



# Monthly Outage Forecast

## April 2015

# Operations Planning (NGTL/Foothills) Outage Contacts

Pat Jackson                      Manager                      920-7259

## OUTAGE COORDINATION

Jeff Stoffregen                Supervisor                      920-6337

Chuang Li                                      920-5291  
Ashley Lim                                      920-6669  
Chris Pho                                        920-6016  
Brooke Dillabough                          920-5144  
Andrea Watters                                920-7638  
Damola Daramola                              920-6604

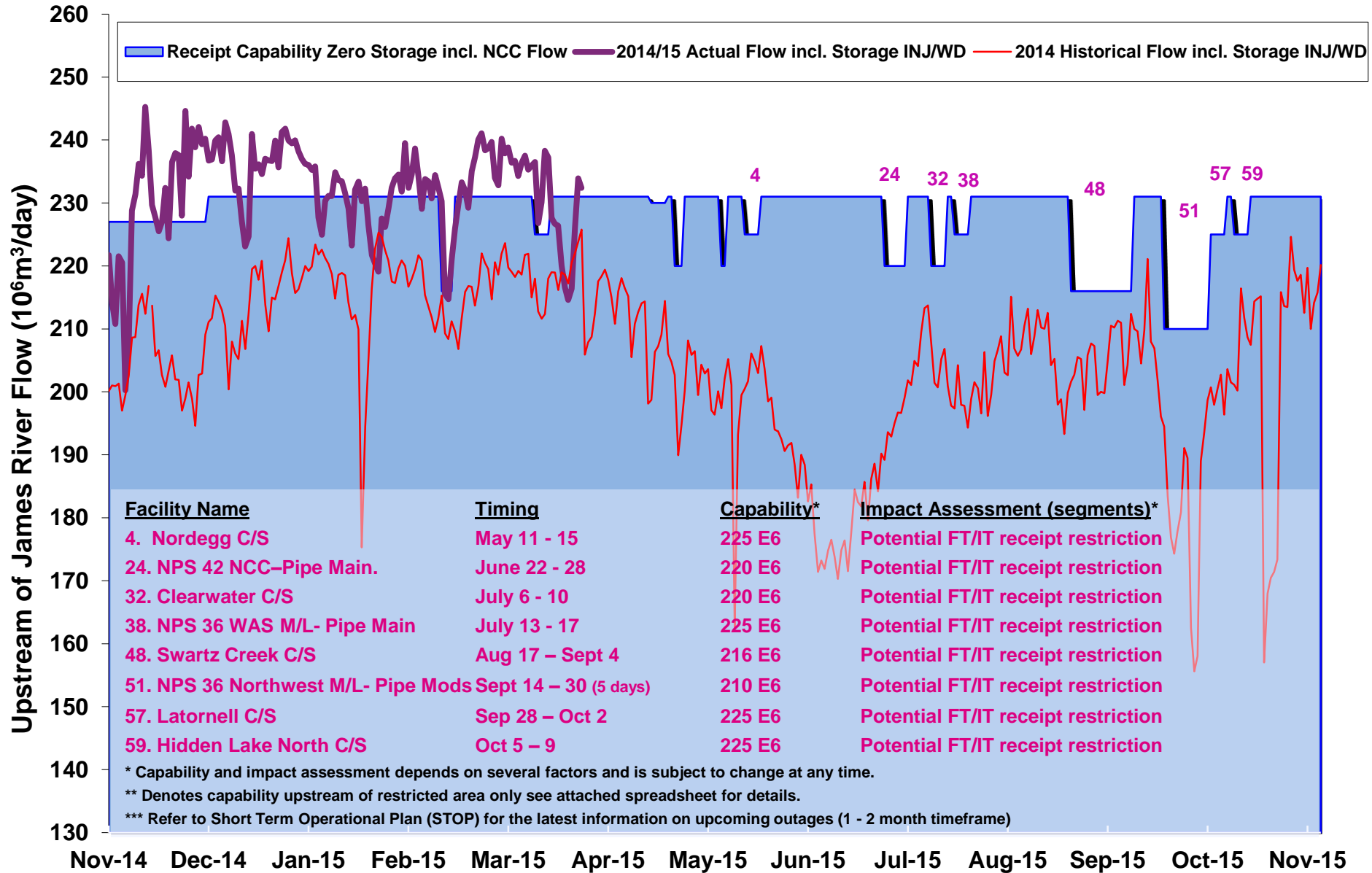
## OUTAGE PLANNING

Glen Mohan                                      920-6802  
Bruce Hansen                                    920-5613  
Mike Wylie                                       920-7346  
Rahim Ruda                                       920-6360

