



# NGTL System and Foothills Pipelines Ltd.

CUSTOMER OPERATIONS MEETING

APRIL 14, 2022

FOR INFORMATIONAL PURPOSES ONLY

# Forward Looking Information

This presentation includes certain forward-looking information. Statements that are forward-looking are based on certain assumptions and on what we know and expect today and generally include words like anticipate, expect, believe, may, will, should, estimate or other similar words.

The information provided is 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. TC Energy shall not be liable for damages sustained as a result of any use or reliance on such information.

The outages listed in this presentation are not an exhaustive list. Outage date, duration, and impact may be subject to change. Refer to the Daily Operating Plan (DOP) for all planned outages with potential service impact.

No  
impact to FT

Refers to outage periods where FT impact is not expected

Potential  
impact to FT

Refers to outage periods where there is potential of FT impact

Partial  
impact to FT

Refers to outage periods where FT impact is expected



# Important Notes



Outage information in this presentation may not be accurate beyond April 14, 2022



For current outage information, please refer to the most recent Daily Operating Plan (DOP) on my.TC Customer Express



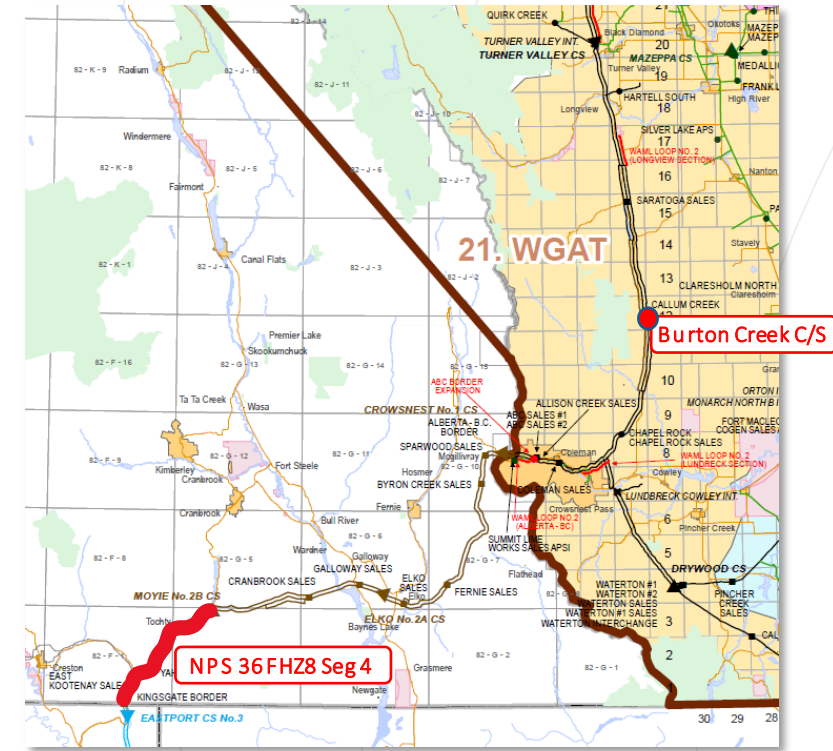
This presentation will only cover operational topics related to the NGTL and Foothills systems. For information on Commercial and Regulatory topics, please contact your Marketing Representative

# Review of West Gate Restrictions

# NPS 36 FHZ8 Seg 4 Pipeline Maintenance Burton Creek A3 Compressor Maintenance

## Background:

- Planned NPS 36 FHZ8 Segment 4 Pipeline Maintenance April 4 – 7
  - FHBC Capability: 70 10<sup>6</sup>m<sup>3</sup>/d
- Planned Burton Creek A3 Compressor Maintenance April 4 – 7
  - NGTL Capability: 74 10<sup>6</sup>m<sup>3</sup>/d



Bulletin Date	Effective Date	Service Allowable	Comments
March 30	April 4 (08:00 MST)	0% IT-D, Partial FT-D (FHBC)	Bulletin issued for planned pipeline maintenance on FHBC
April 4	April 4 (21:00 MST)	100% IT-D, 100% FT-D (FHBC)	NPS 36 FHZ8 pipeline maintenance postponed; End of FHBC service restriction
April 5	April 6 (08:00 MST)	0% IT-D, 100% FT-D (NGTL: AB-BC + AB-MN)	Burton Creek A3 compressor maintenance ongoing; Start of NGTL restriction
April 7	April 8 (08:00 MST)	100% IT-D, 100% FT-D (NGTL: AB-BC + AB-MN)	Burton Creek A3 return to service; End of NGTL restriction



