

# SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

January 2018

<http://www.tccustomerexpress.com/2885.html>

*Published date:*

**March 15th, 2018**

---

## Highlights This Month:

- N/A

NOVA Gas Transmission Ltd.

# TABLE OF CONTENTS

---

<b><u>MONTHLY FEATURES</u></b>	<b>PAGE</b>
Firm Transportation Service Contract Utilization .....	3
Design Capability Utilization .....	
Upper Peace River .....	4
Upper & Central Peace River .....	5
Peace River Design .....	6
Upstream James River .....	7
Eastern Alberta Mainline (James River to Princess) .....	8
Western Alberta Mainline (AB/BC & AB/Montana Borders) .....	9
Rimbey Nevis – Flow Within .....	10
South & Alderson – Flow Within .....	11
Medicine Hat - Flow Within .....	12
Eastern Alberta Mainline (Princess to Empress/McNeill) .....	13
Ft. McMurray Area – Flow Within.....	14
Kirby Area – Flow Within.....	15
North of Bens Lake – Flow Within .....	16
North & South of Bens Lake – Flow Within.....	17
Future Firm Transportation Service Availability .....	18
How to Use This Report .....	19
 <b><u>REFERENCES</u></b>	
NGTL Design Areas Map .....	20
NGTL Pipeline Segments Map .....	21
Definition of Terms .....	22

Utilization reports are posted approximately six weeks after the end of the reported month.

If you have any questions on the content of this report, contact Winston Cao at (403) 920-5315 or [winston\\_cao@transcanada.com](mailto:winston_cao@transcanada.com).

# FIRM TRANSPORTATION SERVICE<sup>1</sup> CONTRACT UTILIZATION<sup>3</sup>

By NGTL Pipeline Segments

January 2018

Segment	Contract	Utilization	Delivery	Receipt	
			Jan CD (TJ/d)	Utilization	Jan CD (MMcf/d)
UPRM	FT	0%	0.0	80%	55
	FT + IT <sup>2</sup>	0%		80%	
PRLL	FT	75%	30.4	91%	84
	FT + IT	101%		93%	
NWML	FT	82%	6.9	83%	356
	FT + IT	100%		83%	
GRDL	FT	73%	8.8	94%	2,779
	FT + IT	159%		94%	
WRSY	FT	0%	0.0	80%	25
	FT + IT	0%		83%	
WAEX	FT	65%	4.7	73%	926
	FT + IT	314%		74%	
JUDY	FT	73%	19.2	86%	58
	FT + IT	131%		90%	
GPML	FT	70%	154.5	89%	4,212
	FT + IT	108%		90%	
CENT	FT	0%	0.0	89%	1,962
	FT + IT	0%		91%	
LPOL	FT	50%	65.7	84%	881
	FT + IT	51%		88%	
WGAT	FT	83%	3,766.1	98%	254
	FT + IT	89%		111%	
ALEG	FT	66%	381.5	97%	631
	FT + IT	70%		115%	
SLAT	FT	50%	176.4	98%	125
	FT + IT	51%		164%	
MLAT	FT	86%	283.6	83%	98
	FT + IT	89%		127%	
BLEG	FT	72%	151.0	98%	381
	FT + IT	76%		126%	
EGAT	FT	99%	5,216.8	83%	18
	FT + IT	105%		115%	
MRTN	FT	39%	22.1	74%	45
	FT + IT	45%		100%	
LIEG	FT	80%	2,096.0	59%	28
	FT + IT	80%		112%	
KIRB	FT	84%	1,605.5	69%	33
	FT + IT	84%		99%	
SMHI	FT	53%	12.0	72%	16
	FT + IT	53%		161%	
REDL	FT	56%	19.0	65%	20
	FT + IT	69%		146%	
COLD	FT	52%	179.5	36%	17
	FT + IT	62%		96%	
EDM	FT	64%	1,824.2	89%	34
	FT + IT	66%		142%	
NLAT	FT	62%	13.4	96%	107
	FT + IT	75%		132%	
WAIN	FT	44%	0.4	88%	5
	FT + IT	44%		138%	
ELAT	FT	86%	288.4	86%	97
	FT + IT	86%		128%	
TOTAL SYSTEM	FT	84%	16,326.0	89%	13,244
	FT + IT	89%		94%	

\*NOTE:

1. FT includes all receipt and delivery Firm Transportation Services.

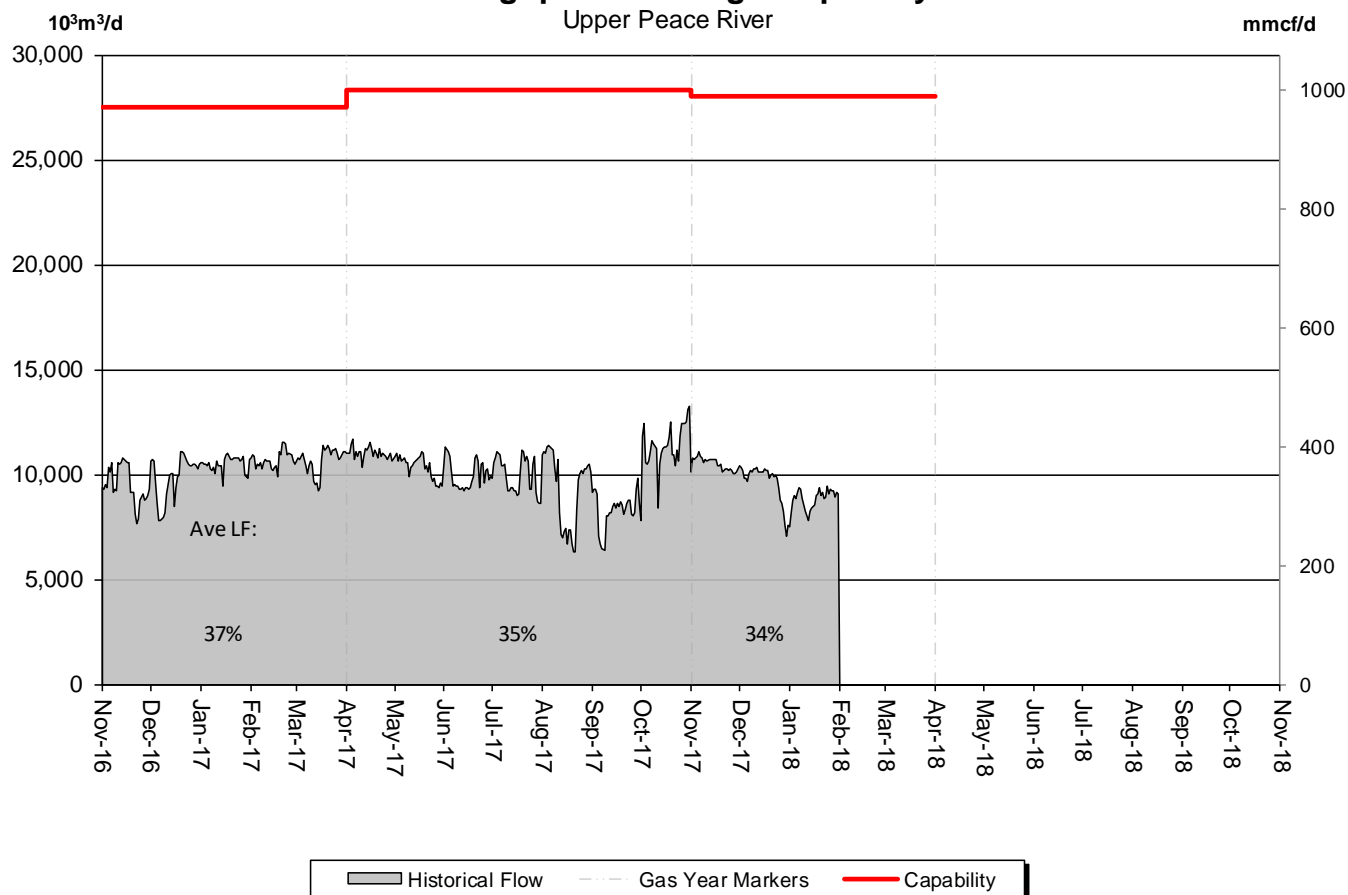
2. IT includes receipt and delivery Interruptible Services.

3. Utilization data is based on billed monthly volumes. Percent utilization calculated as FT and FT + IT billed volumes divided by applicable receipt or delivery Contract level.

# DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER

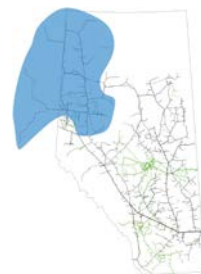


## Throughput vs. Design Capability



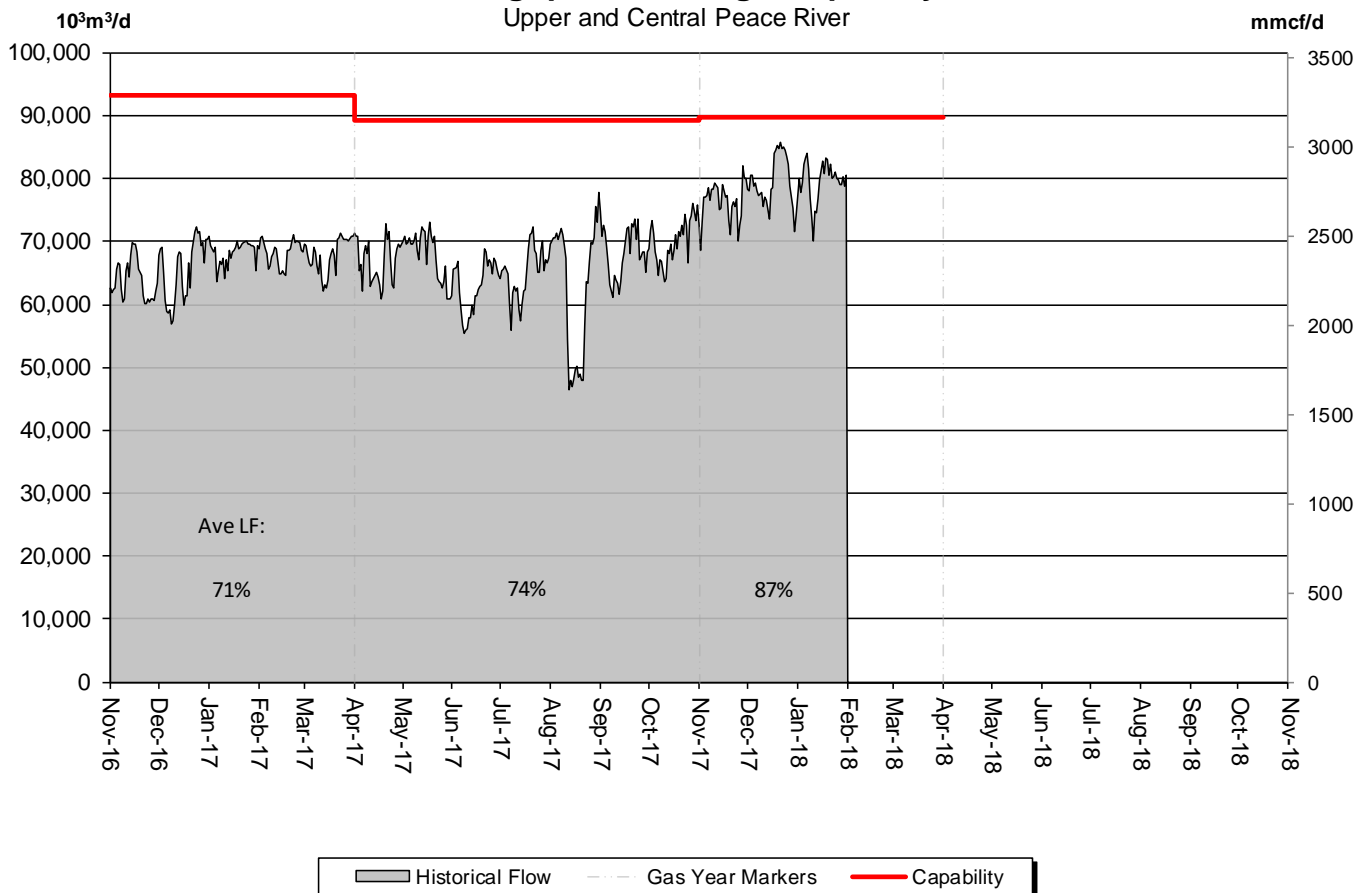
% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	33%	29%	40%	37%	34%	32%

# DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER



## Throughput vs. Design Capability

Upper and Central Peace River



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	70%	77%	79%	85%	89%	89%

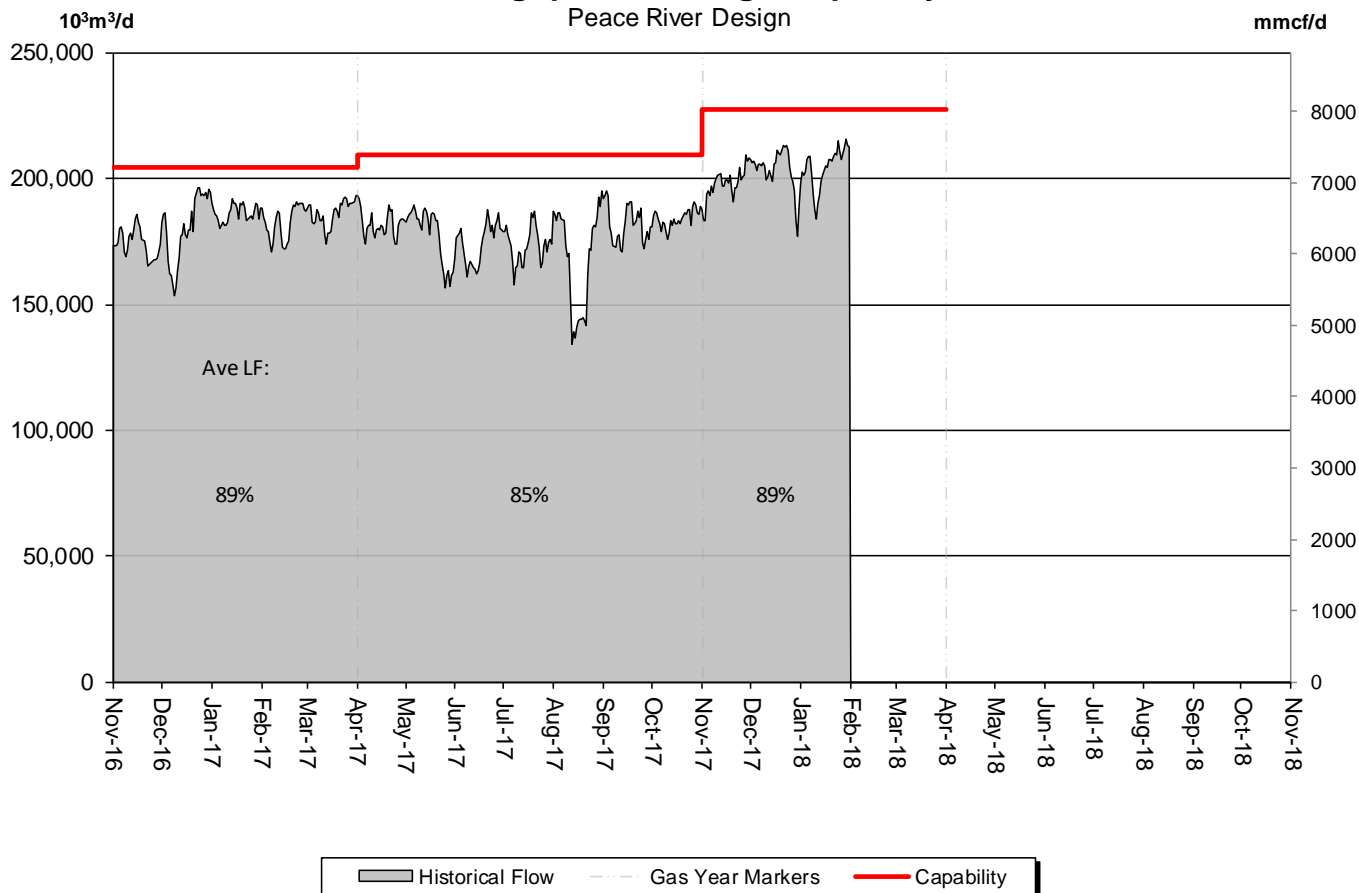
# DESIGN CAPABILITY UTILIZATION

## PEACE RIVER DESIGN

(Upper, Central and Lower Peace River)



