

# MEETING Q3, 2021

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AIRPORT COMMUNITY CONSULTATIVE COMMITTEE

July 8 | 2021

**YYC** CALGARY  
AIRPORT  
AUTHORITY

# **Agenda**

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- **Welcome & Introductions**
- **Passenger Statistics & Noise Profile**
- **Guest speakers**
  - Laura Sturtevant: West Runway Rehabilitation
- **Helicopter Traffic Update**
- **Community Engagement**
- **NAV Canada: Calgary 17L/R Jet Turns: Consultation**
- **Member Q/A**



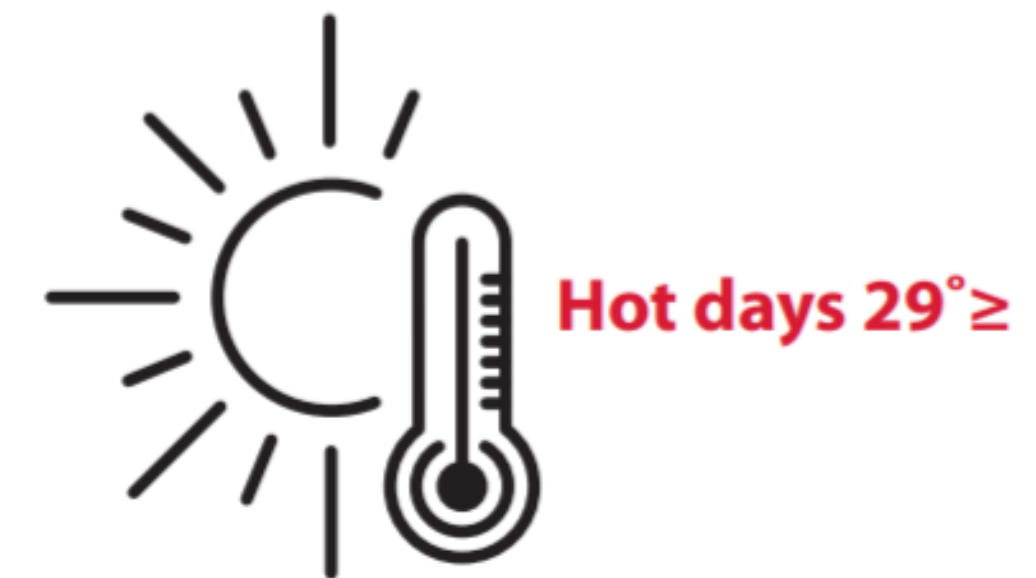
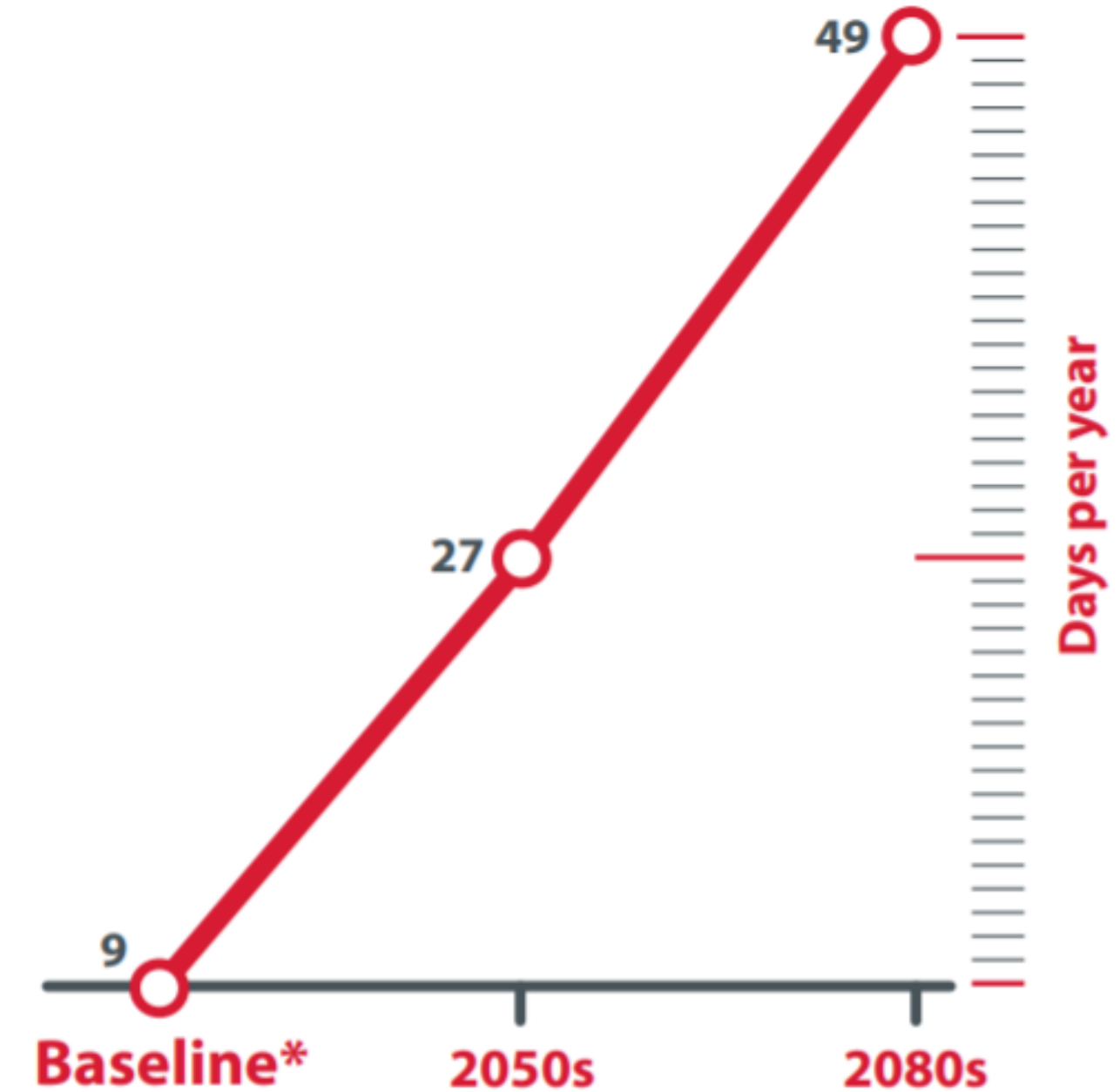
# Action Items

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Action	Status
Discuss community engagement through community newsletters	For discussion today
Year-over-year helicopter traffic statistics	For discussion today
Reporting on previous mobile noise studies	On-hold

# Safety Minute: Extreme Heat

- Drink plenty of water before you feel thirsty to decrease your risk of dehydration.
- Have cool drinks in your vehicle and keep your gas tank topped up.
- Never leave people or pets inside a parked vehicle especially in direct sunlight.
  - Ensure pets have plenty of water.
- Keep your home cool:
  - Close curtains and blinds during the day.
  - If you have an air conditioner, make sure it is working properly.
  - If you have fans, they can help in low humidity.
  - Open windows overnight (if safe) to cool your home and close them during the day.
  - Avoid using your oven if possible, as it will heat up your home.







