

## Quarterly Service Performance Review 2<sup>nd</sup> Quarter, FY21

#### **October – December 2020**

Engineering & Operations Committee March 11, 2021

	SUMMARY CHART 2nd QUARTER F				R FY 2021					
PERFORMANCE INDICATORS	CURRENT QUARTER				PRIOR QTR	ACTUALS	YEAR TO DATE			
			LAST	THIS QTR						
	ACTUAL	STANDARD	STATUS		QUARTER	LAST YEAR	ACTUAL	STANDARD	STATUS	
Average Ridership - Weekday	50,436	85,842	NOT MET		47,438	403,426	48,876	6 103,684	NOT MET	
Customers on Time										
Peak	95.33%	94.00%	MET		95.68%	90.28%	95.51%	94.00%	MET	
Daily	94.42%	94.00%	MET		95.01%	92.00%	94.71%	94.00%	MET	
Trains on Time										Ш
Peak	91.58%	N/A	N/A		92.14%	84.52%	91.86%		N/A	
Daily	91.74%	91.00%	MET		91.62%	86.94%	91.68%	91.0%	MET	
Peak Period Transbay Car Throughput										ш
AM Peak	99.19%	97.50%	MET		97.10%	95.20%	98.14%		MET	
PM Peak	99.22%	97.50%	MET		97.29%	93.72%	98.26%		MET	
Car Availability at 4 AM (0400)	559	521	MET		504	630	53		MET	
Mean Time Between Service Delays	3,441	4,650	NOT MET		6,116	4,544	4,412	2 4,650	NOT MET	
Elevators in Service	00.000	00.000	MET		00 500	00.076	00.400	00.000	N45-7	H
Station	99.33%	98.00%	MET		99.59%	98.37%	99.46%		MET	
Garage	99.90%	97.00%	MET		99.80%	96.13%	99.85%	97.00%	MET	
Escalators in Service Street	93.93%	93.00%	MET		95.27%	92.53%	94.60%	93.00%	MET	H
Platform	93.93%	93.00% 96.00%	MET		95.27% 97.07%	92.53% 96.77%	94.60%		MET	
	97.23%	90.00%			97.07%	90.7776	97.15%	90.00%		
Automatic Fare Collection Gates	99.54%	99.00%	МЕТ		99.53%	99.36%	99.54%	99.00%	MET	
Vendors	99.54%	99.00% 95.00%	MET		99.53% 98.53%	99.30% 98.93%	98.60%		MET	
Wayside Train Control System	0.98	1.00	MET		0.84	1.56	0.9		MET	
Computer Control System	0.98	0.08	NOT MET		0.457	0.105	0.280		NOT MET	
Traction Power	0.13	0.20	MET		0.05	0.24	0.18		MET	
Track	0.01	0.30	MET		0.00	0.05	0.15		MET	
Transportation	0.38	0.50	MET		0.35	0.46	0.3		MET	
Environment Outside Stations	73.8%	66.0%	MET		69.4%	64.0%	71.6%		MET	
Environment Inside Stations	67.0%	64.0%	MET		67.3%	62.4%	67.2%		MET	
Station Vandalism	73.7%	73.0%	MET		73.6%	68.9%	73.7%		MET	
Train Interior Cleanliness	69.1%	70.0%	NOT MET		66.9%	65.4%	68.0%		NOT MET	
Train Temperature	84.8%	82.0%	MET		80.5%	80.0%	82.7%		MET	
Customer Service	77.4%	75.0%	MET		77.5%	74.3%	77.5%		MET	
Homelessness	27.5%	N/A	N/A		33.7%	24.7%	30.6%		N/A	
Fare Evasion	22.1%	N/A	N/A		23.3%	21.3%	22.7%		N/A	F
Customer Complaints										
Complaints per 100,000 Passenger Trips	22.41	5.07	NOT MET		29.58	11.82	26.00	5.07	NOT MET	
Safety										
Station Incidents/Million Patrons	1.84	2.00	МЕТ		1.94	0.63	1.89	2.00	MET	
Vehicle Incidents/Million Patrons	1.58	0.60	NOT MET		1.11	0.32	1.35		NOT MET	
Lost Time Injuries/Illnesses/Per OSHA	5.21	6.50	MET		3.44	7.52	4.33		MET	
OSHA-Recordable Injuries/Illnesses/Per OSHA	8.44	12.00	MET		7.19	14.63	7.82		MET	
Unscheduled Door Openings/Million Car Miles	0.000	0.200	MET		0.000	0.050	0.000		MET	
Rule Violations Summary/Million Car Miles	0.080	0.250	MET		0.230	0.150	0.15	0.250	MET	
Police						-				
BART Police Presence	13.6%	12.0%	мет		13.7%	11.4%	13.7%	12.0%	MET	H
Quality of Life per million riders	348.95	12.0% N/A	N/A		483.49	65.64	416.22		N/A	
Crimes Against Persons per million riders	20.81	2.00			24.86	4.83	22.83		NOT MET	
Auto Burglaries per 1,000 parking spaces	1.02	6.00	MET		1.29	6.26	22.0		MET	
Auto Burgianes per 1,000 parking spaces Auto Thefts per 1,000 parking spaces	0.21	2.25	MET		0.40	1.39	0.53		MET	
Police Response Time per Emergency Incident (Minutes)	4.25	5.00	MET		4.33	4.74	4.29		MET	
Bike Thefts (Quarterly Total and YTD Quarterly Average)	4.23	100.00	MET		4.33	62	4.23		MET	
Direct theirs (Quarterly Total and TTD Quarterly Average)	14	100.00			12	02	<u> </u>	100.00		

