

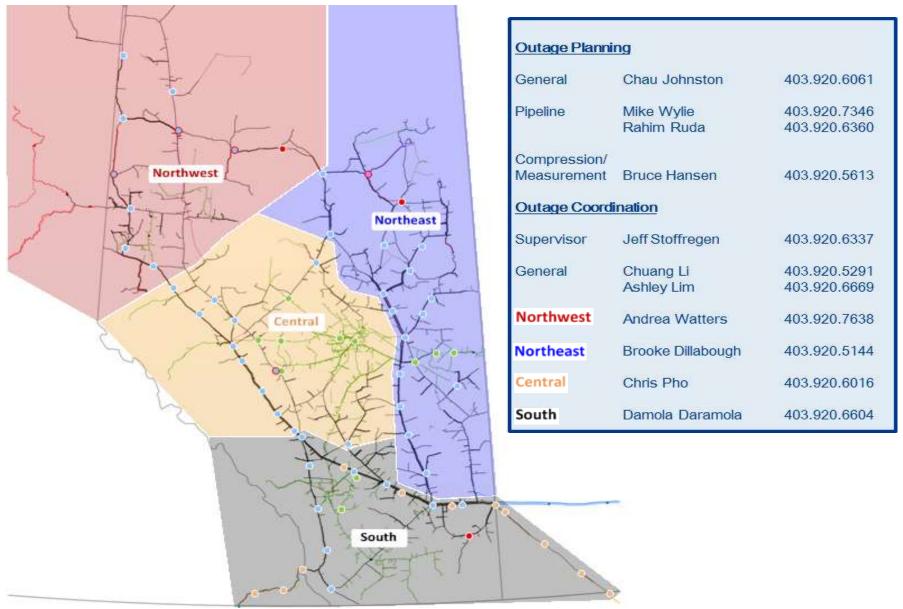
# Monthly Outage Forecast April, 2016



## **April 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.

