SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

June 2019

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

Published date:
August 15th, 2019

Highlights This Month:

- N/A

NOVA Gas Transmission Ltd.

TC Energy

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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.

TC Energy

FIRM TRANSPORTATION SERVICE[1] CONTRACT UTILIZATION[3]

By NGTL Pipeline Segments

June 2019

		Delivery		Receipt	
Segment	Contract	Utilization	Jun CD (TJ/d)	Utilization	Jun CD (MMcf/d)
UPRM	FT	0%	0.0	32%	84
	FT + IT[2]	0%		32%	
PRLL	FT	37%	30.4	81%	243
	FT + IT	41%		83%	
NWML	FT	41%	7.0	60%	294
	FT + IT	42%		60%	
GRDL	FT	0%	0.0	85%	3,434
	FT + IT	0%		85%	
WAEX	FT	55%	16.0	79%	881
	FT + IT	129%		79%	
JUDY	FT	42%	18.0	68%	38
	FT + IT	47%		79%	
GPML	FT	47%	199.3	77%	5,033
	FT + IT	115%		78%	
CENT	FT	0%	0.0	58%	2,516
	FT + IT	0%		59%	
LPOL	FT	47%	95.0	63%	1,021
	FT + IT	141%		65%	
WGAT	FT	77%	3,939.9	90%	231
	FT + IT	80%		102%	
ALEG	FT	39%	378.5	83%	542
	FT + IT	41%		98%	
SLAT	FT	16%	178.8	90%	149
	FT + IT	16%		105%	
MLAT	FT	91%	262.1	94%	67
	FT + IT	91%		120%	
BLEG	FT	44%	184.8	92%	377
	FT + IT	45%		111%	
EGAT	FT	100%	4,278.4	82%	17
	FT + IT	102%		100%	
MRTN	FT	38%	16.3	77%	44
	FT + IT	38%		87%	
LIEG	FT	67%	2,101.3	68%	22
	FT + IT	67%		107%	
KIRB	FT	76%	1,724.4	57%	7
	FT + IT	76%		167%	
SMHI	FT	58%	12.0	72%	14
	FT + IT	58%		78%	
REDL	FT	11%	14.0	59%	11
	FT + IT	11%		134%	
COLD	FT	62%	211.8	63%	5
	FT + IT	62%		191%	
EDM	FT	36%	1,882.1	59%	28
	FT + IT	36%		89%	
NLAT	FT	70%	30.9	94%	76
	FT + IT	76%		129%	
WAIN	FT	7%	0.3	97%	3
	FT + IT	12%		149%	
ELAT	FT	78%	317.8	88%	88
	FT + IT	78%		113%	
TOTAL SYSTEM	FT	74%	15,898.9	76%	15,225
	FT + IT	77%		78%	

*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.

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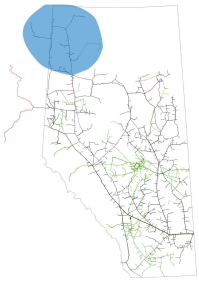
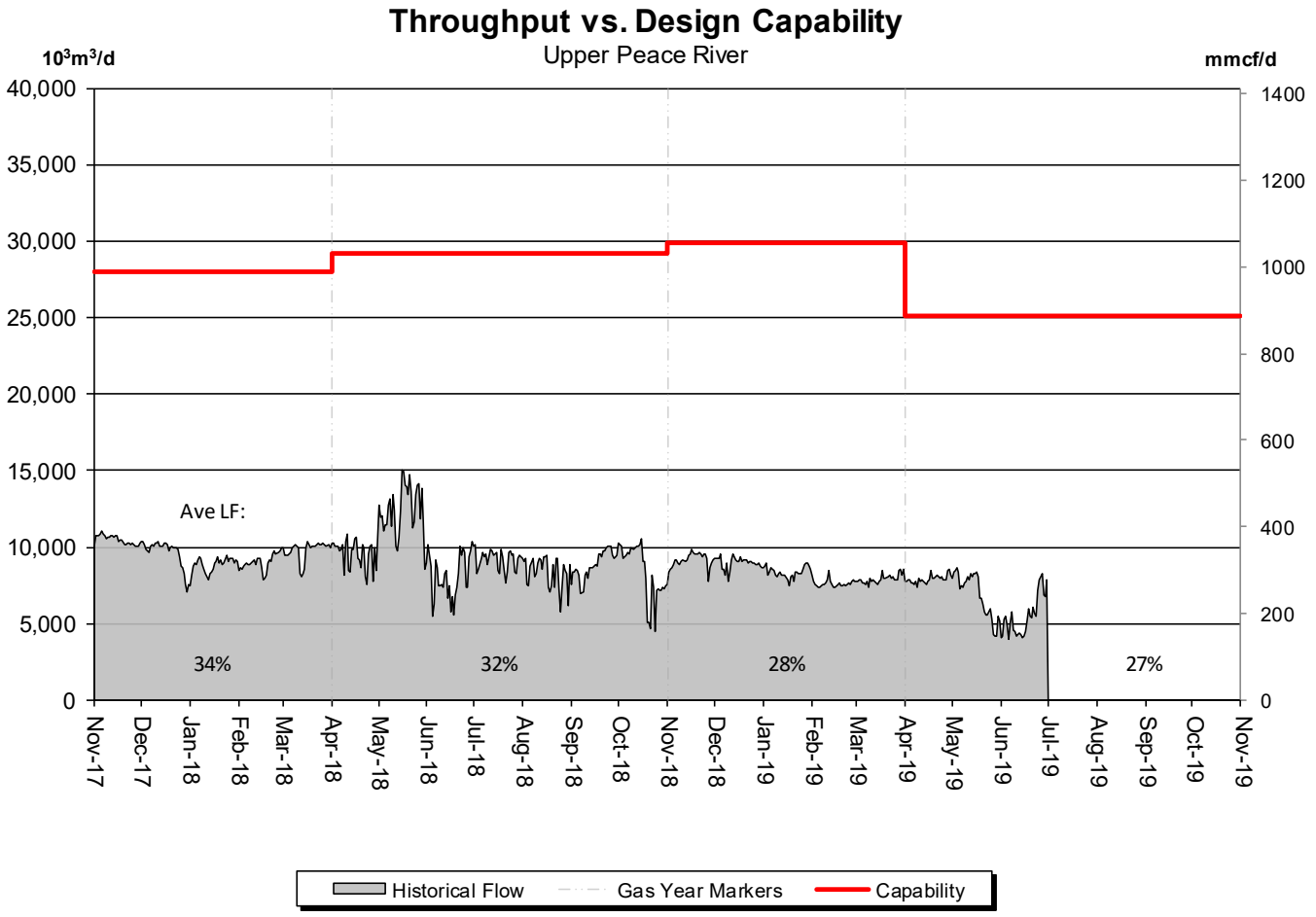
DESIGN CAPABILITY UTILIZATION
UPPER PEACE RIVER





% Design Capability Utilization						
Average	Jan	Feb	Mar	Apr	May	Jun
Flow/	28%	26%	27%	32%	28%	21%