# Review of DOP Outages

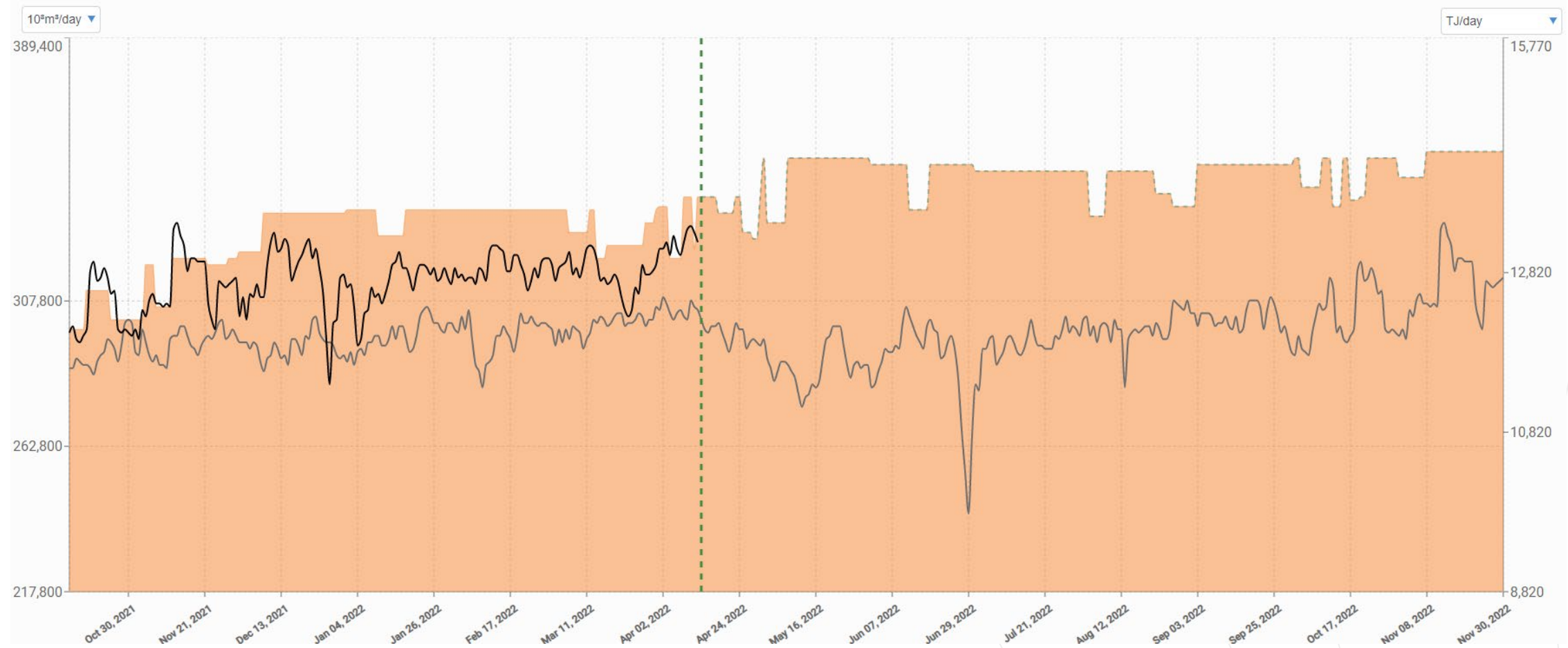
From DOP as of Wednesday, April 13



For the purposes of the operational capacity charts and outage impacts in the DOP, the remaining portions of the 2021 expansion facilities are assumed for May 1, 2022; however, sections of the project are expected to be completed and placed in-service throughout the months of April and May. NGTL will continue to update operational base and outage capabilities via the DOP as additional capacity becomes available.

# Upstream James River

■ Capability   
 — Actual Flow   
 — Historical Flow   
 -- Compared to



This slide may not be accurate beyond the April 14, NGTL/Foothills Customer Operations meeting on WebEx.  
 Please refer to the DOP on TC Customer Express for current outage information





# Upstream James River Receipt Area (USJR)

No impact to FT

Potential impact to FT

Partial impact to FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	USJR Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Area Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Outage Area Typical Flows (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Saddle Hills B3 – Compressor Station Maintenance	18-Apr-22	22-Apr-22	335	5	212	160-190	Potential impact to FT-R USJR U/S of Latornell
Alces River – Compressor Station Maintenance	25-Apr-22	29-Apr-22	329	11	N/A	280-320	Potential impact to FT-R USJR
Otter Lake B2 – Compressor Station Maintenance	28-Apr-22	29-Apr-22	327	13	N/A	280-320	Potential impact to FT-R USJR
Clearwater – Compressor Station Maintenance	2-May-22	3-May-22	332	20	N/A	280-320	Potential impact to FT-R USJR
Gold Creek – Compressor Station Maintenance	2-May-22	7-May-22	332	20	N/A	280-320	Potential impact to FT-R USJR
Goodfish – Compressor Station Maintenance	12-Jun-22	17-Jun-22	340	10	N/A	280-320	Potential impact to FT-R USJR
Meikle River C – Compressor Station Maintenance	12-Jun-22	17-Jun-22	336	14	226	165-205	Potential impact to FT-R USJR U/S of Berland
Meikle River D5 – Compressor Station Maintenance	3-Aug-22	5-Aug-22	334	14	228	165-205	Potential impact to FT-R USJR U/S of Berland
NPS 36 NCC Loop & Fort McKay Mainline – Pipeline Maintenance	3-Aug-22	7-Aug-22	334	14	228	165-205	Potential impact to FT-R USJR U/S Berland
Latornell – Compressor Station Maintenance	22-Aug-22	27-Aug-22	341	7	231	165-205	Potential impact to FT-R USJR U/S of Berland*
Otter Lake A1 – Compressor Station Maintenance	27-Aug-22	2-Sep-22	337	11	N/A	280-320	Potential impact to FT-R USJR