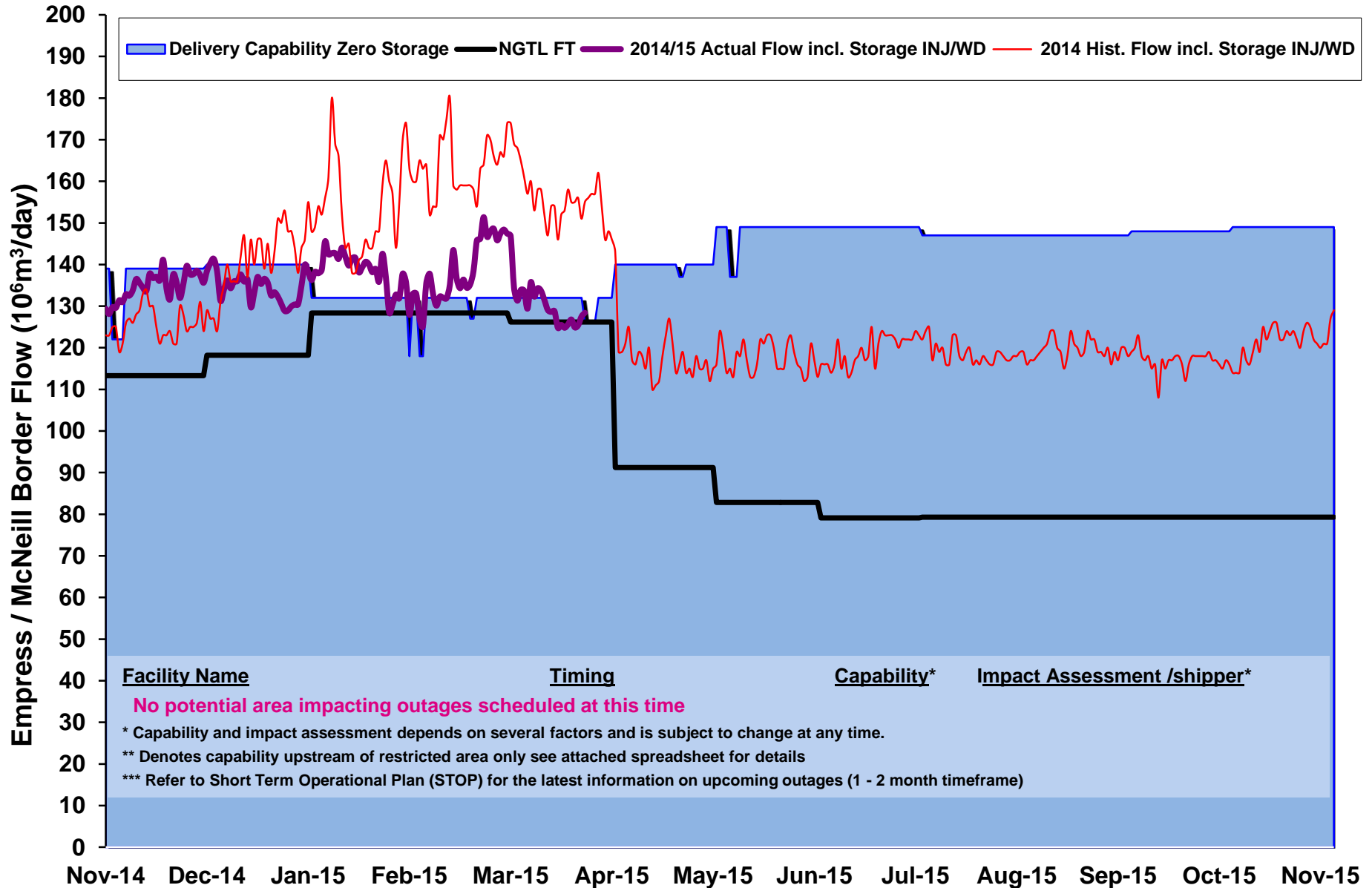
# CONTENTS

- **Receipt Outlook**
  - **Upstream of James River**
- **Delivery Outlook**
  - **Empress/McNeill**
  - **Alberta/BC**
  - **Kingsgate**
  - **Oil Sands Delivery Area**
- **NGTL System Map Link**