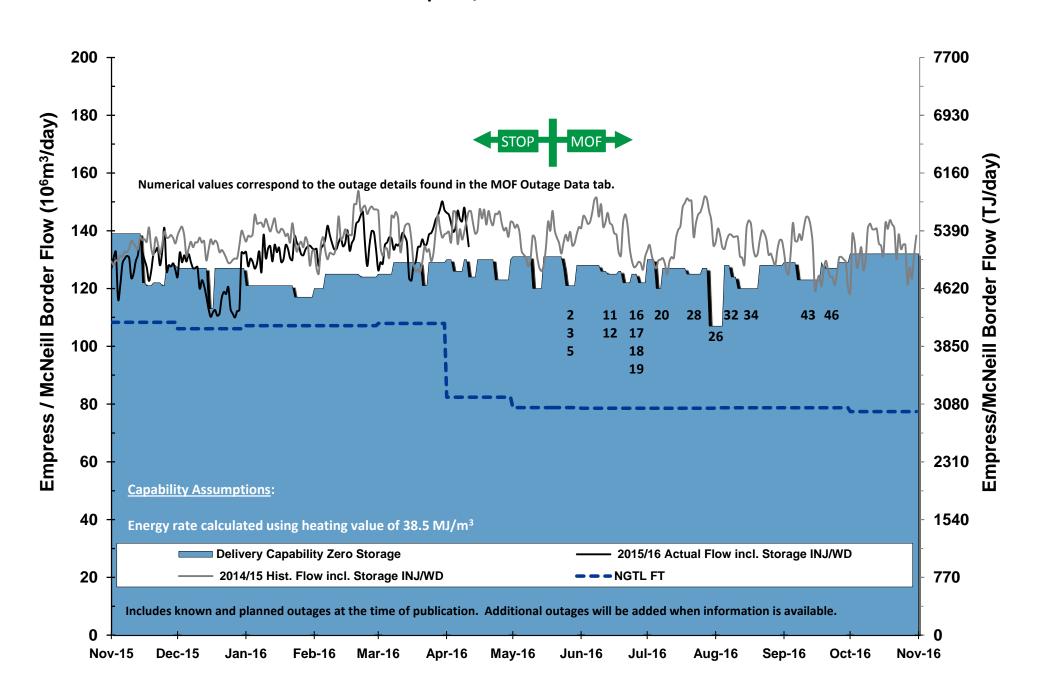
NGTL MAP



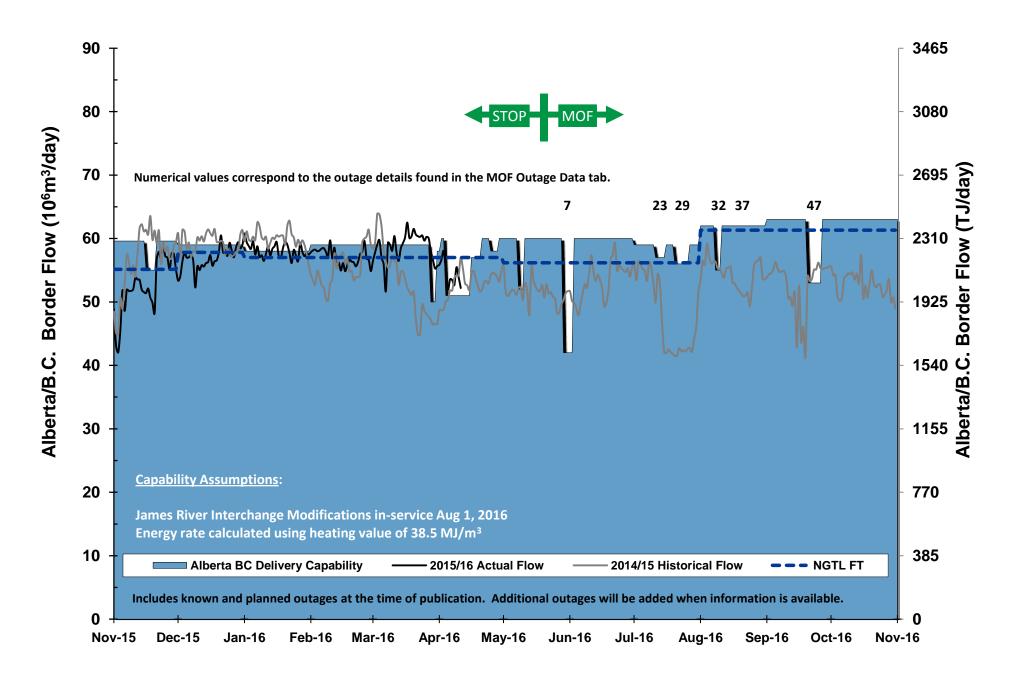
For NGTL System Facilities Segment codes please view link below