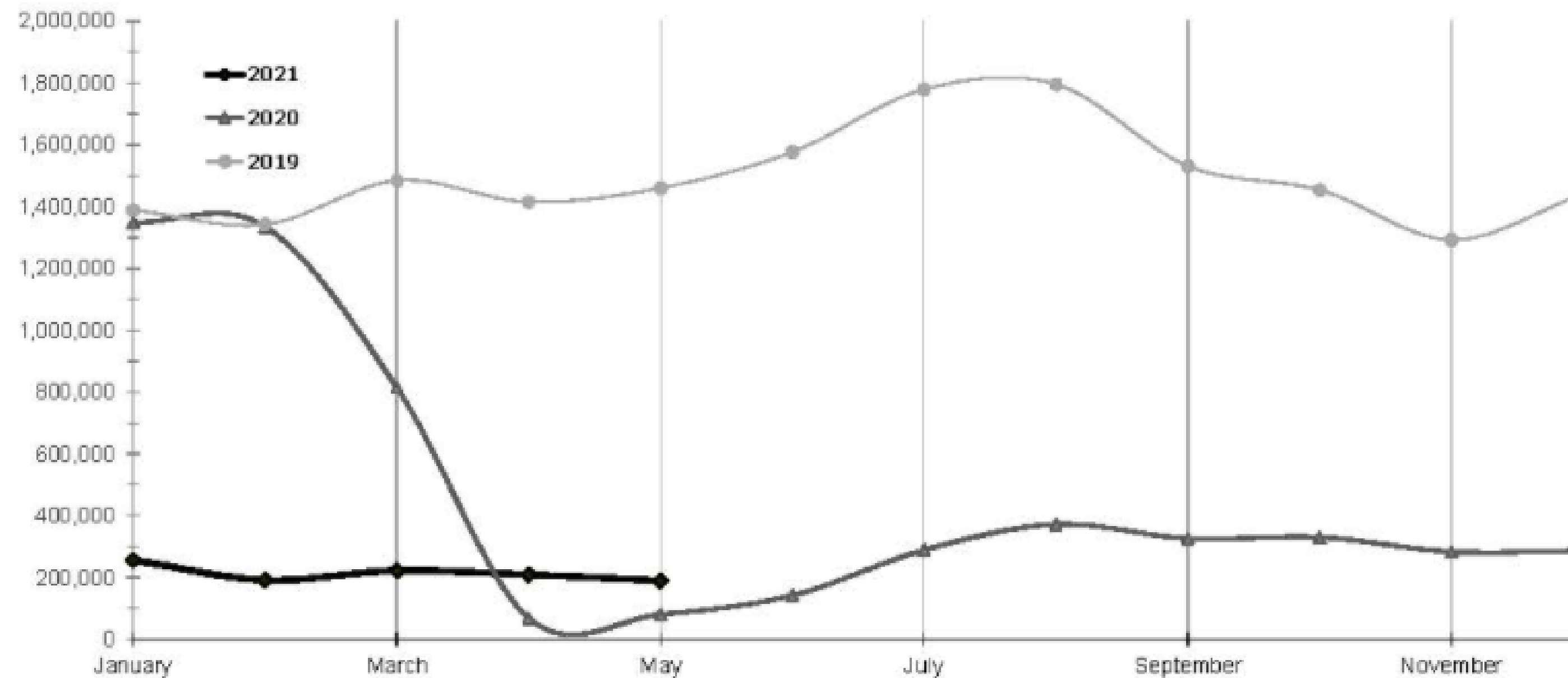
# PASSENGER STATISTICS & NOISE PROFILE



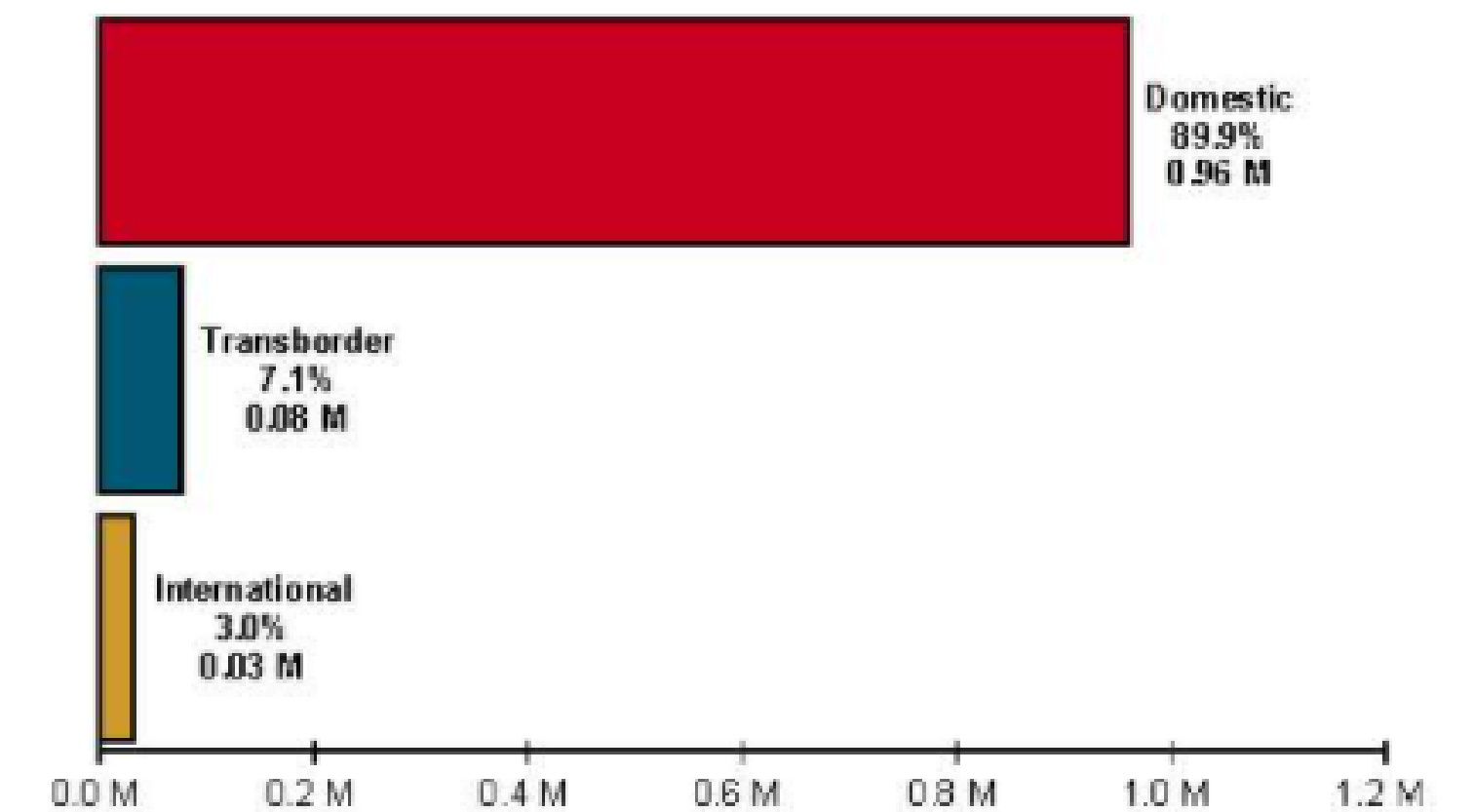


# YYC Passenger Statistics

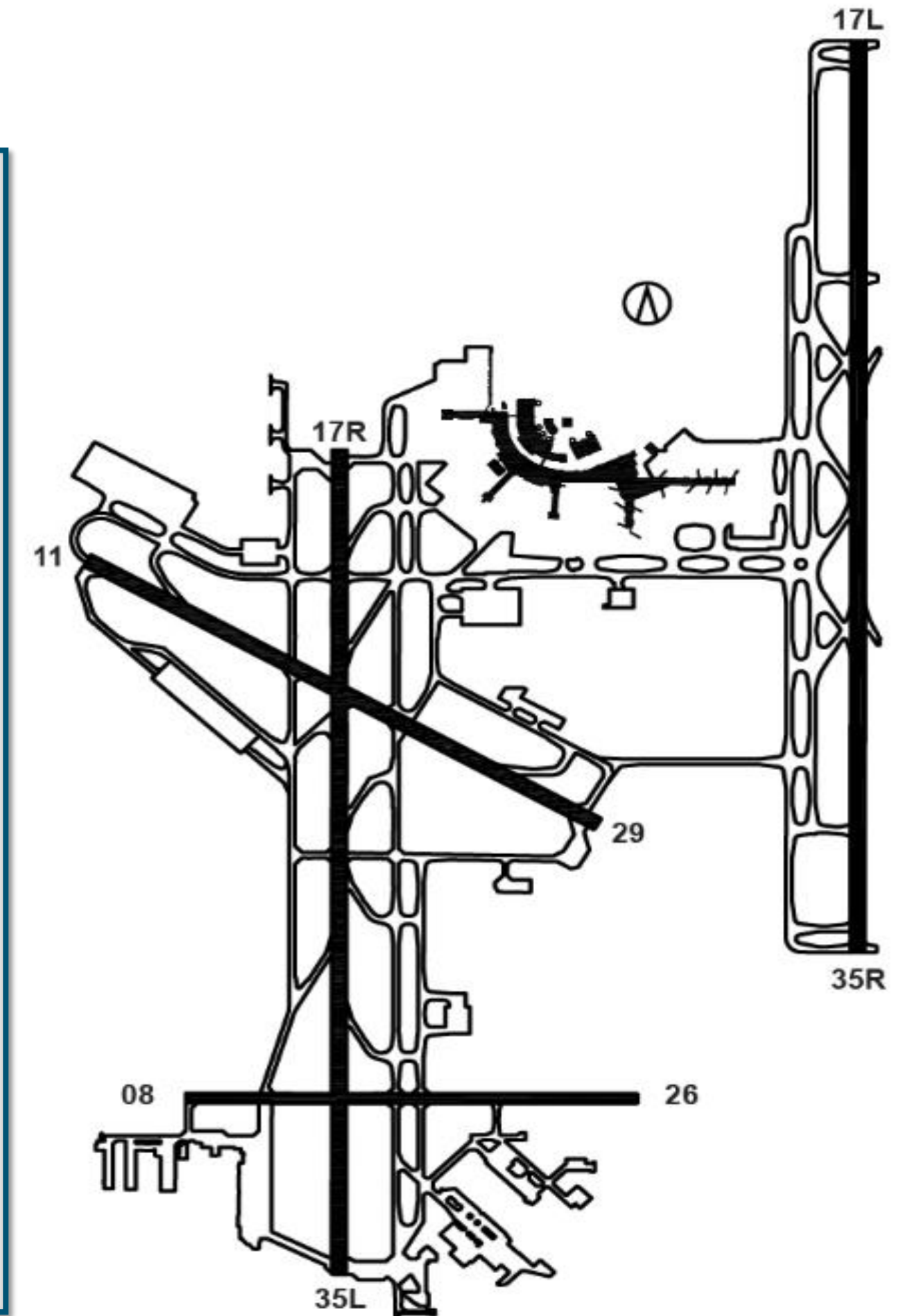
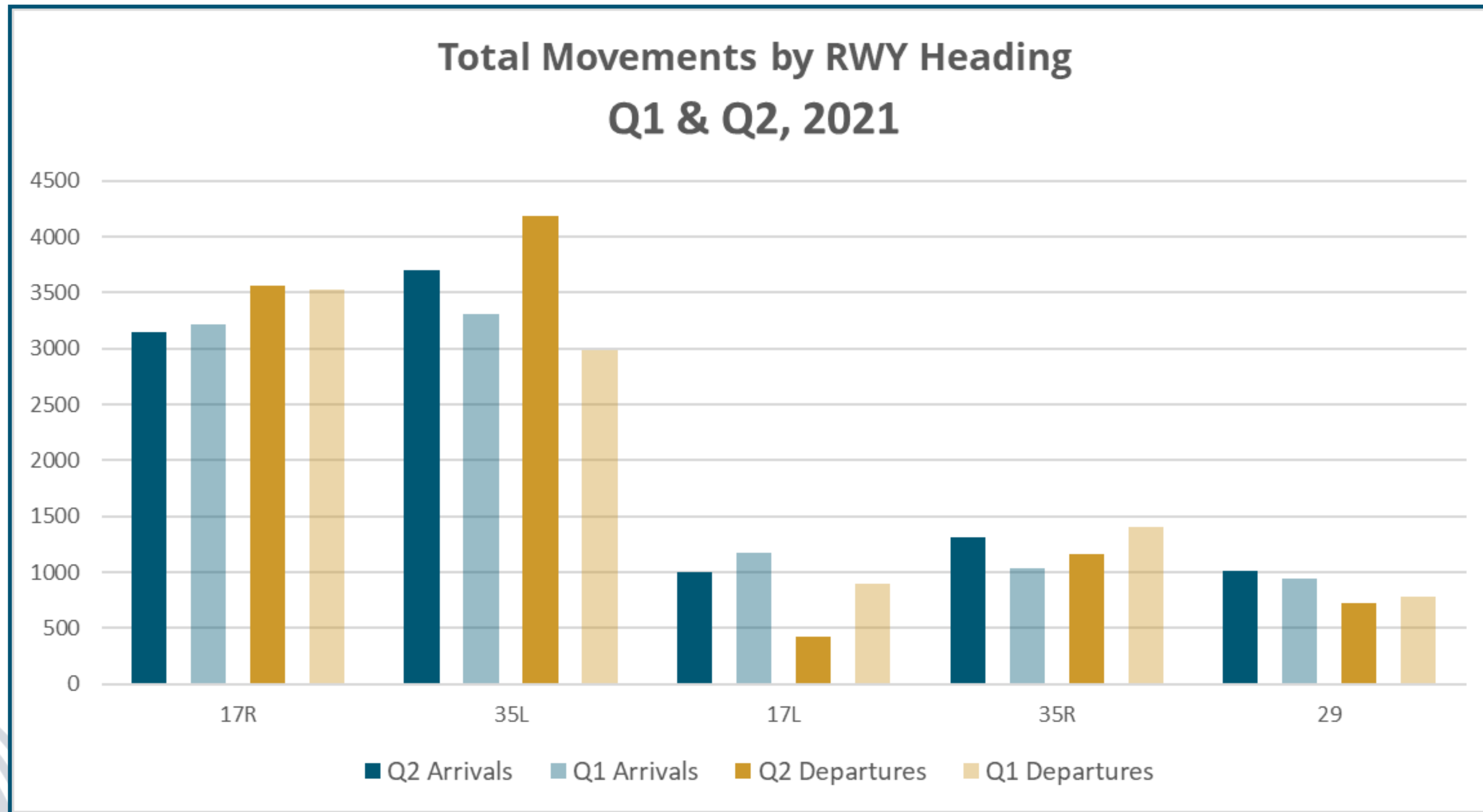
**LOCAL E&D PASSENGERS BY MONTH**