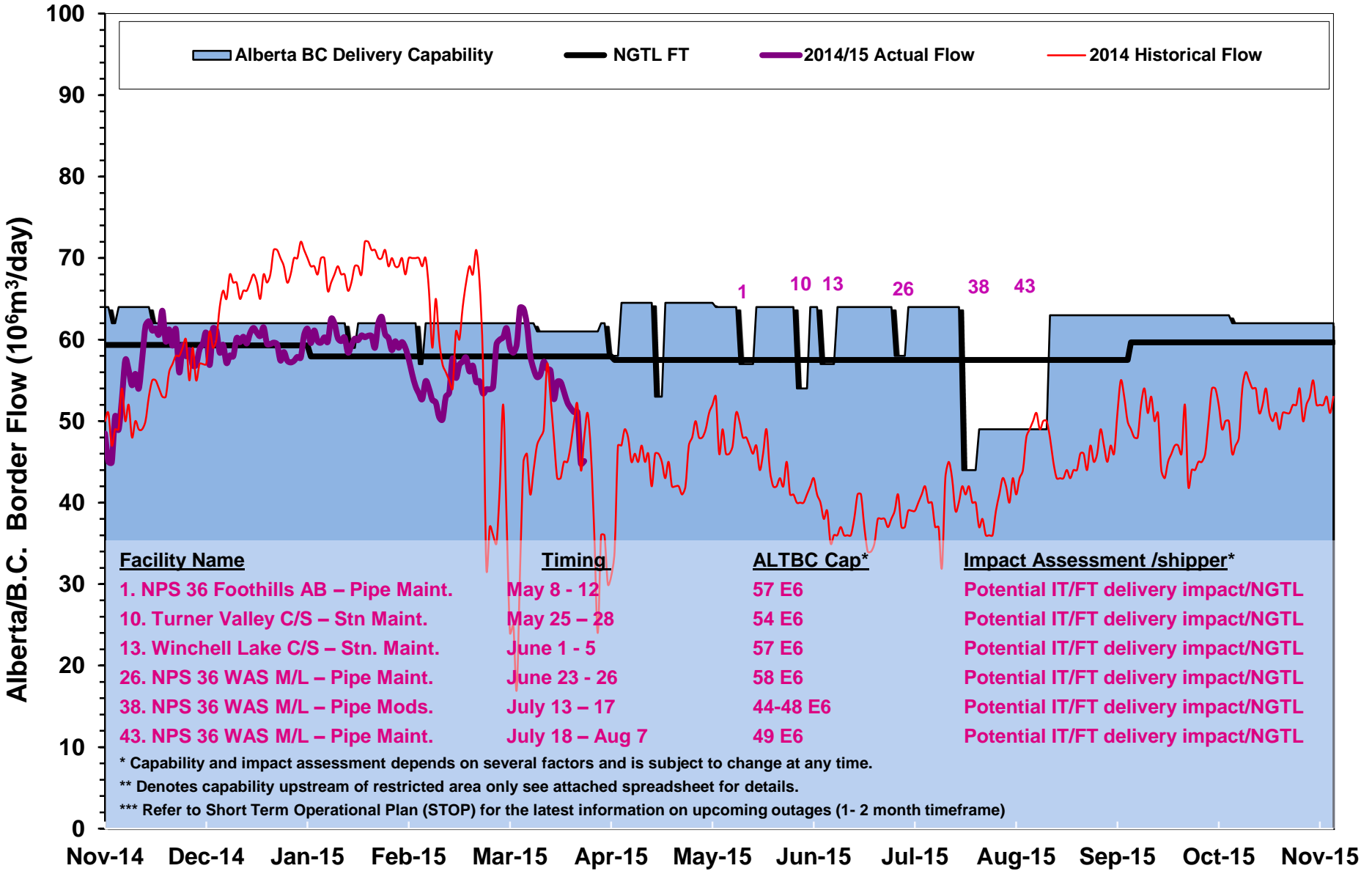
# Upstream of James River Outlook



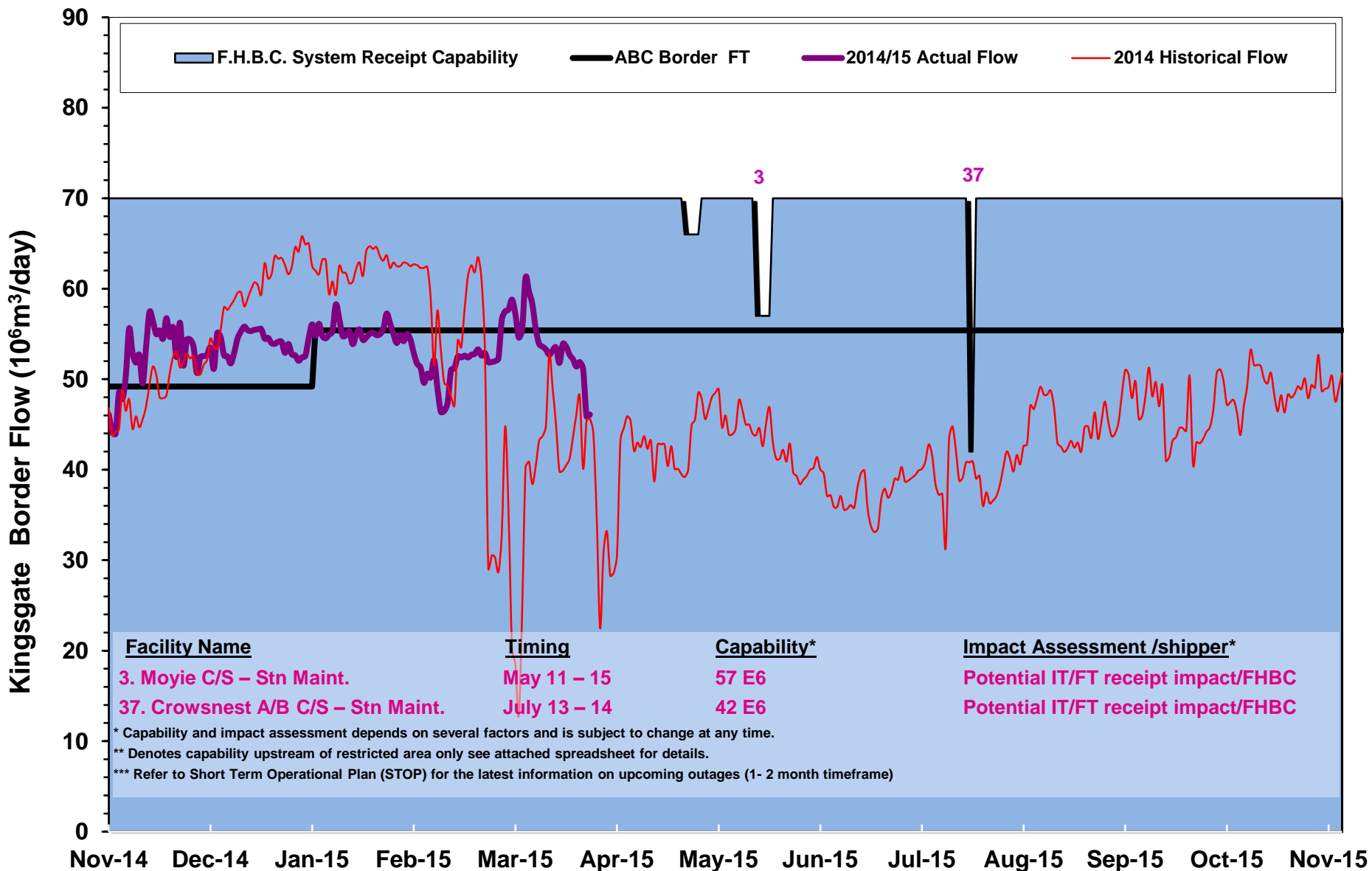
# Empress / McNeill Border Outlook



# Alberta B.C. Border Outlook

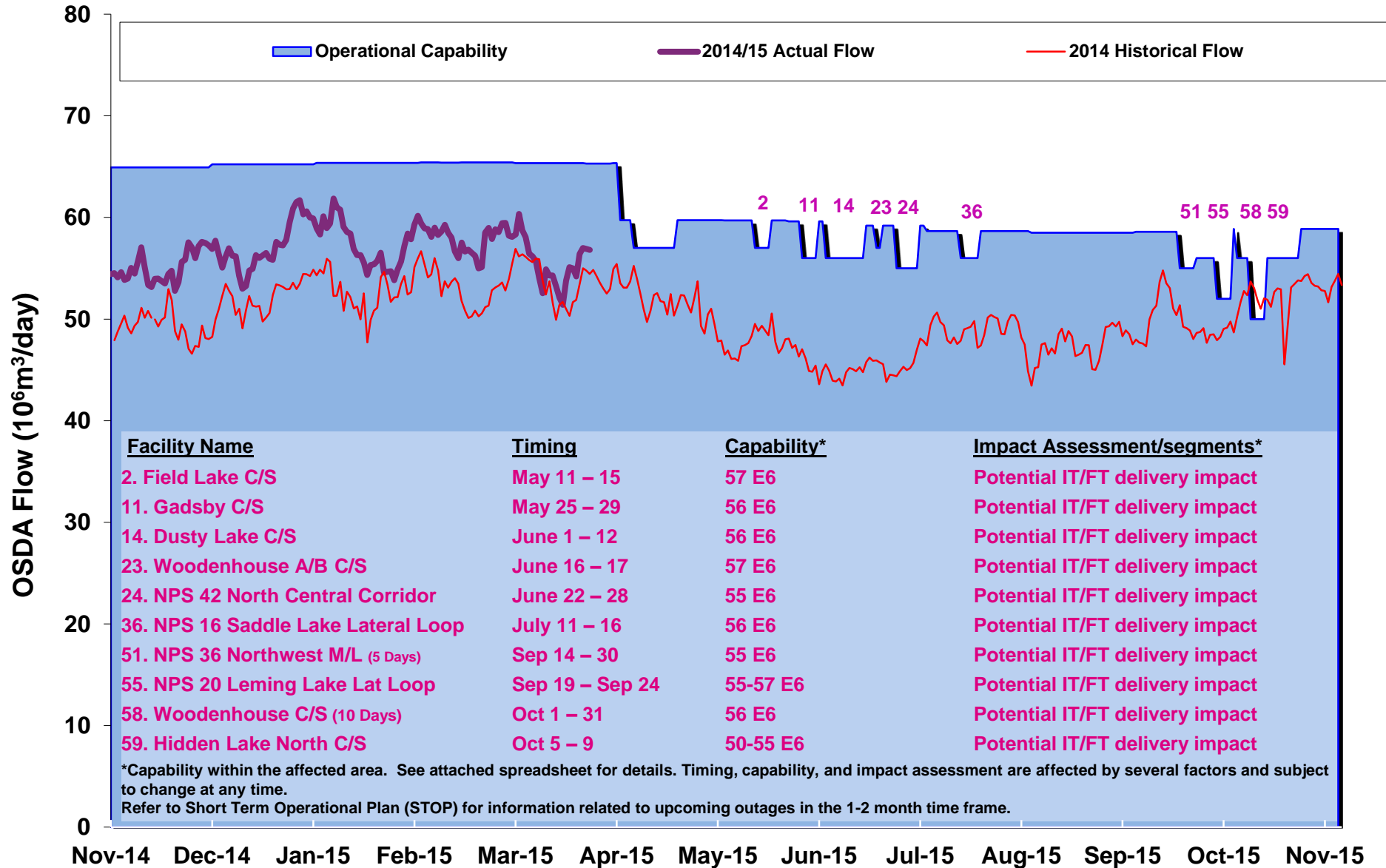


# Kingsgate Outlook



# Oil Sands Delivery Area (OSDA) Outlook

## Segments 10,11,14





# SYSTEM MAP

- **NGTL System Map Link**
  - **For NGTL System Facilities Segment codes please view link below**