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

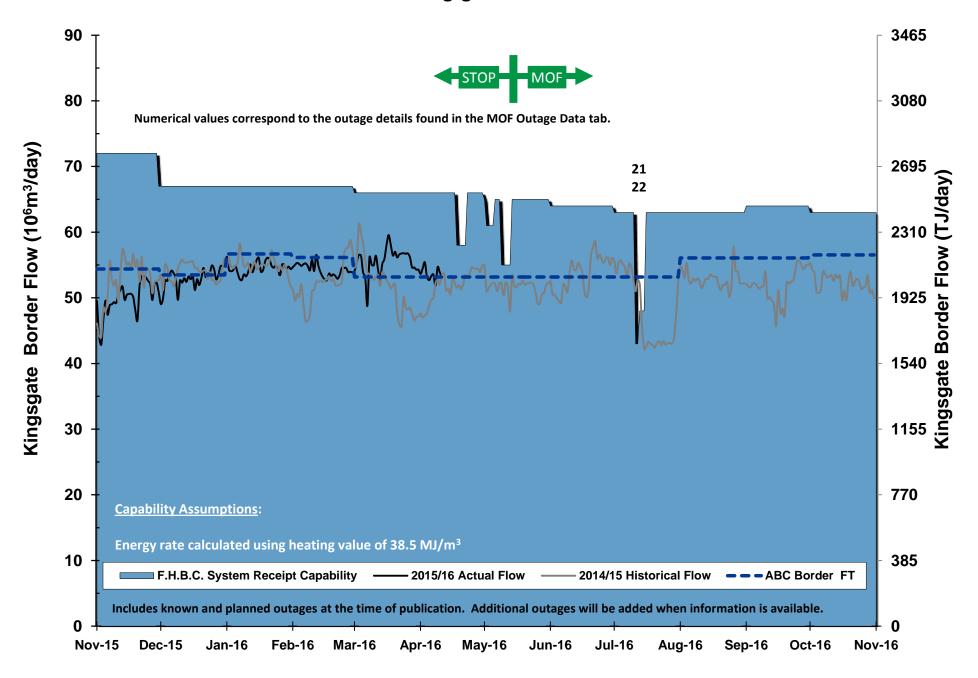
#### **Empress/McNeill Border**



Alberta/B.C. Border

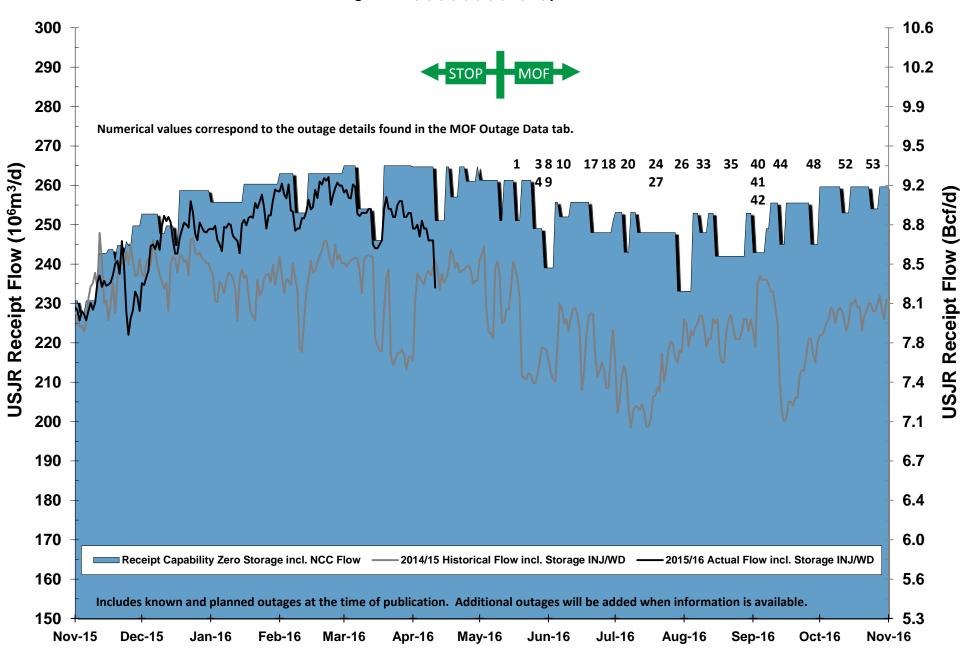


#### **Kingsgate Border**



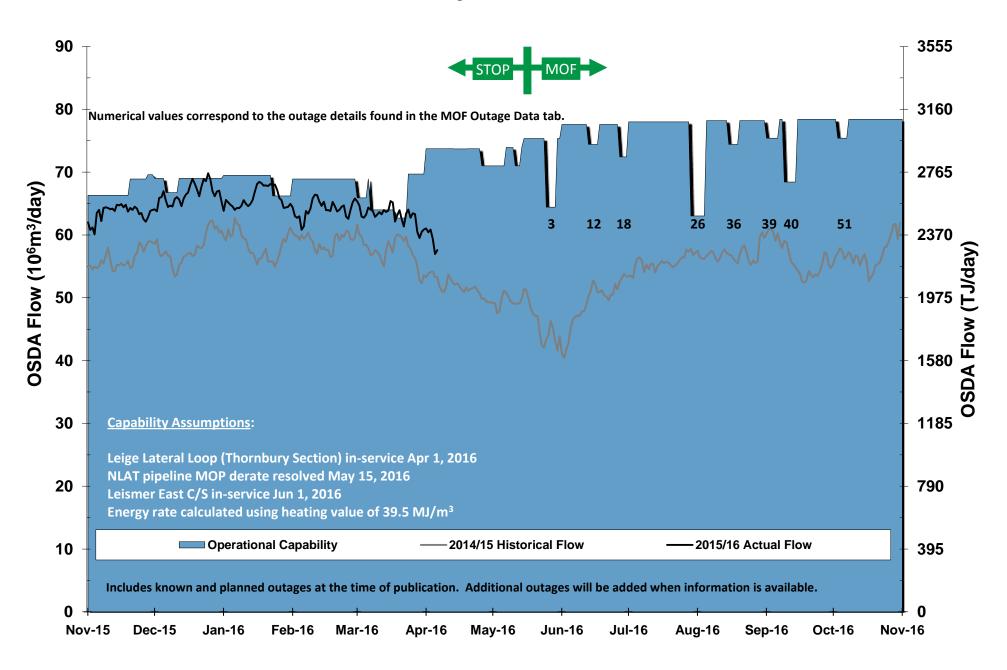
#### **Upstream of James River Outlook**

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



### Oil Sands Delivery Area (OSDA) Outlook

Segments 10, 11,14



	SEG	DATES					
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
1	8	Swartz Creek C/S - Station Maintenance (3 days).	05/17/16	05/19/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 247 E6m3/d, Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
2	18	Schrader Creek #3 - Station Maintenance (3 days).	05/24/16	05/26/16	Potential IT/FT delivery restriction at EGAT. Capability 127 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
3	3	NPS 48 Tanghe Creek Lateral Loop 2 & Chinchaga Loop 3 - Pipeline Maintenance (5 days). Capacity Revised	05/25/16	05/29/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 63 E6m3/d. Typical Flow 60-70 E6m3/d.  Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 249 E6m3/d, Typical Flow 230-265 E6m3/d.  Potential IT/FT delivery at EGAT. Capability 121 E6m3/d.Typical Flow 125-135 e6m3/d.	Andrea Watters	OSDA USJR EGAT