**Throughput vs. Design Capability**  
Peace River Design



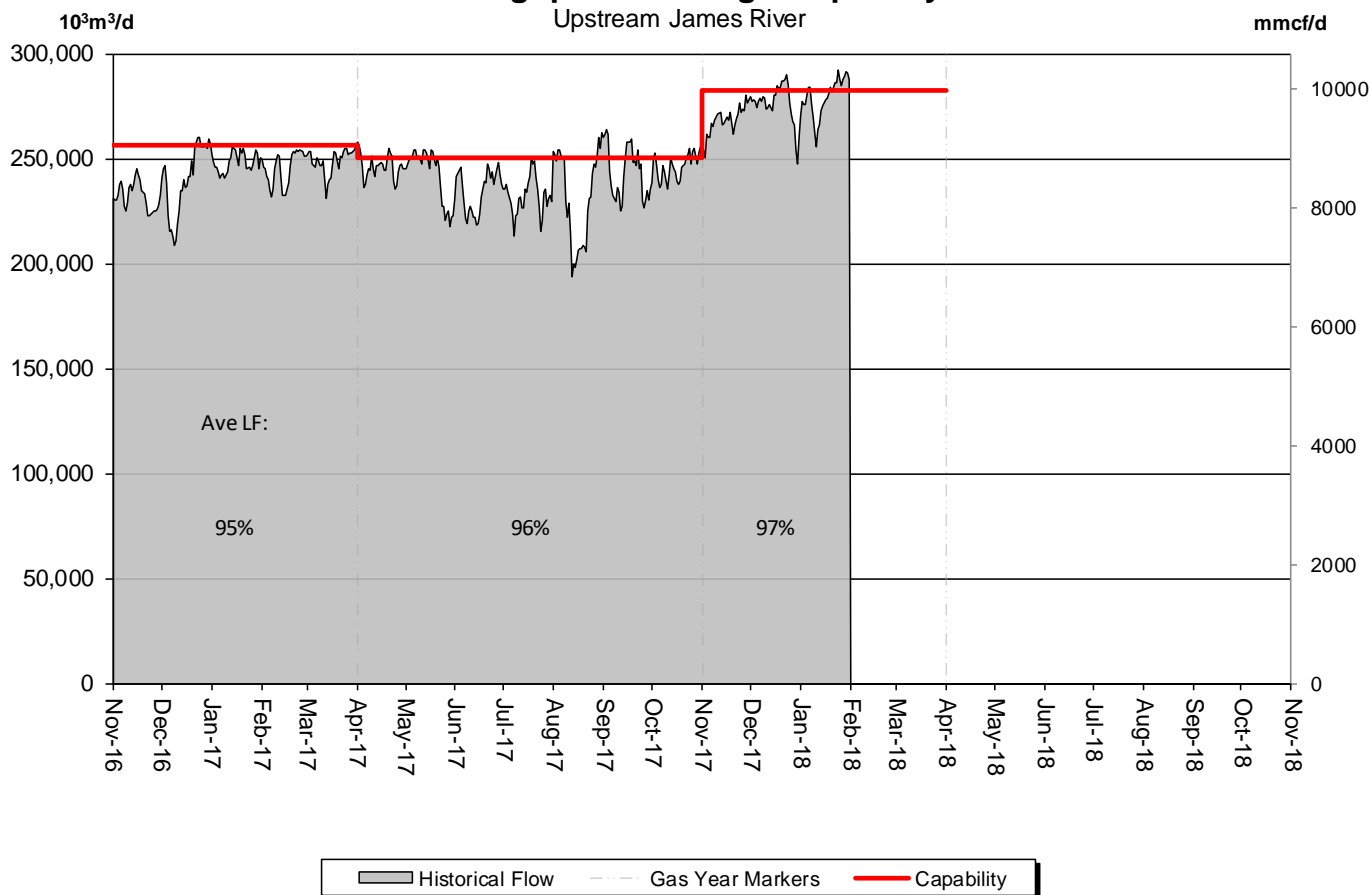
% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	80%	87%	88%	87%	90%	90%

# DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)



**Throughput vs. Design Capability**  
Upstream James River

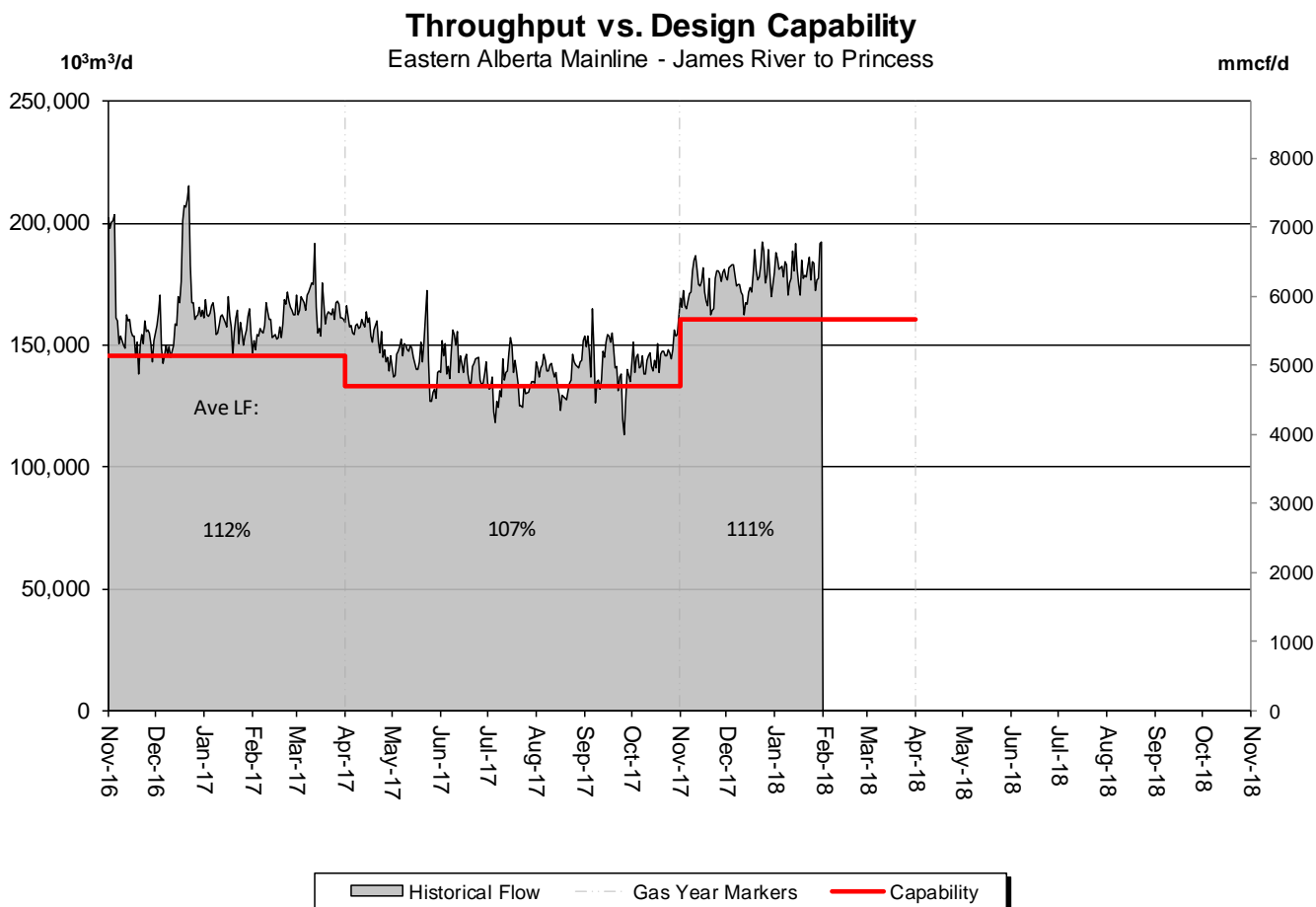


% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	92%	98%	98%	95%	98%	99%

# DESIGN CAPABILITY UTILIZATION

## EASTERN ALBERTA MAINLINE

(James River to Princess)



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	104%	107%	109%	108%	111%	113%