[http://www.transcanada.com/customerexpress/docs/fh\\_system\\_maps/AB System Map AP ATCO 2014 Final Segments.pdf](http://www.transcanada.com/customerexpress/docs/fh_system_maps/AB_System_Map_AP_ATCO_2014_Final_Segments.pdf)

# TransCanada Outage Forecast April 2015 as of March 31, 2015

SEG		OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
#			START	FINISH			
1	18	<b>NPS 36 Foothills AB Zone 7</b> - Pipeline Maintenance (5 days).	05/08/15	05/12/15	Potential IT/FT delivery restriction at ALTBC. Capability 57 E6m3/d/. Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
2	11	<b>Field Lake C/S</b> - Station Maint (5 days)	05/11/15	05/15/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 57 E6m3/d. Typical Flow: 50-55 E6m3/d.	Andrea Watters	OSDA
3	21	<b>Moyie C/S</b> - Station Maint. (5 days)	05/11/15	05/15/15	Potential IT/FT restriction on FHBC. Capability 57 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
4	8	<b>Nordegg C/S</b> - Station Maintenance (5 days).	05/11/15	05/15/15	Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 225 E6m3/d. Typical flow 205 - 225 E6m3/d.	Brooke Dillabough	USJR
5	6	<b>Slave Lake C/S</b> - Station Maint (5 days)	05/11/15	05/15/15	Potential IT/FT receipt restriction at Mitsue, Nipisi & Overlea. (dependent on receipt/delivery balance) Typical Flow 250 E3m3/d.	Ashley Lim	Local
6	14	<b>NPS 6 St. Lina North Lateral</b> - Pipeline Maintenance (5 days). <b>New</b>	05/18/15	05/22/15	Nil required at St Lina North. Typical flow 10 E3m3/d.	Mike Wylie	Local
7	8	<b>NPS 20 Robb Lateral</b> - Pipeline Maintenance (4 days). <b>Dates Revised</b>	05/20/15	05/23/15	Nils required at Mitchell Creek and Robb meter stations. Typical flow 7-8 E6m3/d.	Brooke Dillabough	Local
8	8	<b>NPS 42 Edson Mainline Loop</b> - Pipeline Maintenance (10 days). <b>Capacity Revised</b>	05/20/15	05/30/15	Potential IT/FT receipt restriction in Segments 1-5,7, 9, 26 and Edson meter station. Capability 105 E6m3/d. Typical flow 104 - 110 E6m3/d. Potential IT/FT restriction for the following meter stations: Minnehik Buck Lake, Minnehik Buck Lake B. Capability: 1000 E3m3/d. Typical flow 3000 E3m3/d. Robb, Mitchell Creek. Capability: 4000 E3m3/d Typical flow 7000 E3m3/d.	Chuang Li	Local

C/S - Compressor Station, M/S - Meter Station  
(Shading indicates new or changed)  
General Inquiries? contact Glen Mohan at 920-6802

**EGAT** - Eastern Gate (Empress/McNeill Borders)  
**ALTBC** - Alberta/BC Border  
**USJR** - Upstream of James River  
**OSDA** - Oil Sands Delivery Area

**FHBC** - Foothills BC  
**FHSK** - Foothills Saskatchewan

	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
9	8	<b>Wolf Lake C/S</b> - Station Maintenance (9 days). <i>Capacity Revised</i>	05/20/15	05/29/15	No additional impact. Capability is same as Outage #8.	Brooke Dillabough	Local
10	21	<b>Turner Valley C/S</b> - Station Maintenance (4 days).	05/25/15	05/28/15	Potential IT/FT delivery restriction at ALTBC. Capability 54 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
11	15	<b>Gadsby C/S</b> - Station Maint (5 days). <i>Area of impact revised</i>	05/25/15	05/29/15	Potential IT/FT delivery restriction in Segments 10,11,13-16 & 28. Capability: 80 E6m3/d. Typical Flow: 70-85 E6m3/d . Potential nil required at Halkirk North #2, Halkirk, Maple Glen, Castor, Leo and Hanna meter stations.	Ashley Lim	Local OSDA
12	20	<b>NPS 12 Alderson Lateral</b> - Pipeline Modifications (5 days).	05/25/15	05/29/15	Nil required at Alderson, Alderson South, Alderson North, Bantry, Twelve Mile Coulee, Tilley and Tilley South 2 meter stations. Typical flow 1650 E3m3/d.	Rahim Ruda	Local
13	21	<b>Winchell Lake C/S</b> - Station Maint (5 days).	06/01/15	06/05/15	Potential IT/FT delivery restriction at ALTBC. Capability 57 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
14	15	<b>Dusty Lake C/S</b> - Station Maintenance (12 days). <i>Area of impact revised</i>	06/01/15	06/12/15	Potential IT/FT delivery restriction in Segments 10,11,13-16 & 28. Capability: 80 E6m3/d. Typical Flow: 70-85 E6m3/d.	Ashley Lim	Local OSDA
15	23	<b>NPS 6 Chauvin Lateral</b> - Pipeline Modifications (6 days within window).	06/01/15	06/15/15	Nil required at Estridge Lake and Chauvin meter stations. Typical flow 70 E3m3/d.	Rahim Ruda	Local
16	20	<b>NPS 12 Suffield South Lateral</b> - Pipeline Maintenance (5 days). <b>New</b>	06/01/15	06/05/15	Nil required at Cousins A Sales. Typical flow 1400 - 1450 E3m3/d.	Mike Wylie	Local
17	7	<b>NPS 10 Bear River West Lateral Loop</b> - Pipeline Modifications (3 days). <b>New</b>	06/02/15	06/04/15	Partial FT restriction at Bear River West. Capability 1600 E3m3/d. Typical flow 4000 E3m3/d.	Mike Wylie	Local

