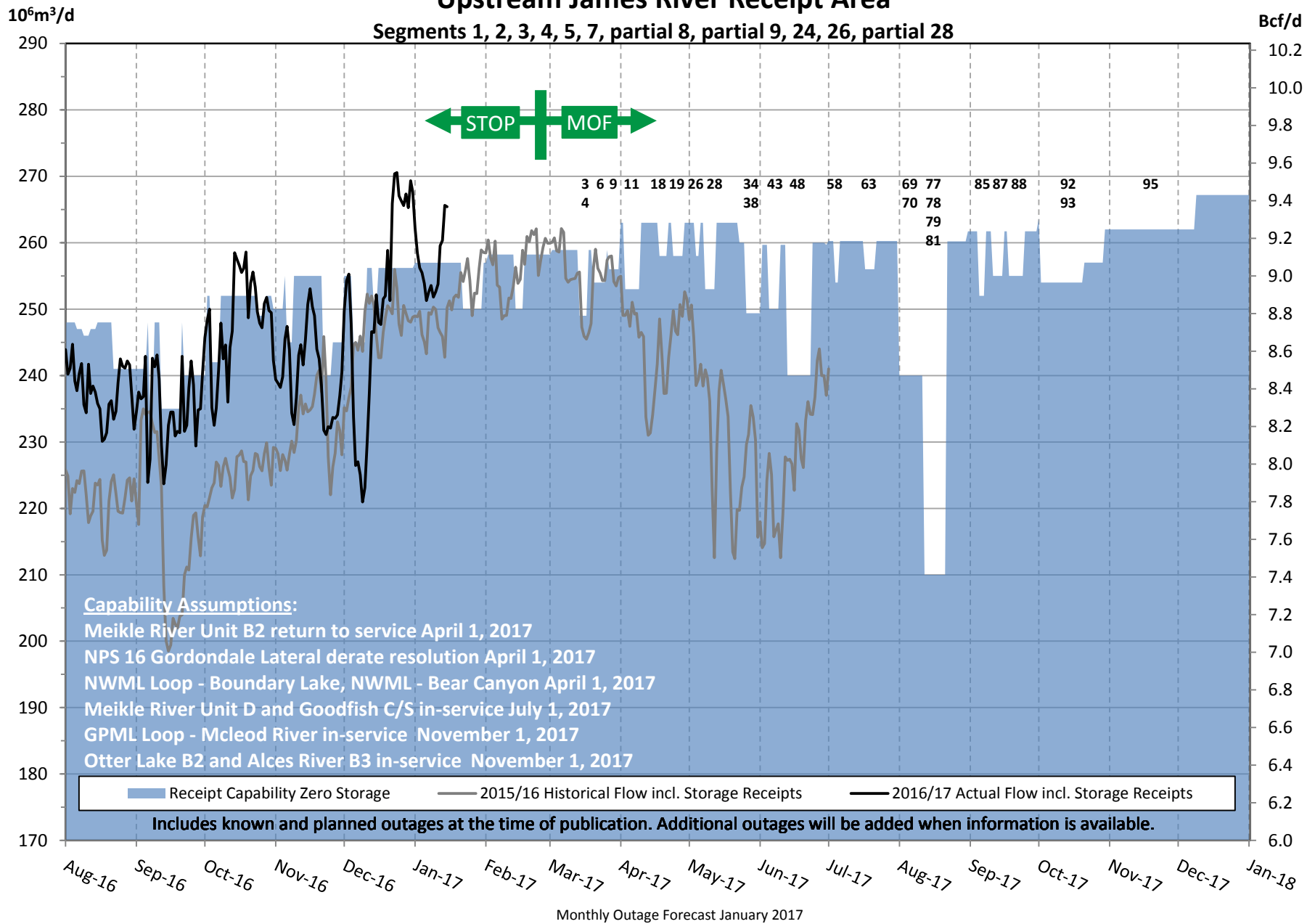
Alberta / British Columbia Border



Monthly Outage Forecast January 2017

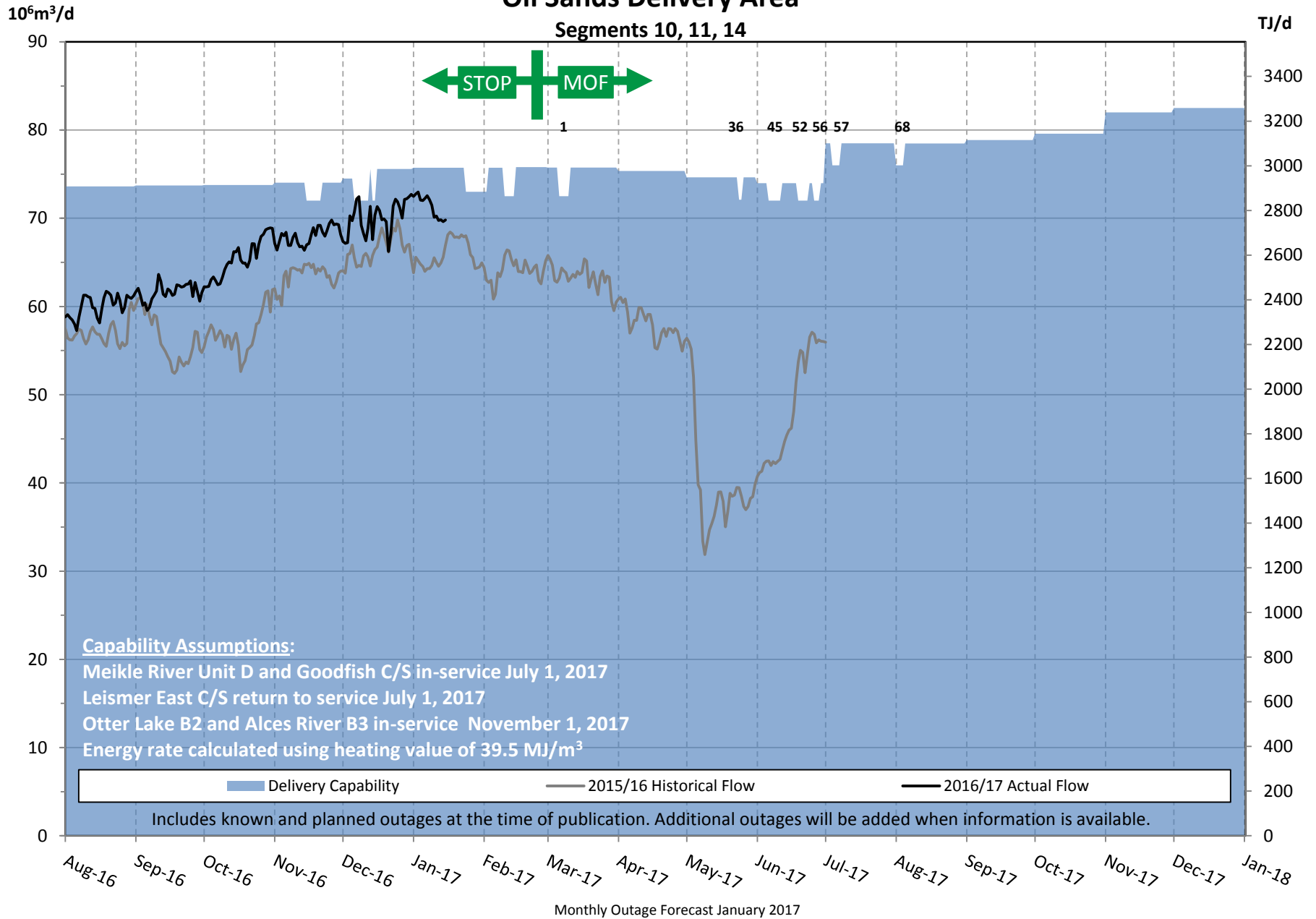
Upstream James River Receipt Area

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



Oil Sands Delivery Area

Segments 10, 11, 14



NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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.