# DESIGN CAPABILITY UTILIZATION

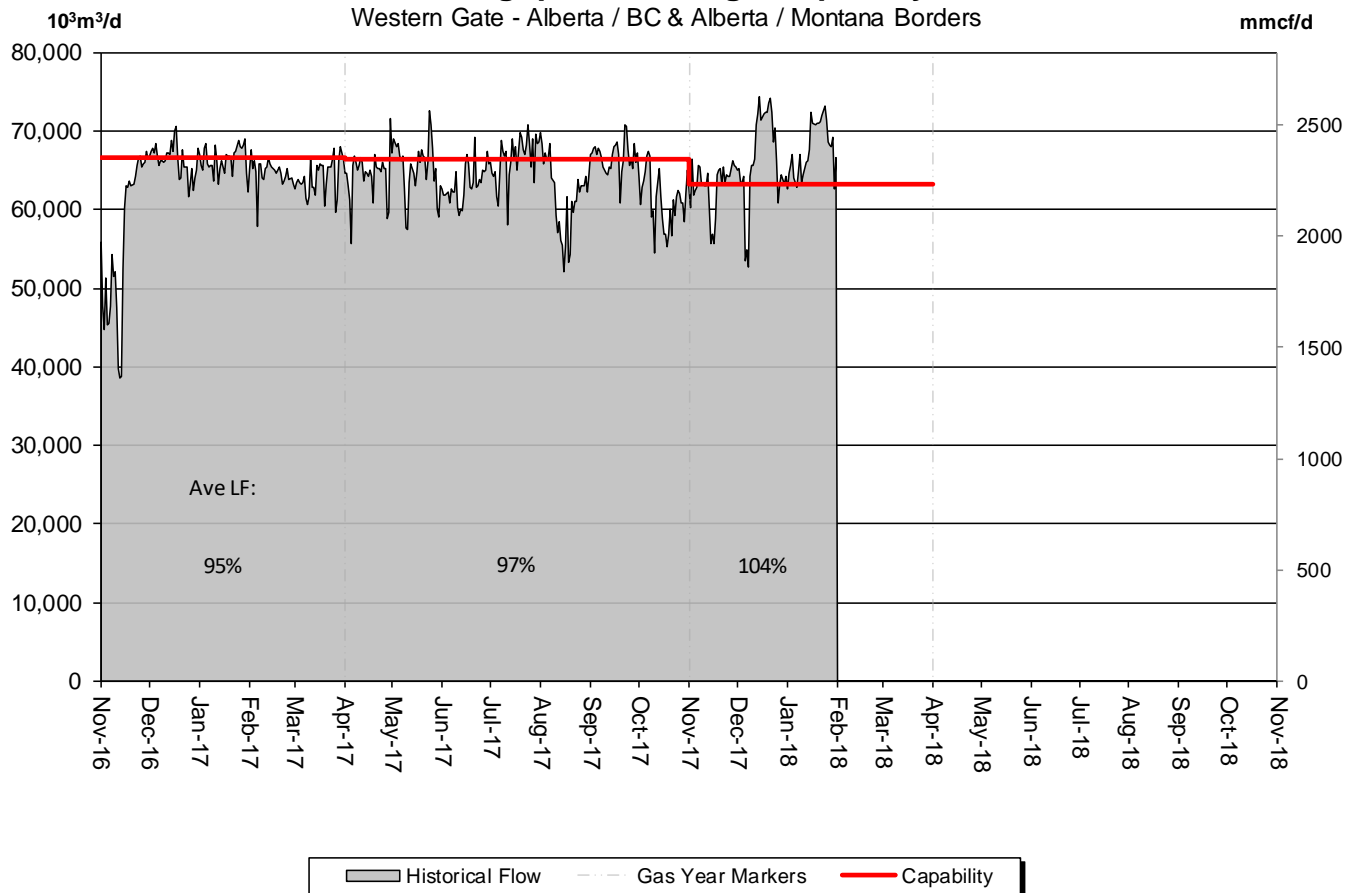
## WESTERN ALBERTA MAINLINE

(Alberta/B.C. and Alberta/Montana Borders)



### Throughput vs. Design Capability

Western Gate - Alberta / BC & Alberta / Montana Borders



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	93%	101%	92%	100%	105%	107%

