

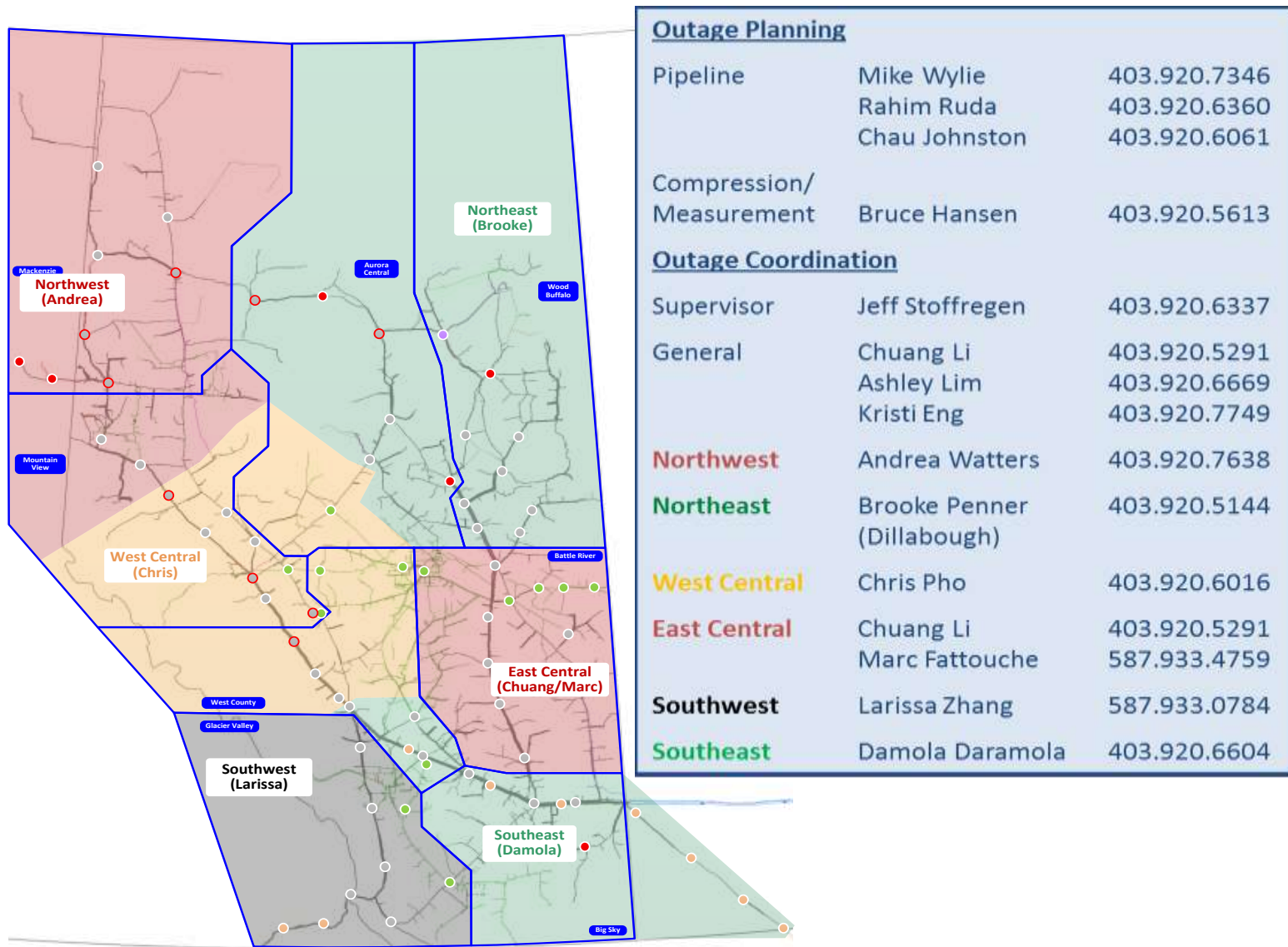


# NGTL System & Foothills Pipeline Monthly Outage Forecast May 2017

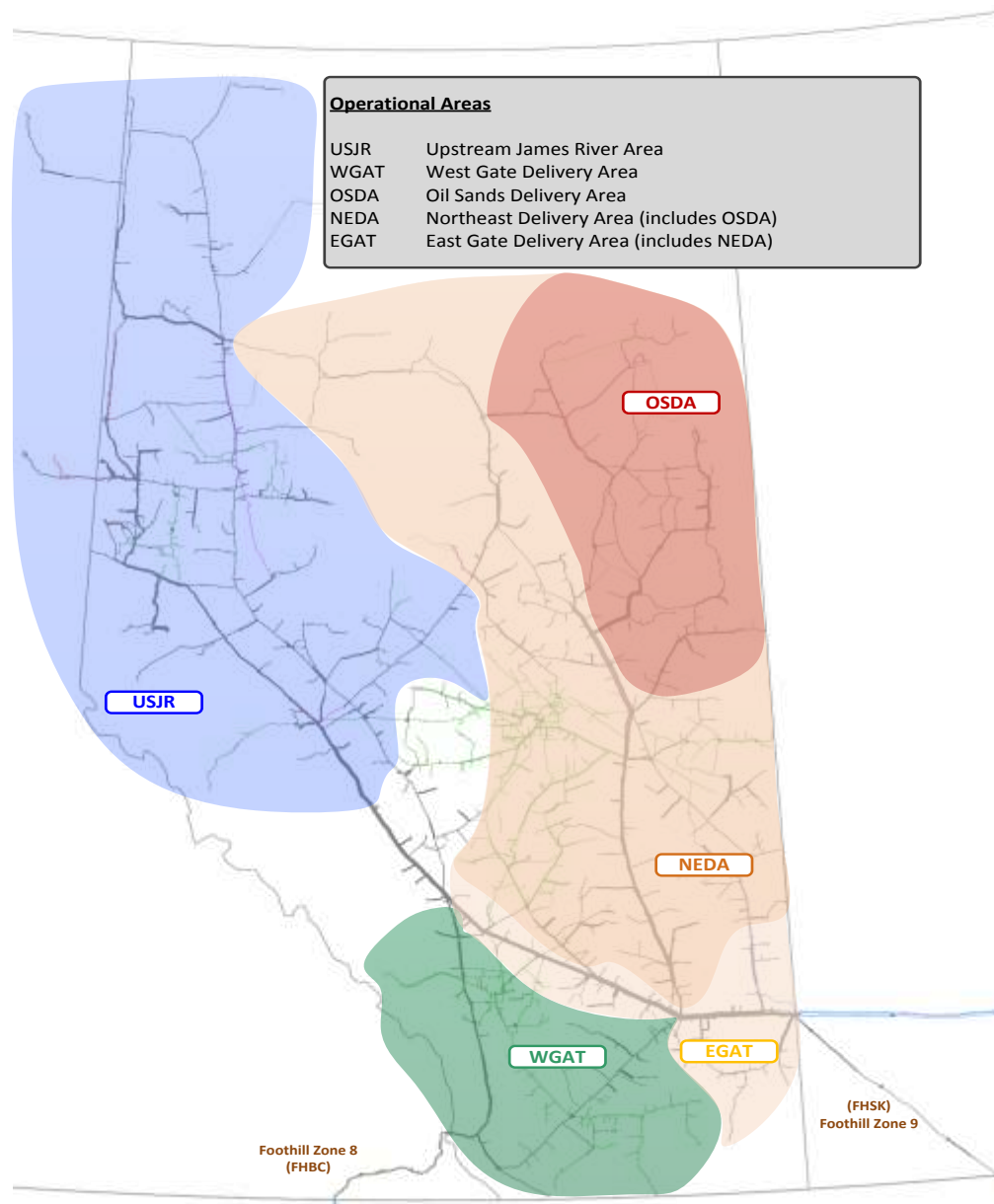


## May Monthly Outage Forecast

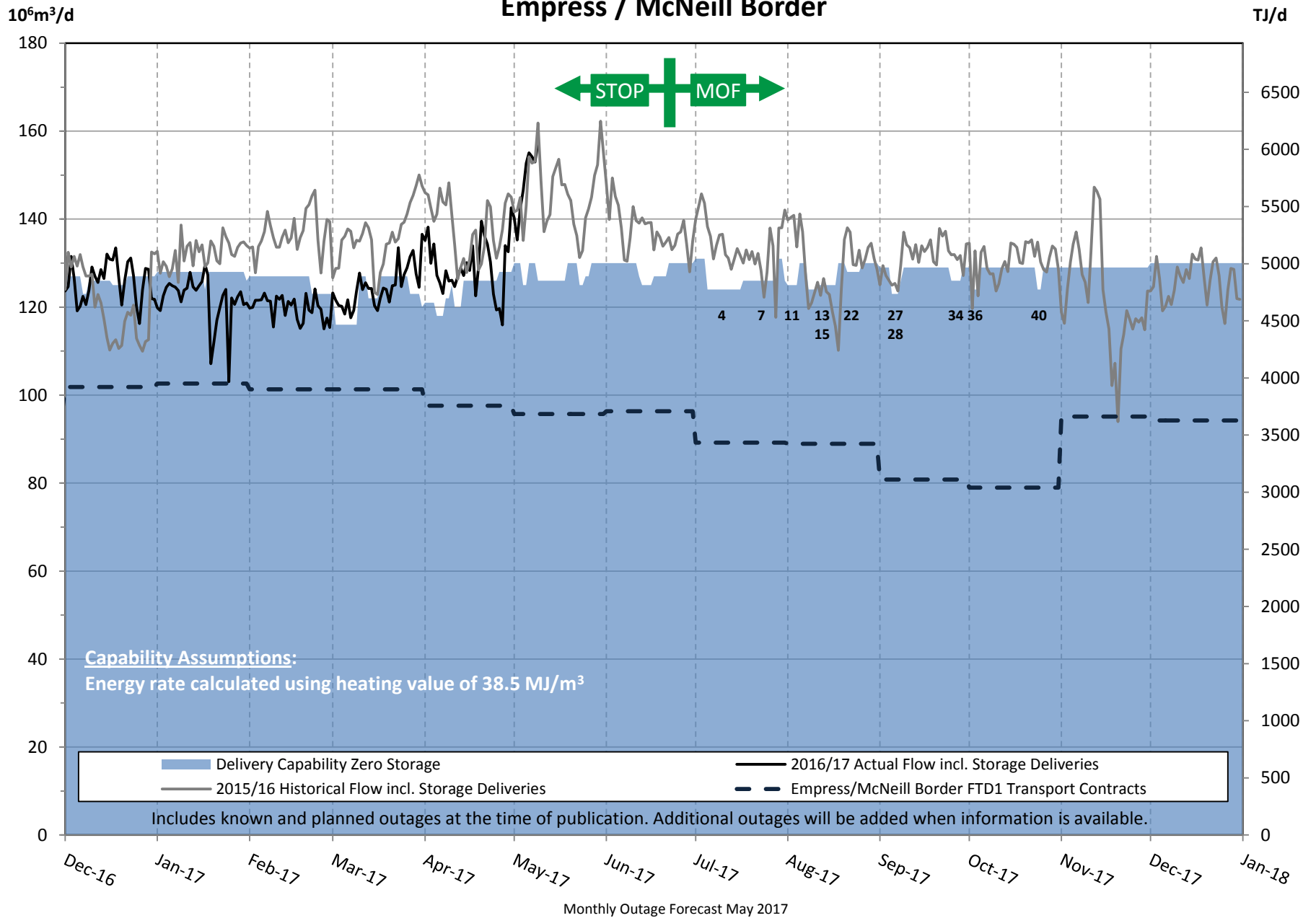
*The Monthly Outage Forecast is a tool provided by TransCanada to show the estimated operational capability. This information is provided for informational purposes only and is not to be relied upon for any other purpose whatsoever. The information is based upon certain assumptions that may or may not 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.*