4	- 3	Hidden Lake North C/S - Station Maintenance (5 days).  Dates Revised	05/25/16	05/29/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 253 E6m3/d. Typical Flow 240-265 E6m3/d.	Andrea Watters	USJR
5	18	NPS 34 Eastern Alberta System (EAS) Mainline- Pipeline Maintenance (7 days).	05/25/16	05/31/16	Potential IT/FT delivery restriction at EGAT. Capability 128 E6m3/d. Typical Flow 125 -135 e6m3/d.	Damola Daramola	EGAT
6	16	NPS 10 Irish Lateral - Pipeline Modifications 7 days). Dates Revised	05/28/16	06/03/16	Nil required at Irish and Morecambe. Typical Flow 230 E3m3/d. Nil required at Elk Point and Landon Lake Sales. Typical Flow 30 E3m3/d.	Rahim Ruda	Local
7	18	NPS 36 Foothills Pipeline Zone 7 - Pipeline Modifications. (5 days) Dates Revised	05/29/16	06/02/16	Potential IT/FT delivery restriction at ALTBC. Capability 42 E6m3/d. Typical Flow 55-60 E6m3/d.	Damola Daramola	ALTBC
8	/	Gold Creek C/S - Station Maintenance (5 days). Dates Revised	05/30/16	06/03/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 239 E6m3/d. Typical Flow 230-265 E6m3/d.	Andrea Watters	USJR
9	9	Lodgepole C/S - Station Maintenance (5 days). Dates Revised	05/30/16	06/03/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 251 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
10	ı x	Wolf Lake C/S - Station Maintenance (5 days). Dates Revised	06/06/16	06/10/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 252 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR

	SEG		DAT	ES			
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
11	18	NPS 48 Edson Mainline Loop #3 - Pipeline Modifications (10 days). Dates, Duration and Capacity Revised	06/10/16	06/19/16	Potential IT/FT delivery restriction at EGAT. Capability 126 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
12	6	Woodenhouse B2 C/S - Station Maintenance (5 days).  Dates Revised	06/13/16	06/17/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 73 E6m3/d. Typical Flow 60-70 E6m3/d. Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d.	Brooke Dillabough	OSDA EGAT
13	7	NPS 24 Cutbank Lateral Loop - Pipeline Maintenance (7 days).	06/14/16	06/23/16	Potential IT/FT receipt restriction at Musreau Lake, Musreau Lake West, Musreau Lake No 2, Musreau Lake North, Cutbank River, Copton Creek, Narraway River, Nose Mountain and Bilbo meter stations. Capability 9-14 e6m3/d. Typical Flow 15-20 e6m3/d.  Nil required at Wapiti Centre Sales and Wapiti South Sales. Typical Flow 60 e3m3/d.	Andrea Watters	Local
14	15	NPS 8 Castor Lateral - Pipeline Modifications (6 days within window).	06/15/16	06/30/16	Nil required at Castor. Typical flow 130 E3m3/d.	Rahim Ruda	Local
15	2	NPS 30 Peace River Mainline Loop - Pipeline Modifications (7 days within window). New	06/15/16	07/15/16	Nil required at Notikewan River North, Lovet Creek, Hotchkiss Northeast B, Hotchkiss Northeast C. Typical flow 170 E3m3/d	Andrea Watters	Local
16	18	Hussar A & B C/S - Station Maintenance (3 days). Dates Revised	06/20/16	06/23/16	Potential IT/FT delivery restriction at EGAT. Capability 122 E6m3/d, Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
17	18	NPS 48 Edson Mainline Loop #3 - Pipeline Modifications (10 days). Dates and Duration Revised	06/20/16	06/29/16	Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	EGAT USJR
18	6	Otter Lake C/S - Station Maintenance (4 days).	06/27/16	06/30/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 251 E6m3/d. Typical Flow 230-265 E6m3/d. Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical Flow 60-70 E6m3/d. Potential IT/FT delivery restriction at EGAT. Capability 123 E6m3/d. Typical Flow 125-135 e6m3/d.	Andrea Watters	USJR OSDA EGAT
19	18	Acme C/S - Station Maintenance (4 days). Dates Revised	06/27/16	06/30/16	Potential IT/FT delivery restriction at EGAT. Capability 122 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
20	8	Clearwater C/S - Station Maintenance (3 days).	07/05/16	07/07/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical Flow 125-135 e6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 243 E6m3/d, Typical Flow 230-265 E6m3/d.	Chris Pho	EGAT USJR

C/S Compressor Station
M/S Meter Station
Shade - indicates new or changed
Inquiries? Contact info in outages above.

EGAT - East Gate (Empr/McNeill) ALTBC - Alta/B.C. Border USJR - Upstream of James River OSDA - Oil Sands Delivery Area