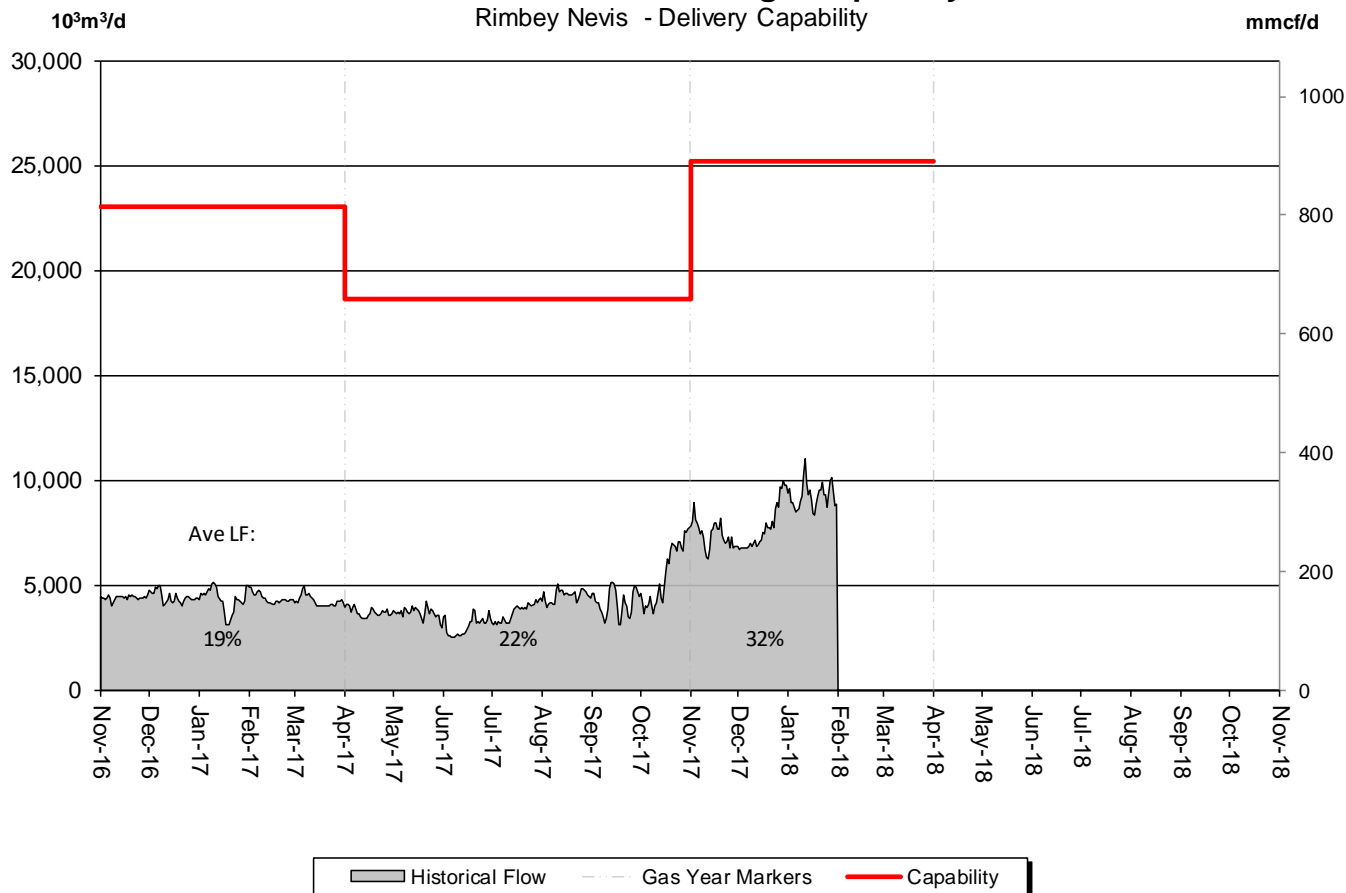
# DESIGN CAPABILITY UTILIZATION

## RIMBEY-NEVIS – FLOW WITHIN



### Total Deliveries vs. Design Capability

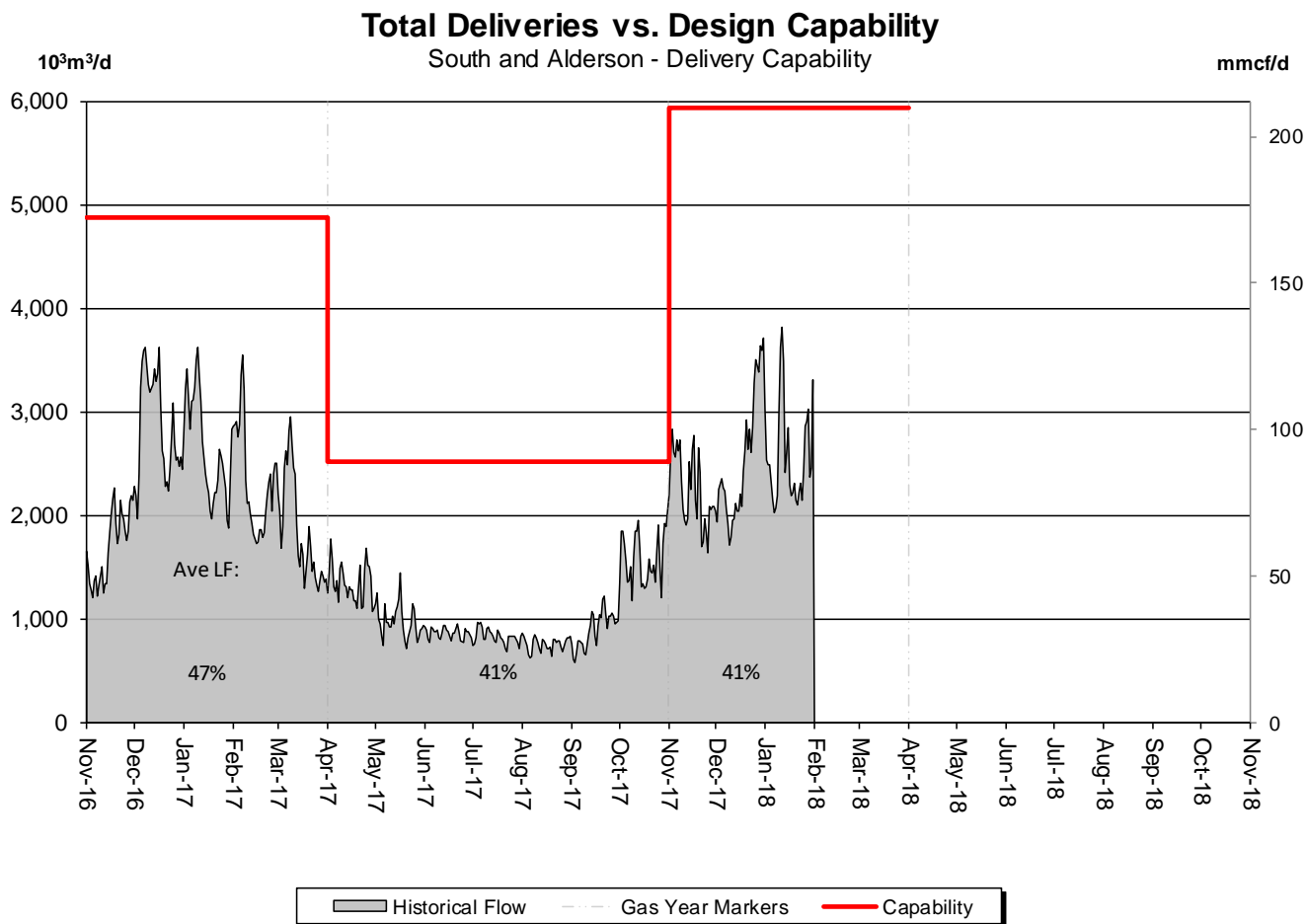
Rimbey Nevis - Delivery Capability



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	24%	22%	29%	29%	31%	37%

# DESIGN CAPABILITY UTILIZATION

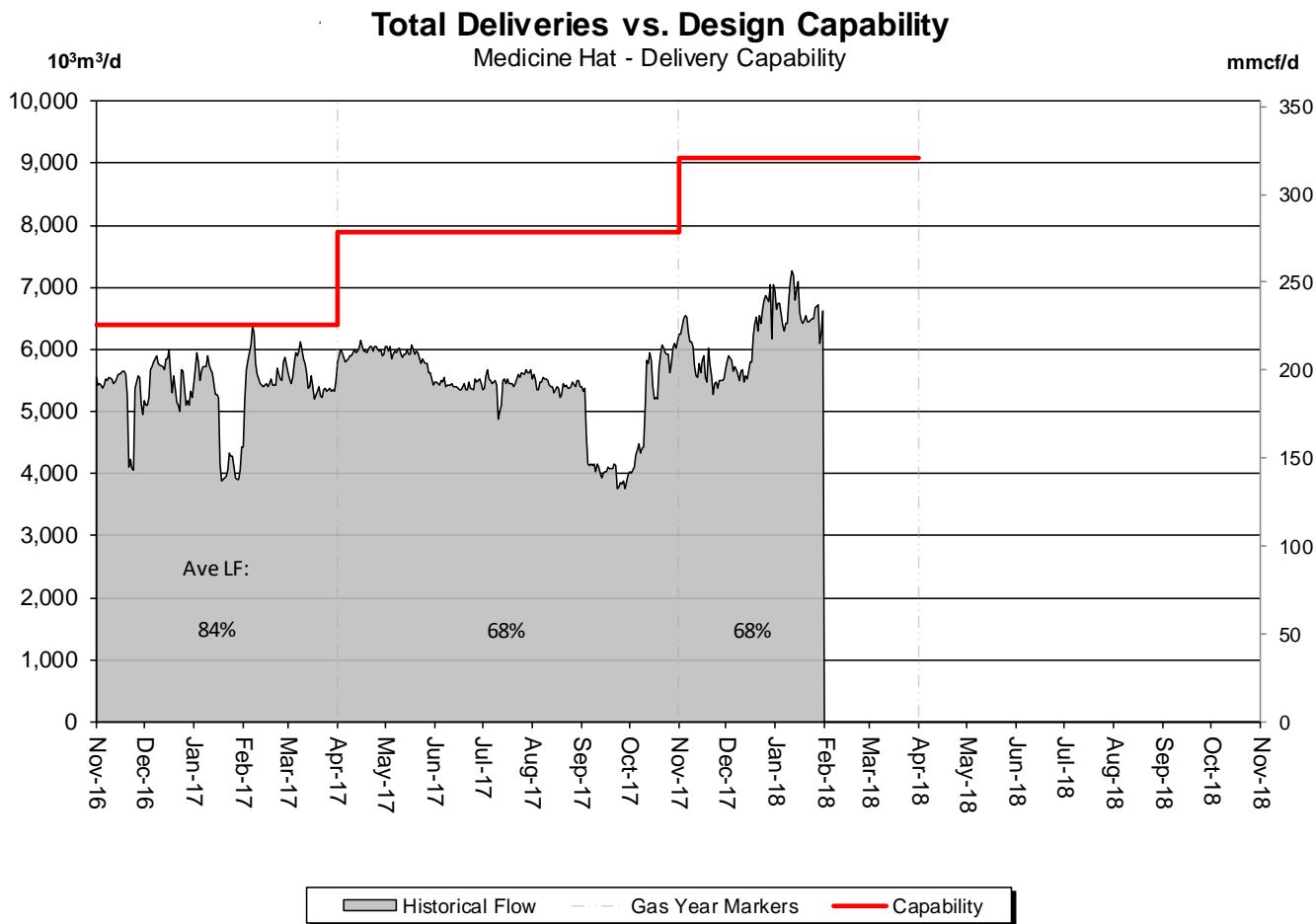
## SOUTH and ALDERSON – FLOW WITHIN



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	30%	35%	62%	38%	43%	44%

# DESIGN CAPABILITY UTILIZATION

## MEDICINE HAT – FLOW WITHIN



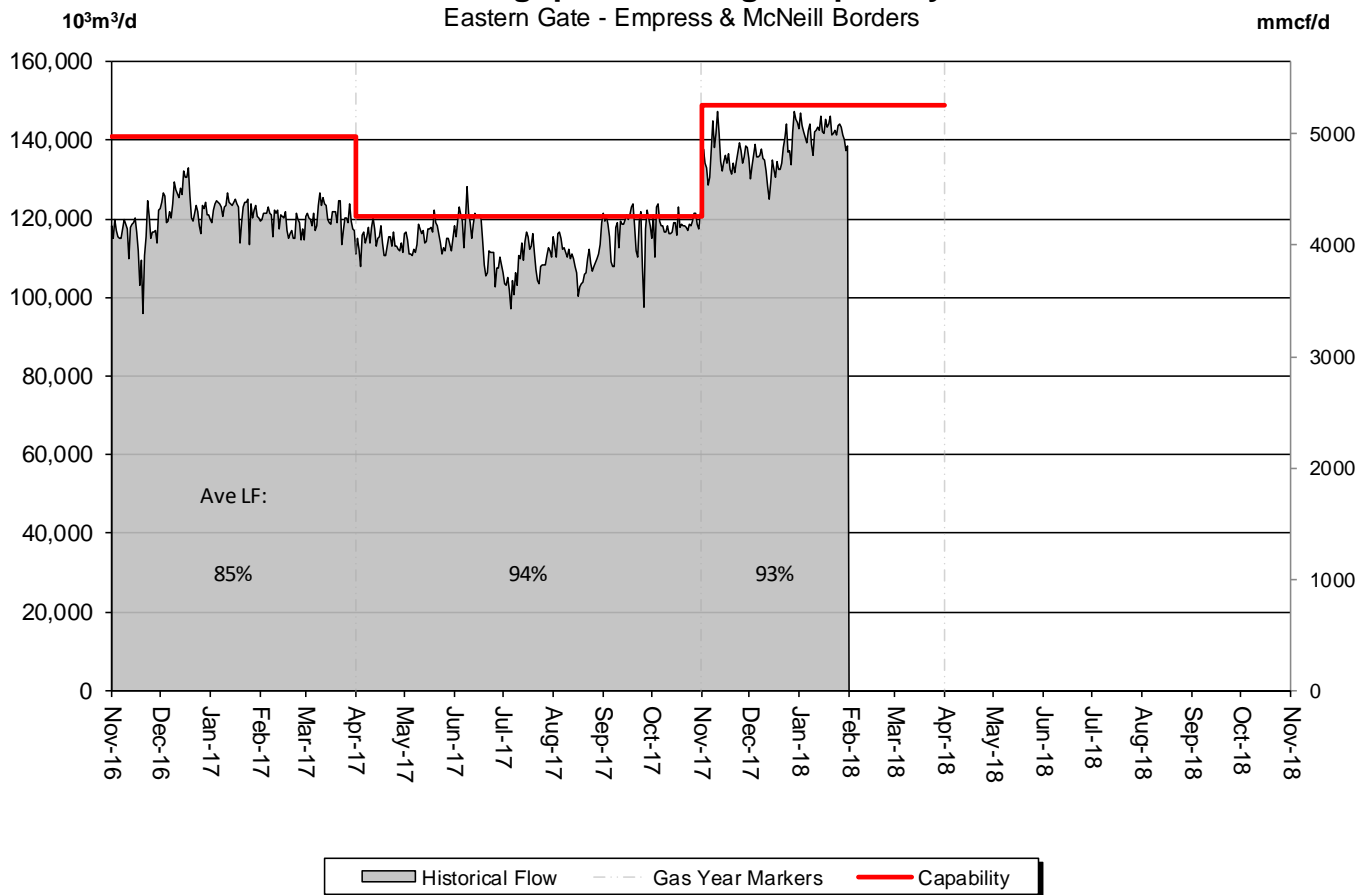
% Design Capability Utilization						
Average	Aug	Sep	Oct	Nov	Dec	Jan
Flow/	69%	53%	67%	64%	67%	73%

# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (Princess to Empress / McNeill)



## Throughput vs. Design Capability

Eastern Gate - Empress & McNeill Borders



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	91%	97%	98%	91%	91%	96%

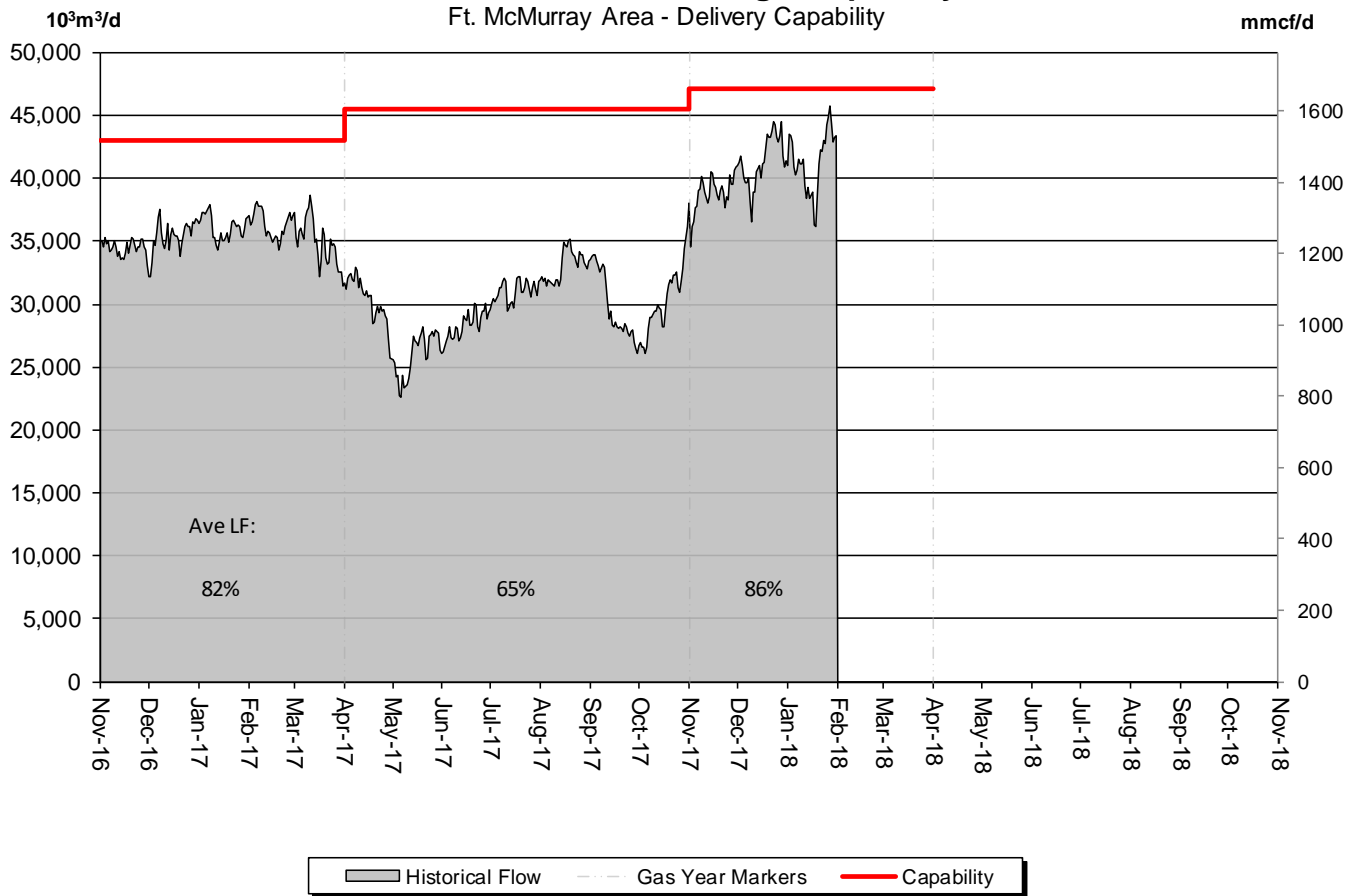
# DESIGN CAPABILITY UTILIZATION

## FT. McMURRAY AREA – FLOW WITHIN



### Total Deliveries vs. Design Capability

Ft. McMurray Area - Delivery Capability



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	73%	65%	66%	82%	88%	88%

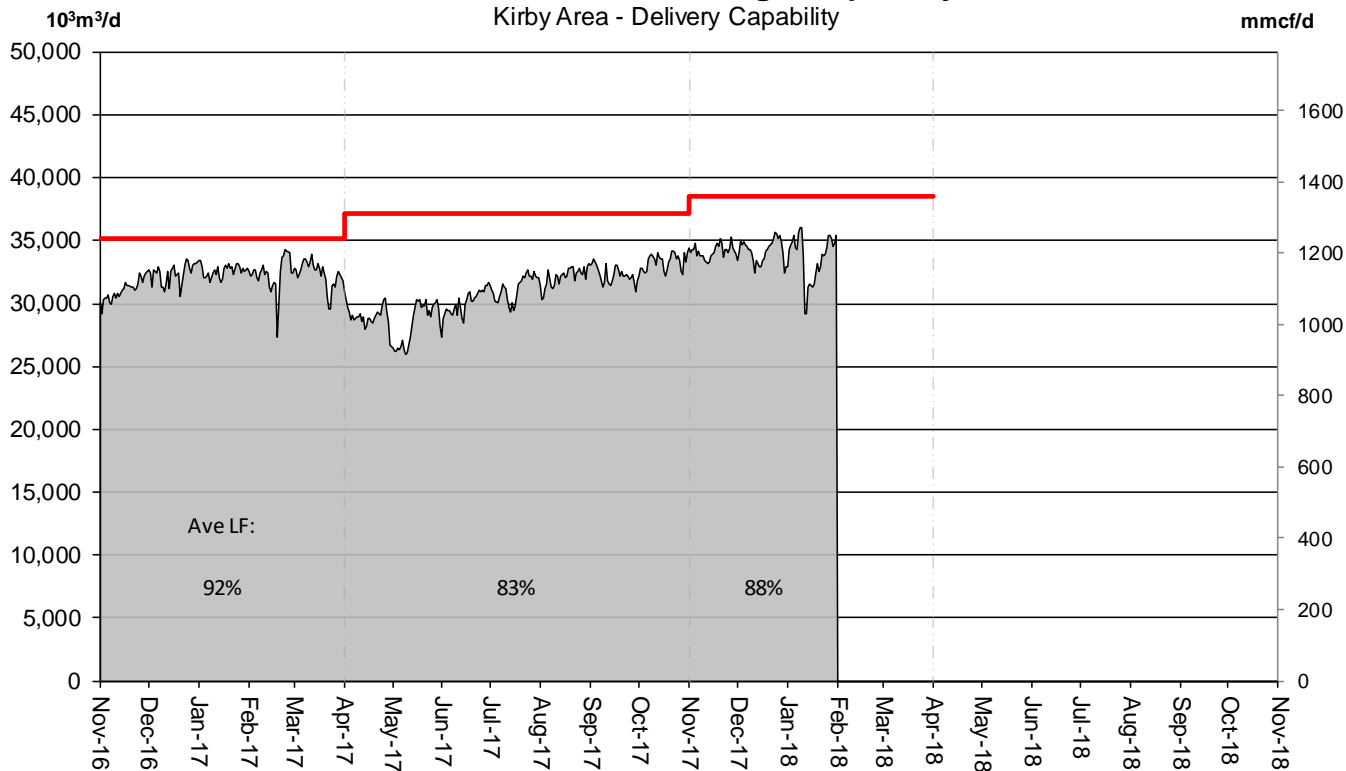
# DESIGN CAPABILITY UTILIZATION

## KIRBY AREA – FLOW WITHIN



### Total Deliveries vs. Design Capability

Kirby Area - Delivery Capability



Historical Flow Gas Year Markers Capability

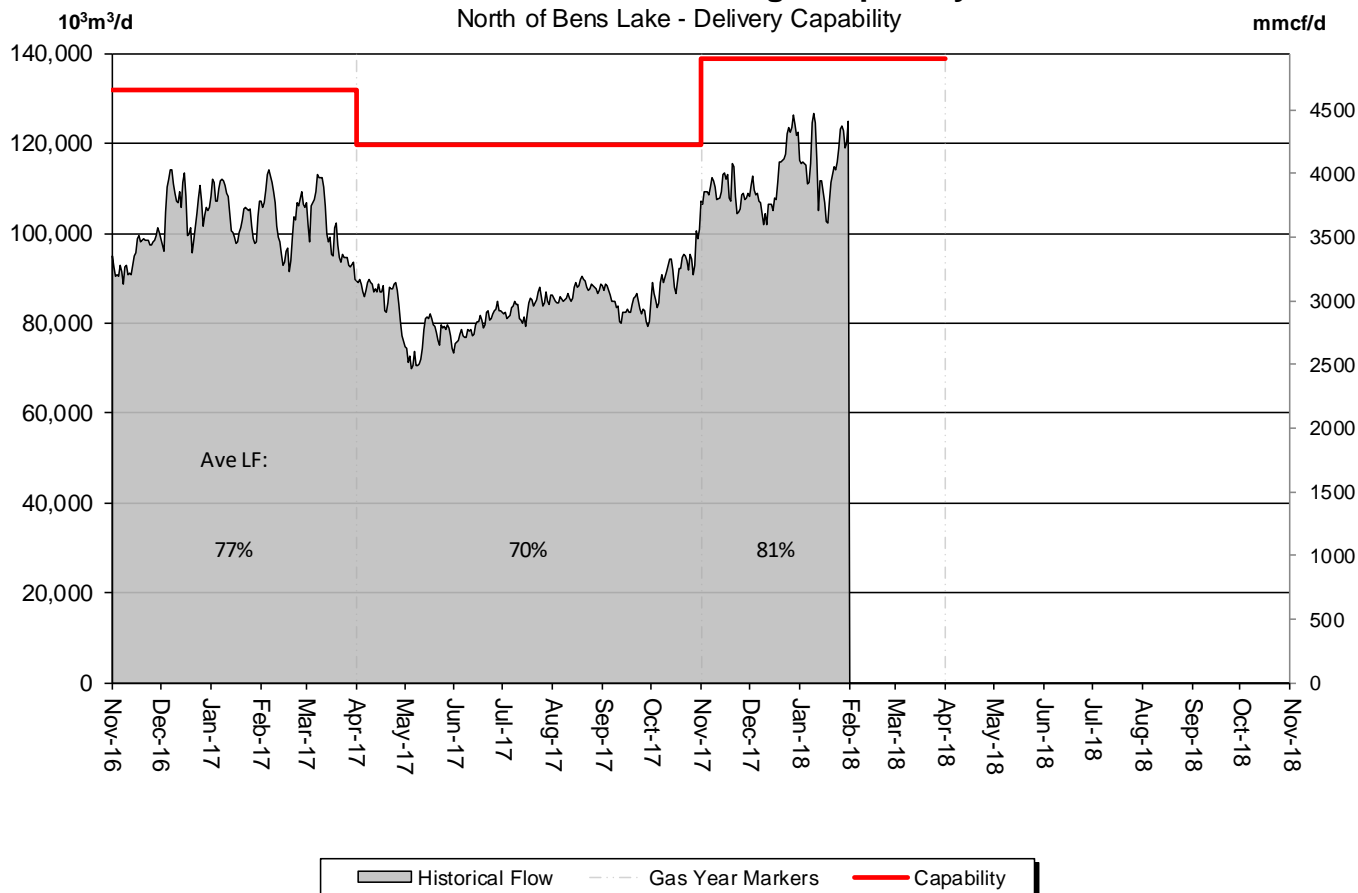
% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	86%	87%	90%	89%	89%	87%

# DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



## Total Deliveries vs. Design Capability

North of Bens Lake - Delivery Capability



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	73%	70%	77%	79%	81%	83%

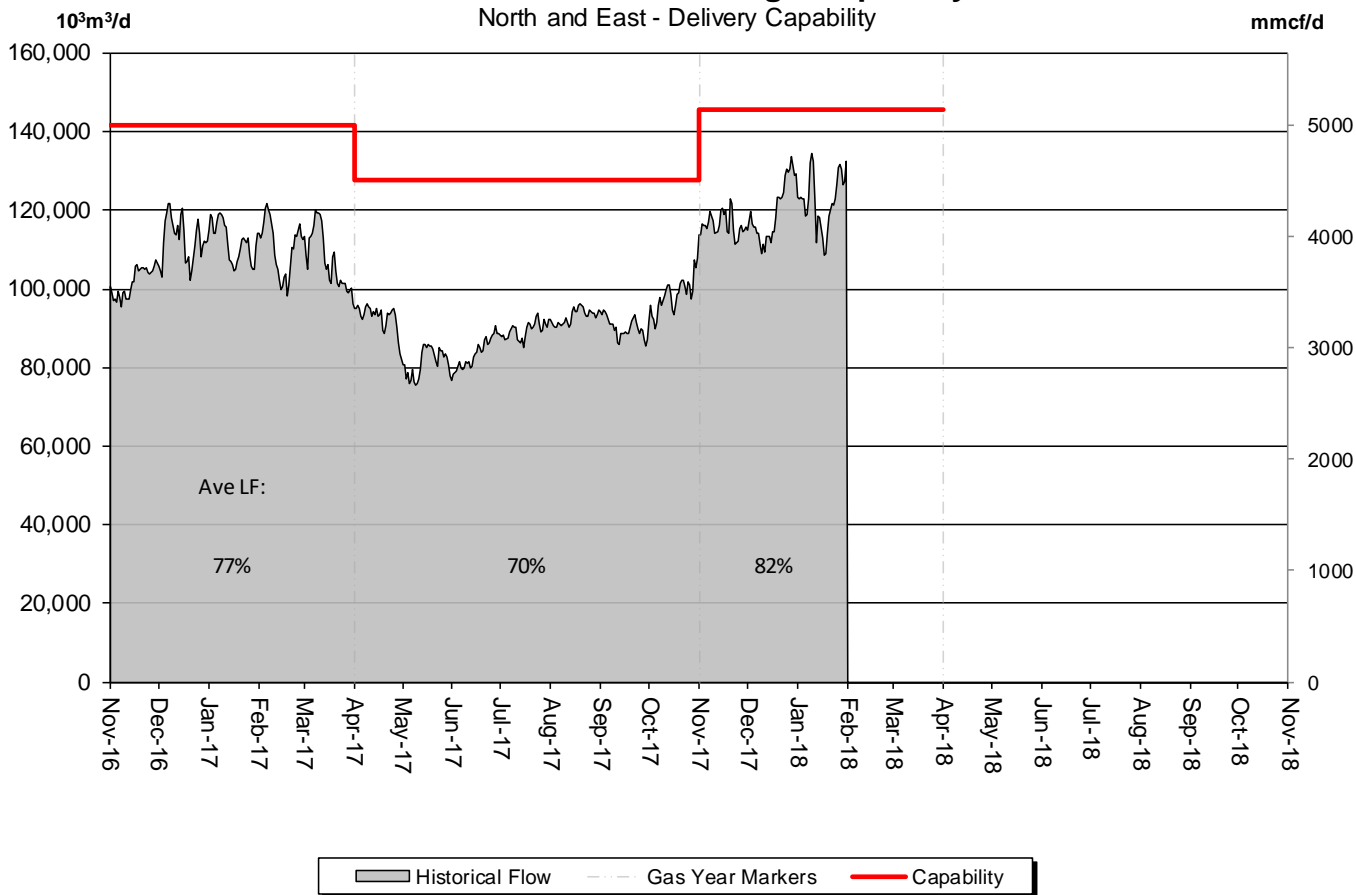
# DESIGN CAPABILITY UTILIZATION

## NORTH & SOUTH OF BENS LAKE – FLOW WITHIN



### Total Deliveries vs. Design Capability

North and East - Delivery Capability



% Design Capability Utilization						
Average Flow/	Aug	Sep	Oct	Nov	Dec	Jan
	73%	71%	77%	80%	82%	84%

# FUTURE FIRM TRANSPORTATION SERVICE AVAILABILITY

---

*Please consult with your Customer Account Manager to discuss your Firm Transportation Service needs.*

## Estimated Firm Transportation Service Availability

Please refer to the following web site for  
current FT-R / FT-D Availability Maps:

[http://www.tccustomerexpress.com/2801.  