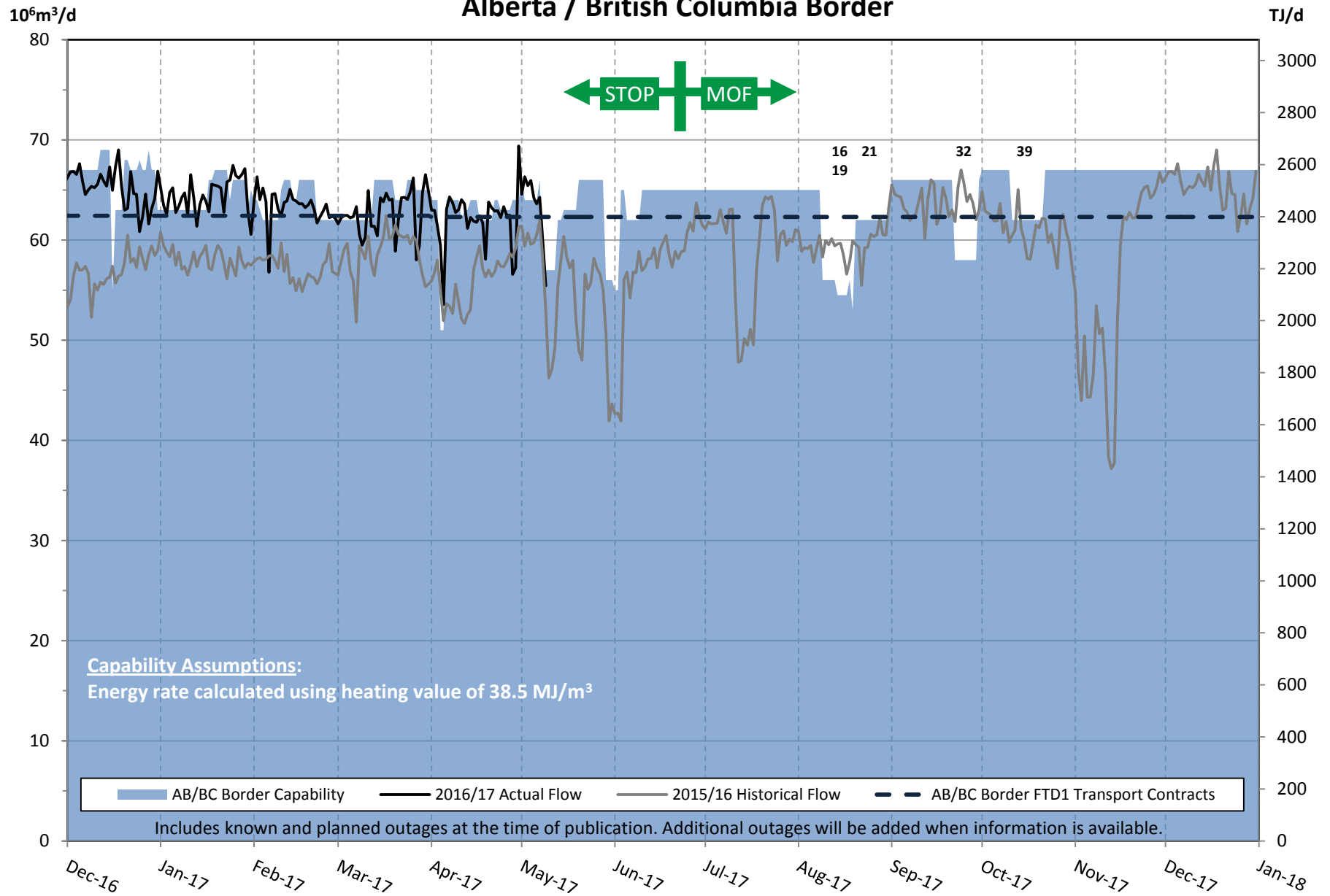
**For NGTL System Facilities Segment codes please view link below**  
[http://www.tccustomerexpress.com/docs/fh\\_system\\_maps/ab-system-map-segments-sept2016-final.PDF](http://www.tccustomerexpress.com/docs/fh_system_maps/ab-system-map-segments-sept2016-final.PDF)