\*Risk to FT-R expected to be within a subset of USJR only. If adequate downstream IT-D exists to offset an FT-R curtailment, area of IT-D curtailment could include portions of segments 7, 8, and 9 based on hydraulic equivalency analysis and location of the bottleneck.

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# Upstream James River Receipt Area (USJR)

No impact to FT

Potential impact to FT

Partial impact to FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	USJR Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Area Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Outage Area Typical Flows (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Woodenhouse C3 – Compressor Station Maintenance	27-Aug-22	2-Sept-22	337	11	N/A	280-320	Potential impact to FT-R USJR
Otter Lake – Compressor Station Maintenance	3-Oct-22	8-Oct-22	343	9	N/A	280-320	Potential impact to FT-R USJR
Saddle Hills B3 – Compressor Station Maintenance	12-Oct-22	14-Oct-22	337	15	214	160-190	Potential impact to FT-R USJR U/S of Latornell
Paul Lake – Compressor Station Maintenance	17-Oct-22	19-Oct-22	339	13	N/A	280-320	Potential impact to FT-R USJR
Alces River – Compressor Station Maintenance	17-Oct-22	21-Oct-22	340	12	N/A	280-320	Potential impact to FT-R USJR
Hidden Lake North – Compressor Station Maintenance	31-Oct-22	7-Nov-22	346	8	224	160-190	Potential impact to FT-R USJR U/S of Latornell

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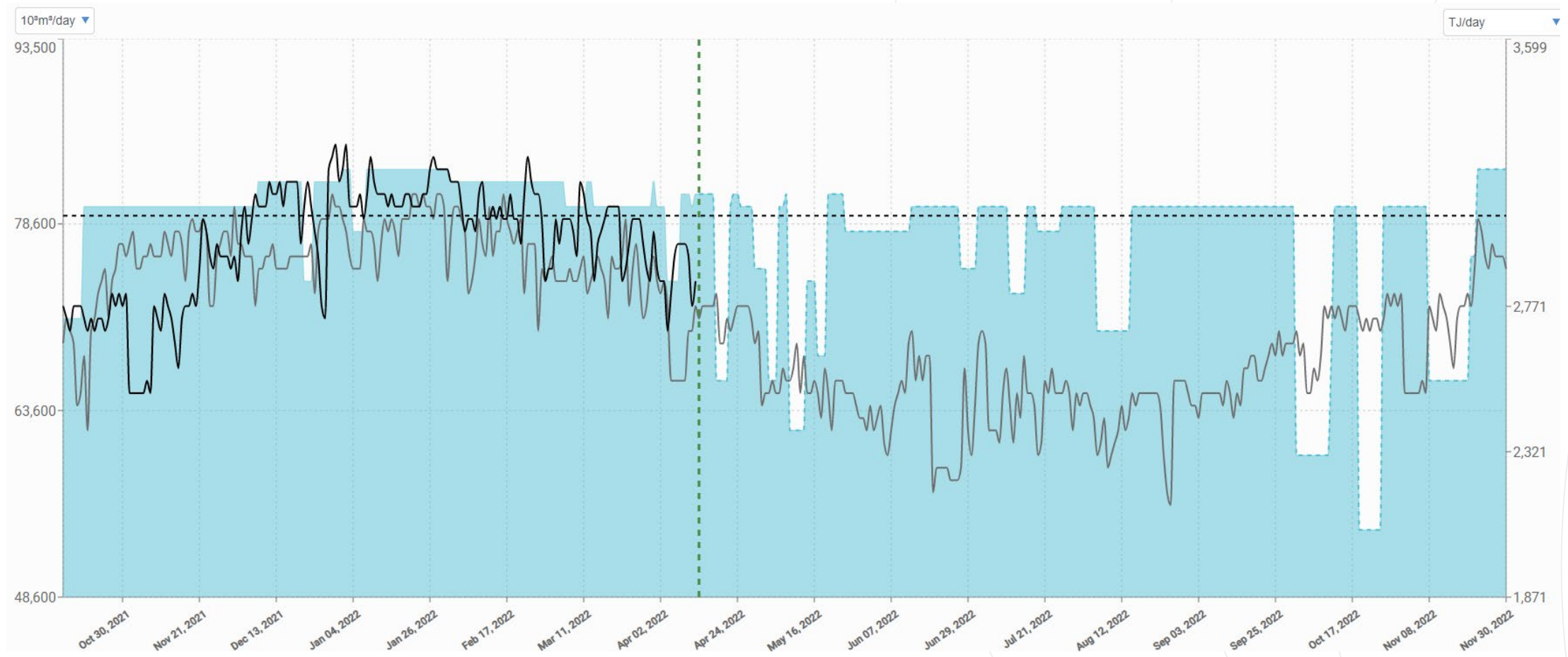




## Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)

■ Capability   
 — Actual Flow   
 — Historical Flow   
 - - Contracts   
 - - Compared to



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# West Gate Delivery Area (WGAT) Foothills Zone 8 (FHBC)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability/ Allowable (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	System	Service Allowable Location/Area
Burton Creek – Compressor Station Maintenance	18-Apr-22	21-Apr-22	66	15	NGTL	Partial Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 36 FPL Zone 8 Segment 3 – Pipeline Maintenance*	29-Apr-22	2-May-22	75	6	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
Moyie – Compressor Station Maintenance*	3-May-22	5-May-22	66	15	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
Crowsnest A – Compressor Station Maintenance	9-May-22	13-May-22	62	19	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
Crowsnest K – Compressor Station Maintenance*	9-May-22	16-May-22	74	7	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
Elko – Compressor Station Maintenance* <sup>1</sup>	17-May-22	19-May-22	68	13	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
NPS 24 South Lateral – Pipeline Maintenance* <sup>2</sup>	25-May-22	12-Jun-22	78	3	NGTL	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders

\*Aligned with downstream maintenance that is expected to be limiting West Path capability

Comments:

<sup>1</sup>Dates changed to align with downstream maintenance (was previously April 25-27)

<sup>2</sup>Duration decreased due to outage schedule refinement and optimization

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Please refer to the DOP on TC Customer Express for current outage information





# West Gate Delivery Area (WGAT)

## Foothills Zone 8 (FHBC)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability/ Allowable (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	System	Service Allowable Location/Area
Winchell Lake – Compressor Station Maintenance*	27-Jun-22	1-Jul-22	75	5	NGTL	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segments 22 and partial 21
Crowsnest B – Compressor Station Maintenance*	11-Jul-22	15-Jul-22	73	7	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
NPS 36 FPL Zone 7 Western Leg 1B – Pipeline Maintenance*	19-Jul-22	25-Jul-22	78	2	NGTL	Potential Impact to FT Alberta/BC and Alberta/Montana Borders Segments 22 and partial 21
NPS 36 BC Mainline – Pipeline Modifications	5-Aug-22	14-Aug-22	70	10	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
NPS 48 BC Mainline Loop - Pipeline Modifications	1-Oct-22	11-Oct-22	68	12	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
NPS 42 Western Alberta System Mainline Loop – Pipeline Maintenance	1-Oct-22	10-Oct-22	60	20	NGTL	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 36 BC Mainline – Pipeline Maintenance	19-Oct-22	25-Oct-22	54	26	FHBC	Potential Impact to FT Alberta/BC Border Foothills BC
NPS 36 WAS Mainline – Pipeline Modifications	8-Nov-22	19-Nov-22	66	17	NGTL	Potential Impact to FT-D Alberta/BC Border
Turner Valley A1 and A2 – Compressor Station Maintenance	8-Nov-22	21-Nov-22	76	5	NGTL	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders

\*Aligned with downstream maintenance that is expected to be limiting West Path capability