**LOCAL E&D PASSENGERS BY SECTOR**  
Year to Date May 2021



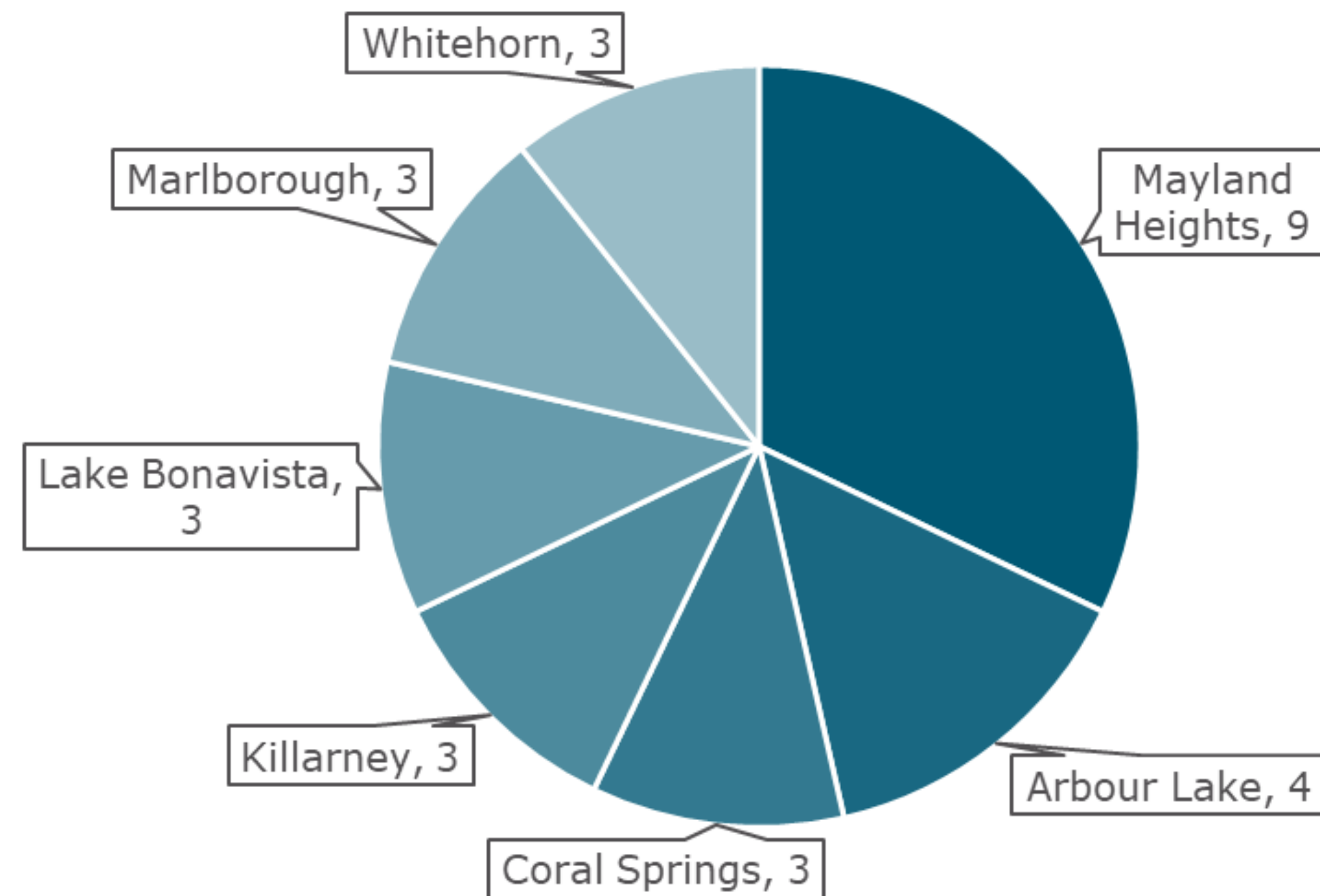
# Runway Usage 2021



# Household Noise Concerns by Community

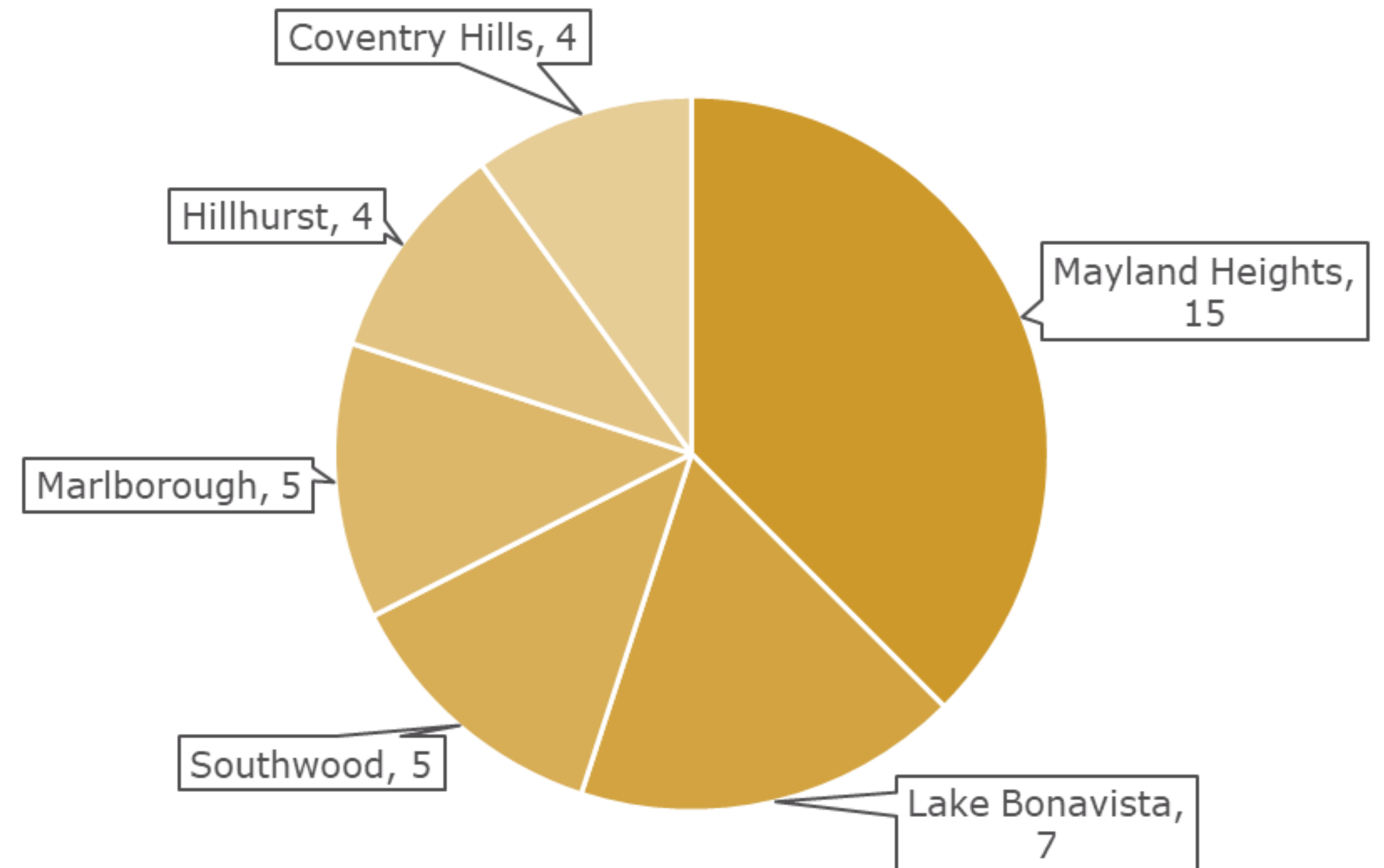
Q1 2021

75% of concerns came from 7 households



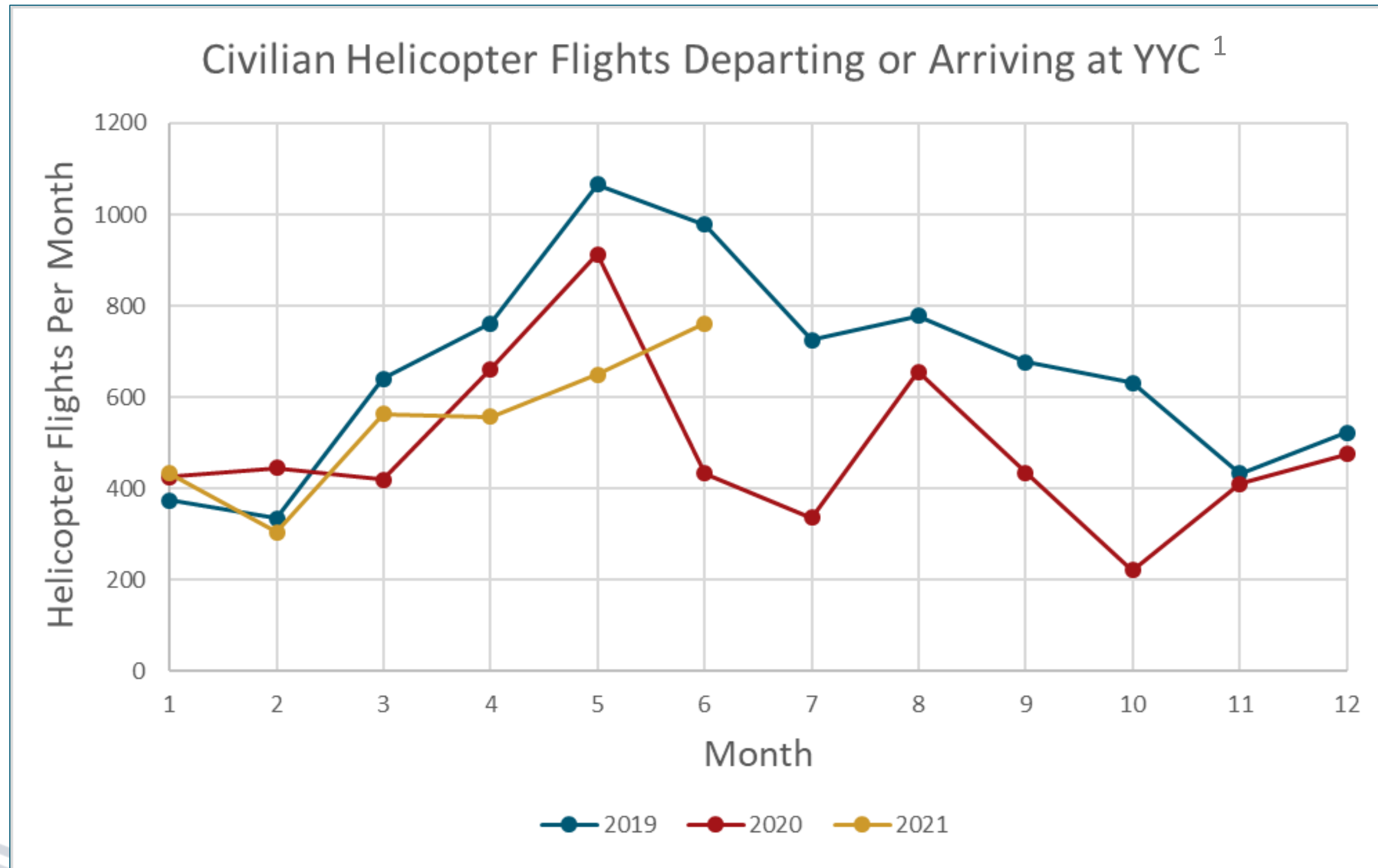
Q2 2021

70% of concerns came from 10 households





# Helicopter Traffic



<sup>1</sup> Excludes HAWCS and military air traffic



Photo by Ron Kube (YYC Spotters)



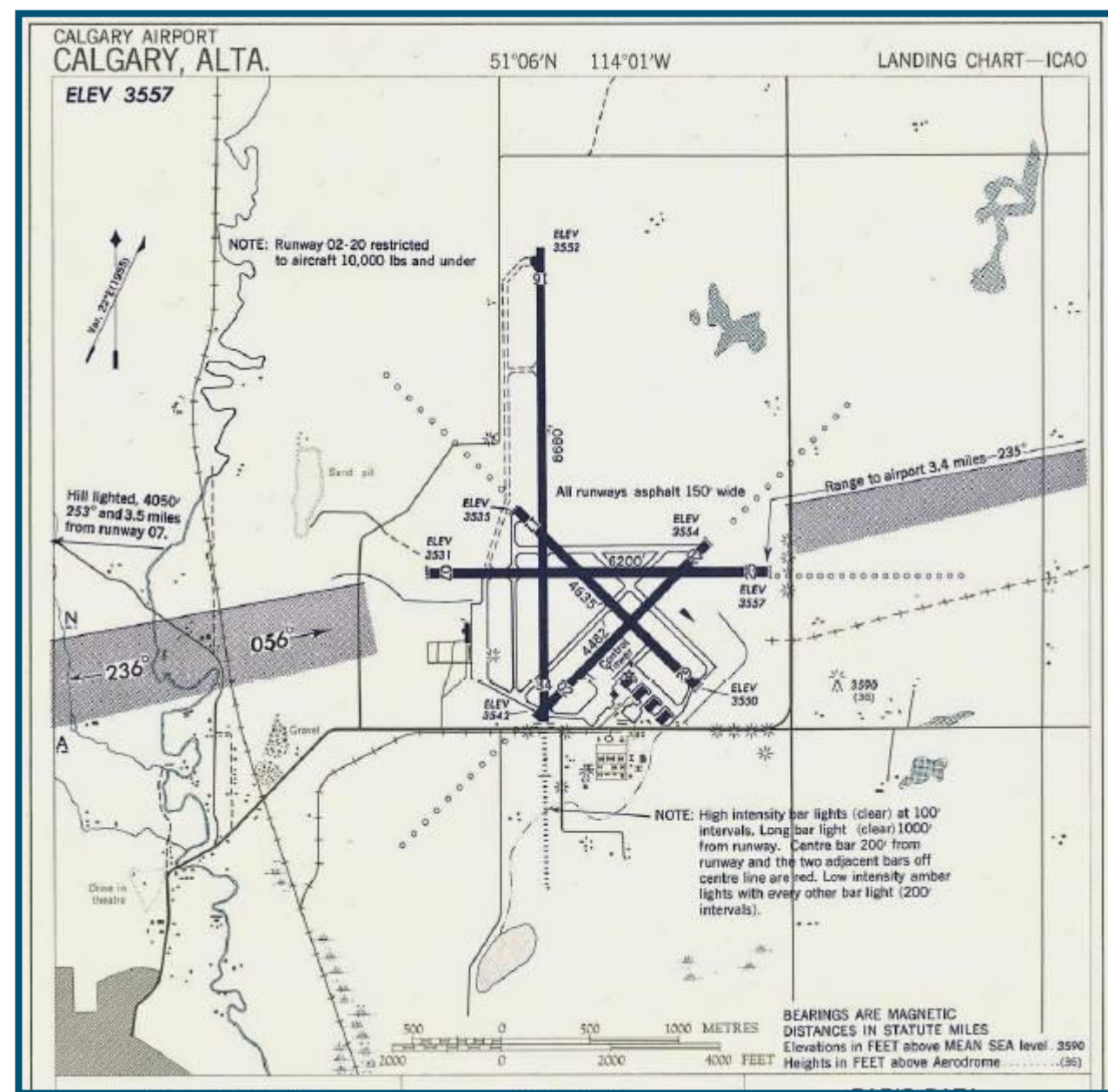
# West Runway Rehabilitation Airport Community Consultative Committee



JULY 8, 2021



# Executive Summary – West Runway Rehabilitation



1956



## DESCRIPTION

Runway 17R-35L was constructed in phases between 1956 and 1963. Since it's original construction there have been a number of surface restorations (milling and paving) to prolong the life of the asset. In recent years YYC Infrastructure has completed