# Empress / McNeill Border



# Alberta / British Columbia Border



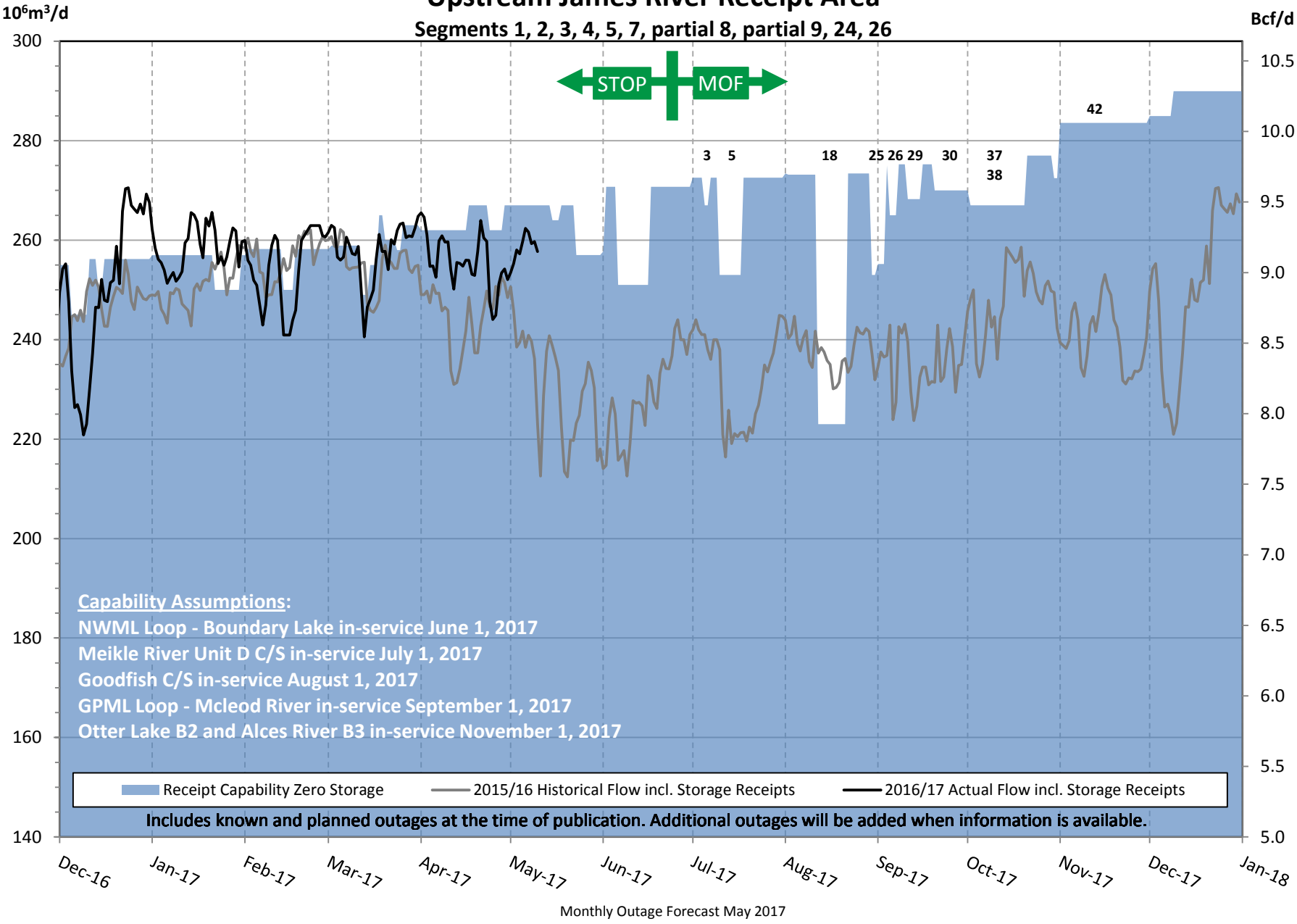
Includes known and planned outages at the time of publication. Additional outages will be added when information is available.