EGAT 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.

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
1	11	NPS 16/20 Kirby Lateral Loop - Pipeline Maintenance (5 days). Dates and Capacity Revised	03/06/17	03/10/17	Potential IT/FT delivery restriction in Segments 11 and 14. Capability 37 E6m3/d. Typical Flow 30-40 E6m3/d.	Brooke Penner (Dillabough)	OSDA
2	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.	Larissa Zhang	WGAT
3	8	Swartz Creek C/S - Station Maintenance (2 days). New	03/14/17	03/15/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 249 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
4	8	Wolf Lake C/S - Station Maintenance (2 days). New	03/16/17	03/17/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 249 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
5	14	NPS 10 Saddle Lake Lateral - Pipeline Maintenance (11 days).	03/19/17	03/29/17	Potential IT/FT delivery restriction at Cold Lake Border meter station. Capability 1400 E3m3/d. Typical Flow 1200-1800 E3m3/d.	Brooke Penner (Dillabough)	Local
6	6	Otter Lake C/S - Station Maintenance (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. Potential IT/FT delivery restriction in the North and East Area Delivery Area. Capability 115 E6m3/d. Typical Flow 80-120 E6m3/d.	Brooke Penner (Dillabough)	USJR NEDA
7	20	Jenner C/S - Station Maintenance (3 days).	03/21/17	03/23/17	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
8	5	NPS 12 Bigstone Lateral - Pipeline Maintenance (6 days). New	03/21/17	03/26/17	Nil required at Grizzly meter station. Typical Flow 85 E3m3/d	Chris Pho	Local
9	8	Clearwater #5 - Unit Maintenance (5 days). New	03/27/17	03/31/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 256 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
10	18	Red Deer C/S - Station Maintenance (3 days).	04/03/17	04/05/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
11	7	Latornell C/S - Station Maintenance (7 days). New	04/03/17	04/09/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 253 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

1/18/2017

Inquiries?
Contact info in outages above

NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

Area Definitions

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

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
12	16	NPS 16 Leming Lake Sales Lateral - Pipeline Modifications (6 days). Dates and Capacity Revised	04/04/17	04/09/17	Potential IT/FT delivery restriction at Mahihkan and Tucker Lake Sales. Capability 7500 E3m3/d. Typical Flow 6000-8000 E3m3/d. Nil required at Jackfish Creek meter station. Typical Flow 30 E3m3/d	Brooke Penner (Dillabough)	Local
13	18	Acme C/S - Station Maintenance (1 day). New	04/06/17	04/06/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
14	18	Crawling C/S - Station Maintenance (4 days).	04/10/17	04/13/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 123 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
15	21	Burton Creek C/S - Station Maintenance (5 days).	04/17/17	04/21/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 59 E6m3/d. Typical Flow 57-64 E6m3/d.	Larissa Zhang	WGAT
16	16	NPS 18 East Lateral - Pipeline Maintenance (7 days). Dates Revised	04/17/17	04/23/17	Delivery restriction at Unity Border meter station. Capability 1800 e3m3/d. Typical Flow 2900 e3m3/d.	Chris Pho	Local
17	22	NPS 24 South Lateral - Pipeline Maintenance (13 days).	04/18/17	04/30/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 62 E6m3/d, Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
18	8	Vetchland C/S - Station Maintenance (4 days). Capacity Revised	04/18/17	04/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 258 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
19	4	NPS 36 NWML Loop # 2 - Boundary Lake Section - Pipeline Modifications (5 days).	04/24/17	04/28/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 258 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
20	18	Princess B #6 - Station Maintenance (4 days). New	04/24/17	04/27/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
21	21	Elko C/S - Station Maintenance (3 days).	04/25/17	04/27/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 62 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Larissa Zhang	FHBC
22	10	NPS 30 Fort McKay Mainline - Pipeline Maintenance (4 days). Dates & Duration Revised	04/27/17	04/30/17	IT/FT delivery restriction required for Horizon Sales, Aurora Sales, Aurora # 2 Sales, Jackpine Creek Sales, Aspen Sales, Wapasu Creek Sales, Kearl Sales and Firebag Sales meter stations. Capability = 13000 E3m3/d. Typical Flow 15000 to 16000 E3m3/d.	Brooke Penner (Dillabough)	Local

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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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.

