



# WHAT'S UP WITH TRANSFER STATIONS IN FLORIDA?

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# THE SITUATION

- 235 Transfer Stations in Florida – Oculus
- New Facilities Constructed – Rehab of Old Facilities
- Time is Ripe for Panel Discussion at SWANA FL!



# CLEARWATER TRANSFER STATION REBUILD 2010 - 2020

# Transfer Station



**60 Ton Truck Scale**



**4-Bay Tipping Floor**



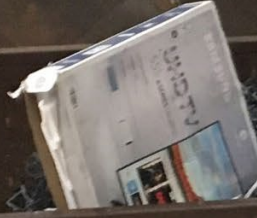
**Unloading of Inbound**  
**Loading of Outbound**



**2 Trailer Loading Capacity**



CITY OF CLEARWATER  
SOLID WASTE DEPT  
562-4920





**CAUTION**  
OPERATING KEEP ALL  
PERSONNEL AT LEAST  
6 FEET FROM THIS MACHINE.

**WARNING**  
ALL OPERATORS MUST BE FAMILIAR  
WITH AND PROCEED WITH CAUTION  
ON ALL OPERATIONS. ALWAYS WEAR YOUR  
SEATBELT. IN ADDITION, HAVE  
OPERATING MANUAL AND UNDERSTAND  
ATTENTION TO SAFETY BEFORE  
OPERATING THIS MACHINE.

GA. 100%  
CONTROL PATTERN / FULL TIME  
PAGES





# McKay Bay Transfer Station

120 S 34<sup>th</sup> St. / Tampa, Florida 33605



**TRANSFER STATION A**

*Estación de Transferencia A*

**DRAFT**



**TIPPING FLOOR A**

*Plataforma de Volteo A*



**RECYCLING DROP-OFF AREA**

*Recolección de Reciclaje*

**TRANSFER STATION B**

*Estación de Transferencia B*



**TIPPING FLOOR B**

*Plataforma de Volteo B*



**Z-WALL**

*Pared Z*



**Stephen S. Swan**  
Chief Of Operations

City of Tampa Department of Solid Waste  
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TIRES  
YARD WASTE

RECYCLING

RECYCLING

YARD WASTE & TIRES

YARD WASTE & TIRES

RECYCLING

RECYCLING

RESIDENT DROP OFF

RESIDENT DROP OFF

COMMERCIAL TIPPING FLOOR

COMMERCIAL TIPPING FLOOR

COMMERCIAL TIPPING FLOOR

RESIDENT DROP OFF

# McKay Bay Transfer Station

An aerial photograph of the McKay Bay Transfer Station. The facility features several large industrial buildings with blue roofs and a large parking lot filled with cars. Various waste disposal areas are highlighted with colored boxes and labels: 'TIRES YARD WASTE' (blue), 'RECYCLING' (green), 'YARD WASTE & TREES' (blue), 'COMMERCIAL TIPPING FLOOR' (yellow), and 'RECYCLING' (orange). The station is situated near a body of water and a forested hillside.

***"We know that this new transfer station will help provide an even higher level of customer service to our residents by cutting wait times and making the whole disposal process more efficient," Mayor Jane Castor said. "Additionally, customers with smaller vehicles will no longer drop off waste alongside larger vehicles, making the disposal process even safer."***