html](http://www.tccustomerexpress.com/2801.html)

# HOW TO USE THIS REPORT

---

## **Overview**

This report contains recent historical information on the level of utilization of firm transportation Service Agreements on the NGTL system, relative usage of interruptible service, level of utilization of design pipeline capacity.

Data is reported either by ***Pipeline Segment*** (26 segments make up the system, without 23 & 27) or ***Design Area*** (13 Design Areas for the system). Maps of both are included in the reference section.

## **Firm Transportation Service Contract Utilization**

The Firm Transportation Service Contract Utilization report shows the percent utilization for each of the 26 NGTL pipeline segments and 3 major export delivery points comprising the total system. The utilization data is based on billed monthly volumes. Percent utilization is calculated as firm transportation service and firm transportation service + interruptible service divided by applicable receipt or delivery contract level. Historical Data involving billed volumes lags the current date by approximately two months.

## **Design Capability Utilization**

The load factor/segment flow graphs show actual flow versus design capability values for various NGTL system areas. The graphs also show seasonal (winter/summer) design capability and average load factors (LF) for each season. Load factors are obtained by comparing the receipt, delivery, or throughput flow condition in each of the Alberta design areas against the corresponding design capability. Consequently, design capability utilization is measured as Average Actual Flow / Seasonal Design Capability. Data used in these reports lags the current date by at least one month.