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
23	15	Dusty Lake, Gadsby A & B C/S - Station Maintenance (3 days). Capacity Revised	05/01/17	05/03/17	Potential IT/FT delivery restriction in the North and East Delivery Area. Capability 90 E6m3/d. Typical Flow 60-100 E6m3/d.	Chaung Li	NEDA
24	13	NPS 10 Redwater Lateral - Pipeline Modifications (6 days within window). New	05/01/17	05/15/17	Nils required at Big Bend, Lawrence Lake North and Dancing Lake meter stations. Typical Flow 150 E3m3/d.	Rahim Ruda	Local
25	10	NPS 24 Fort McKay Mainline - Pipeline Maintenance (4 days). Dates and Duration Revised	05/03/17	05/06/17	IT/FT delivery restriction required for Aspen Sales, Wapasu Creek Sales, Kearl Sales and Firebag Sales meter stations. Capability = 8500 E3m3/d. Typical Flow 10000 to 13000 E3m3/d.	Brooke Penner (Dillabough)	Local
26	6	Woodenhouse B2 C/S - Station Maintenance (2 days). New	05/04/17	05/05/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 258 E6m3/d. Typical Flow 230-265 e6m3/d. Potential IT/FT delivery restriction in the North and East Delivery Area. Capability 95 E6m3/d. Typical Flow 60-100 E6m3/d.	Brooke Penner (Dillabough)	USJR NEDA
27	21	Moyie C/S - Station Maintenance (5 days).	05/08/17	05/12/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 60 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Larissa Zhang	FHBC
28	7	Berland River C/S - Station Maintenance (5 days).	05/08/17	05/12/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 253 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
29	21	Turner Valley C/S - Station Maintenance (3 days).	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.	Larissa Zhang	WGAT
30	19	NPS 34 Eastern Alberta System Mainline Loop & Central Alberta System Mainline - Pipeline Maintenance (10 days).	05/09/17	05/18/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill Capability 125 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
31	21	Turner Valley #1 - Unit Maintenance (4 days).	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.	Larissa Zhang	WGAT
32	13	NPS 10 Redwater Lateral - Pipeline Modifications (6 days within window). New	05/15/17	05/31/17	Nils required at Redwater and Redwater B Sales meter stations. Typical Flow 1000 E3m3/d. Nil required at Opal meter station. Typical Flow 0 E3m3/d.	Rahim Ruda	Local
33	18	Hussar C/S - Station Maintenance (4 days).	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

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

1/18/2017

Inquiries?
Contact info in outages above

NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

Area Definitions

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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.
FHBC	Foothills Zone 8
FHSK	Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
34	5	Fox Creek C/S - Station Maintenance (3 days).	05/23/17	05/25/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 260 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
35	18	Schrader Creek East #3 - Unit Maintenance (4 days). New	05/23/17	05/26/17	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
36	11	Field Lake A & B C/S - Station Maintenance (2 days).	05/24/17	05/25/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 72 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Penner (Dillabough)	OSDA
37	20	NPS 10 Etzikom Lateral - Pipeline Maintenance (8 days). New	05/25/17	06/01/17	Nils required at South Saskatchewan River; Bullshead; Murray Lake; Etzikom A; Etzikom B; Etzikom D. Typical Flow 350 E3m3/d.	Damola Daramola	Local
38	7	Gold Creek C/S - Station Maintenance (7 days).	05/26/17	06/01/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 249 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
39	21	Crowsnest A C/S - Station Maintenance (3 days).	05/29/17	05/31/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 60 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Larissa Zhang	FHBC
40	21	Crowsnest A & B C/S - Station Maintenance (2 days).	05/30/17	05/31/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 53 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Larissa Zhang	FHBC
41	21	Crowsnest B C/S - Station Maintenance (1 day).	06/01/17	06/01/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 61 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
42	21	Winchell Lake C/S - Station Maintenance (5 days).	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
43	8	Wolf Lake C/S - Station Maintenance (5 days).	06/05/17	06/09/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 250 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
44	15	NPS 16 North Lateral Extension - Pipeline Maintenance (9 days). New	06/05/17	06/13/17	Potential IT/FT delivery restriction in in the North and East Delivery Area. Capability 95 E6m3/d. Typical flow 60-100 E6m3/d.	Chuang Li	NEDA