Monthly Outage Forecast May 2017



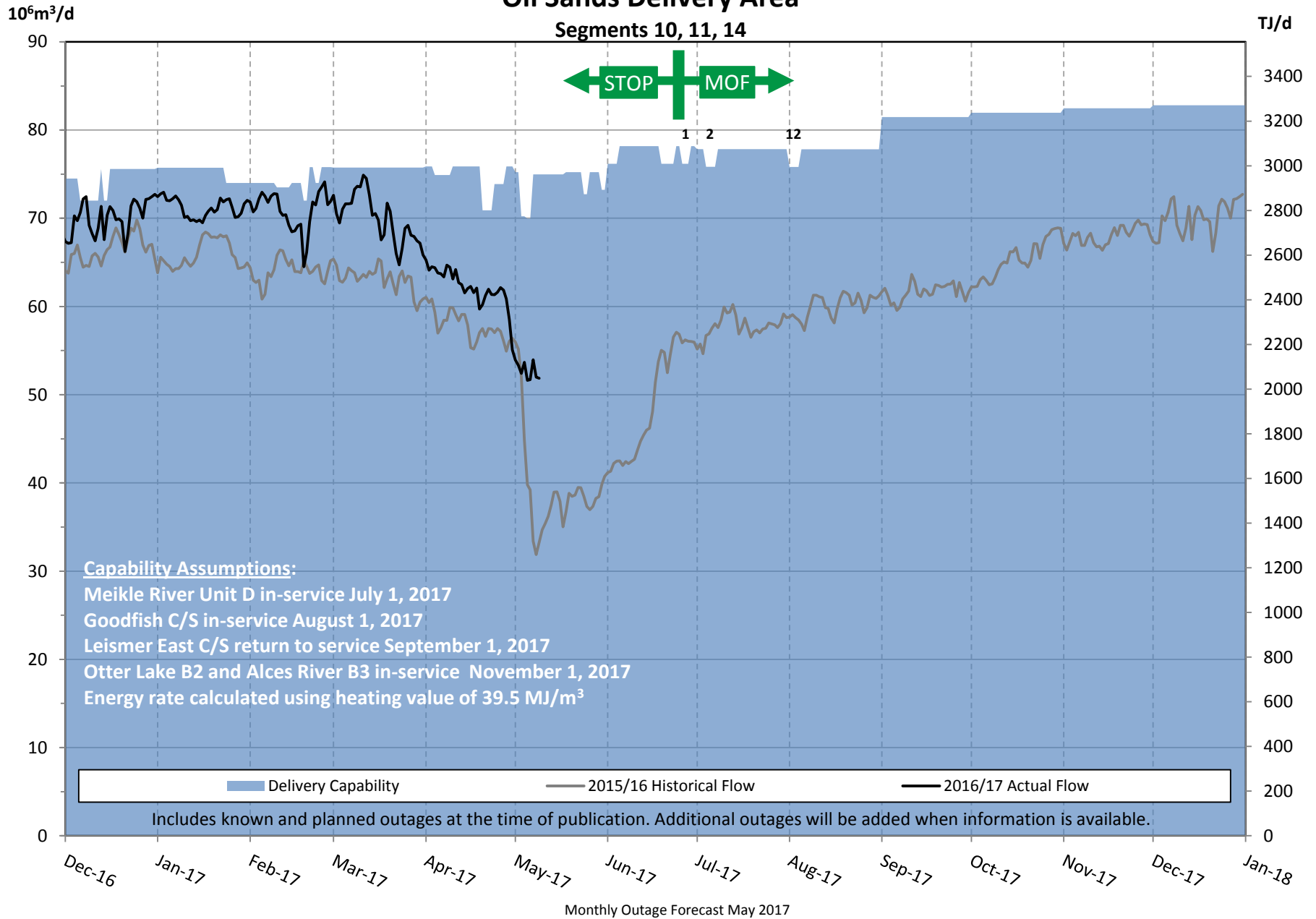
# Upstream James River Receipt Area

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



# Oil Sands Delivery Area

Segments 10, 11, 14





## NGTL System & Foothills Pipeline - Monthly Outage Forecast May 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.

**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 6, 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 6, 10, 11, 12, 13, 14, 15, 16, 17, 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 and Segment 22.