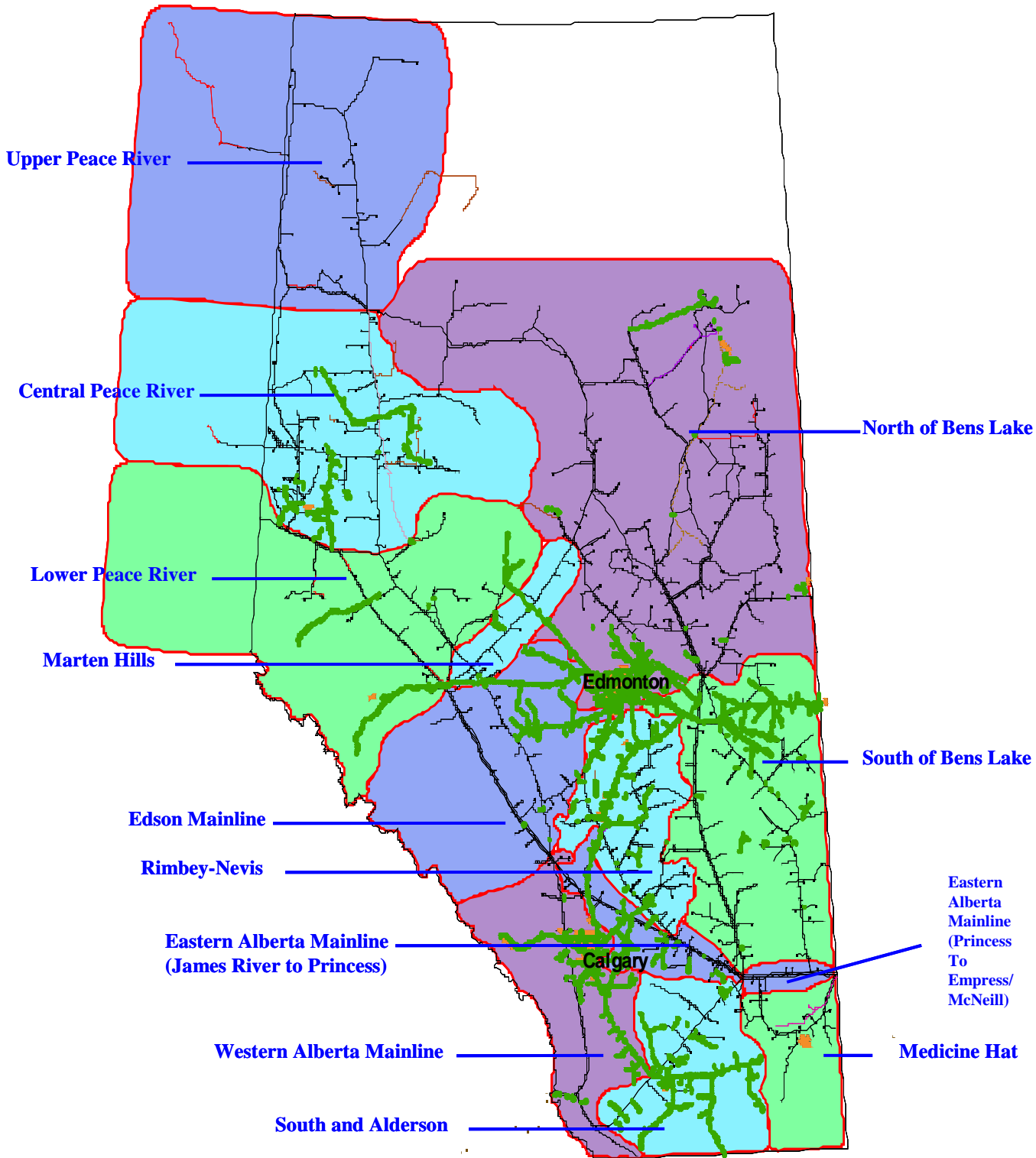
Design Flow Capability utilization is a function of several factors that include:

- Total market demand for Alberta natural gas.
- Seasonal changes in market demand for Alberta natural gas.
- Receipt nominating practices of customers individually and in aggregate to meet that level of demand.
- Scheduled maintenance which could effect actual flow requirement in a design area at any given time.
- Design assumptions used in determining required segment flow requirement.

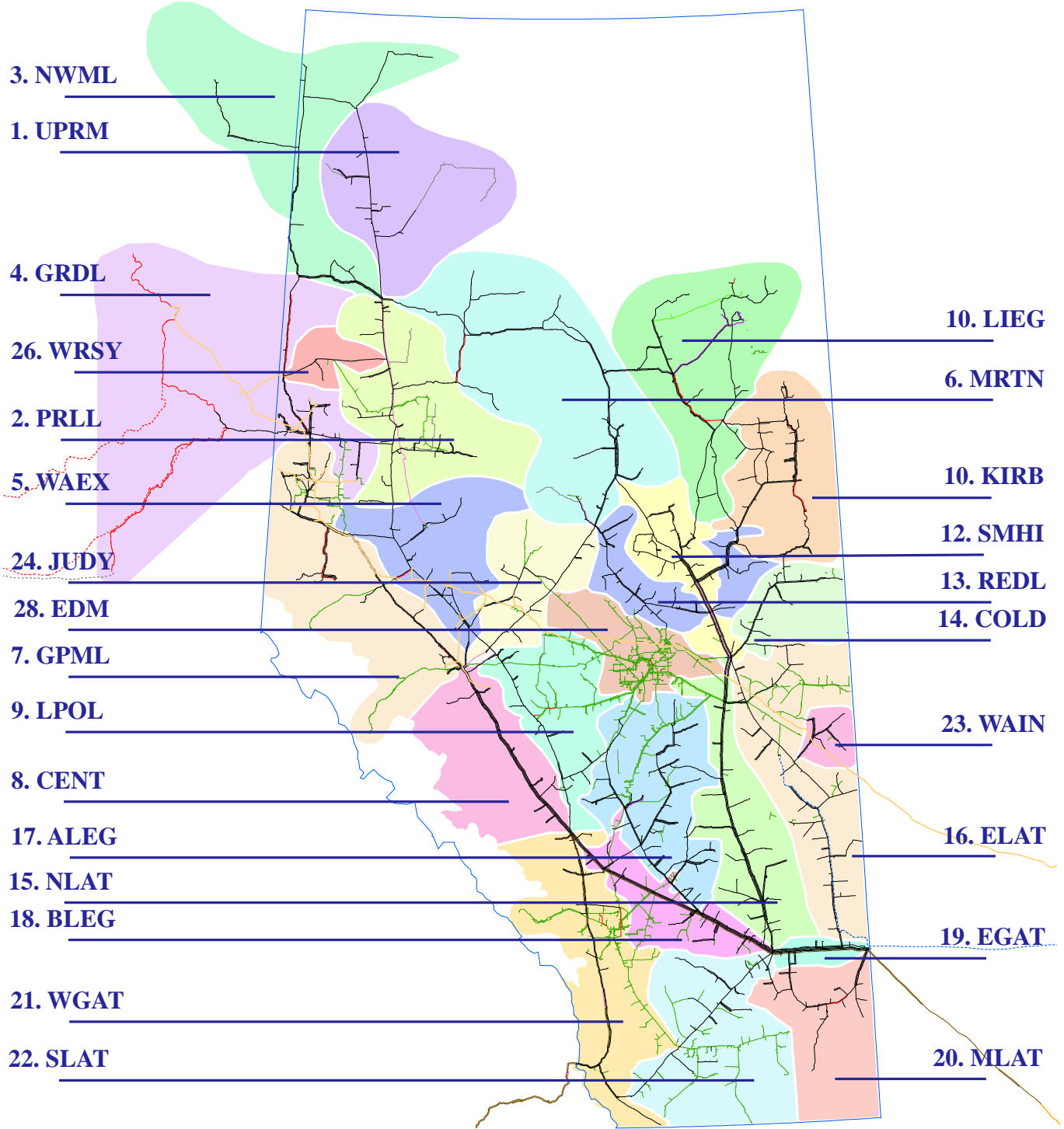
## **Future Firm Transportation Service Availability**

The Future Firm Transportation Service Availability report presents guidelines and timing for all future firm transportation service requests.

# NGTL Design Areas



(Last updated Nov 2011)



**Last Update May, 2015**

# DEFINITION OF TERMS

---

## *Design Capability Utilization*

### *Actual Flow*

The amount of gas flowing within or out of the design area.

### *Design Capability*

The volume of gas that can be transported from the design area on the pipeline system considering given design assumptions.

### *AVGLF (Average Load Factor)*

The ratio between average *Actual Flow* and *Design Capability*. It is calculated for every design season (summer/winter) as shown on the graphs.

### *Intra NGTL System Deliveries*

The amount of sales gas flowing off the system within an area.

### *Receipt Flow*

Aggregate of actual receipts within an area and the *Actual Flow* of the upstream area.

---

## *Other*

### *System Load Factor*

The volume weighted average of the *Average Load Factor (AVGLF)* of all design areas on the system

---