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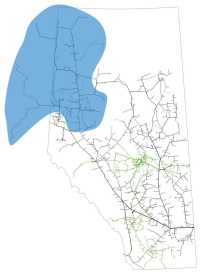
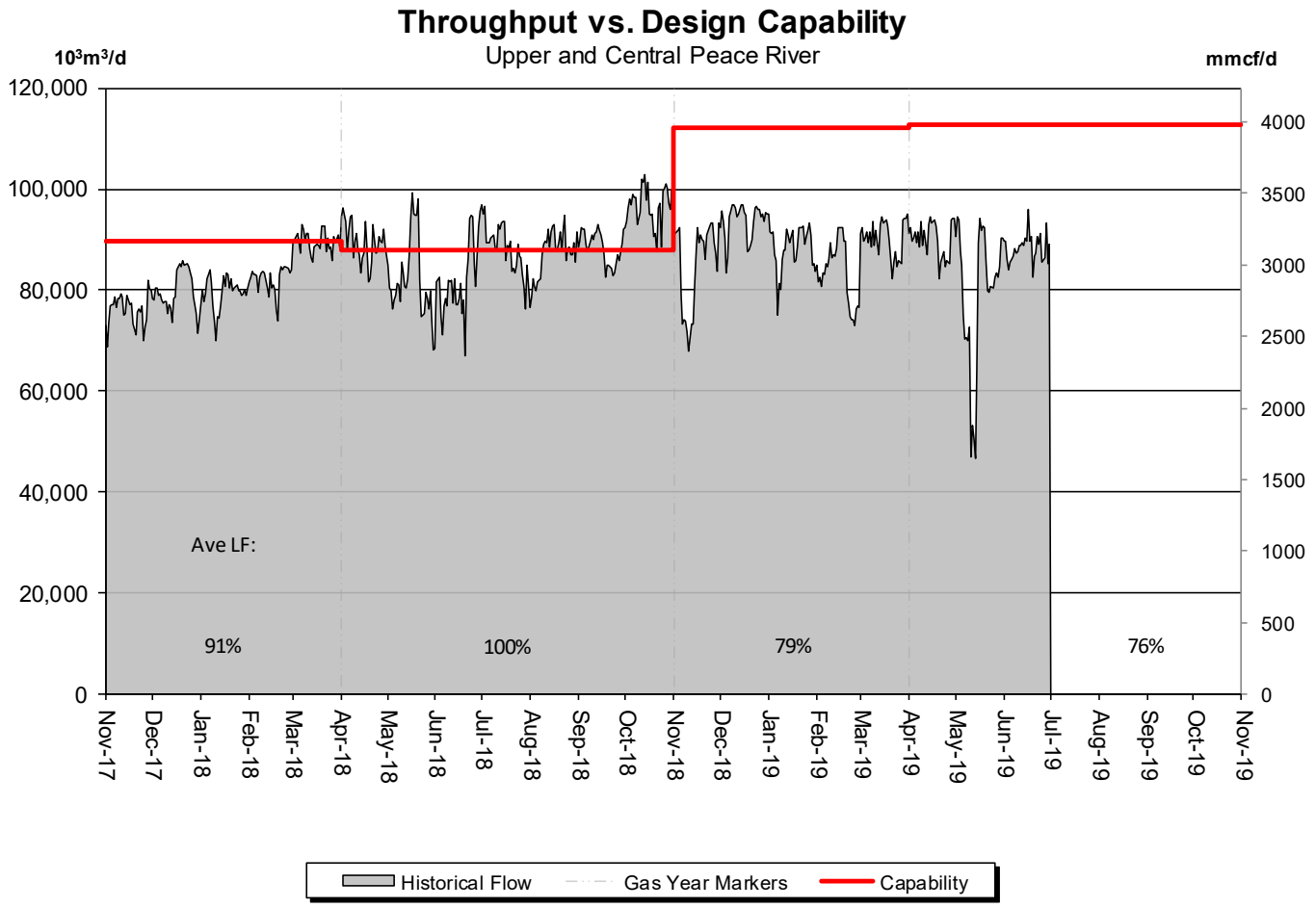
DESIGN CAPABILITY UTILIZATION
UPPER and CENTRAL PEACE RIVER





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	79%	74%	81%	80%	70%	78%

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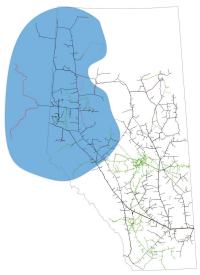
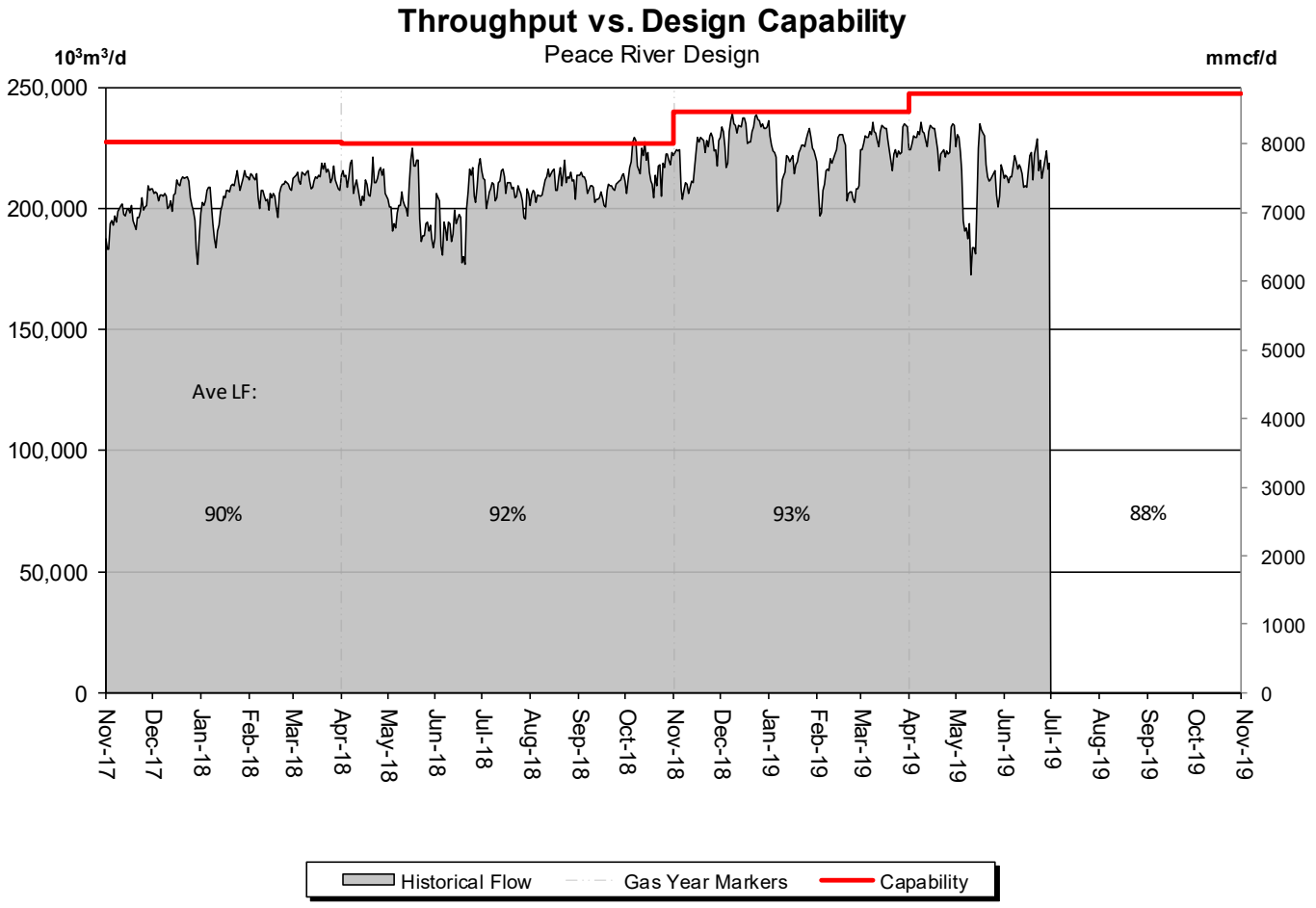
DESIGN CAPABILITY UTILIZATION
PEACE RIVER DESIGN
(Upper, Central and Lower Peace River)





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	92%	89%	95%	92%	85%	88%

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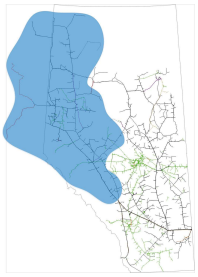
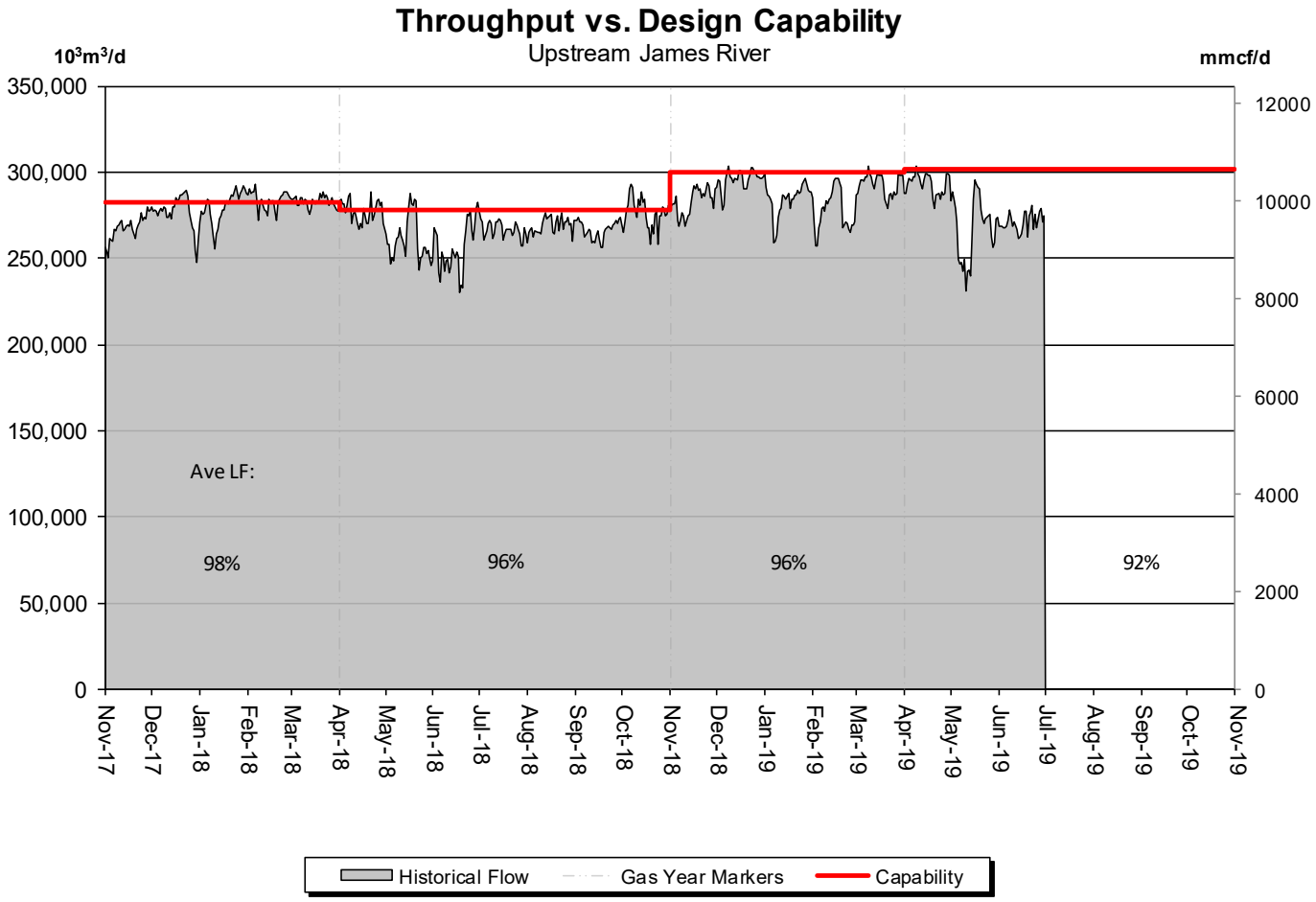
DESIGN CAPABILITY UTILIZATION
UPSTREAM JAMES RIVER
(Edson Mainline, Peace River Design and Marten Hills)