**FHBC** Foothills Zone 8

**FHSK** Foothills Zone 9

| OUTAGE # | SEG # | OUTAGE DESCRIPTION   | DATES    |          | RECEIPT/DELIVERY IMPACT  | CONTACT                    | AREA       |
|----------|-------|--|----------|----------|--|----------------------------|------------|
|          |       |  | START    | FINISH   |  |                            |            |
| 1        | 11    | <b>Behan C/S</b> - Station Maintenance (3 days).   | 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       |
| 2        | 12    | <b>Hanmore Lake B &amp; C C/S</b> - 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       |
| 3        | 8     | <b>Clearwater C/S</b> - Station Maintenance (2 days). <b>Dates Revised</b>   | 07/05/17 | 07/06/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 267 E6m3/d. Typical Flow 255-270 e6m3/d.  | Chris Pho                  | USJR       |
| 4        | 19    | <b>NPS 42 Foothills Zone 6 Alberta</b> - Pipeline Maintenance (12 days).   | 07/05/17 | 07/16/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 E6m3/d.   | Damola Daramola            | EGAT       |
| 5        | 7     | <b>NPS 42 Grande Prairie Mainline Loop</b> - Pipeline Modifications (8 days). <b>Capacity and Area of Impact Revised</b> | 07/10/17 | 07/17/17 | Partial FT receipt restriction in Segments 1, 2, 3, 4, 5, partial 7 (upstream of Berland River C/S), 26. Capability 140 E6m3/d. Typical Flow 142-157 e6m3/d. Nil required at Gold Creek South meter station. Typical Flow 1300 E3m3/d. | Chris Pho                  | USJR Local |
| 6        | 17    | <b>NPS 12 Ghostpine Lateral</b> - Pipeline Modifications (7 days).   | 07/12/17 | 07/18/17 | Nils required at Carbon West and Gatine meter stations. Typical Flow 600 E3m3/d.   | Marc Fattouche             | Local      |
| 7        | 18    | <b>Acme C/S</b> - Station Maintenance (12 days). <b>Dates Revised</b>  | 07/17/17 | 07/28/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.   | Damola Daramola            | EGAT       |
| 8        | 16    | <b>NPS 14 Flat Lake Lateral</b> - Pipeline Modifications (4 days). <b>Dates Revised</b>                                  | 07/25/17 | 07/28/17 | IT/FT restriction at Unity border. Capability 2150 e3m3/d. Typical Flow 3000 e3m3/d. Nils required at Hattie Lake North and Killam meter stations. Typical Flow 110 E3m3/d.  | Marc Fattouche             | Local      |
| 9        | 16    | <b>NPS 6 Killam Lateral</b> - Pipeline Modifications (6 days).   | 07/25/17 | 07/30/17 | Nil required at Killam meter station. Typical Flow 100 E3m3/d.   | Marc Fattouche             | Local      |
| 10       | 24    | <b>NPS 10 Greencourt Lateral</b> - Pipeline Maintenance (17 days).   | 07/25/17 | 08/10/17 | Nil required at Greencourt meter station. Typical Flow 15 E3m3/d. Nil required at Greencourt West Sales meter station. Typical Flow 5 E3m3/d   | Chris Pho                  | Local      |
| 11       | 19    | <b>NPS 36 Eastern Alberta System Mainline Loop #2</b> - Pipeline Maintenance (5 days).                                   | 07/31/17 | 08/04/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 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

## NGTL System & Foothills Pipeline - Monthly Outage Forecast May 2017

### Area Definitions

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**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 6, 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 6, 10, 11, 12, 13, 14, 15, 16, 17, 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 and Segment 22.

**FHBC** Foothills Zone 8

**FHSK** Foothills Zone 9

| OUTAGE # | SEG # | OUTAGE DESCRIPTION   | DATES    |          | RECEIPT/DELIVERY IMPACT   | CONTACT                    | AREA  |
|----------|-------|--|----------|----------|---|----------------------------|-------|
|          |       |  | START    | FINISH   |   |                            |       |
| 12       | 12    | <b>Hanmore Lake B &amp; C C/S</b> - Station Maintenance (4 days).                              | 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  |
| 13       | 18    | <b>Schrader Creek East &amp; West C/S</b> - Station Maintenance (3 days).                      | 08/08/17 | 08/10/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 124 E6m3/d. Typical Flow 125-135 e6m3/d.  | Damola Daramola            | EGAT  |
| 14       | 21    | <b>NPS 12 Burnt Timber Lateral</b> - Pipeline Modifications (6 days).                          | 08/09/17 | 08/14/17 | Nil required at Burnt Timber Sales meter station. Typical Flow 100 E3m3/d.  | Rahim Ruda                 | Local |
| 15       | 19    | <b>NPS 42 Eastern Alberta System Mainline Loop #3</b> - Pipeline Maintenance (9 days).         | 08/09/17 | 08/17/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 E6m3/d. Typical Flow 125-135 E6m3/d.  | Damola Daramola            | EGAT  |
| 16       | 21    | <b>NPS 36 Western Alberta System Mainline</b> - Pipeline Maintenance (11 days).                | 08/09/17 | 08/19/17 | Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 56 E6m3/d. Typical Flow 57-64 E6m3/d.   | Larissa Zhang              | WGAT  |
| 17       | 19    | <b>NPS 42 Foothills Pipeline Zone 9</b> - Pipeline Maintenance (11 days).                      | 08/09/17 | 08/19/17 | Potential IT/FT receipt restriction on Foothills Zone 9. Capability 28-40 E6m3/d. Typical Flow 40-45 E6m3/d.  | Damola Daramola            | FHSK  |
| 18       | 7     | <b>NPS 48 Edson Mainline Loop 3</b> - Pipeline Modifications (10 days).                        | 08/12/17 | 08/21/17 | Partial FT receipt restriction in Segments 1, 2, 3, 4, 5, 7, partial 8 (upstream of Vetchland C/S), partial 9 (upstream of Schrader Creek C/S), 24, 26. Capability 223 E6m3/d. Typical Flow 255-270 e6m3/d. | Chris Pho                  | USJR  |
|          | 7     | <b>NPS 36/42 Grande Prairie Mainline Loop</b> - Pipeline Modifications (6 days within window). | 08/12/17 | 08/21/17 | No expected additional impact due to alignment with NPS 48 Edson Mainline Loop 3 (Outage 18).   | Andrea Watters             | USJR  |
|          | 7     | <b>NPS 36 Grande Prairie Mainline Loop</b> - Pipeline Modifications (6 days within window).    | 08/12/17 | 08/21/17 | No expected additional impact due to alignment with NPS 48 Edson Mainline Loop 3 (Outage 18).   | Andrea Watters             | USJR  |
|          | 8     | <b>Swartz Creek C/S</b> - Station Maintenance (5 days).  | 08/14/17 | 08/18/17 | No expected additional impact due to alignment with NPS 48 Edson Mainline Loop 3 (Outage 18).   | Chris Pho                  | USJR  |
|          | 8     | <b>Nordegg C/S</b> - Station Maintenance (5 days). <b>New</b>                                  | 08/14/17 | 08/18/17 | No expected additional impact due to alignment with NPS 48 Edson Mainline Loop 3 (Outage 18).   | Chris Pho                  | USJR  |