structural assessments and testing to confirm that the subsurface structure is at risk of failure. A full depth removal and replacement of the structural and electrical components is required to ensure safe, secure and efficient airport operations. Additionally there is an opportunity to modernize elements of the runway environment, including approaches, lighting and taxiway infrastructure. Runway End Safety Areas (RESA) will be installed to ensure compliance with Transport Canada Regulations



## KEY BENEFITS TO YYC IF THE PROJECT IS COMPLETED

There is an opportunity to complete this rehabilitate while aircraft traffic is reduced, allowing runway closures and restrictions to occur without impacting overall airport capacity.



## KEY RISKS TO YYC IF THE PROJECT IS NOT COMPLETED

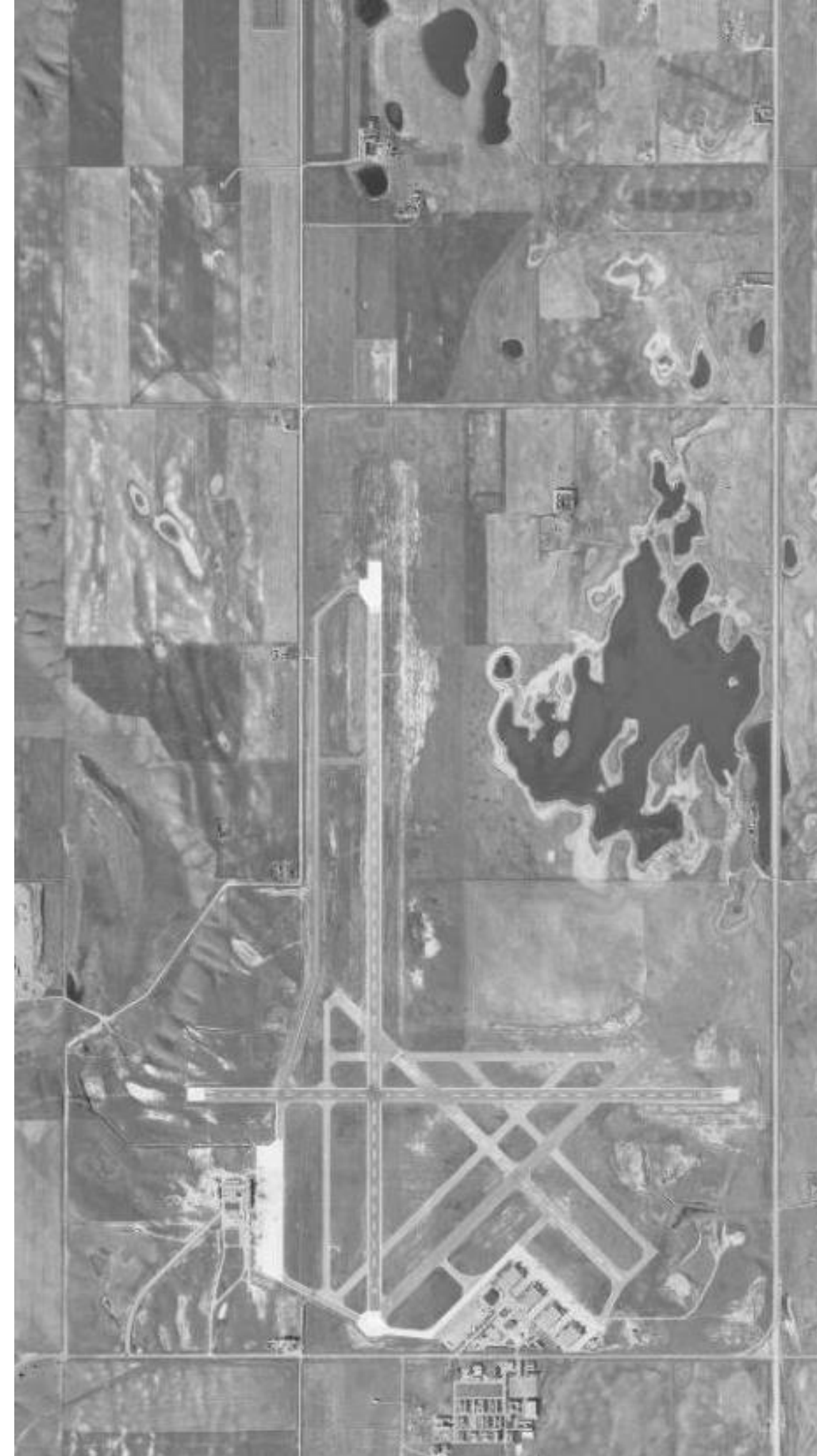
- Structural or Electrical failure
- Costly Emergency Repairs
- Runway Capacity Constraints