% Design Capability Utilization						
Average	Jan	Feb	Mar	Apr	May	Jun
Flow/	95%	93%	98%	97%	88%	90%

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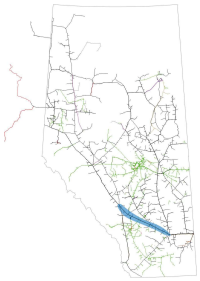
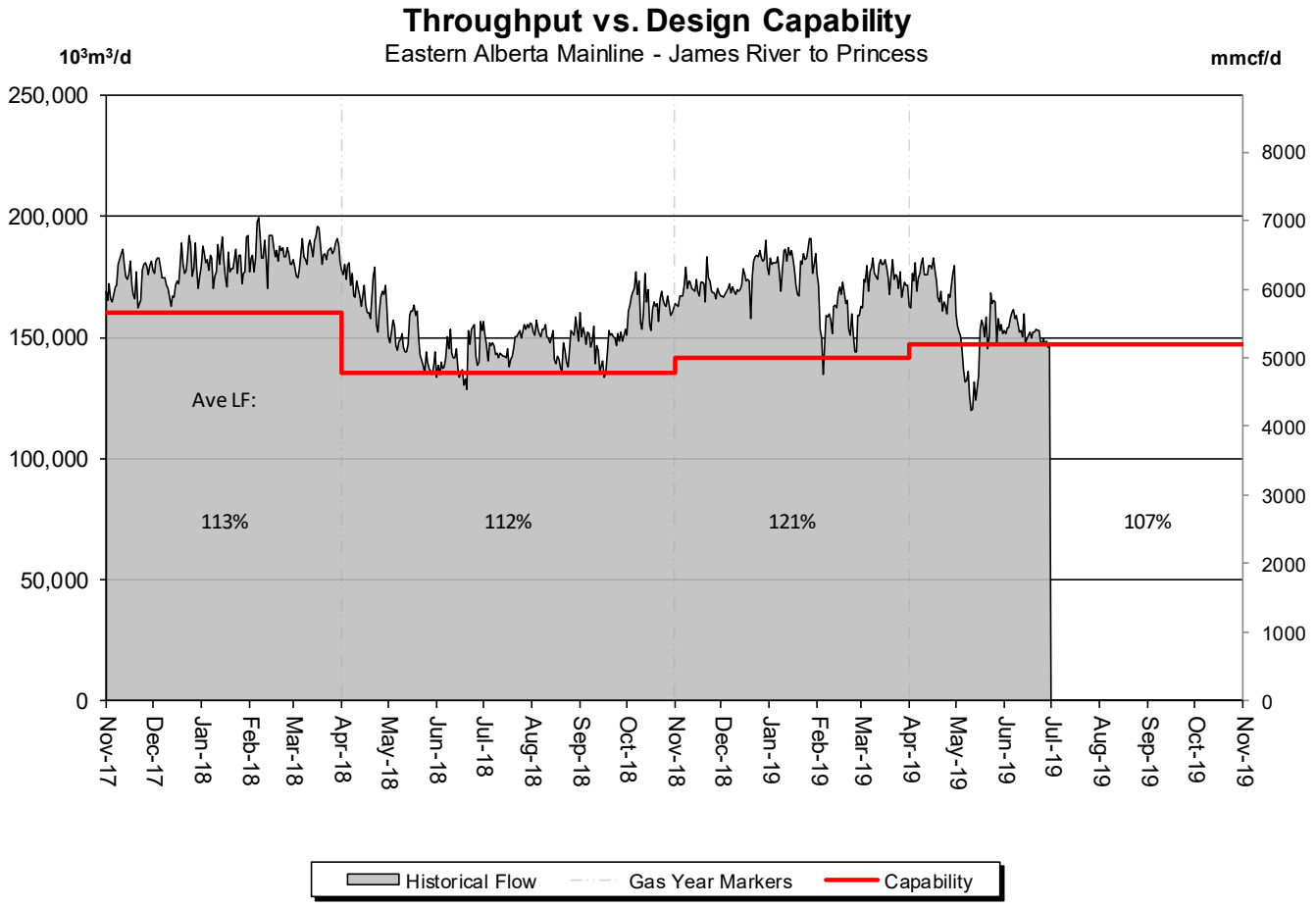
DESIGN CAPABILITY UTILIZATION
EASTERN ALBERTA MAINLINE
(James River to Princess)





% Design Capability Utilization						
Average	Jan	Feb	Mar	Apr	May	Jun
Flow/	128%	112%	123%	117%	100%	103%

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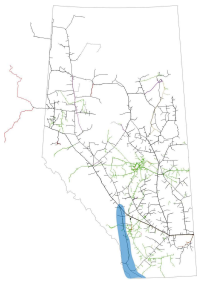
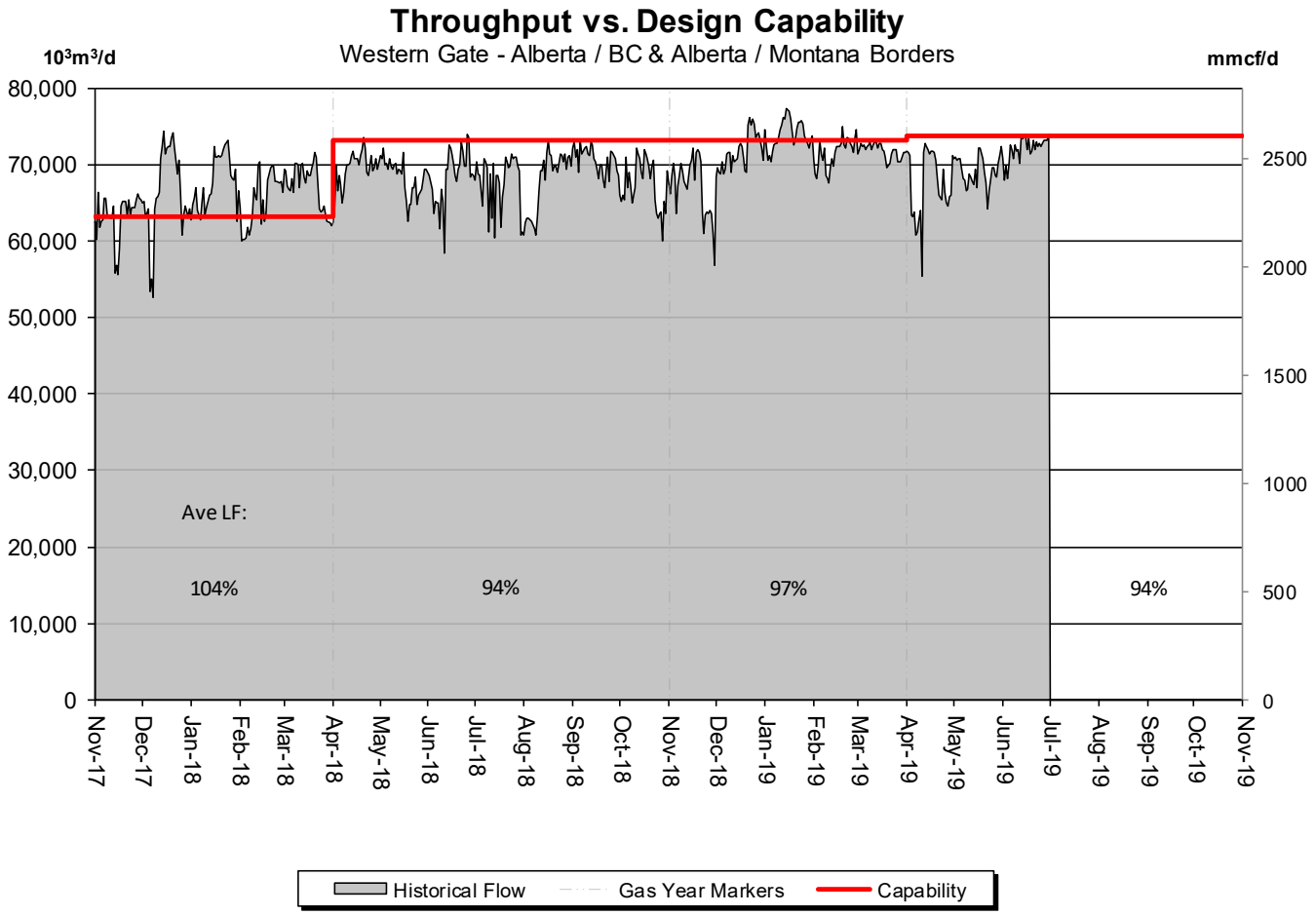
DESIGN CAPABILITY UTILIZATION
WESTERN ALBERTA MAINLINE
(Alberta/B.C. and Alberta/Montana Borders)