	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
18	10	<b>NPS 6 Japan Canada Sales Lateral</b> - Pipeline Modifications (3 days). <b>New</b>	06/03/15	06/05/15	Nil required at Japan Canada Sales. Typical flow 275 E3m3/d.	Mike Wylie	Local
19	7	<b>Gold Creek C/S</b> - Station Maintenance (3 days).	06/08/15	06/10/15	Potential IT/FT receipt restriction in Segment 4 & Partial Segment 7. Capability 63 E6m3/d. Typical flow 65 - 70 E6m3/d.	Brooke Dillabough	Local
20	18	<b>NPS 10 Lone Pine Creek Lateral</b> - Pipeline Modifications (6 days). <b>Dates Revised</b>	06/08/15	06/13/15	Nil required at Lone Pine Creek and Lone Pine Creek Sales meter stations. Typical flow 540 E3m3/d (receipt) and 50 E3m3/d (delivery).	Rahim Ruda	Local
21	2	<b>Cranberry Lake Sales</b> - Meter Station Maint (9 hrs)	06/15/15	06/15/15	Nil required at Cranberry Lake Sales. Typical flow 170 E3m3/d.	Bruce Hansen	Local
22	1	<b>NPS 10 Paddle Prairie Lateral</b> - Pipeline Modifications (6 days within window).	06/15/15	06/30/15	Nil required at Paddle Prairie, Paddle Prairie South, Boyer and Boyer East meter stations. Typical flow 400 E3m3/d.	Rahim Ruda	Local
23	6	<b>Woodenhouse A and B C/S</b> - Station Maint (2 days).	06/16/15	06/17/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 57 E6m3/d. Typical Flow: 50-55 E6m3/d.	Andrea Watters	OSDA
24	6	<b>NPS 42 North Central Corridor (Meikle to Woodenhouse)</b> - Pipeline Maintenance (7 days).	06/22/15	06/28/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 55 E6m3/d. Typical flow 50 - 55 E6m3/d. Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 220 E6m3/d. Typical flow 175-225 E6m3/d	Rahim Ruda	OSDA USJR
25	22	<b>NPS 6 Tillebrook Lateral Loop</b> - Pipeline Maintenance (5 days within window). <b>New</b>	06/22/15	06/27/15	Nil required at Tillebrook. Typical flow 70 E3m3/d.	Mike Wylie	Local
26	21	<b>NPS 36 WAS Mainline</b> - Pipeline Maintenance (4 days). <b>Dates Revised</b>	06/23/15	06/26/15	Potential IT/FT delivery restriction at ALTBC. Capability 58 E6m3/d, Typical flow 40-50 E6m3/d.	Damola Daramola	ALTBC

	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
27	20	<b>NPS 12 Alderson Lateral</b> - Pipeline Maintenance (7 days within window).	06/23/15	06/29/15	Nil required at Alderson North, Bantry, Tilley and Tilley South #2 meter stations. Typical flow 900 E3m3/d.	Rahim Ruda	Local
28	8	<b>NPS 18 Ferrier North Lateral</b> - Pipe Maintenance (4 to 6 weeks within window) <i>Dates Revised</i>	07/01/15	08/30/15	Nil required at Ferrier South B and Ferrier North. Typical Flow 2500 E3m3/d	Mike Wylie	Local
29	11	<b>NPS 16 Leming Lake Sales Lateral</b> - Pipeline Modifications (7 days within window)	07/01/15	07/31/15	Nil required at Marguerite Lake Sales meter station. Typical flow 200 E3m3/d.	Ashley Lim	Local
30	8	<b>NPS 8 Ferrier South Lateral</b> - Pipeline Maintenance (5 days within window). <b>New</b>	07/01/15	07/31/15	Nil required at Ferrier South B. Typical flow 270 - 400 E3m3/d.	Mike Wylie	Local
31	14	<b>NPS 10 Saddle Lake Lateral</b> - Pipeline Modifications (5 days in window)	07/06/15	07/10/15	Nil required at St. Paul Sales meter station. Typical Flow 46 E3m3/d.	Andrea Watters	Local
32	8	<b>Clearwater C/S</b> - Station Maintenance (5 days). <i>Dates Revised</i>	07/06/15	07/10/15	Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 220 E6m3/d. Typical flow 200 - 220 E6m3/d.	Brooke Dillabough	USJR
33	18	<b>NPS 4 Countess West Lateral</b> - Pipeline Maintenance (4 days within window). <b>New</b>	07/06/15	07/13/15	Nil required at Countess West. Typical flow 85 E3m3/d.	Mike Wylie	Local
34	22	<b>NPS 12 Vulcan Lateral</b> - Pipeline Modifications (5 days). <b>New</b>	07/06/15	07/10/15	Nil required at Vulcan. Typical flow 10 E3m3/d.	Mike Wylie	Local
35	6	<b>NPS 10 Cadotte River Lateral</b> - Pipeline Modifications. <i>Dates Revised</i>	07/07/15	07/09/15	Nil required at Cadotte River meter station. Typical flow 280 E3m3/d. Nils required at Cranberry Lake East Sales and Cranberry Lake East #2 Sales meter stations. Typical flow 30 E3m3/d.	Mike Wylie	Local