# Historical Comparison – City of Calgary Database



**1948**



**1957**



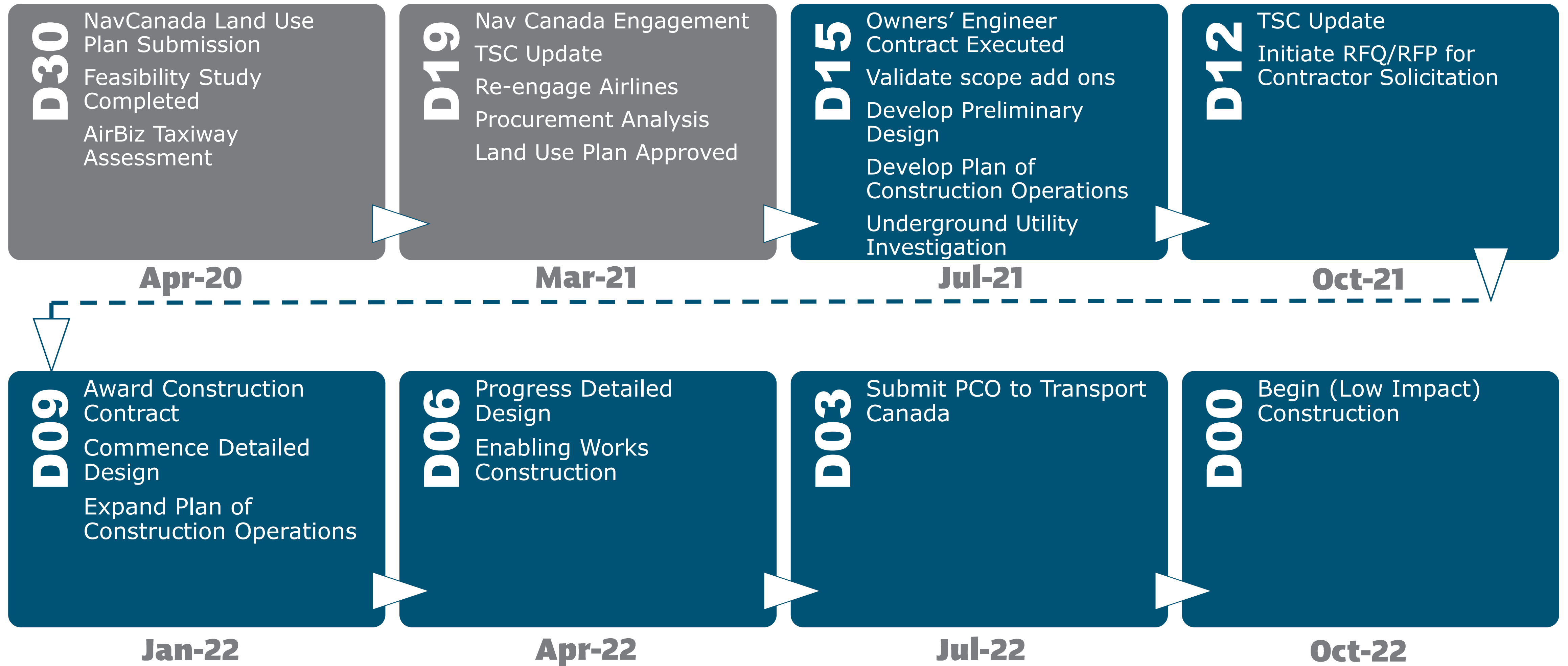
**1979**



**2020**

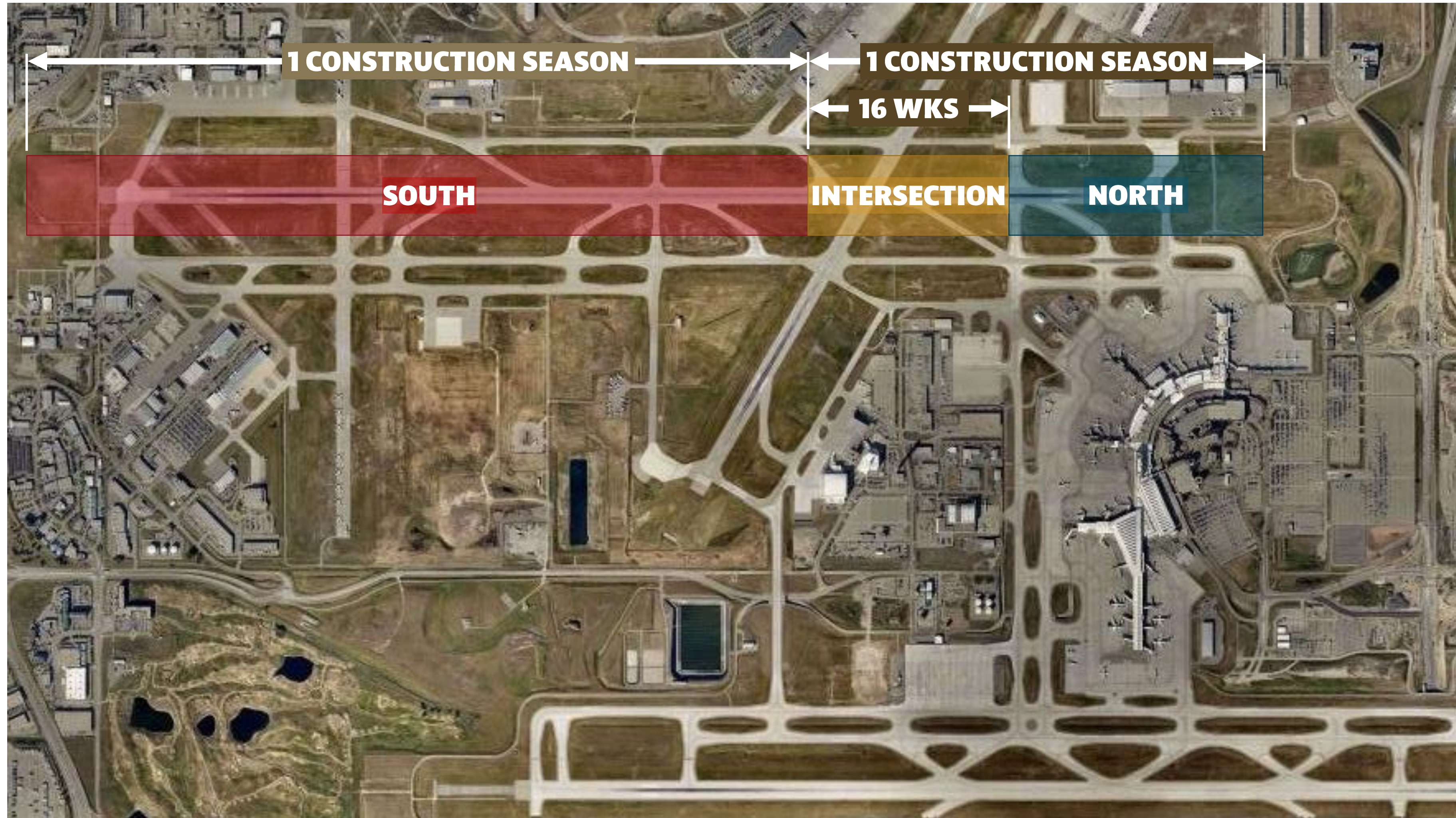


# WEST RUNWAY REHABILITATION PROJECT PLANNING CYCLE



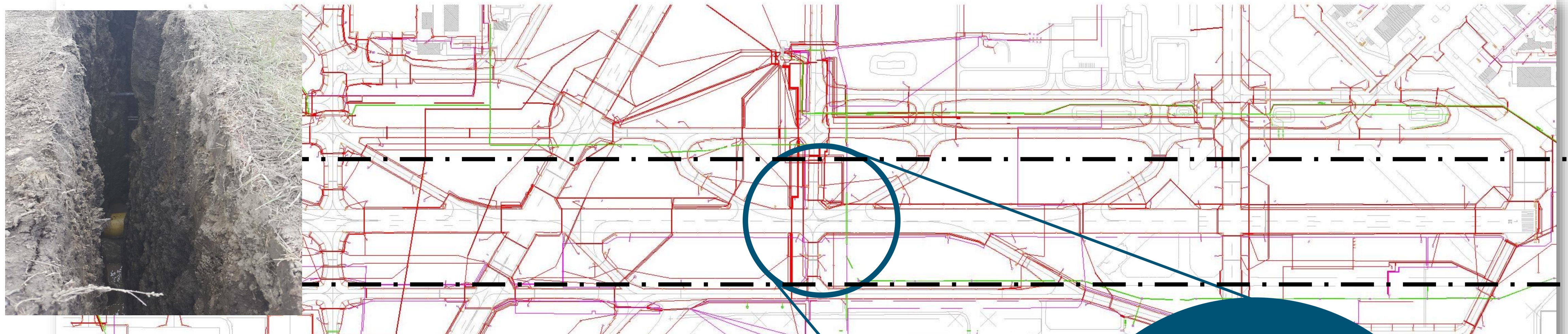


# Proposed Project Phasing





# WEST RUNWAY REHABILITATION – UTILITY INVESTIGATIONS



## Underground Utility Investigation

Locate, expose, identify, survey and catalogue all existing power and communications cables including utilities abandoned in place