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	101%	98%	98%	91%	94%	98%

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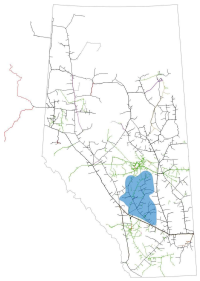
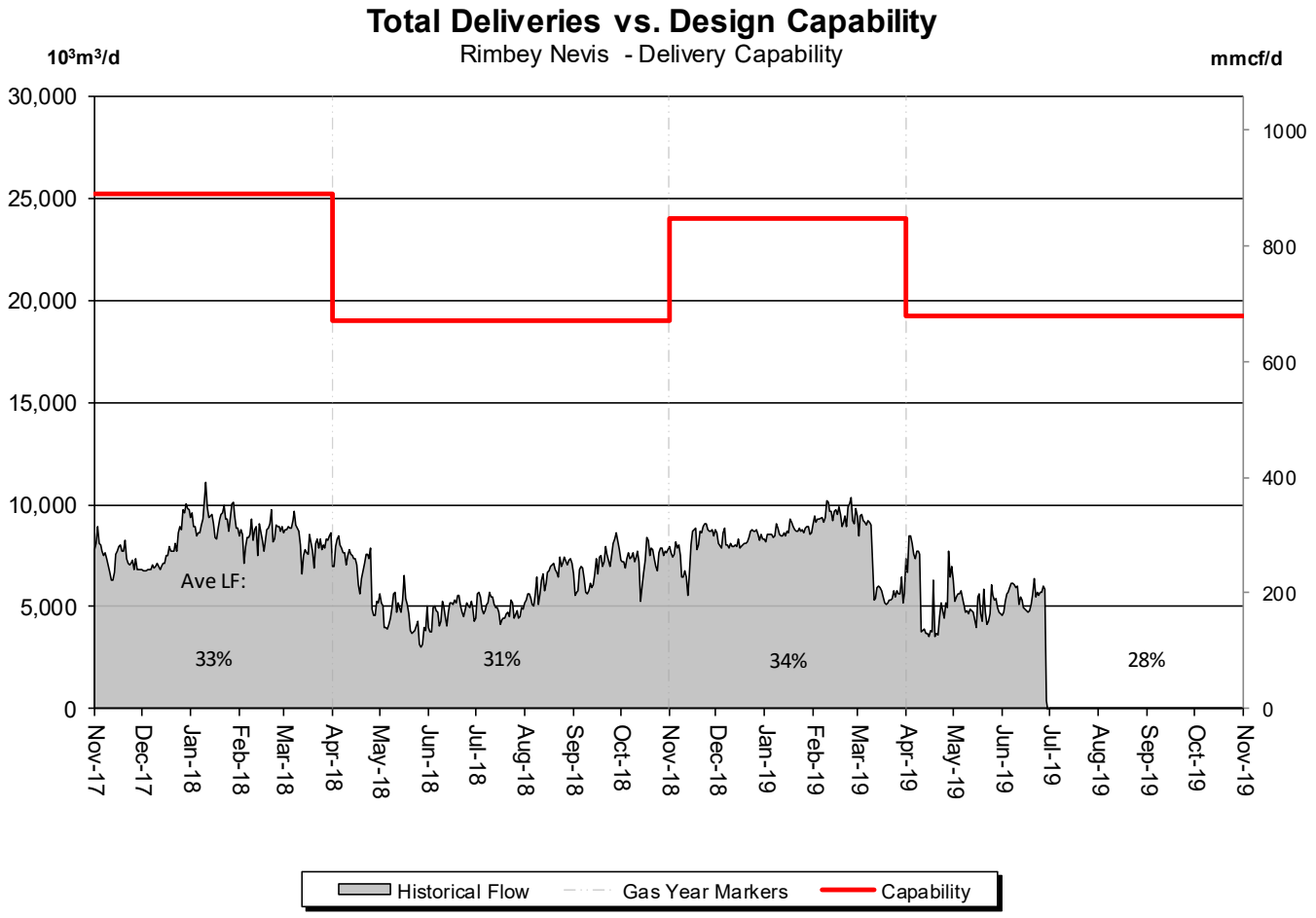
DESIGN CAPABILITY UTILIZATION
RIMBEY-NEVIS – FLOW WITHIN





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	36%	40%	28%	29%	26%	27%

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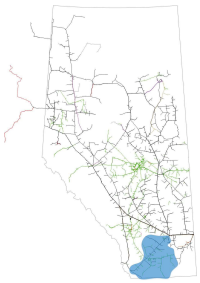
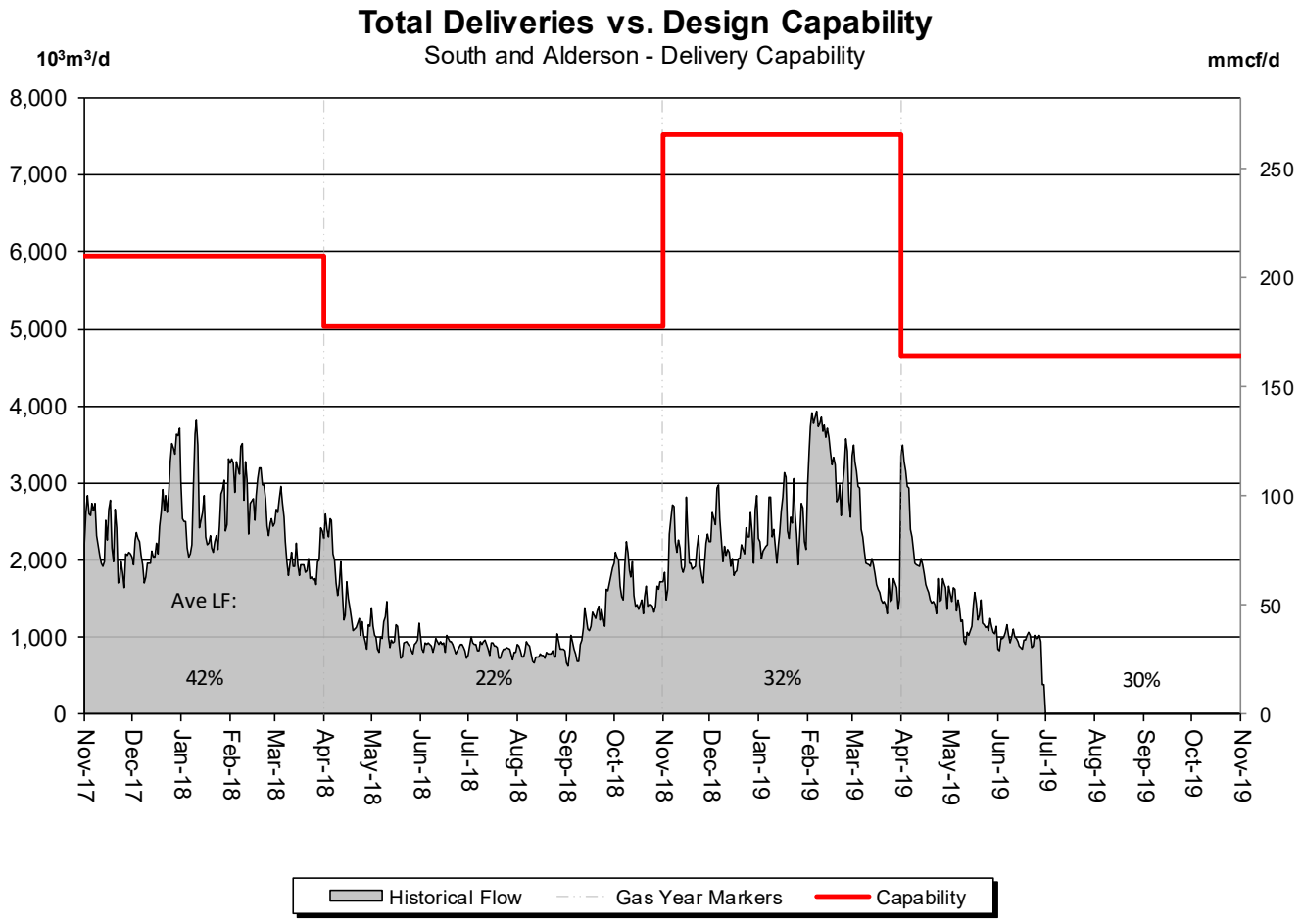
DESIGN CAPABILITY UTILIZATION
SOUTH and ALDERSON – FLOW WITHIN