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

## NGTL System & Foothills Pipeline - Monthly Outage Forecast May 2017

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**WGAT** West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21 and Segment 22.

**FHBC** Foothills Zone 8

**FHSK** Foothills Zone 9

| OUTAGE # | SEG # | OUTAGE DESCRIPTION  | DATES    |          | RECEIPT/DELIVERY IMPACT   | CONTACT         | AREA  |
|----------|-------|---|----------|----------|---|-----------------|-------|
|          |       |   | START    | FINISH   |   |                 |       |
|          | 7     | <b>Latornell C/S</b> - Station Maintenance (7 days).  | 08/14/17 | 08/20/17 | No expected additional impact due to alignment with NPS 48 Edson Mainline Loop 3 (Outage 18).   | Chris Pho       | USJR  |
| 19       | 21    | <b>Drywood C/S</b> - Station Maintenance (4 days).  | 08/14/17 | 08/17/17 | Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 63 E6m3/d. Typical Flow 57-64 E6m3/d.                         | Larissa Zhang   | WGAT  |
| 20       | 10    | <b>NPS 16 Pelican Mainline</b> - Pipeline Modifications (5 days).<br><b>New</b>                     | 08/16/17 | 08/20/17 | Nil required at Thornbury North meter station. Typical Flow 65 E3m3/d.  | Rahim Ruda      | Local |
| 21       | 22    | <b>NPS 24 South Lateral</b> - Pipeline Maintenance (13 days).<br><b>Dates and Duration Revised</b>  | 08/19/17 | 08/31/17 | Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 62 E6m3/d. Typical Flow 57-64 E6m3/d.                         | Larissa Zhang   | WGAT  |
| 22       | 18    | <b>Schrader Creek West #2</b> - Unit Maintenance (5 days).<br><b>Dates Revised</b>                  | 08/21/17 | 08/25/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 128 E6m3/d. Typical Flow 125-135 e6m3/d.              | Larissa Zhang   | EGAT  |
| 23       | 20    | <b>NPS 8 Dorothy Lateral and NPS10 Cessford-Burfield Lateral</b> - Pipeline Modifications (8 days). | 08/21/17 | 08/28/17 | Nils required at Dorothy, Lone Butte, Cessford Burfield West, Cessford Burfield West #2, Bullpound, Cessford North meter stations. Typical Flow 600 E3m3/d. | Marc Fattouche  | Local |
| 24       | 5     | <b>NPS 12 Bigstone Lateral</b> - Pipeline Maintenance (6 days).                                     | 08/23/17 | 08/28/17 | Nil required at Grizzly meter station. Typical Flow 85 E3m3/d   | Chris Pho       | Local |
| 25       | 7     | <b>NPS 36 Grande Prairie Mainline Loop</b> - Pipeline Modifications (5 days).                       | 08/30/17 | 09/03/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 253 E6m3/d. Typical Flow 255-270 e6m3/d.                           | Andrea Watters  | USJR  |
| 26       | 5     | <b>Knight C/S</b> - Station Maintenance (3 days).   | 09/05/17 | 09/07/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 265 E6m3/d. Typical Flow 255-270 e6m3/d.                           | Chris Pho       | USJR  |
| 27       | 19    | <b>Jenner C/S</b> - Station Maintenance (3 days).   | 09/05/17 | 09/07/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 123 E6m3/d. Typical Flow 125-135 e6m3/d.              | Damola Daramola | EGAT  |
| 28       | 18    | <b>Beiseker #1</b> - Station Maintenance (4 days).  | 09/05/17 | 09/08/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 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