This will be completed on all cables 150m on either side of Runway 17R-35L

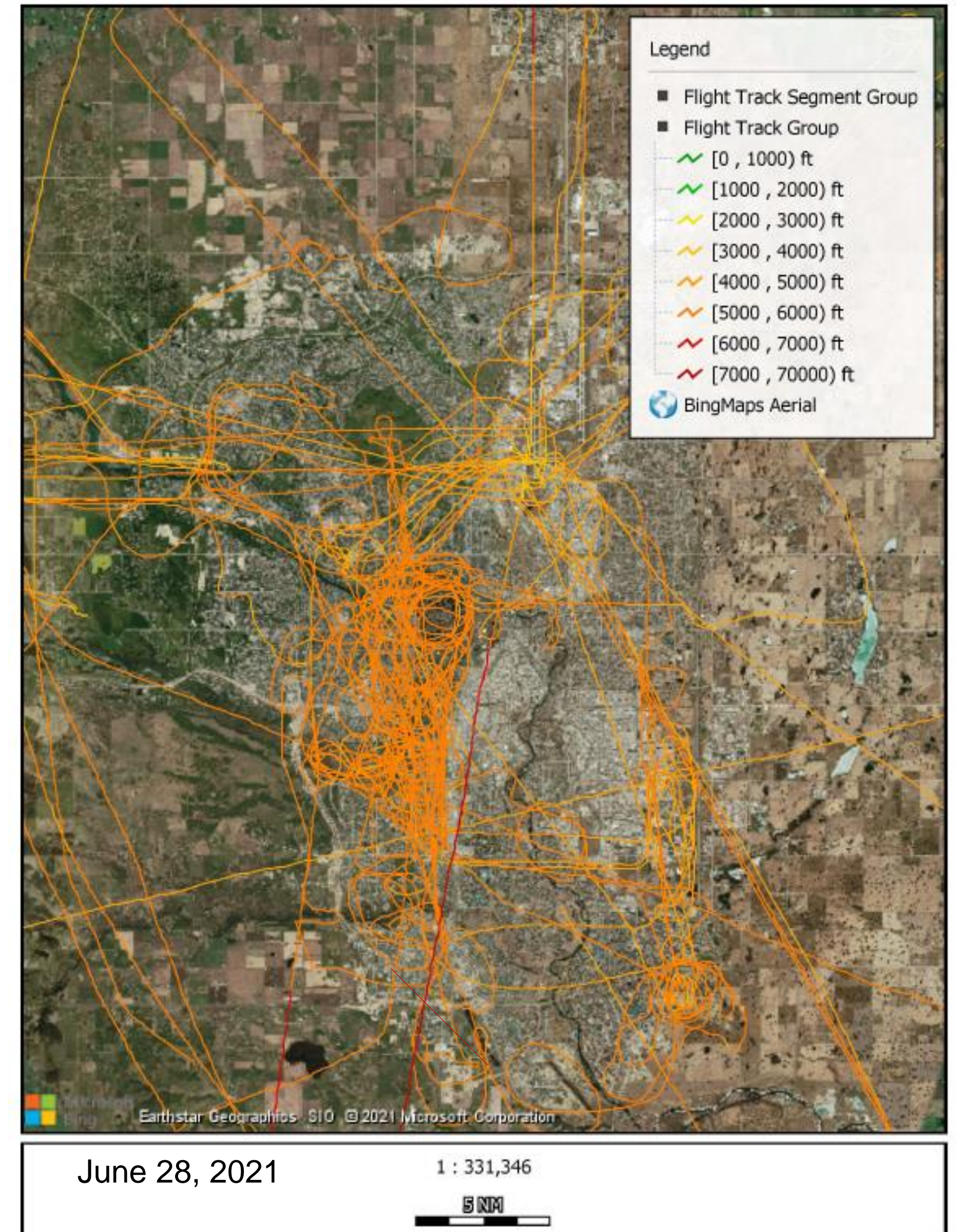
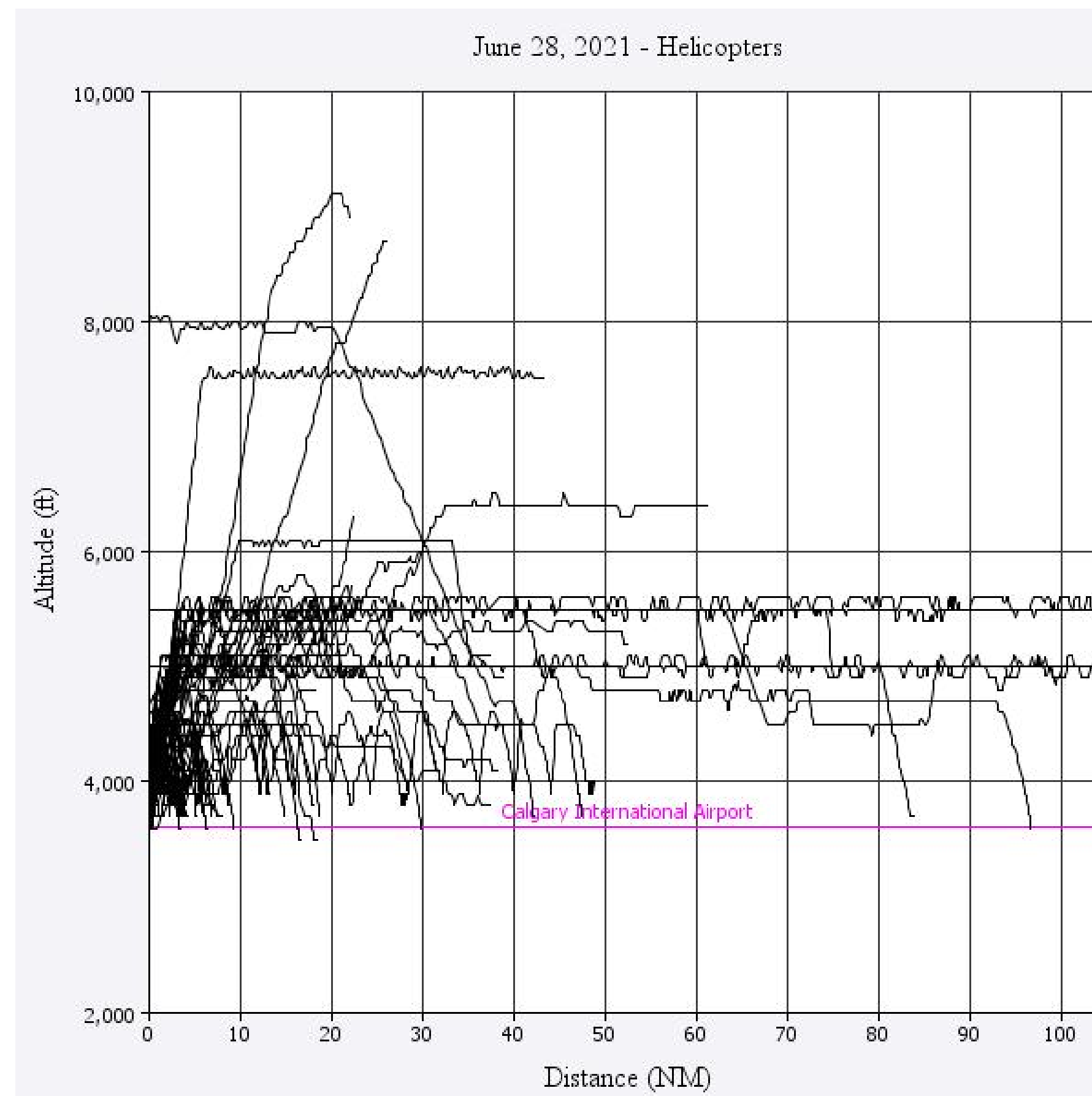
This exercise will reduce the risk of delays during construction, so work does not need to shutdown to investigate unknown underground utilities





# Helicopter Traffic Update

**The issue:**  
Overflights of residential areas at and/or repeated overflights





# Helicopter Traffic Update

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## Management Actions

- Maintained flights are being done outside of City limits at YBW or elsewhere rural.
- Where flights over Calgary are operationally required, operators are requesting higher altitudes (previously was 4,000 – 4,500 ft, now they are closer to 5,000 to 6,000 ft).
- Operators are requesting departure headings to the east or south, where operationally feasible



# Community Engagement

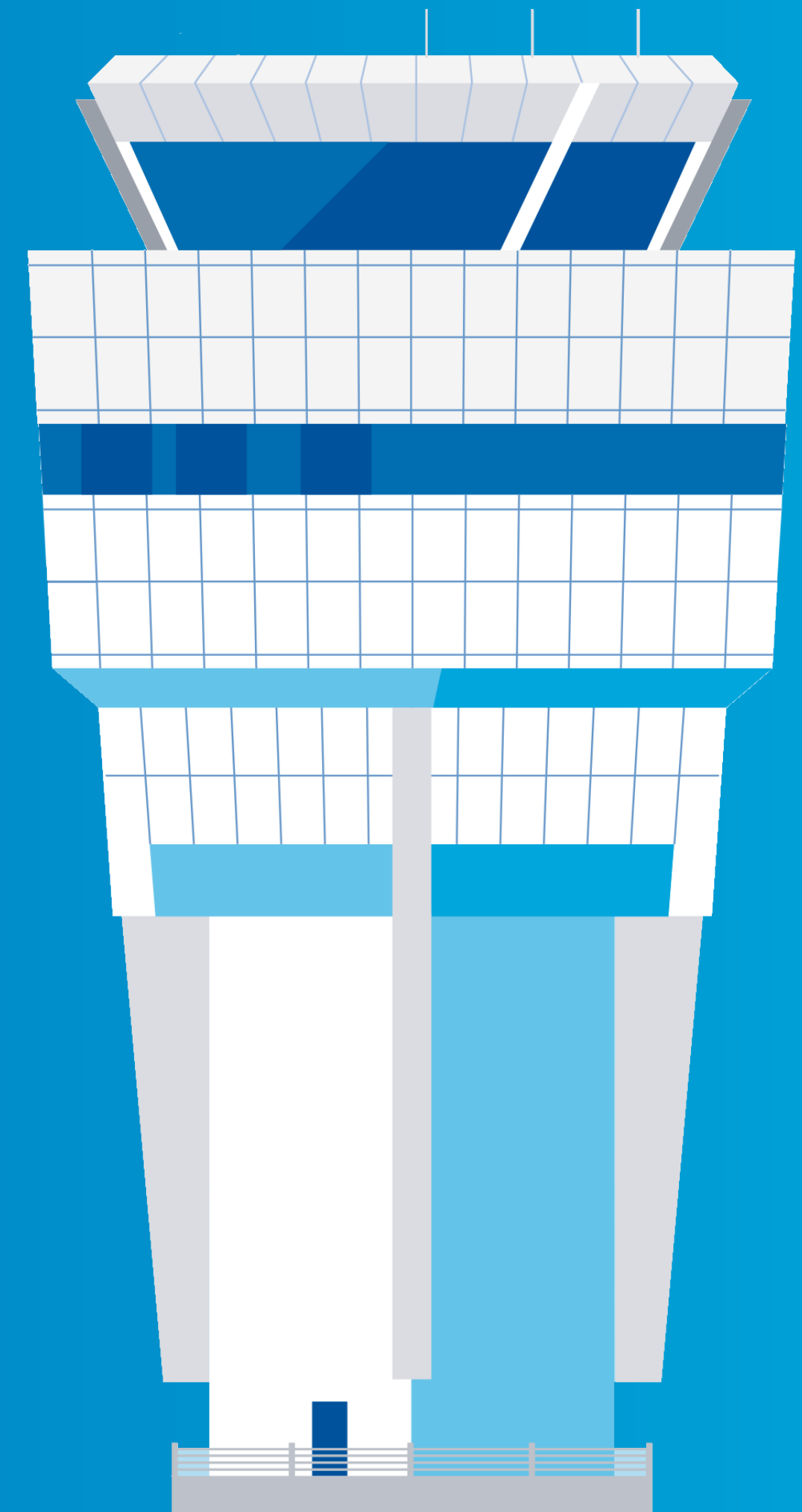
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- An opportunity was identified to communicate noise mitigation efforts and strategy through individual community newsletters.
  - Is there a desire for this?
  - If so, is there interest from individuals to help push this forward?