**Steve Swan**

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**THANK YOU!**



# Transfer Station Project

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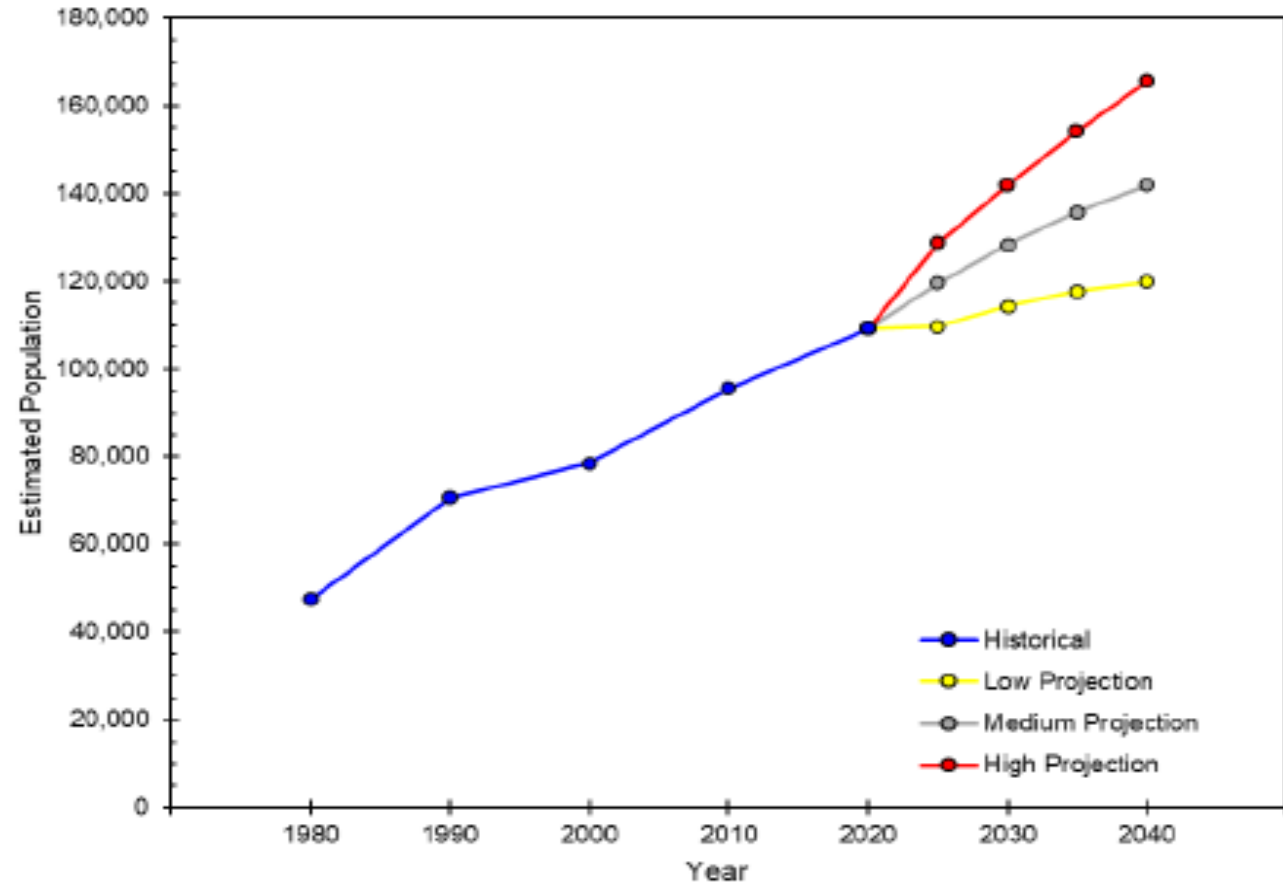
When Why and Where?