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

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**FHBC** Foothills Zone 8

**FHSK** Foothills Zone 9

| OUTAGE # | SEG # | OUTAGE DESCRIPTION   | DATES    |          | RECEIPT/DELIVERY IMPACT  | CONTACT                    | AREA          |
|----------|-------|--|----------|----------|--|----------------------------|---------------|
|          |       |  | START    | FINISH   |  |                            |               |
| 29       | 6     | <b>Woodenhouse A1 &amp; B2 C/S</b> - Station Maintenance (5 days).   | 09/11/17 | 09/15/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 268 E6m3/d. Typical Flow 255-270 e6m3/d.<br>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<br>NEDA  |
| 30       | 7     | <b>NPS 42 Grande Prairie Mainline Loop</b> - Pipeline Modifications (12 days).                             | 09/20/17 | 10/01/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 270 E6m3/d. Typical Flow 255-270 e6m3/d.<br>Nil required at Mayberne #2 meter station. Typical Flow 550 E3m3/d.   | Chris Pho                  | USJR<br>Local |
| 31       | 19    | <b>NPS 42 Foothills Pipeline Zone 9</b> - Pipeline Maintenance (9 days). <b>Dates and Duration Revised</b> | 09/21/17 | 09/29/17 | Potential IT/FT receipt restriction on Foothills Zone 9. Capability 28-40 E6m3/d. Typical Flow 40-45 E6m3/d.   | Damola Daramola            | FHSK          |
| 32       | 21    | <b>NPS 36 Foothills Zone 7</b> - Pipeline Maintenance (8 days).  | 09/22/17 | 09/29/17 | Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 58 E6m3/d. Typical Flow 57-64 E6m3/d.  | Larissa Zhang              | WGAT          |
| 33       | 13    | <b>NPS 12 Redwater Lateral Extension</b> - Pipeline Maintenance (6 days).                                  | 09/24/17 | 09/29/17 | Nil required at Newbrook and Weasel Creek meter station. Typical Flow 20 E3m3/d  | Chuang Li                  | Local         |
| 34       | 18    | <b>Beiseker #2</b> - Station Maintenance (4 days).   | 09/25/17 | 09/28/17 | Potential IT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.   | Damola Daramola            | EGAT          |
| 35       | 16    | <b>Unity Border M/S</b> - Station Maintenance (4 days within window). <b>New</b>                           | 09/25/17 | 10/05/17 | Nil required at Unity Border meter station. Typical Flow 3000 e3m3/d.  | Chris Pho                  | Local         |
| 36       | 18    | <b>Crawling C/S</b> - Station Maintenance (3 days).  | 10/02/17 | 10/04/17 | Potential IT 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       | 8     | <b>Nordegg C/S</b> - Station Maintenance (19 days).  | 10/02/17 | 10/20/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 267 E6m3/d. Typical Flow 255-270 e6m3/d.  | Chris Pho                  | USJR          |
| 38       | 6     | <b>Paul Lake B2 C/S</b> - Station Maintenance (4 days).  | 10/10/17 | 10/13/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 270 E6m3/d. Typical Flow 255-270 E6m3/d.<br>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<br>NEDA  |
| 39       | 21    | <b>NPS 42 Western Alberta System Mainline Loop</b> - Pipeline Maintenance (11 days). <b>Dates Revised</b>  | 10/11/17 | 10/21/17 | Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 62 E6m3/d. Typical Flow 57-64 E6m3/d.  | Larissa Zhang              | WGAT          |

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

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- **NEDA** North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 6, 10, 11, 12, 13, 14, 15, 16, 17, 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 and Segment 22.

**FHBC** Foothills Zone 8

**FHSK** Foothills Zone 9

| OUTAGE # | SEG # | OUTAGE DESCRIPTION  | DATES    |          | RECEIPT/DELIVERY IMPACT  | CONTACT         | AREA  |
|----------|-------|---|----------|----------|--|-----------------|-------|
|          |       |   | START    | FINISH   |  |                 |       |
| 40       | 18    | <b>Beiseker C/S</b> - Station Maintenance (2 days).                       | 10/24/17 | 10/25/17 | Potential IT 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       | 23    | <b>NPS 8 Wainwright East Lateral</b> - Pipeline Modifications (7 days).   | 10/24/17 | 10/30/17 | Nil required at Wainwright East meter station. Typical Flow 35 E3m3/d.   | Marc Fattouche  | Local |
| 42       | 8     | <b>Clearwater #5</b> - Unit Modifications (40 days).                      | 10/30/17 | 12/08/17 | Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 284 E6m3/d. Typical Flow 255-270 e6m3/d.              | Chris Pho       | USJR  |
| 43       | 12    | <b>NPS 10 Hairy Hills Lateral</b> - Pipeline Modifications (7 days).      | 11/01/17 | 11/06/17 | Nil required at Hairy Hill meter station. Typical Flow 55 E3m3/d.  | Marc Fattouche  | Local |
| 44       | 16    | <b>NPS 8 Kessler Lateral</b> - Pipeline Modifications (6 days).           | 11/20/17 | 11/25/17 | Nils required at Provost Kessler and Provost West meter stations. Typical Flow 130 E3m3/d.   | Marc Fattouche  | Local |
| 45       | 19    | <b>NPS 10 Iddesleigh South Lateral</b> - Pipeline Modifications (4 days). | 12/04/17 | 12/07/17 | Nil required at Iddesleigh South meter station. Typical Flow 115 E3m3/d.   | Rahim Ruda      | Local |

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