2021-07-08

# Calgary Airport Southbound Jet Turn Trial

Greg Konrad – Manager, Calgary Tower and Terminal Operations  
Christopher Csatos – Manager, Stakeholder and Industry Relations





# TOPICS

- ▶ Refresher on Jet Turn Trial
- ▶ Jet Turn Trial Results
- ▶ Planned Consultation Process
- ▶ Q&A



# Refresher on Jet Turn Trial

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# REFRESHER ON JET TURN TRIAL

## Background

- › In collaboration with Calgary Airport Authority, NAV CANADA is currently conducting a new departure procedure trial that improves runway throughput, responds to airport infrastructure changes, and delivers noise mitigation to communities south of the airport.
- › The trial permits jets departing runway 17L or 17R to turn toward the other runway on initial departure.
  - This is similar to the procedure already in place for aircraft departing to the north using runway 35L or 35R.
  - Intended as a 1 year trial, but extended due traffic levels during the pandemic.



# REFRESHER ON JET TURN TRIAL

## Benefits

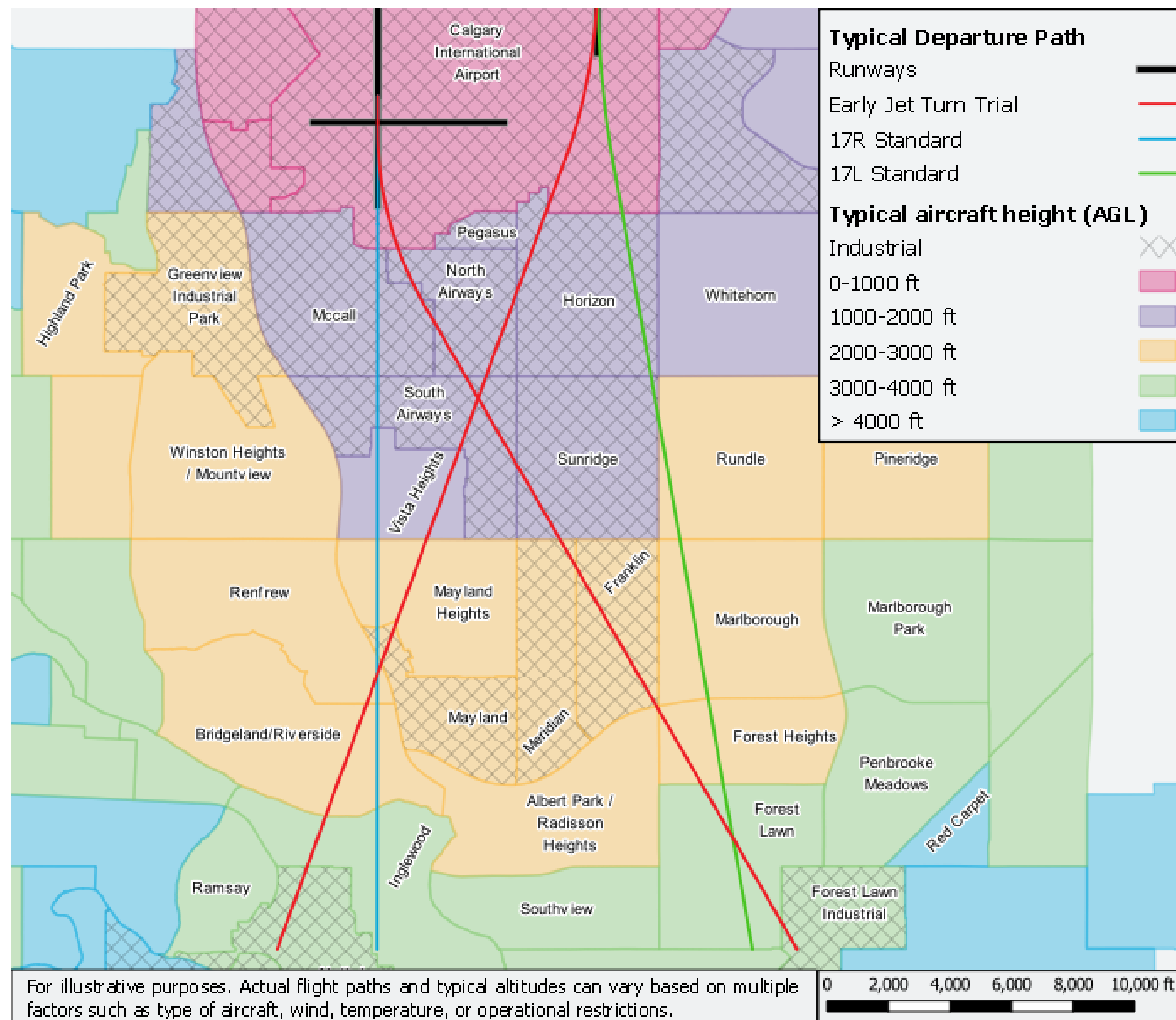
- › Increased balancing of noise for communities south of the airport.
- › 17R departures more likely to overfly non-residential land at lowest altitudes.
- › 17L departures more likely to be higher when they reach residentially populated areas.
- › Reduced track mileage and greenhouse gas emissions as a result of reduced taxiing and more direct routing in the air.
- › Reduced taxi times and reduced complexity in moving aircraft on the ground (including associated fuel burn).



# JET TURN REFRESHER

## Anticipated Flight Tracks

- › Red lines show anticipated paths from each runway
- › The colour of each neighbourhood indicates approximate height above ground for aircraft (during an example 36 hour period)
- › Hatched areas are designated, “Industrial” by the City of Calgary





# Jet Turn Trial Results

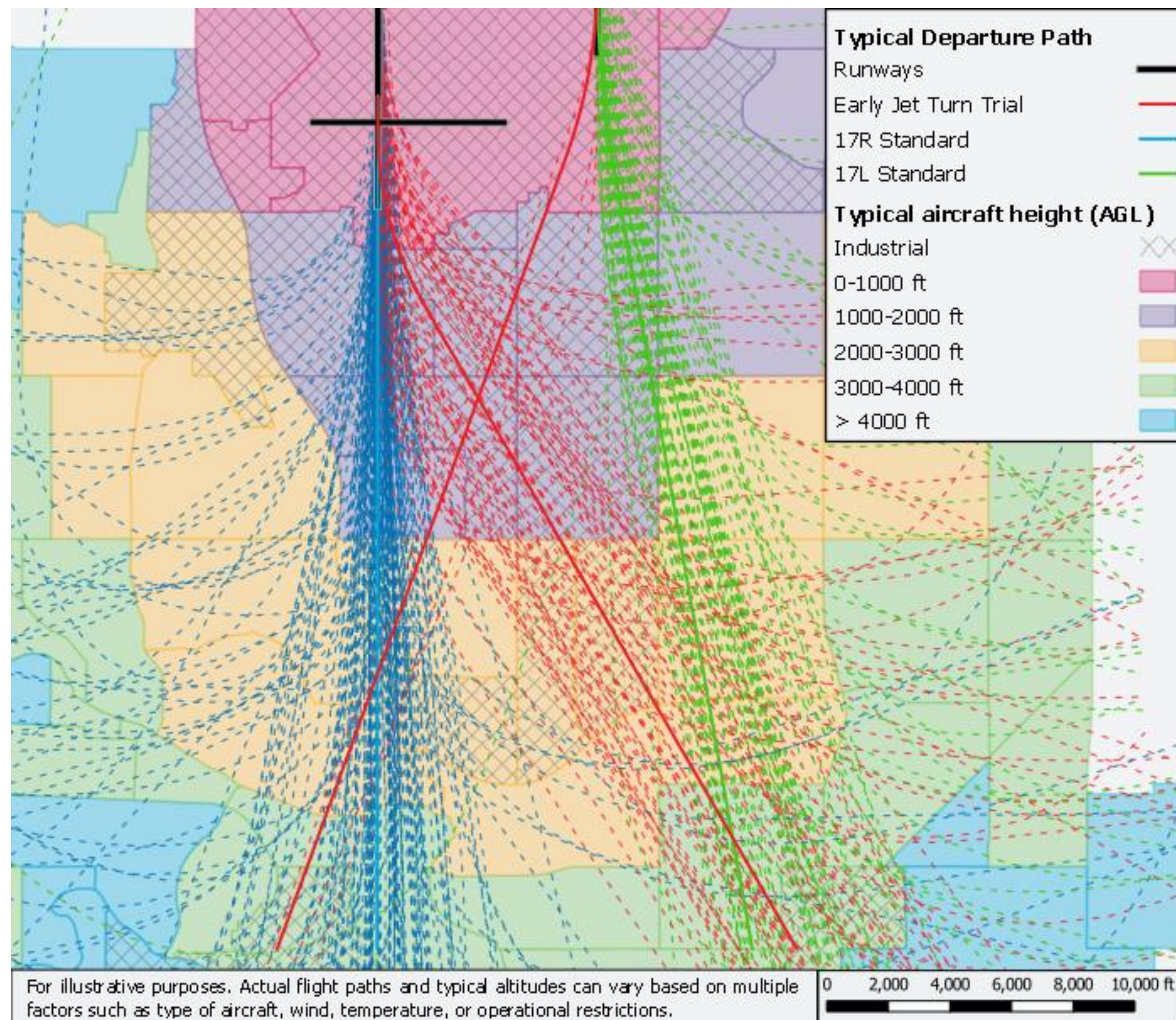
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# TRIAL RESULTS