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

1/18/2017

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FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
45	16	NPS 16 Leming Lake Sales Lateral - Pipeline Modifications (6 days). Dates and Capacity Revised	06/06/17	06/11/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 72 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Penner (Dillabough)	OSDA
46	21	NPS 42 Western Alberta System Mainline Loop - Pipeline Maintenance (11 days).	06/06/17	06/16/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 60 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
47	23	Wainwright C/S - Station Maintenance (2 days).	06/12/17	06/13/17	Potential IT/FT delivery restriction in Segment 23. Capability 0 E3m3/d. Typical Flow 400-500 E3m3/d.	Chuang Li	Local
48	8	NPS 42 Edson M/L Loop (Edson to Clearwater) - Pipeline Maintenance (11 days). Dates Revised	06/13/17	06/23/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 240 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
49	15	NPS 6 Sullivan Lateral - Pipeline Modifications (6 days within window). New	06/15/17	06/30/17	Nils required at Bloor Lake and Sullivan meter stations. Typical Flow 200 E3m3/d.	Rahim Ruda	Local
50	21	NPS 36 Foothills Zone 8 Segment 2 - Pipeline Maintenance (5 days).	06/19/17	06/23/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 58 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Larissa Zhang	FHBC
51	21	NPS 36 Western Alberta System Mainline - Pipeline Maintenance (10 days).	06/19/17	06/28/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 56 E6m3/d, Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
52	11	Behan C/S - Station Maintenance (5 days). New	06/19/17	06/23/17	Potential IT/FT delivery restriction in Segments 11 & 14. Capability 38 E6m3/d. Typical Flow 30-40 E6m3/d.	Brooke Penner (Dillabough)	OSDA
53	20	NPS 8 Vale East Lateral - Pipeline Modifications (7 days within window). Dates and Duration Revised	06/19/17	06/27/17	Nil required at Vale East meter station. Typical Flow 330 E3m3/d.	Rahim Ruda	Local
54	20	NPS 10 Vale Lateral - Pipeline Modifications (7 days within window). Dates and Duration Revised	06/19/17	06/27/17	Nils required at Vale and Vale East meter stations. Typical Fow 500 E3m3/d.	Rahim Ruda	Local
55	21	NPS 36 Foothills Zone 8 Segment 3 - Pipeline Maintenance (5 days).	06/25/17	06/29/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 64 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Damola Daramola	FHBC