# When Should We Build

## Should We Build?

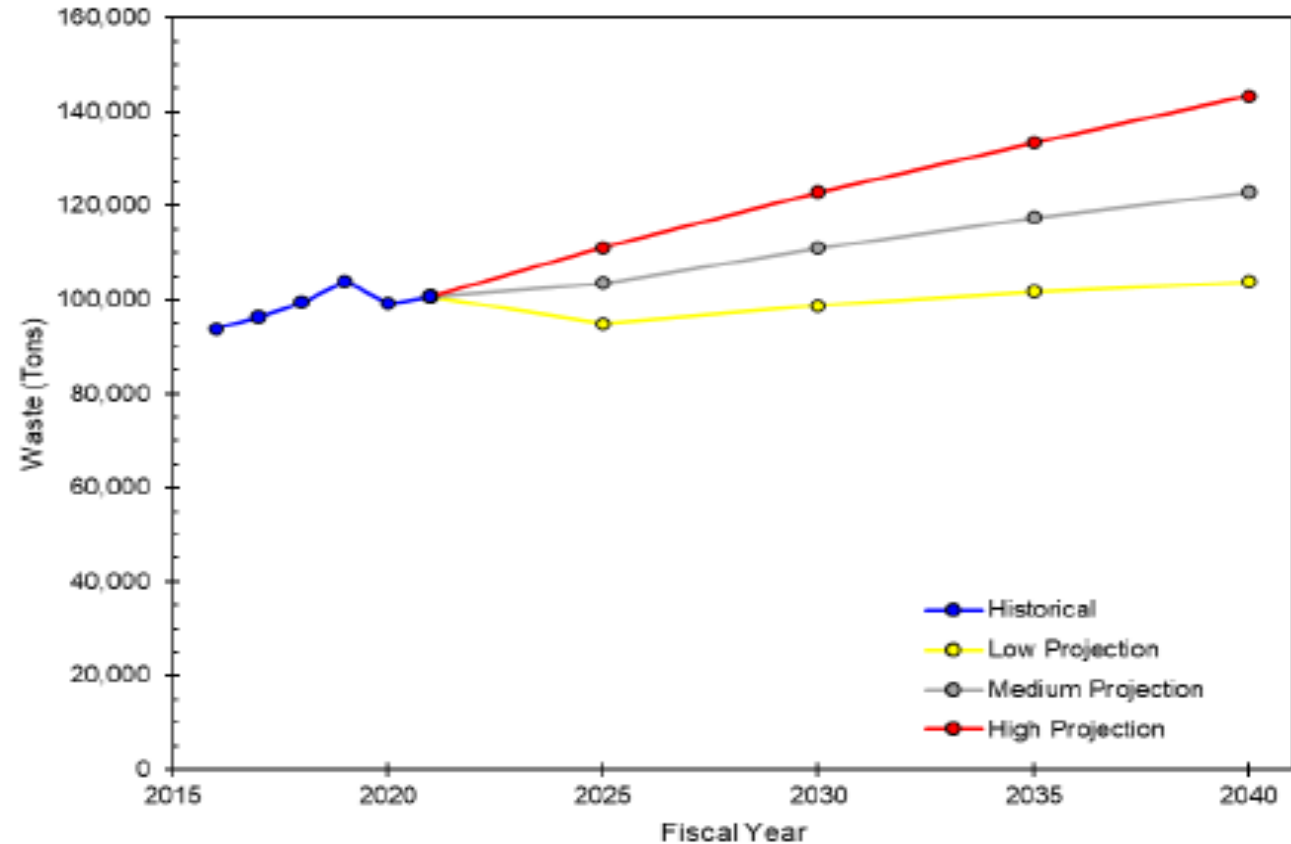
- When...
  - When city growth has the potential to affect efficiency.



: Estimated Historical and Projected Population Within City of Lakeland City Limits

## When...continued

The Lakeland metro areas, population has