	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
36	14	<b>NPS 16 Saddle Lake Lateral Loop</b> - Pipeline Modifications (6 days). <i>Dates and duration revised</i>	07/11/15	07/16/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability: 56 E6m3/d. Typical Flow 50-55 E6m3/d.	Andrea Watters	OSDA
37	21	<b>Crow A and B C/S</b> - Station Maint. (2 days). <i>Dates Revised</i>	07/13/15	07/14/15	Potential IT/FT restriction on FHBC. Capability 42 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
38	21	<b>NPS 36 Western Alberta System M/L</b> - Pipeline Modifications (5 days). <i>New</i>	07/13/15	07/17/15	Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26. Capability 225 E6m3/d. Typical flow 200 - 220 E6m3/d. Nil required at Jackson Creek M/S. Typical flow 600 E3m3/d Potential IT/FT delivery restriction at Alberta-Montana Border, Alberta-B.C. Border, Burnt Timber Sales, Caldwell Sales, Coleman #2 Sales, Coleman Sales, Crossfield Sales, East Calgary Sales, Garrington Sales, Lundbreck-Cowley Sales, Quirk Creek #2 Sales, Saratoga Sales, Sarcee Sales, Waterton #1 Sales meter stations. Capability 44 - 48 E6m3/d. Typical flow 45 - 55 E6m3/d.	Chris Pho	Local USJR ALTBC
39	23	<b>NPS 8 Wainwright East Lateral</b> - Pipeline Maintenance (4 days within window). <i>New</i>	07/13/15	07/17/15	Nil required at Wainwright East. Typical flow 40 E3m3/d.	Mike Wylie	Local
40	21	<b>NPS 6 Jackson Creek Lateral</b> - Pipeline Maintenance (5 days). <i>New</i>	07/13/15	07/17/15	Nil required at Jackson Creek. Typical flow 615 E3m3/d.	Mike Wylie	Local
41	20	<b>NPS 16 Alderson Lateral Extension</b> - Pipeline Modifications (6 days within window)	07/15/15	07/31/15	Nil required at Princess West meter station. Typical flow 230 E3m3/d.	Rahim Ruda	Local
42	4	<b>NPS 16 Gordondale Lateral</b> - Pipeline Modifications (5 days within window). <i>New</i>	07/15/15	08/15/15	Nil required at Howard Creek East, Silverwood, Teepee Creek, Webster, & Belloy West. Typical flow 175 - 200 E3m3/d.	Mike Wylie	Local

	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
43	21	<b>NPS 36 Western Alberta System M/L</b> - Pipeline Upgrades (21 days). <i>Dates and capacity revised</i>	07/18/15	08/07/15	Potential IT/FT delivery restriction at Alberta-Montana Border, Alberta-B.C. Border, Burnt Timber Sales, Caldwell Sales, Coleman #2 Sales, Coleman Sales, Crossfield Sales, East Calgary Sales, Garrington Sales, Lundbreck-Cowley Sales, Quirk Creek #2 Sales, Saratoga Sales, Sarcee Sales, Waterton #1 Sales meter stations. Capability 49 E6m3/d. Typical flow 45 - 55 E6m3/d.	Chris Pho	Local ALTBC
44	9	<b>NPS 6 Ferrier Lateral</b> - Pipeline Modifications (6 days within window). <i>Dates Revised</i>	08/01/15	08/31/15	Nils required at Ferrier, Ferrier South A and Codner meter stations. Typical flow 1000 E3m3/d.	Rahim Ruda	Local
45	12	<b>NPS 12 Flat Lake Lateral</b> - Pipeline Maintenance (5 days within window). <i>New</i>	08/05/15	08/11/15	Nil required at Flat Lake. Typical flow 120 E3m3/d.	Mike Wylie	Local
46	19	<b>NPS 42 Foothills Pipeline Zone 9</b> - Pipeline Maintenance (7 days within window). <i>Dates Revised</i>	08/06/15	08/14/15	Potential IT/FT restriction on FHSK. Capability 35-50 E6m3/d. Typical flow 40-45 E6m3/d.	Rahim Ruda	FHSK
47	1	<b>NPS 10 Paddle Prairie Lateral</b> - Pipeline Maintenance (5 days). <i>New</i>	08/06/15	08/10/15	Nil required at Paddle Prairie, Paddle Prairie South, Boyer and Boyer East meter stations. Typical flow 400 E3m3/d.	Rahim Ruda	Local
48	8	<b>Swartz Creek C/S</b> - Station Maintenance (19 days).	08/17/15	09/04/15	Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability = 216 E6m3/d. Typical flow 205 - 225 E6m3/d.	Brooke Dillabough	USJR
49	23	<b>NPS 6 Chauvin Lateral</b> - Pipeline Maintenance (6 days).	08/20/15	08/25/15	Nil required at Estridge Lake and Chauvin meter stations. Typical flow 70 E3m3/d.	Rahim Ruda	Local
50	13	<b>NPS 8 Big Bend Lateral</b> - Pipeline Modifications (6 days within window). <i>Cancelled</i>	09/01/15	09/15/15	Nil required at Big Bend meter station. Typical flow 130 E3m3/d.	Rahim Ruda	Local