	SEG		DAT	ES			
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
21	21	Crowsnest A & B C/S - Station Maintenance (2 days).	07/11/16	07/12/16	Potential IT/FT receipt restriction on FHBC. Capability 43 E6m3/d. Typical Flow 40-65 E6m3/d.	Damola Daramola	FHBC
22	21	Crowsnest A C/S - Station Maintenance (5 days).	07/11/16	07/15/16	Potential IT/FT receipt restriction on FHBC. Capability 48 E6m3/d. Typical Flow 40-65 E6m3/d.	Damola Daramola	FHBC
23	21	Schrader Creek #2 - Unit Maintenance (5 days).	07/11/16	07/15/16	Potential IT/FT delivery restriction at ALTBC. Capability 57 E6m3/d. Typical Flow 59-63 E6m3/d.	Damola Daramola	ALTBC
24	8	Nordegg C/S - Station Maintenance (18 days).	07/11/16	07/28/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
25	12	NPS 10 Baptiste Lateral - Pipeline Modifications (6 days within window).	07/15/16	07/31/16	Nil required at Spear Lake. Typical Flow 20 E3m3/d.	Rahim Ruda	Local
26	3	NPS 48 Chinchaga Lateral Loop - Pipeline Modifications (7 days in window). New	07/15/16	08/15/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 233 E6m3/d. Typical Flow 230-265 E6m3/d. Potential IT/FT delivery restriction in Segments 10, 11 and 14. Capability 63 E5m3/d. Typical Flow 60-70 E6m3/d. Potential IT/FT delivery restriction at EGAT. Capability 107 E6m3/d. Typical Flow 125 -135 e6m3/d	Andrea Watters	USJR OSDA EGAT
27	8	Clearwater #1 - Unit Maintenance (4 days).	07/18/16	07/21/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
28	18	NPS 48 Eastern Alberta System (EAS) Mainline Loop #4 - Pipeline Maintenance (7 days).	07/19/16	07/25/16	Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d. Typical Flow 230-265 E6m3/d.	Rahim Ruda	EGAT
29	21	NPS 36 Western Alberta System (WAS) Mainline - Pipeline Maintenance (7 days).	07/20/16	07/26/16	Potential IT/FT delivery restriction at ALTBC. Capability 56 E6m3/d. Typical Flow 59-63 E6m3/d.	Damola Daramola	ALTBC
30	21	NPS 18/20 Waterton Montana Lateral Loop - Pipeline Maintenance (7 days).	07/23/16	07/27/16	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3. Typical Flow 1500- 2500 E3.	Damola Daramola	Local
31	21	Drywood C/S - Station Maintenance (3 days).	07/26/16	07/28/16	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3m3/d. Typical Flow 1500- 2500 E3m3/d.	Damola Daramola	Local

	SEG	DATES					
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
32	18	Schrader Creek East & West - Station Maintenance (3 days). Capacity Revised	08/08/16	08/10/16	Potential IT/FT delivery restriction at EGAT. Capability 124 E6m3/d. Typical Flow 125-135 E6m3/d. Potential IT/FT delivery restriction at ALTBC. Capability 55 E6m3/d. Typical Flow 59-63 E6m3/d.	Damola Daramola	EGAT ALTBC
33	4	Alces River C/S - Station Maintenance (4 days).	08/08/16	08/11/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d. Typical Flow 230-265 E6m3/d.	Andrea Watters	USJR
34	18	NPS 42 Foothills Pipeline Zone 6 - Pipeline Maintenance (10 days).	08/11/16	08/20/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical Flow 125-135 E6m3/d.	Chris Pho	EGAT
35	8	Swartz Creek C/S - Station Maintenance (12 days).	08/15/16	08/28/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 242 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR
36	12	NPS 24 Flat Lake Lateral Loop #3 - Pipeline Modifications (5 days within window).	08/15/16	08/30/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 73 E6m3/d. Typical Flow 60-70 E6m3/d.	Rahim Ruda	OSDA
37	21	NPS 42 Western Alberta System (WAS) Mainline Loop - Pipeline Modifications (6 days). Capacity Revised	08/17/16	08/22/16	Potential IT/FT delivery restriction at ALTBC. Capability 62 E6m3/d. Typical Flow 55-62 E6m3/d.	Chris Pho	ALTBC
38	19	NPS 42 Foothills Pipeline Zone 9 - Pipeline Maintainance (7 days).	08/23/16	08/30/16	Potential IT/FT receipt restriction in SK. Capability 35-50 E6. Typical Flow 40-45 E6.	Damola Daramola	FHSK
39	6	NPS 24 Peerless Lake Lateral Loop - Pipeline Modifications (6 days within window).	09/01/16	09/15/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 74 E6m3/d. Typical Flow 60-70 E6m3/d.	Rahim Ruda	OSDA
40	12	NPS 30 Paul Lake Crossover - Pipeline Modifications (6 days within window).	09/01/16	09/15/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 67 E6m3/d. Typical flow 60-70 E6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 243 E6m3/d. Typical Flow 240-265 E6m3/d.	Rahim Ruda	OSDA USJR
41	9	NPS 30 Western Alberta System (WAS) Mainline - Pipeline Maintenance (5 days within window). New	09/01/16	09/30/16	Nils required at Blue Rapids, Boggy Hall, Sand Creek, Alder Flats, Minnehik Buck Lake and Minnehik Buck Lake B meter stations. Typical Flow 4000 E3m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	Local USJR
42	5	Knight C/S - Station Maintenance (2 days).	09/07/16	09/08/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 249 E6m3/d. Typical Flow 230-265 E6m3/d.	Chris Pho	USJR