climbed by 3.3% increase ranking the Lakeland metro area as the seventh highest among all U.S. metro areas



**Projected Flows of City of Lakeland Waste (Residential and Commercial Waste, Recycling and Yard Waste) Collected in Lakeland**

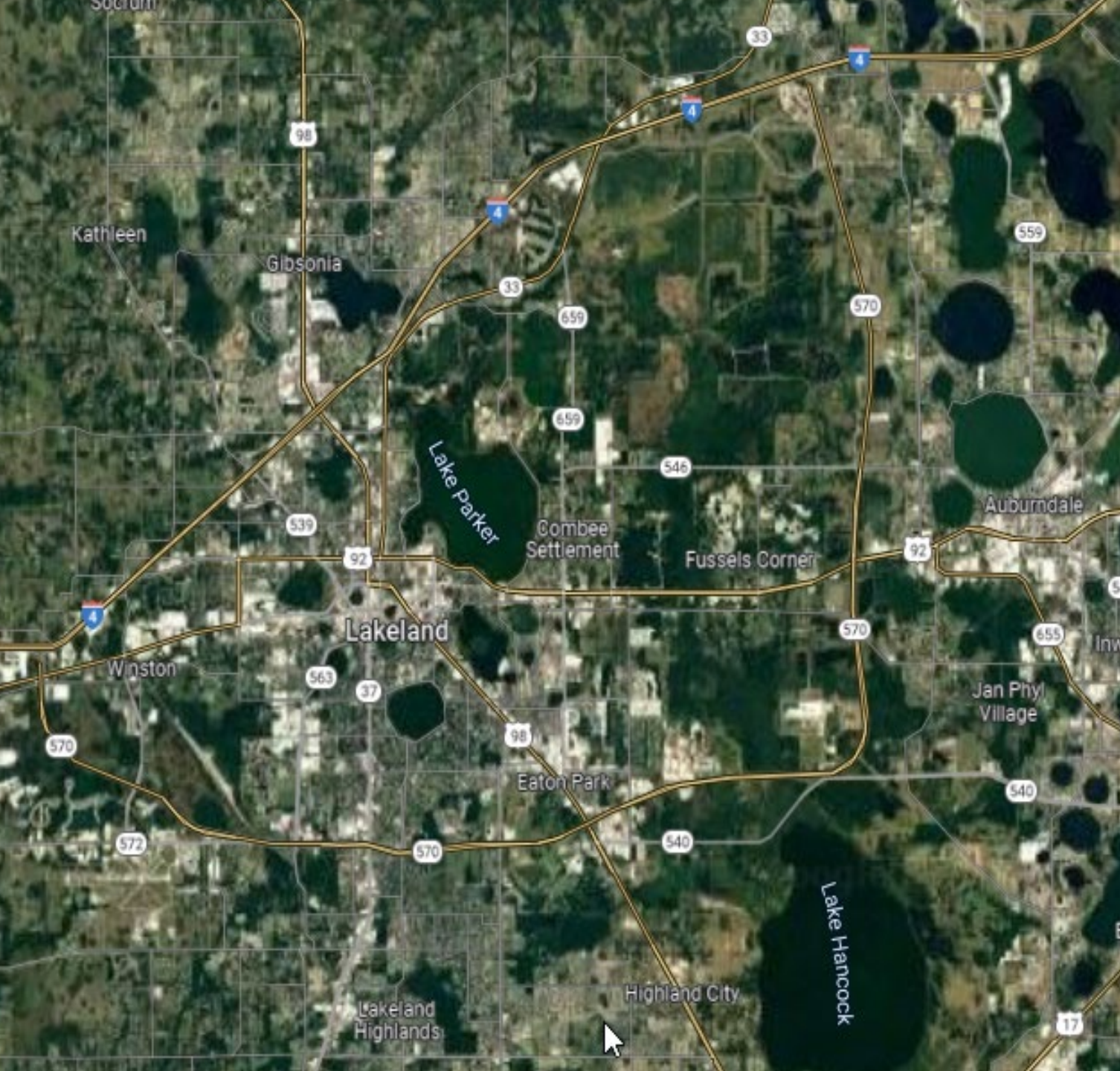
# Why Should We Build?