% Design Capability Utilization						
Average	Jan	Feb	Mar	Apr	May	Jun
Flow/	32%	45%	27%	43%	27%	20%

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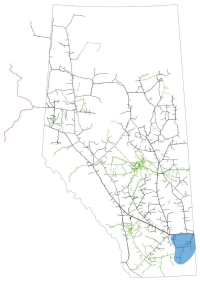
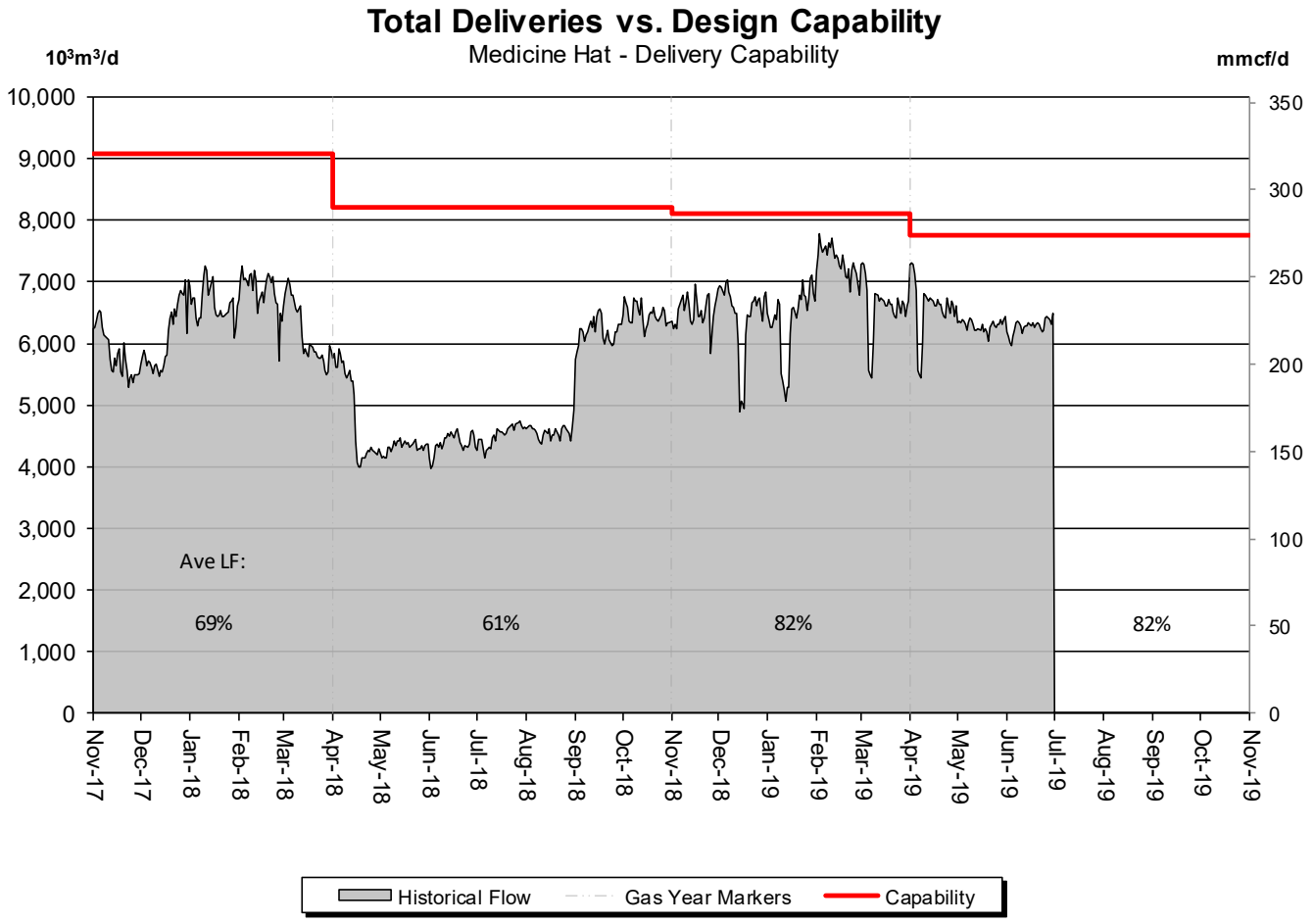
DESIGN CAPABILITY UTILIZATION
MEDICINE HAT – FLOW WITHIN





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	79%	90%	81%	85%	81%	81%

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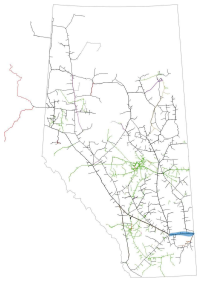
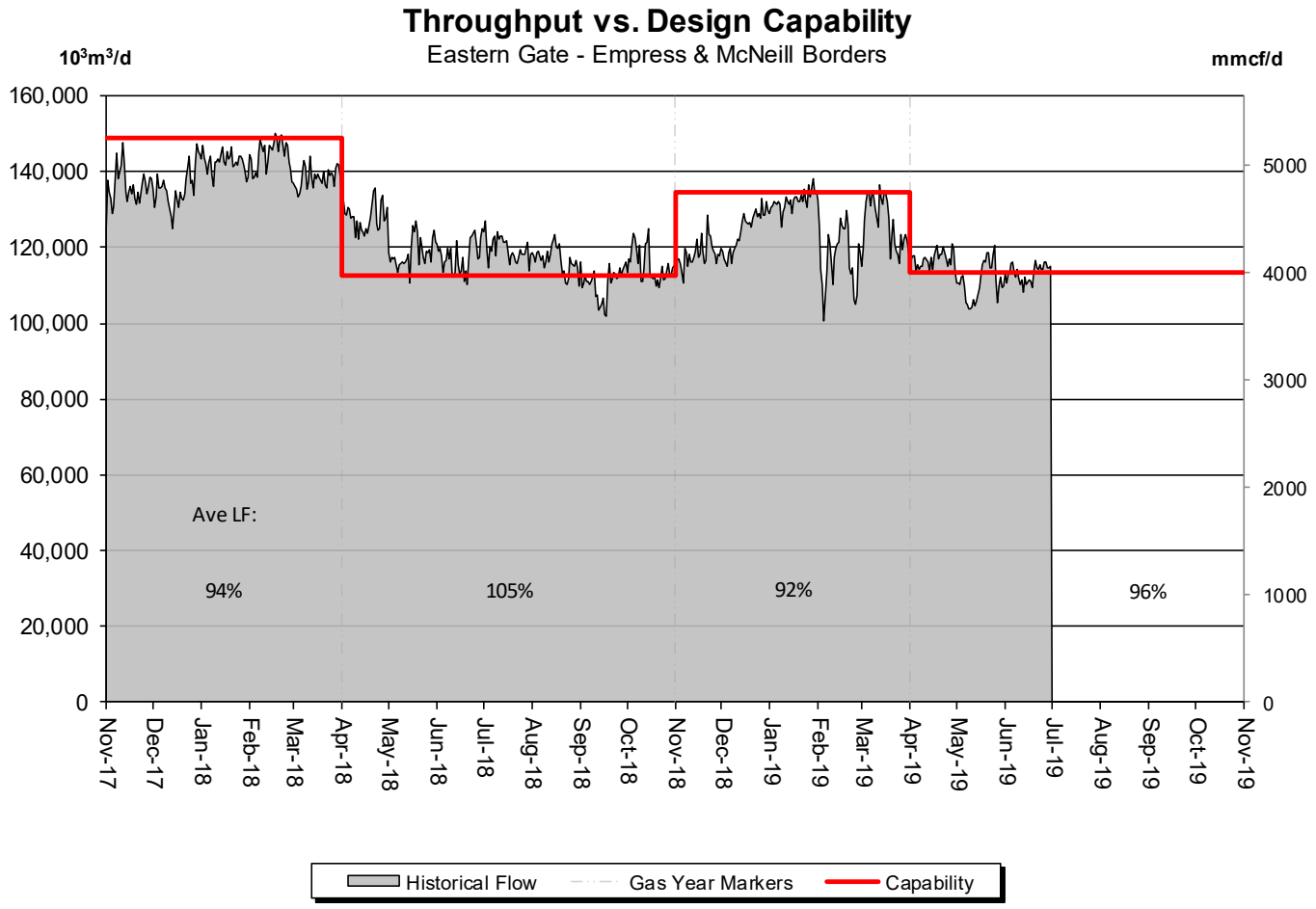
DESIGN CAPABILITY UTILIZATION
EASTERN ALBERTA MAINLINE
(Princess to Empress / McNeill)