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
56	11	Behan C/S - Station Maintenance (3 days). New	06/26/17	06/28/17	Potential IT/FT delivery restriction in Segments 11 & 14. Capability 38 E6m3/d. Typical Flow 30-40 E6m3/d.	Brooke Penner (Dillabough)	OSDA
57	12	Hanmore Lake B & C C/S - Station Maintenance (4 days).	07/04/17	07/07/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 76 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Penner (Dillabough)	OSDA
58	8	Clearwater C/S - Station Maintenance (2 days).	07/04/17	07/05/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 254 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
59	19	NPS 42 Foothills Zone 6 Alberta - Pipeline Maintenance (12 days). Dates and Duration Revised	07/05/17	07/16/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill Capability 124 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
60	16	NPS 14 Flat Lake Lateral - Pipeline Maintenance (11 days).	07/05/17	07/15/17	Nil required at West Viking meter station. Typical Flow 60 E3m3/d.	Chuang Li	Local
61	18	Acme C/S - Station Maintenance (5 days).	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
62	20	NPS 8 Dorothy Lateral and NPS10 Cessford-Burfield Lateral - Pipeline Modifications (8 days within window). Dates and Duration Revised	07/15/17	07/30/17	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
63	8	Clearwater #1 - Unit Maintenance (5 days). New	07/17/17	07/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 256 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
64	18	Schrader Creek West #2 - Unit Maintenance (5 days).	07/24/17	07/28/17	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
65	21	NPS 36 Foothills Zone 7 - Pipeline Maintenance (8 days).	07/24/17	07/31/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 58 E6m3/d, Typical flow 57-64 E6m3/d.	Damola Daramola	WGAT
66	16	NPS 6 Killam Lateral - Pipeline Modifications (6 days). New	07/24/17	07/29/17	Nils required at Killam meter station. Typical Flow 100 E3m3/d.	Rahim Ruda	Local

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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.
EGAT	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.
FHBC	Foothills Zone 8
FHSK	Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
67	19	NPS 36 Eastern Alberta System Mainline Loop #2- Pipeline Maintenance (5 days).	07/31/17	08/04/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill Capability 124 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
68	12	Hanmore Lake B & C C/S - Station Maintenance (4 days). Capacity Revised	08/01/17	08/04/17	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 76 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Penner (Dillabough)	OSDA
69	7	NPS 36 Grande Prairie Mainline Loop - Pipeline Modifications (6 days within window).	08/01/17	08/11/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 240 E6m3/d. Typical Flow 230-265 e6m3/d.	Andrea Watters	USJR
70	7	NPS 42 Grande Prairie Mainline Loop - Pipeline Modifications (6 days within window).	08/01/17	08/11/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 240 E6m3/d. Typical Flow 230-265 e6m3/d. Nil required at Gold Creek South meter station. Typical Flow 1300 E3m3/d,	Chris Pho	USJR Local
71	21	NPS 10 Olds Lateral- Pipeline Modifications (6 days within window). New	08/01/17	08/15/17	Nils required at Olds, Netook meter stations. Typical Flow 1050 E3m3/d. Nil required at Deadrick Creek Sales meter station. Typical Flow 20 E3m3/d.	Rahim Ruda	Local
72	21	NPS 12 Burnt Timber Lateral - Pipeline Modifications (6 days within window). New	08/05/17	08/15/17	Nils required at Burnt Timber Sales meter station. Typical Flow 100 E3m3/d.	Rahim Ruda	Local
73	18	Schrader Creek East & West C/S - Station Maintenance (3 days).	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
74	19	NPS 42 Eastern Alberta System Mainline Loop #3 - Pipeline Maintenance (9 days). Dates Revised	08/09/17	08/17/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill Capability 125 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
75	21	NPS 36 Foothills Zone 8 Segment 4 - Pipeline Maintenance (6 days).	08/09/17	08/14/17	Potential IT/FT receipt restriction on Foothills Zone 8. Capability 63 E6m3/d. Typical Flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
76	19	NPS 42 Foothills Pipeline Zone 9 - Pipeline Maintenance (9 days).	08/09/17	08/17/17	Potential IT/FT receipt restriction on Foothills Zone 9. Capability 35-50 E6m3/d. Typical Flow 40-45 E6m3/d.	Damola Daramola	FHSK
77	7	NPS 48 Edson Mainline Loop 3 - Pipeline Modifications (10 days).	08/12/17	08/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 210 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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.

EGAT 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.