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- Why...

- Safety and equipment damage direct hauling to the landfill become significant.
- Recycling recovery – Greater access to recyclables-dominated loads
- Flexibility – TS makes hauling to alternative disposal sites feasible for Class I, Class III, C&D, and recyclables
- Potential Enterprise fund



# Where...

Probably the most difficult question to answer.

## Sighting Checklist:

- ✓ Industrial zoning,
- ✓ Distance from sensitive areas
- ✓ Available real estate
- ✓ Heavy truck road access
- ✓ Find ways to address potential issues early



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**863-834-8777**

# Hillsborough Transfer Cost of Operations Review

Geosyntec<sup>®</sup>  
consultants



Hillsborough  
County Florida

July 26, 2022

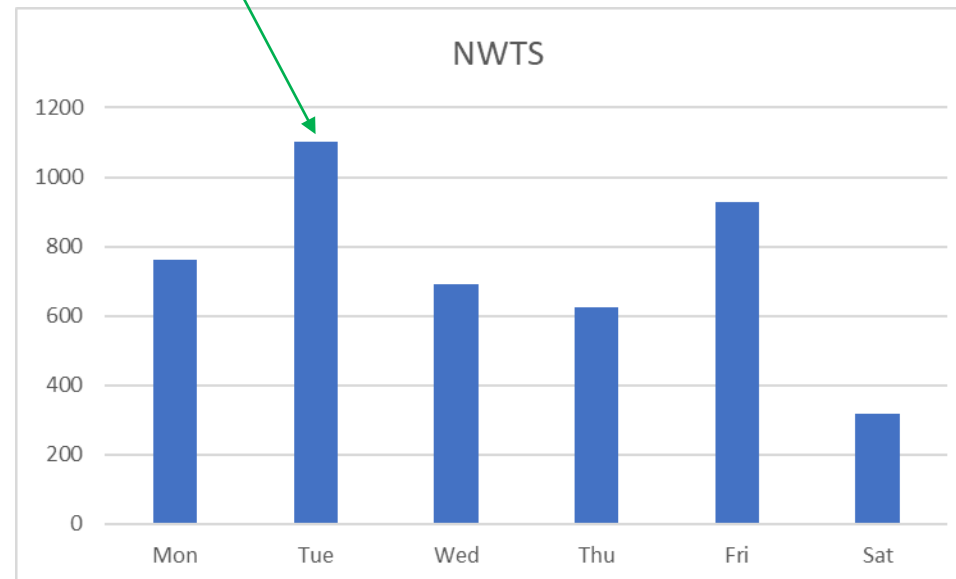
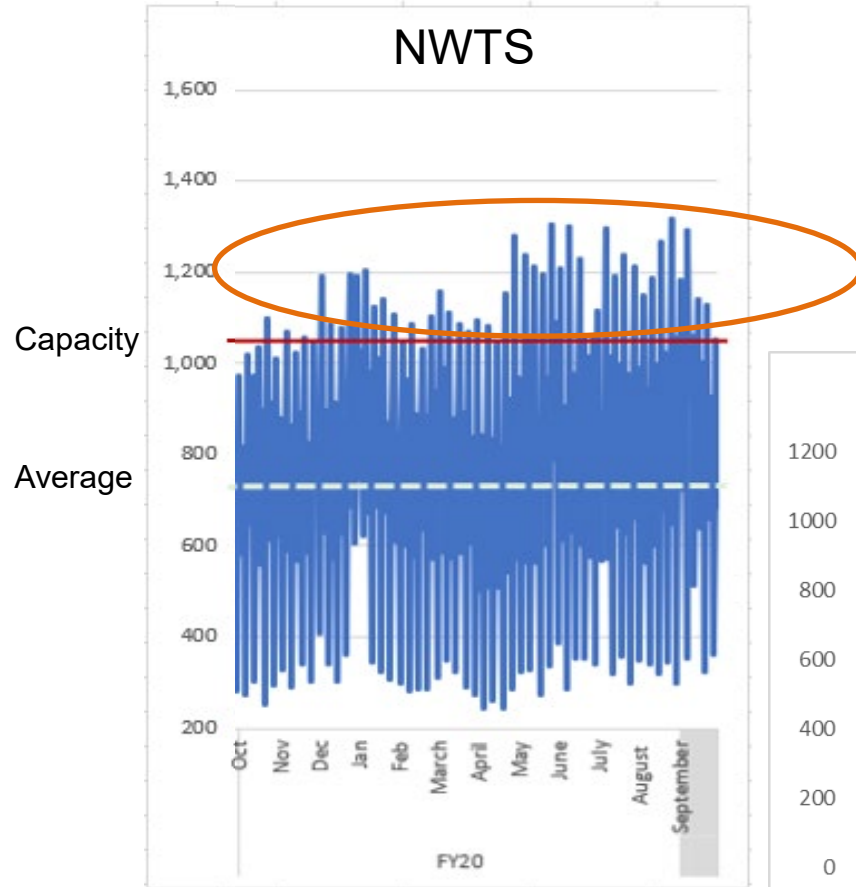
- Hillsborough County retained Geosyntec Consultants (Geosyntec) in September 2020 to conduct a review of its two solid waste transfer stations Northwest Transfer Station (NWTS) and South County Transfer Station (SCTS).
- The overall objective of the study was:
  - 1) assess the current cost of services and
  - 2) identify potential optimization and cost savings for future operations.

- Geosyntec performed a 3-day site visit to observe facility operations
- Reviewed detailed financial and operating data
- Financial and operational models and scenario analysis
- Modelled staffing and waste flow
- County staff were open and cooperative during the review.