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	98%	88%	94%	103%	98%	92%

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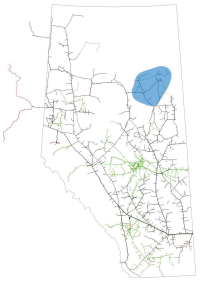
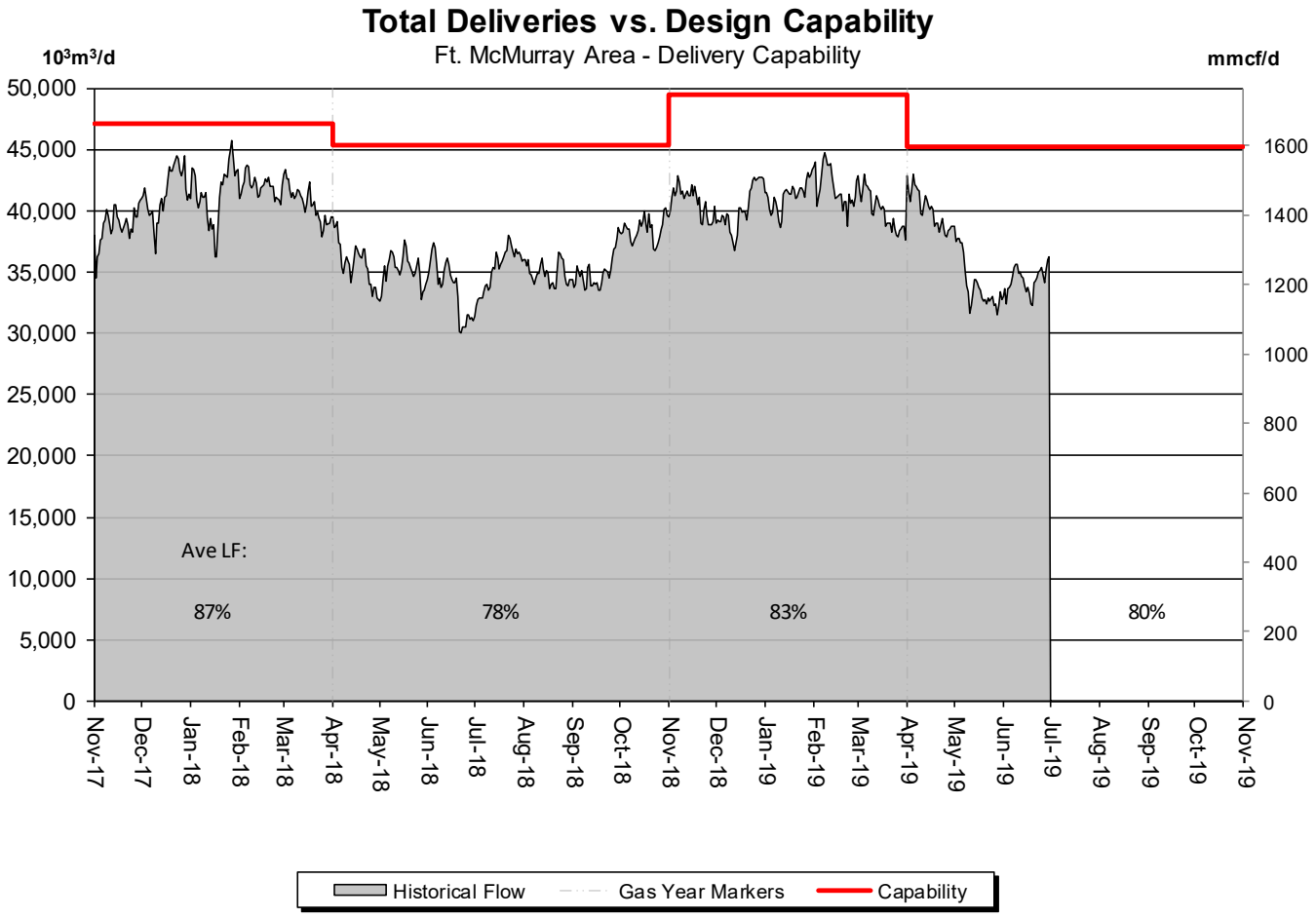
DESIGN CAPABILITY UTILIZATION
FT. McMURRAY AREA – FLOW WITHIN