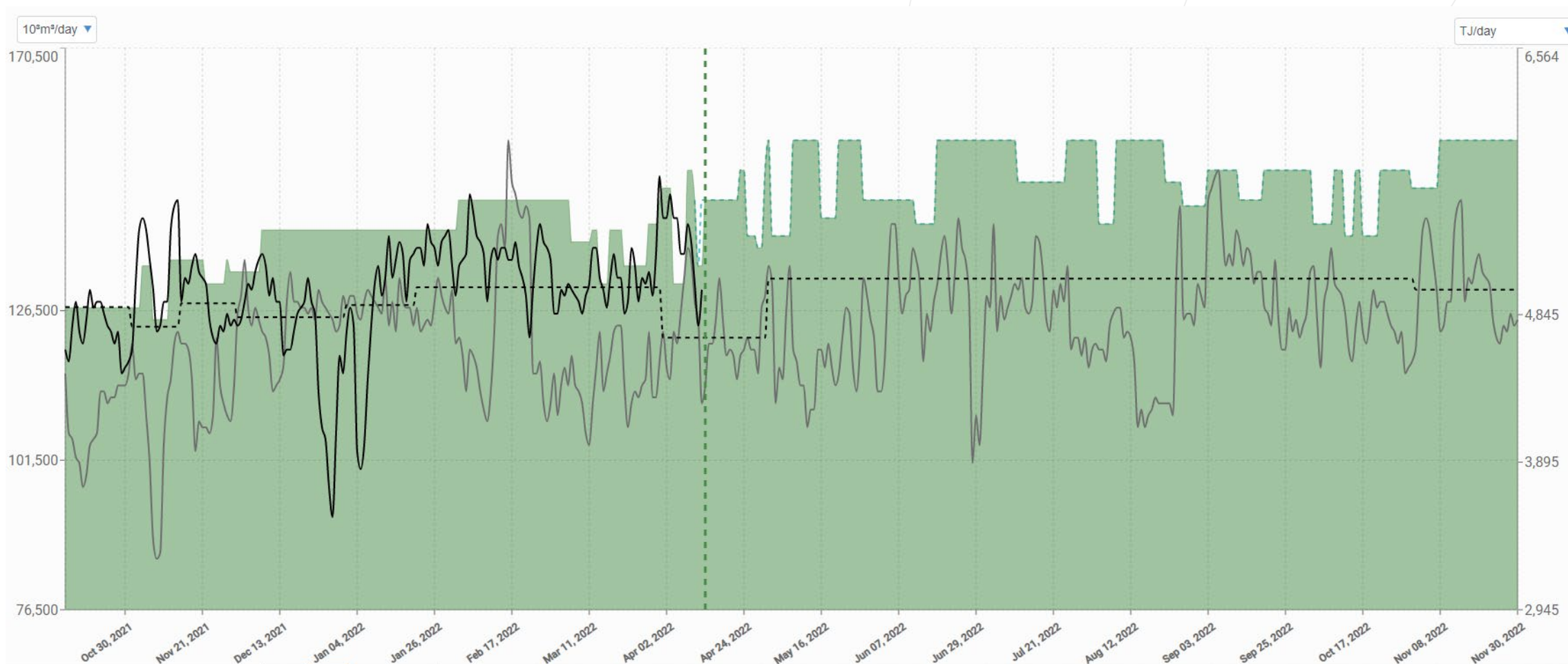
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## East Gate

■ Capability   
 — Actual Flow   
 — Historical Flow   
 - - Contracts   
 - - Compared to



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 Please refer to the DOP on TC Customer Express for current outage information





# East Gate Delivery Area (EGAT)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	System	Service Allowable Location/Area
NPS 42 EAS Mainline Loop 3 – Pipeline Maintenance	10-Apr-22	17-Apr-22	145	5	NGTL	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Hussar B8 – Compressor Station Maintenance	18-Apr-22	22-Apr-22	145	5	NGTL	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Didsbury – Compressor Station Maintenance	16-May-22	20-May-22	142	13	NGTL	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Jenner - Compressor Station Maintenance	28-May-22	12-Jun-22	145	10	FHAB	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Crawling Valley – Compressor Station Maintenance	11-Jul-22	24-Jul-22	148	7	FHAB	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Acme – Compressor Station Maintenance	12-Sep-22	18-sept-22	145	5	FHAB	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Beiseker B3 - Compressor Station Maintenance	3-Oct-22	7-Oct-22	143	7	NGTL	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

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Please refer to the DOP on TC Customer Express for current outage information





## East Gate Delivery Area (EGAT)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	System	Service Allowable Location/Area
Beiseker B3 - Compressor Station Maintenance	3-Oct-22	7-Oct-22	143	7	NGTL	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

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## Foothills Zone 9 (FHSK)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	System	Service Allowable Location/Area
NPS 42 Foothills Mainline Zone 9 – Pipeline Maintenance	30-Oct-22	8-Nov-22	25	FHSK	No impact to FT anticipated Monchy Border Foothills Saskatchewan