# Volume / Capacity Issue at NWTS

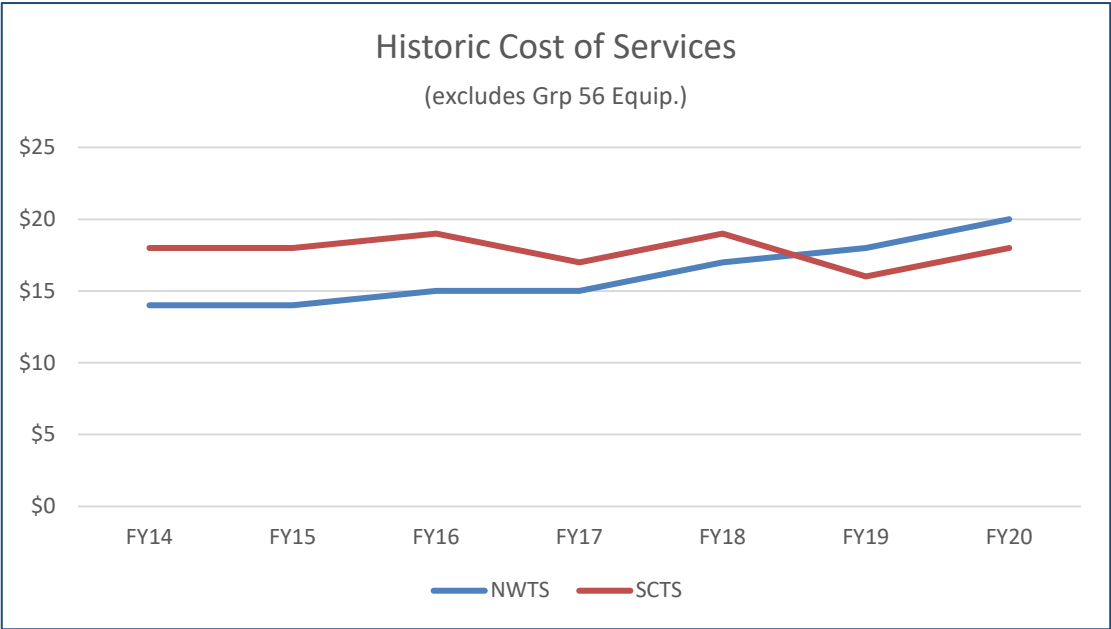
- Our est. reasonable daily capacity is 1,100 tpd
- Avg. Daily Vol (756 tpd) = 69% of capacity
  - 33 days > 1,100 and growing each year
  - 80 days => 85% capacity
- Highest days typically Tuesdays.
- Operating near or above optimal volume impacts staffing and increases cost



- Challenging operating environment—defined by:
  - Expectation of high levels of service (e.g., required days and hours)
  - Level of volumes processed by two sites ~ 400,000
  - High population growth 50% since 2015 and volume growth 50%+
  - Significant volume variations between days
  - Dense regional traffic patterns
  - Physical limitations of the older design of one of the two facilities (NWTs)

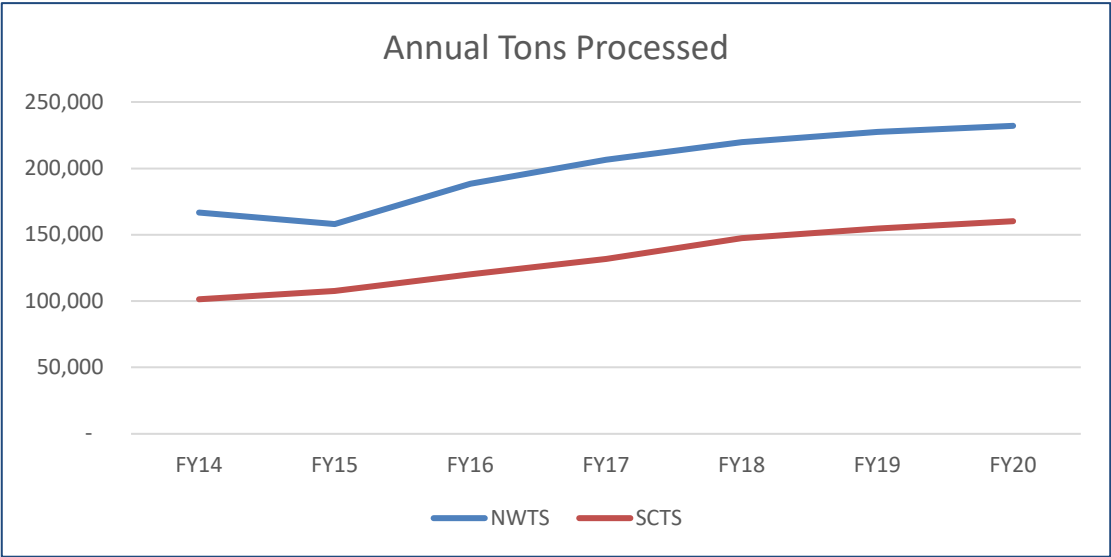
- The cost of service on a per-ton basis was in the reasonable range but on the high side
- Expected economies of scale are reflected in only one of the two transfer stations
- There was an ongoing need to reduce variability in all operational metrics (e.g., avg. ton/load, turn times) to gain efficiencies
- Strong indication of need for additional transfer capacity

# Cost Per Ton Summary



\$20/ton

\$18/ton



- Add pit scales for more consistency in transfer loads
- Operating scenarios evaluated suggest potential efficiency opportunities
- Scenarios each have different potential financial risk and reward and operational flexibility profiles to be weighed
- Further evaluation issues identified in study:
  - Cause of tonnage growth in excess of population rate
  - Review the need for a third transfer station

Thank you!