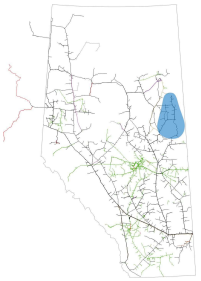


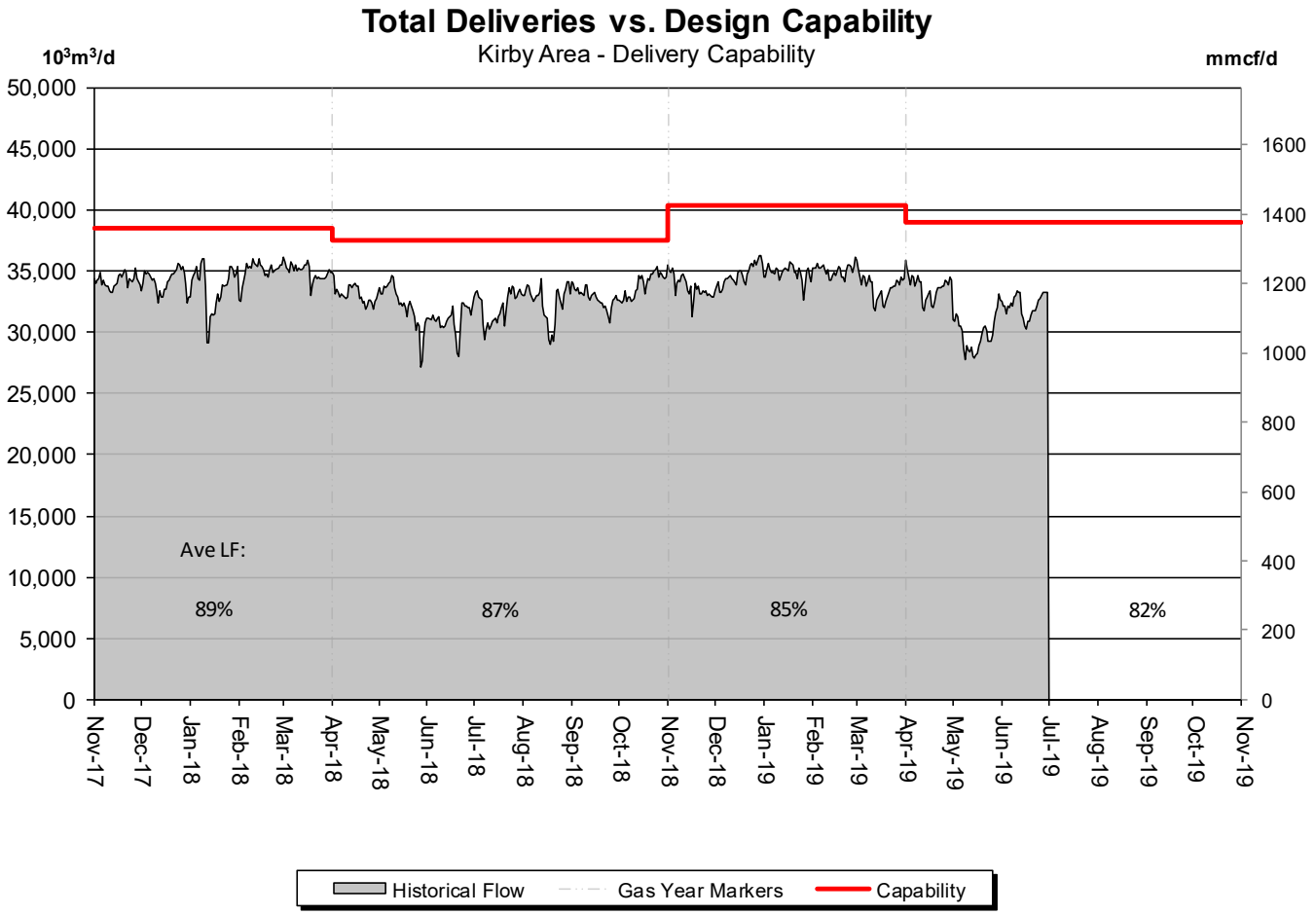


% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	83%	85%	81%	89%	75%	76%

TC Energy

DESIGN CAPABILITY UTILIZATION
KIRBY AREA – FLOW WITHIN





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	86%	87%	84%	86%	77%	83%

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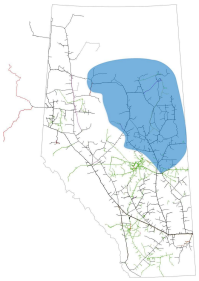
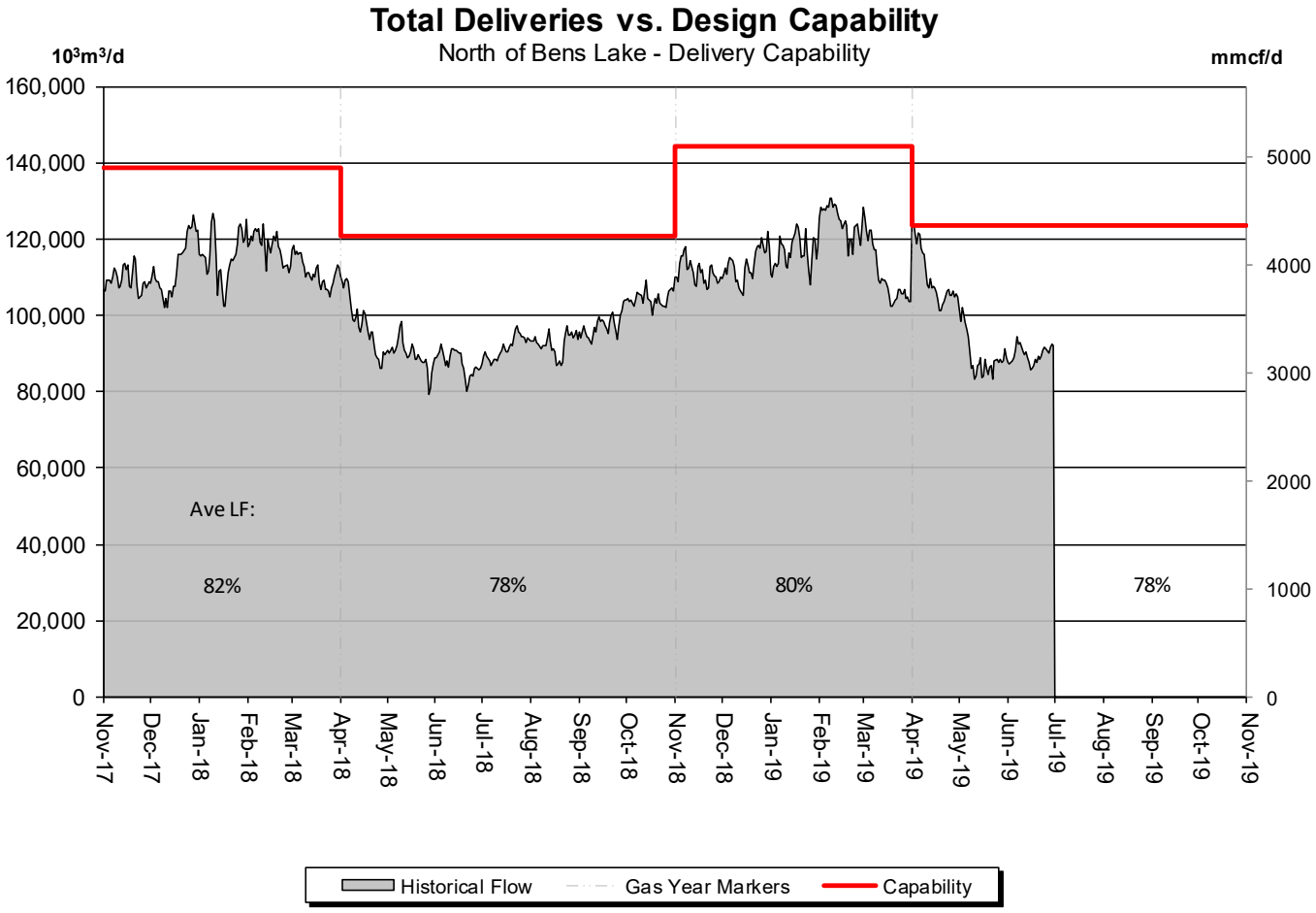
DESIGN CAPABILITY UTILIZATION
NORTH OF BENS LAKE – FLOW WITHIN





% Design Capability Utilization						
Average	Jan	Feb	Mar	Apr	May	Jun
Flow/	81%	87%	77%	89%	72%	73%

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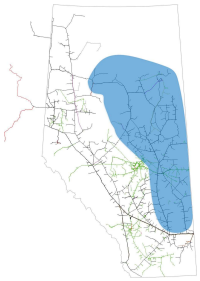
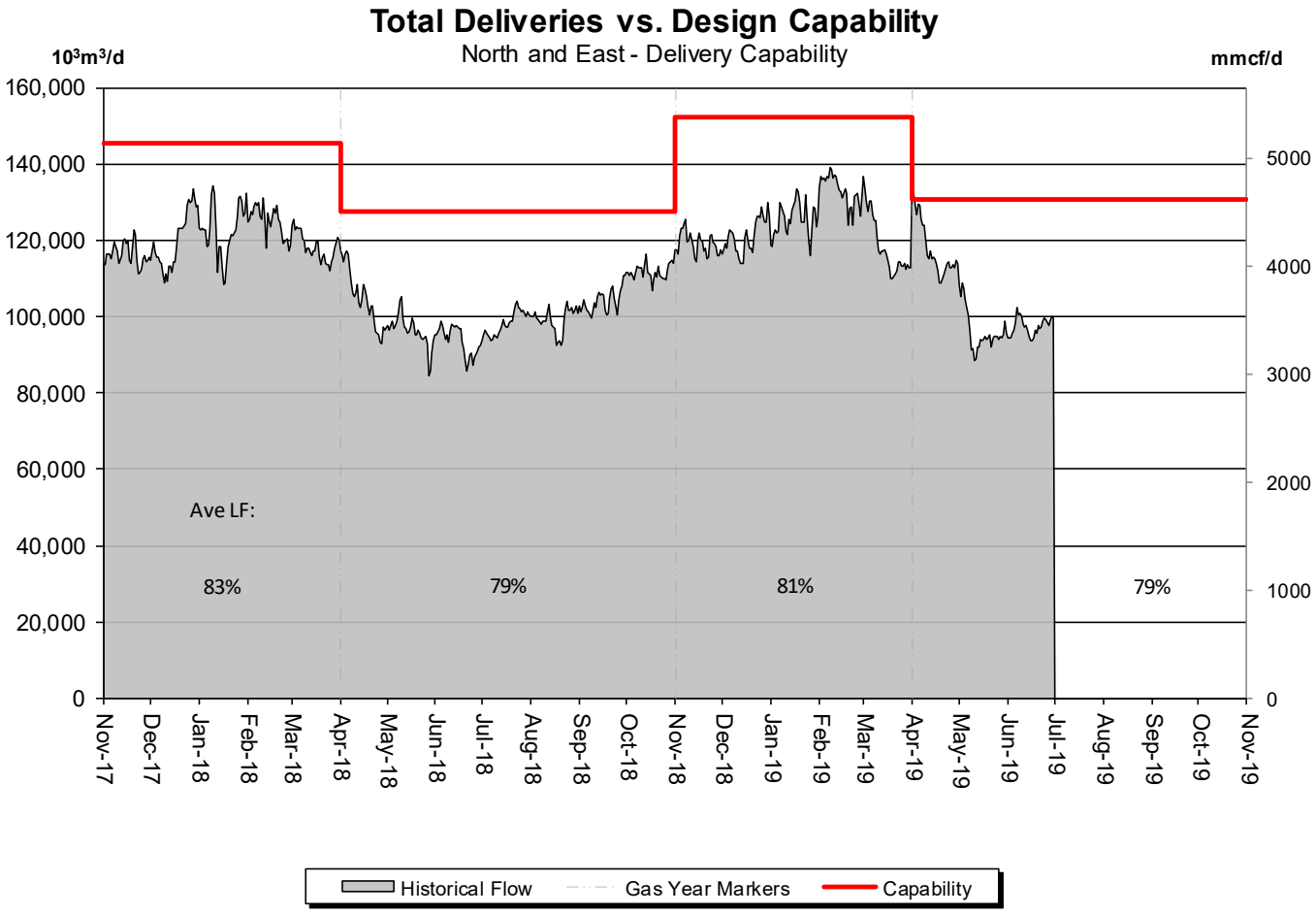
DESIGN CAPABILITY UTILIZATION
NORTH & SOUTH OF BENS LAKE – FLOW WITHIN





% Design Capability Utilization						
Average Flow/	Jan	Feb	Mar	Apr	May	Jun
	82%	87%	78%	90%	74%	74%

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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

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*** (25 segments make up the system) 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 25 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.