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
78	7	NPS 36/42 Grande Prairie Mainline Loop - Pipeline Modifications (6 days within window).	08/12/17	08/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 210 E6m3/d. Typical Flow 230-265 e6m3/d. Will be aligned with NPS 48 Edson Mainline Loop 3 (Outage 77).	Chris Pho	USJR
79	7	NPS 36 Grande Prairie Mainline Loop - Pipeline Modifications (6 days within window).	08/12/17	08/21/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 220 E6m3/d. Typical Flow 230-265 e6m3/d. Will be aligned with NPS 48 Edson Mainline Loop 3 (Outage 77).	Andrea Watters	USJR
80	21	Drywood C/S - Station Maintenance (5 days).	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
81	8	Swartz Creek C/S - Station Maintenance (5 days).	08/14/17	08/18/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 250 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
82	21	NPS 42 Western Alberta System Mainline - Pipeline Maintenance (9 days).	08/15/17	08/23/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 58 E6m3/d, Typical flow 57-64 E6m3/d.	Damola Daramola	WGAT
83	15	NPS 24/30 North Lateral Extension Loop 2 - Pipeline Maintenance (9 days). New	08/21/17	08/29/17	Potential IT/FT delivery restriction in the North and East Delivery Area. Capability 80 E6m3/d. Typical flow 60-100 E6m3/d.	Chuang Li	NEDA
84	19	NPS 42 Foothills Pipeline Zone 9 - Pipeline Maintenance (7 days). New	08/22/17	08/28/17	Potential IT/FT receipt restriction on Foothills Zone 9. Capability 35-50 E6m3/d. Typical Flow 40-45 E6m3/d.	Damola Daramola	FHSK
85	5	Knight C/S - Station Maintenance (3 days).	09/05/17	09/07/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 252 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
86	18	Beiseker #1 - Station Maintenance (4 days). New	09/05/17	09/08/17	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
87	6	Woodenhouse A1 & B2 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 255 E6m3/d. Typical Flow 230-265 e6m3/d. Potential IT/FT delivery restriction in the North and East Delivery Area. Capability 93 E6m3/d. Typical Flow 60-100 E6m3/d.	Brooke Penner (Dillabough)	USJR NEDA

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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NGTL System & Foothills Pipeline - Monthly Outage Forecast January 2017

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.

EGAT 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.

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
88	7	Latornell C/S - Station Maintenance (7 days).	09/18/17	09/24/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 255 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
89	18	Schrader Creek East #1 - Unit Maintenance (4 days). Dates Revised	09/18/17	09/21/17	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
90	7	NPS 42 Grande Prairie Mainline Loop - Pipeline Modifications (12 days). New	09/20/17	10/01/17	Nil required at Mayberne #2 meter station. Typical Flow 550 E3m3/d.	Chris Pho	Local
91	18	Beiseker #2 - Station Maintenance (4 days). New	09/25/17	09/28/17	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
92	8	Nordegg C/S - Station Maintenance (19 days).	10/02/17	10/20/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 254 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
93	6	Paul Lake B2 C/S - Station Maintenance (14 days). Capability & Area of Impact Revised	10/16/17	10/29/17	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 North and East Delivery Area. Capability 95 E6m3/d. Typical Flow 60-100 E6m3/d.	Brooke Penner (Dillabough)	USJR NEDA
94	18	Beiseker C/S - Station Maintenance (2 days).	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
95	8	Clearwater #5 - Unit Modifications (40 days).	10/30/17	12/08/17	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 262 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
96	17	NPS 12 Ghostpine Lateral - Pipeline Modifications (6 days within window). Dates Revised	11/01/17	11/15/17	Nils required at Carbon West & Gatine meter stations. Typical Flow 600 E3m3/d.	Rahim Ruda	Local
97	16	NPS 8 Kessler Lateral - Pipeline Modifications (6 days within window). New	11/15/17	11/30/17	Nils required at Provost Kessler and Provost West meter stations. Typical Flow 130 E3m3/d.	Rahim Ruda	Local

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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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.

EGAT 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.

FHBC Foothills Zone 8

FHSK Foothills Zone 9

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
98	23	NPS 8 Wainwright East Lateral - Pipeline Modifications (6 days within window). New	12/01/17	12/15/17	Nil required at Wainwright East meter station. Typical Flow 35 E3m3/d.	Rahim Ruda	Local

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry

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