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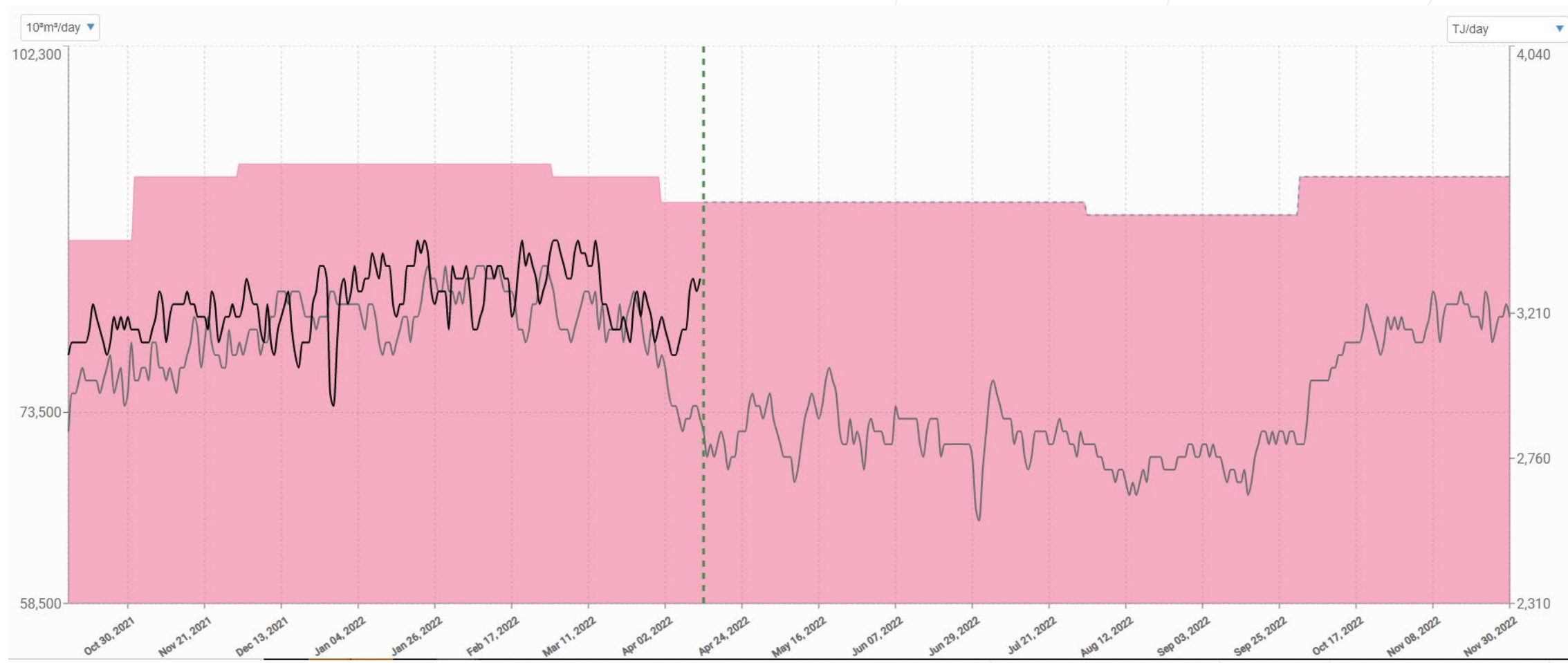






## Oil Sands Delivery Area

Capability
  Actual Flow
  Historical Flow
  Compared to



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# Northeast Delivery Area (NEDA) Oil Sands Delivery Area (OSDA)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

There are currently no outages planned that are specific to OSDA or NEDA

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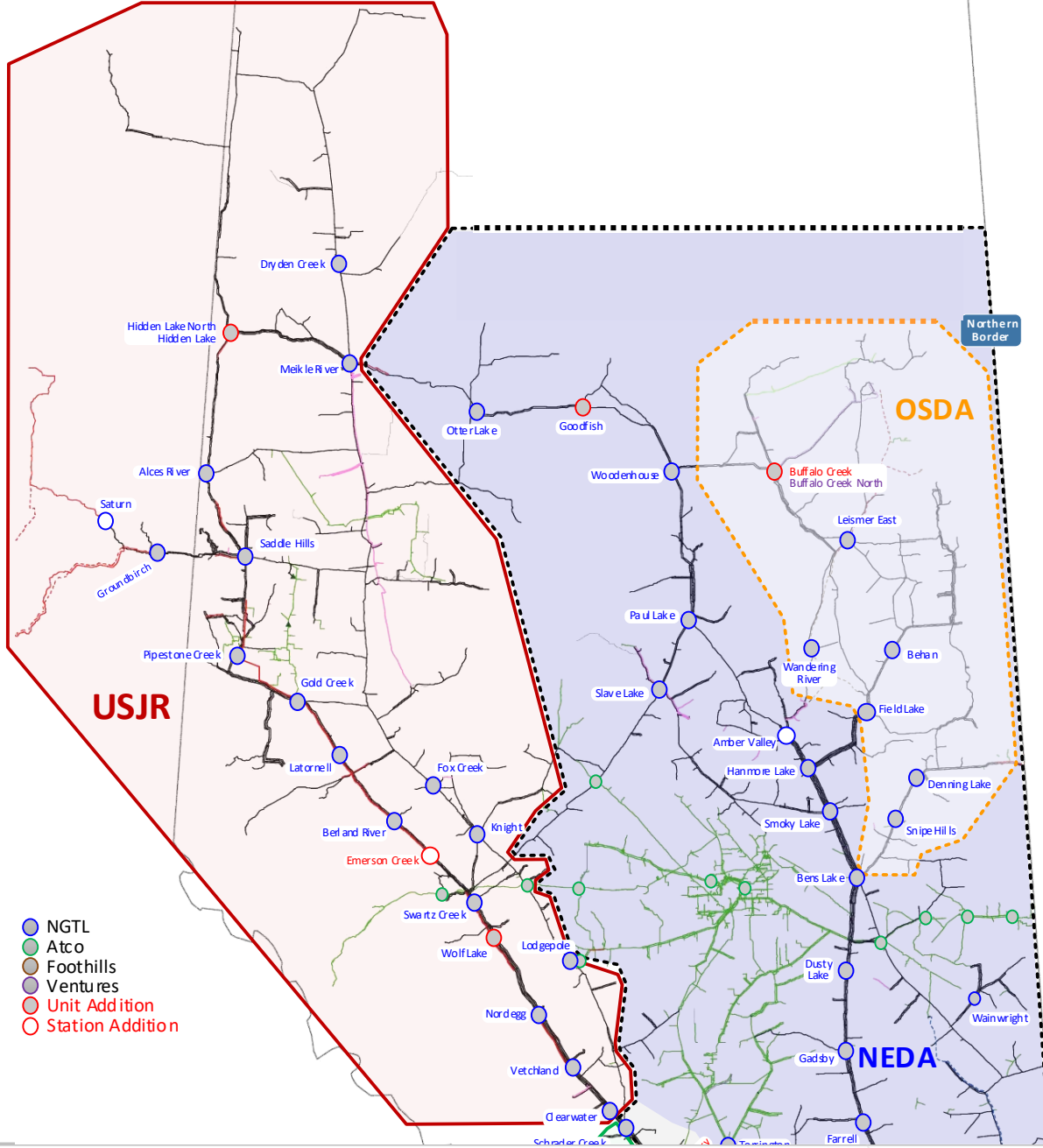
[veronica\\_rojas@tcenergy.com](mailto:veronica_rojas@tcenergy.com)