	SEG		DATES				
	#	OUTAGE DESCRIPTION	START	FINISH	RECEIPT/DELIVERY IMPACT	CONTACT	AREA
51	4	<b>NPS 36 Northwest Mainline</b> - Pipeline Modifications (5 days within window). <i>Dates and capacity revised</i>	09/14/15	09/30/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 55 E6m3/d. Typical flow 50 - 55 E6m3/d. Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 210 E6m3/d. Typical flow 175-225 E6m3/d.	Rahim Ruda	OSDA USJR
52	4	<b>Saddle Hills C/S</b> - Station Modifications (5 days within window). <b>New</b>	09/14/15	09/30/15	Potential IT/FT receipt restriction in Segment 4. Capability 50 E6m3/d. Typical flow 50 - 60 E6m3/d.	Rahim Ruda	Local
53	10	<b>NPS 12 Moosa Lateral</b> - Pipeline Modifications (10-14 days within window).	09/15/15	09/30/15	Nil required at Ruth Lake Sales #2 and Ruth Lake Sales #3 meter stations. Typical flow 1200 E3m3/d.	Rahim Ruda	Local
54	22	<b>NPS 18 Castle River Montana Lateral Loop</b> - Pipeline Modifications (4 days within window)	09/15/15	09/30/15	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3m3/d. Typical flow 1000 to 3000 E3m3/d.	Rahim Ruda	Local
55	11	<b>NPS 20 Leming Lake Lateral Loop</b> - Pipeline Maintenance (6 days).	09/19/15	09/24/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 55-57 E6m3/d. Typical flow 50 - 55 E6m3/d.	Andrea Watters	OSDA
56	7	<b>NPS 30 Grande Prairie Mainline Loop</b> - Pipeline Modifications (4 days within window).	09/21/15	10/15/15	Nil required at Progress East and Burnt River meter stations. Typical flow 400 E3m3/d.	Rahim Ruda	Local
57	7	<b>Latornell C/S</b> - Station Maintenance (5 days).	09/28/15	10/02/15	Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 225 E6m3/d. Typical flow 210 - 230 E6m3/d.	Brooke Dillabough	USJR
58	6	<b>Woodenhouse C/S</b> - Station Modifications (10 days within window)	10/01/15	10/31/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability: 56 E6m3/d. Typical Flow: 50-55 E6m3/d	Andrea Watters	OSDA
59	3	<b>Hidden Lake North C/S</b> - Station Maintenance (5 days).	10/05/15	10/09/15	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 50 - 55 E6m3/d. Typical flow 50 - 55 E6m3/d. Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 225 E6m3/d. Typical flow 205 - 225 E6m3/d	Brooke Dillabough	OSDA USJR



	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
60	13	<b>NPS 8 Big Bend Lateral</b> - Pipeline Maintenance (4 days). <i>Dates and Duration Revised</i>	10/07/15	10/12/15	Nil required at Big Bend meter station. Typical flow 130 E3m3/d.	Rahim Ruda	Local
61	1	<b>NPS 12 Paddle Prairie Lateral</b> - Pipeline Maintenance (4 days). <i>New</i>	11/24/15	11/27/15	Nil required at Keg River East. Typical flow 35 E3m3/d. Potential IT/FT restriction required for Paddle Prairie, Paddle Prairie South, Boyer and Boyer East meter stations. Capability 0 to 400 E3m3/d. Typical flow 400 E3m3/d.	Rahim Ruda	Local
62	17	<b>NPS 16 Nevis Lateral</b> - Pipeline Modifications (4 days within window). <i>Cancelled</i>	2016	2016	Nil required at Hummock Lake, Mikwan North, & Lousana receipt meter stations. Typical flow 430 E3m3/d.	Ashley Lim	Local
63	11	<b>NPS 16 Leming Lake Sales Lateral</b> - Pipeline Modifications (7 days within window). <i>Dates Revised</i>	2016	2016	Nil required at Marguerite Lake Sales meter station. Typical flow 200 E3m3/d	Ashley Lim	Local
64	8	<b>NPS 30 January Creek Lateral</b> - Pipeline Modifications (4 days within window). <i>Dates Revised</i>	2016	2016	Nil required at January Creek meter station. Typical flow 0 to 3 E6m3/d.	Rahim Ruda	Local
65	6	<b>NPS 24 Peerless Lake Lateral Loop</b> - Pipeline Modifications (6 days within window). <i>Dates Revised</i>	2016	2016	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 57 E6m3/d. Typical flow 50 - 55 E6m3/d.	Rahim Ruda	OSDA
66	12	<b>NPS 30 Paul Lake Crossover</b> - Pipeline Modifications (6 days within window). <i>Dates Revised</i>	2016	2016	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 50 E6m3/d. Typical flow 50 - 55 E6m3/d. Potential IT/FT receipt restriction in Segments 1-5, 7-9 & 26 (Upstream of James River). Capability 215 E6m3/d. Typical flow 175-225 E6m3/d.	Rahim Ruda	OSDA USJR