## Sample 36-Hour Period

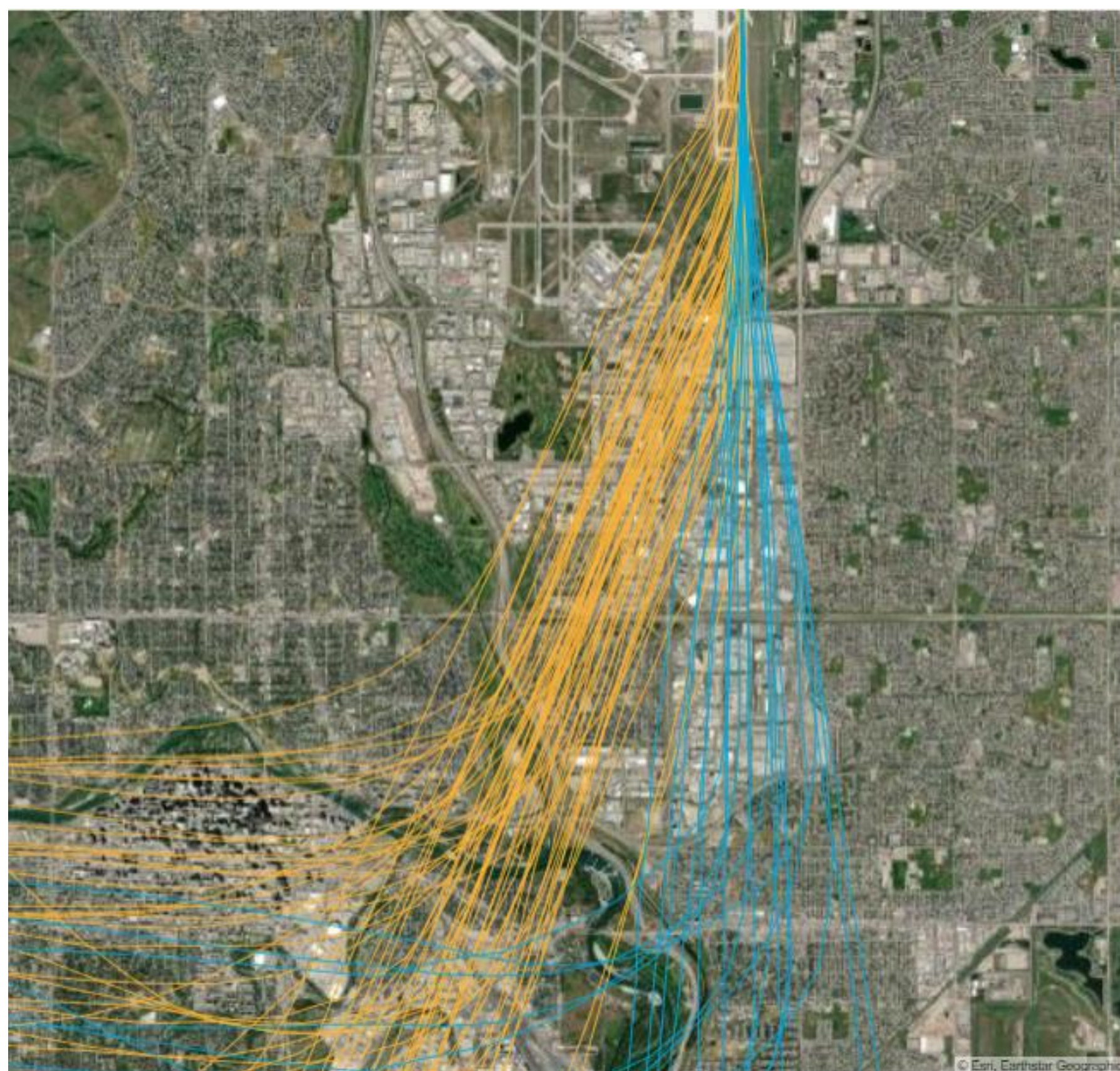
- › Red lines show tracks for turns from each runway
- › The colour of each neighbourhood indicates approximate height above ground for aircraft
- › Hatched areas are designated, “Industrial” by the City of Calgary





# JET TURN TRIAL RESULTS

Summary Results – 17L – November 2019 to March 2021

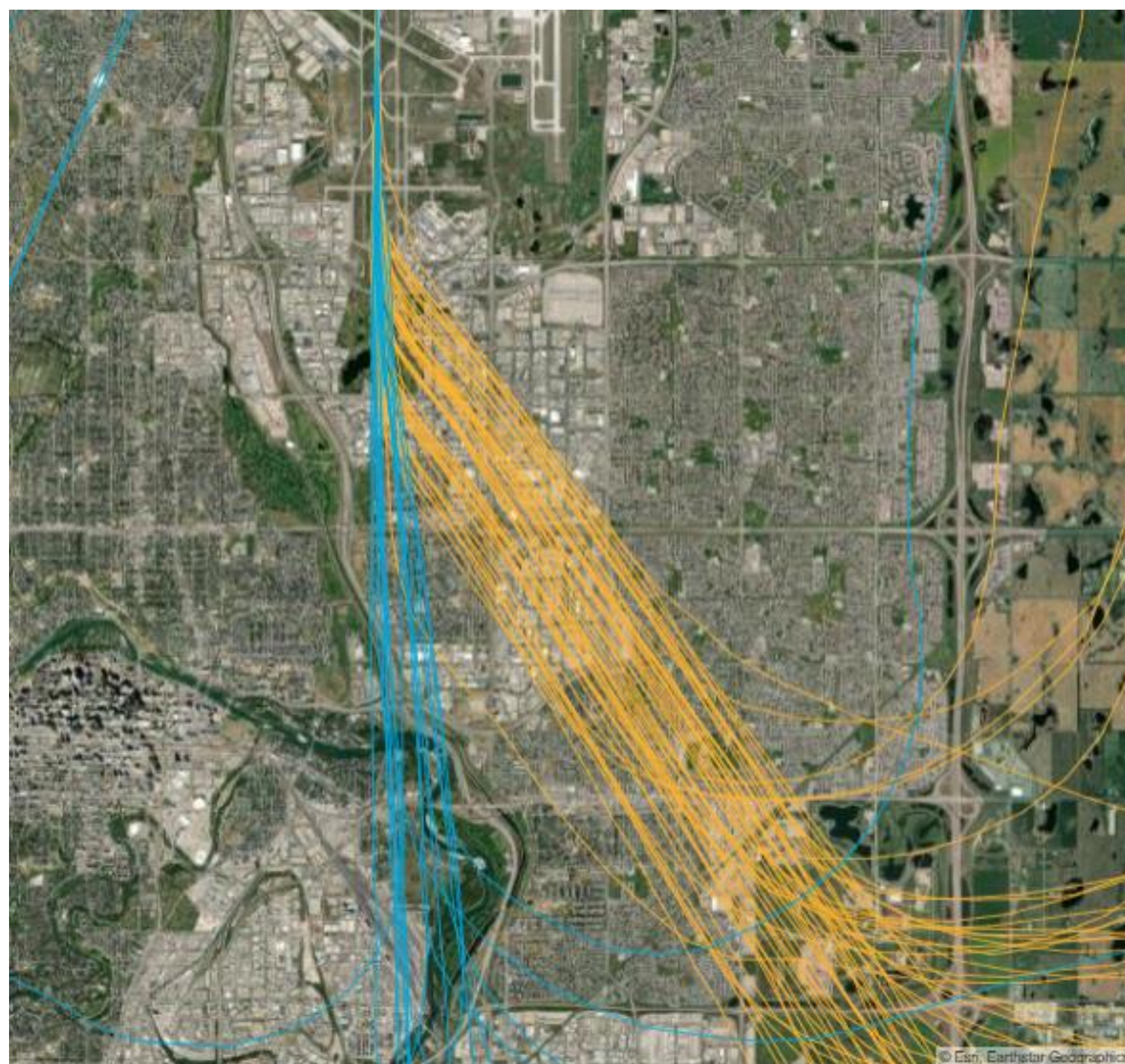


- › **Expectation: < 15% of departures use new heading**
- › Of 5,494 aircraft considered, **400 were eligible** to be turned, and **300 were turned**
- › **Result: 5.5% of total departures and 75.0% of eligible departures were turned to heading 185°**



# JET TURN TRIAL RESULTS

Summary Results – 17R – November 2019 to March 2021



- › **Expectation: 30 - 50% of departures use new heading**
- › Of 11,781 aircraft considered, **5,240 were eligible** to be turned, and **4,317 were turned**
- › **Result: 36.6% of total departures and 82.4% of eligible departures were turned to heading 135°**



# Planned Consultation Process

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# PLANNED CONSULTATION PROCESS

## Work To-Date

- › Initial briefing provided to the airport's community consultative committee (ACCC) on September 18, 2019.
- › Public notice was published on YYC website and shared with email distribution list.
- › Commitment to updating the ACCC on performance of the trial at scheduled meetings.
- › Feedback is welcomed. Further public engagement/consultation will be in coordination with the Airport Authority.

# PLANNED CONSULTATION PROCESS

## Upcoming Consultation

- › Provide information on the trial to affected communities
  - Information on airport and NAV CANADA operations
  - Maps showing procedures, altitudes and utilization
  - How to provide feedback (online input form)
- › Briefings to targeted elected officials
- › Present a report summarizing the feedback and decision regarding the procedure moving forward



# PLANNED CONSULTATION PROCESS

## Expected Timelines

- › Briefings to elected officials: **Fall 2021**
- › Notice of Consultation and comment period (90 days): **Fall 2021**
- › Report drafted and ACCC briefed: **Winter 2022**
- › Implementation Planning (if required): **Winter 2022**

# Q & A

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# THANK YOU

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# MEMBER Q/A