C/S Compressor Station
M/S Meter Station
Shade - indicates new or changed
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	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA	
43	18	NPS 42 Edson & Central Alberta System (CAS) Mainline Loop - Pipeline Maintenance (11 days). Dates and Capacity Revised	09/07/16	09/17/16	Potential IT/FT delivery restriction at EGAT. Capability 123 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT	
44	7	Berland River C/S - Station Maintenance (3 days).	09/13/16	09/15/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-265 E6m3/d.	Andrea Watters	USJR	
45	24	NPS 10 Judy Creek Lateral - Pipeline Modifications (6 days within window).	09/15/16	09/30/16	Nil required at Judy Creek and Virginia Hills. Typical Flow 300 E3m3/d. Nil required at Sakwatamau Sales. Typical flow 0 E3m3/d.	Rahim Ruda	Local	
46	18	NPS 34 Eastern Alberta System (EAS) Mainline Loop- Pipeline Maintenance (7 days).	09/19/16	09/25/16	Potential IT/FT delivery restriction at EGAT. Capability 127 E6m3/d. Typical Flow 125 -135 e6m3/d	Damola Daramola	EGAT	
47	21	NPS 42 Western Alberta System (WAS) Mainline Loop - Pipeline Maintenance (7 days).	09/20/16	09/26/16	Potential IT/FT delivery restriction at ALTBC. Capability 53 E6m3/d, Typical Flow 59-63 E6m3/d.	Damola Daramola	ALTBC	
48	7	Latornell C/S - Station Maintenance (4 days).	09/27/16	09/30/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d. Typical Flow 230-265 E6m3/d.	Andrea Watters	USJR	
49	2	NPS 8 Dunvegan West Lateral - Pipeline Modifications (6 days within window).	10/01/16	10/15/16	Nil required at Dunvegan West and Dunvegan West #2. Typical Flow 50 E3m3/d.	Rahim Ruda	Local	
50	15	NPS 30 North Lateral Loop #2 - Pipeline Modifications (5 days within window).	10/01/16	10/15/16	Potential IT/FT delivery restriction in Segments 6, 10-16, 23 & 28. Capability 102 E6m3/d. Typical Flow 95-105 E6m3/d.	Rahim Ruda	OSDA	
51	6	Paul Lake A & B C/S - Station Maintenance (5 days).	10/03/16	10/07/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 74 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA	
52	3	Hidden Lake C/S - Station Maintenance (4 days). New	10/11/16	10/14/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 253 E6m3/d. Typical Flow 230-265 E6m3/d.	Andrea Watters	USJR	
53	8	Clearwater #5 - Unit Maintenance (4 days).	10/24/16	10/27/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 252 E6m3/d, Typical Flow 230-265 E6m3/d.	Chris Pho	USJR	

	SEG		DAT	ES			
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
54	20	NPS 10/12 Tide Lake Lateral - Pipeline Modifications (6 days within window). New	12/01/16		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.	Rahim Ruda	Local
55	20	NPS 8 Dorothy Lateral and NPS10 Cessford-Burfield Lateral - Pipeline Modifications (6 days within window). New	12/01/16		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
56		NPS 42 Foothills Pipeline Zone 6 - Pipeline Maintainance (8 days). Dates Revised	2017	I /(11/	Potential IT/FT delivery restriction at EGAT. Capability 125-135 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
57	1 /4	NPS 10 Greencourt Lateral - Pipeline Maintenance (11 days). Dates revised	2017	2017	Nil required at Greencourt. Typical Flow 20 E3m3/d.	Rahim Ruda	Local