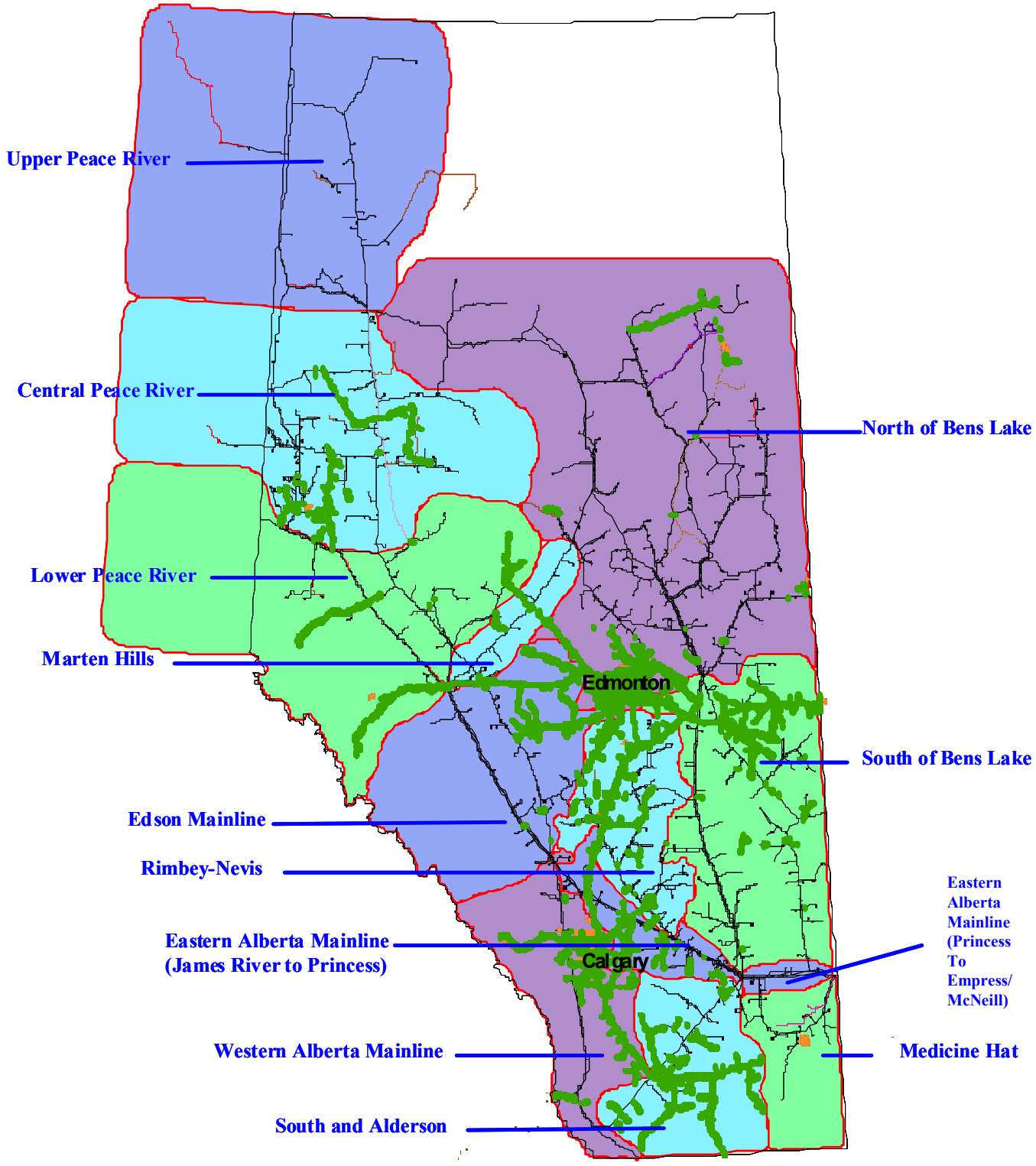
Design Flow Capability utilization is a function of several factors that include:

- 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)

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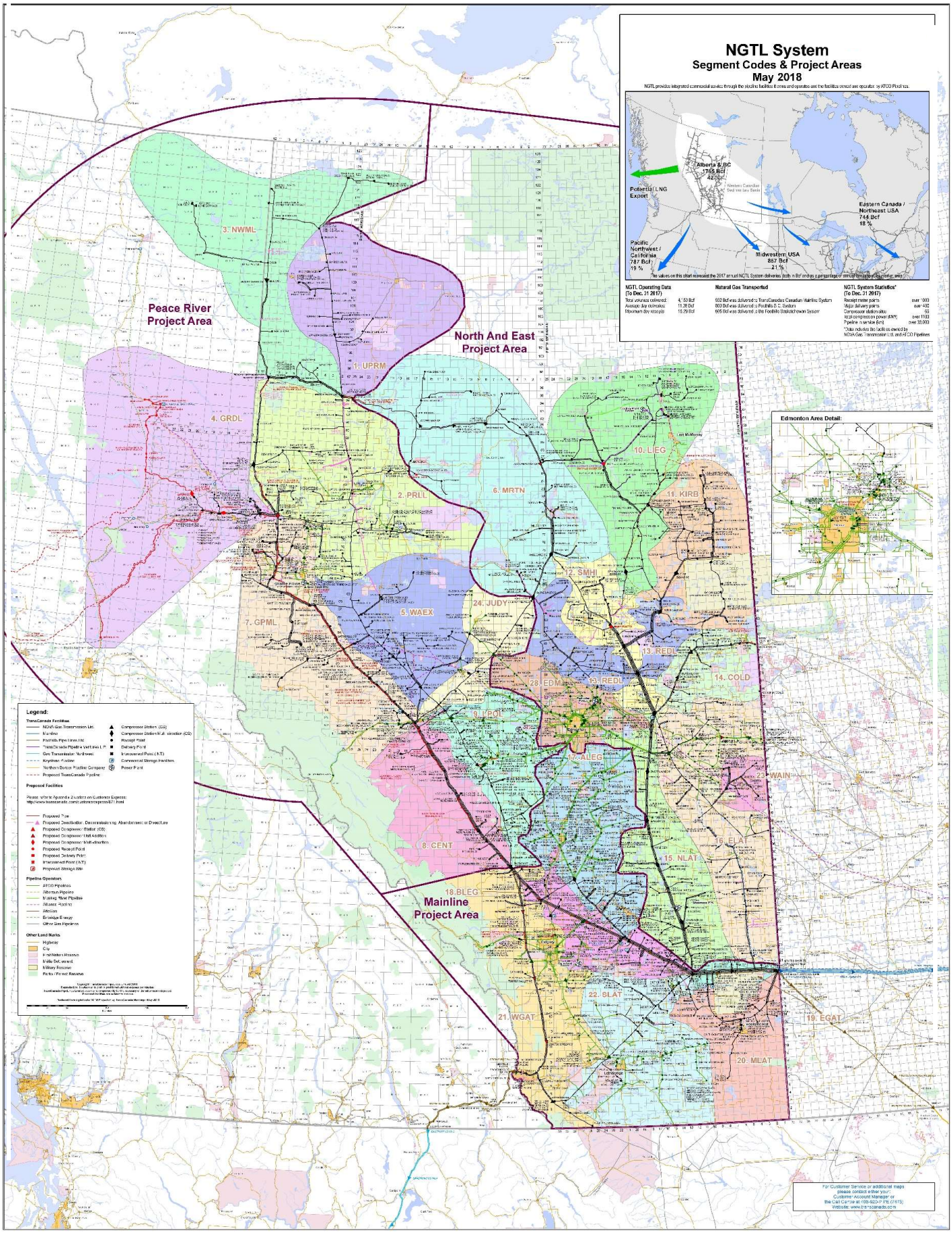
Last Update May, 2018



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