# Reference Maps and Flow Paths

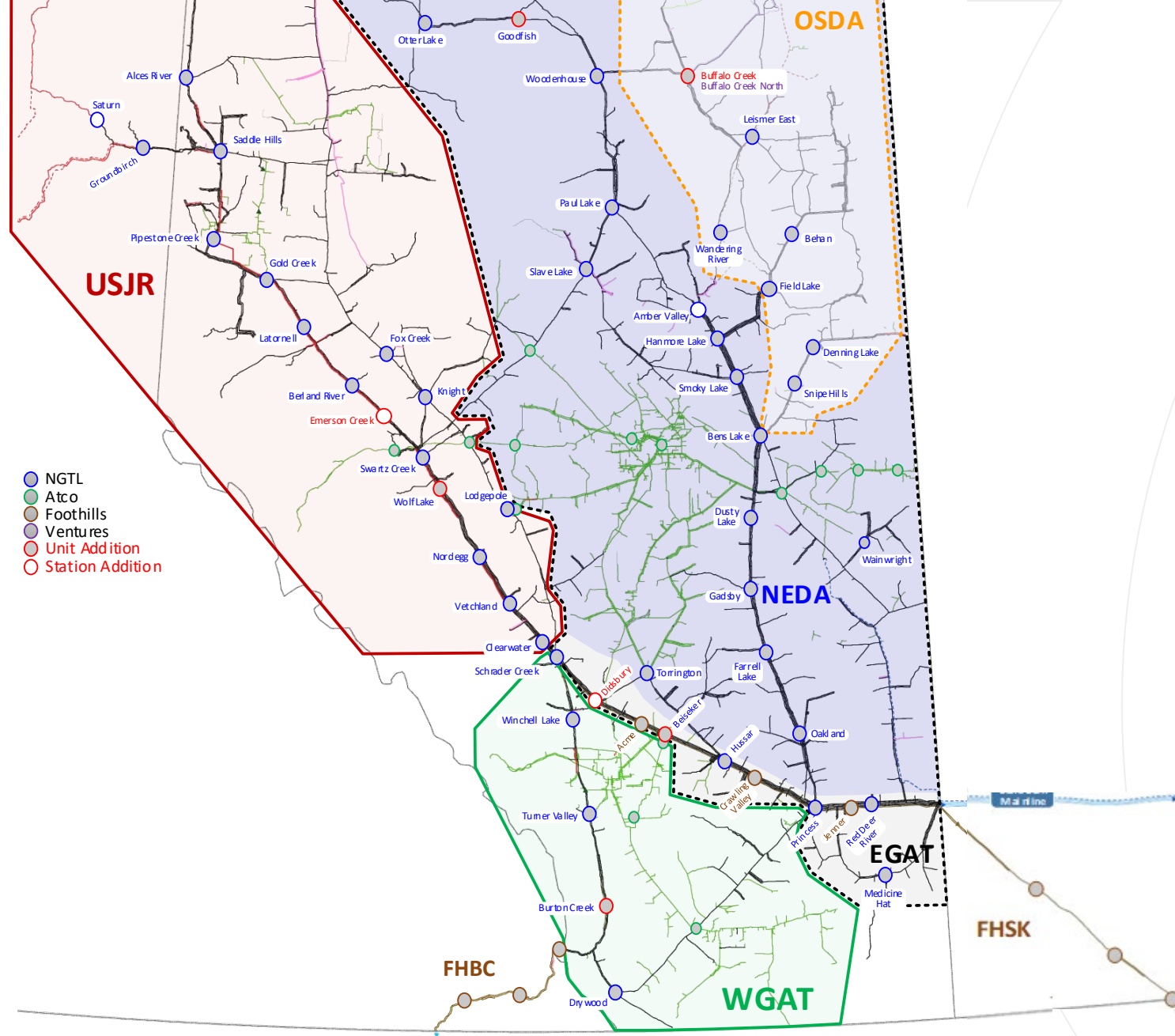
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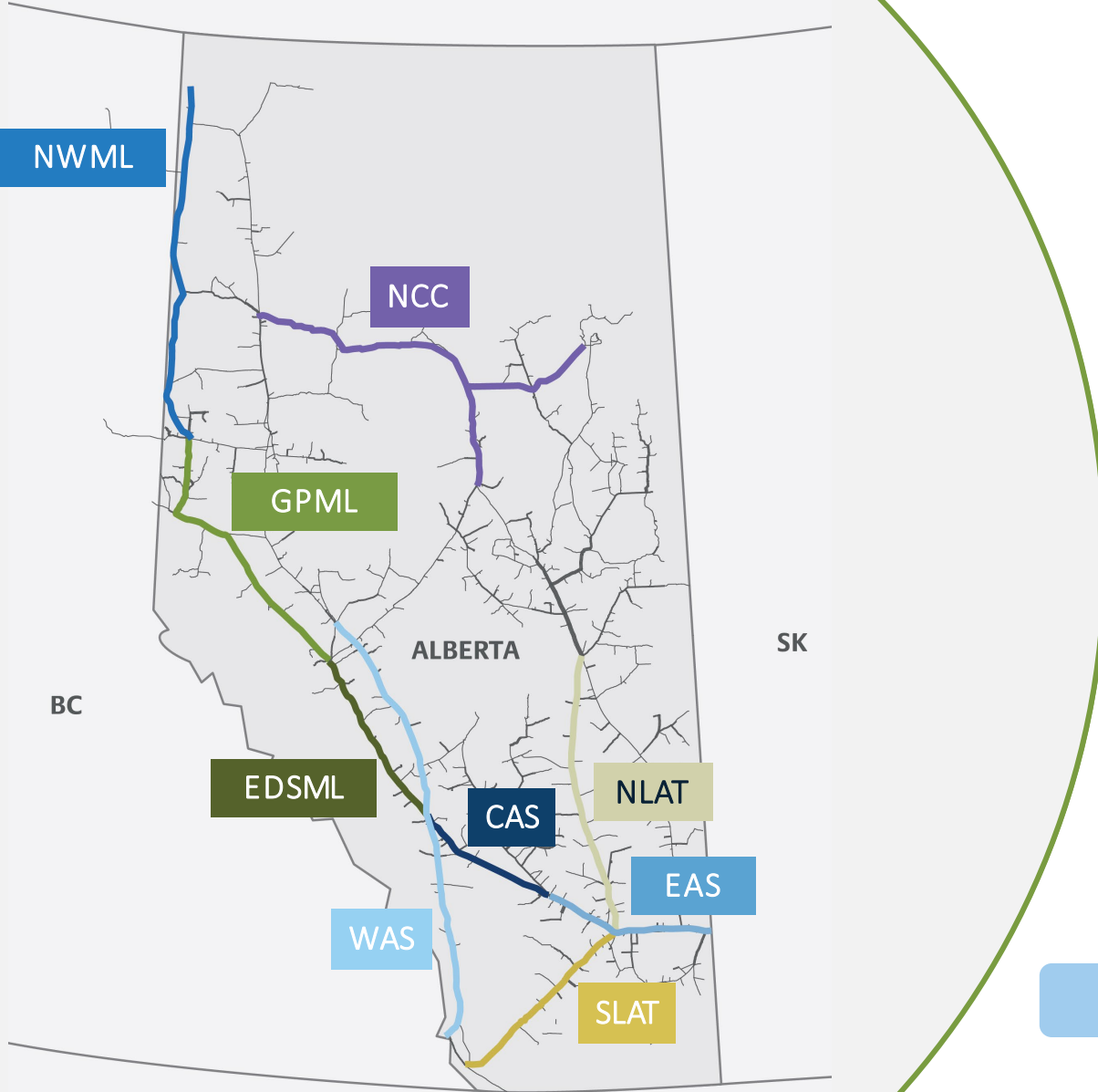


- NGTL
- Atco
- Foothills
- Ventures
- Unit Addition
- Station Addition





# Commonly Referenced Flow Paths



- Northwest Mainline (NWML)
- Grande Prairie Mainline (GPML)
- Edson Mainline (EDSML)
- Western Alberta System Mainline (WAS)
- Central Alberta System Mainline (CAS)
- Eastern Alberta System Mainline (EAS)
- South Lateral (SLAT)
- North Lateral (NLAT)
- North Central Corridor (NCC)

Click [HERE](#) to access this information on Customer Express