## **FY21 Second Quarter Overview**

- Average Weekday Ridership increased to 50,436. Due to the pandemic, Total ridership is 87% lower than a year ago; Average peak ridership is 89% lower; weekends is 82% lower.
- Train On Time Performance increased to 91.74%, and met goal
- ROW Equipment Reliability: Wayside Train Control, Traction Power, and Track met goal. Rail Cars and Computer Systems did not meet goal
- Station Equipment Availability: All elements met goal. Elevators (Station), Elevators (Garage), Escalators (Platform), Escalators (Street) Ticket Machines and Fare Gates
- Passenger Environment: Environment Outside Stations & Inside Stations, Vandalism, Customer Service, Train Temperature, and Police Presence met goal. Train Cleanliness did not meet goal
- Total rate of Customer Complaints decreased to 22.41 per 100,000 trips, showing 24% improvement.

### **eBART Service Report**



	eBART SERVICE REPORT FOR 2nd QUARTER FY21									
PERFORMANCE INDICATORS	CURRENT QUARTER				PRIOR QTR ACTUALS		YEAR TO DATE			
		LAST		LAST	THIS QTR					
	ACTUAL	STANDARD	STATUS		QUARTER	LAST YEAR	ACTUAL	STANDARD	STATUS	
Ridership										
Average Ridership - Weekday	1,925	8,000	NOT MET		1,802	8,173	1,863	8,000	NOT MET	
Average Ridership - Weekend	667	n/a	n/a		599	2,063	633	n/a	n/a	Н
Service Delivery										
On-Time Performance	96.75%	95.00%	MET		96.53%	93.59%	96.64%	95.00%	MET	
Transfers to BART										
On-Time Connections	99.19%	98.50%	MET		98.81%	97.56%	99.00%	98.50%	MET	н
Equipment										
Train Mean Distance Between Failures (miles)	64,786	14,000	MET		63,164	36,838	127,951	14,000	MET	
Station Elevator Availability	99.72%	98.00%	MET		99.74%	99.96%	99.73%	98.00%	MET	
Station Escalator Availability	98.48%	96.00%	MET		100.00%	99.27%	99.30%	96.00%	MET	н
Customer Feedback										
Complaints/Hundred Thousand Patrons	8.48	7.00	NOT MET		2.08	7.55	9.46	7.00	NOT MET	
Safety										
Passenger Incidents	0.00	n/a	n/a		0.00	0.00	1.00	n/a	n/a	П
Workplace Injuries	1.00	n/a	n/a		0.00	0.00	1.00	n/a	n/a	

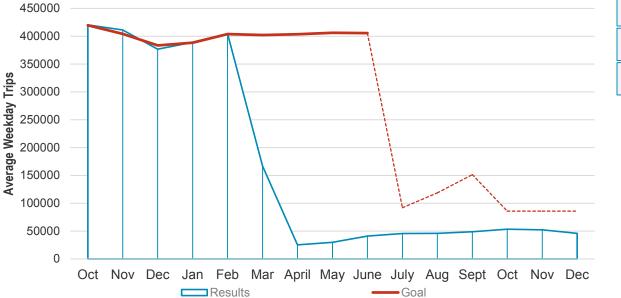
Goal Unmet by <= 5%

Goal Met

LEGEND: Engineering & Operations Committee Goal Unmet by > 5%

#### **Customer Ridership - Weekday Trips**



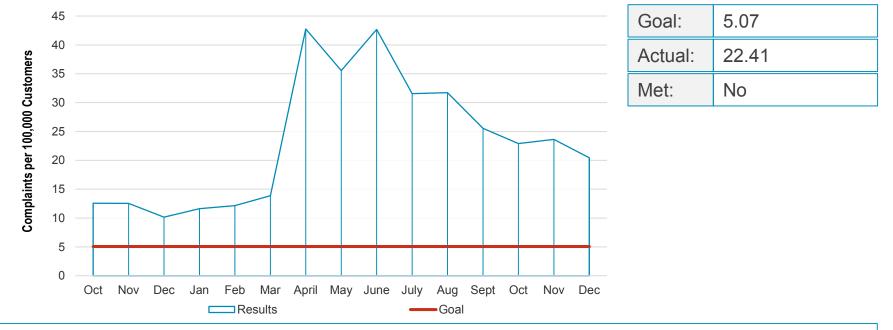


Goal:	85,842
Actual:	50,436
Met:	No

- Total ridership decreased by 87% compared to same quarter last year
- Average weekday ridership (50,436) decreased by 88% from same quarter last year
- Average peak ridership decreased by 89% compared to same quarter last year
- Saturday and Sunday both decreased by 82% from same quarter last year

#### **Customer Complaints**

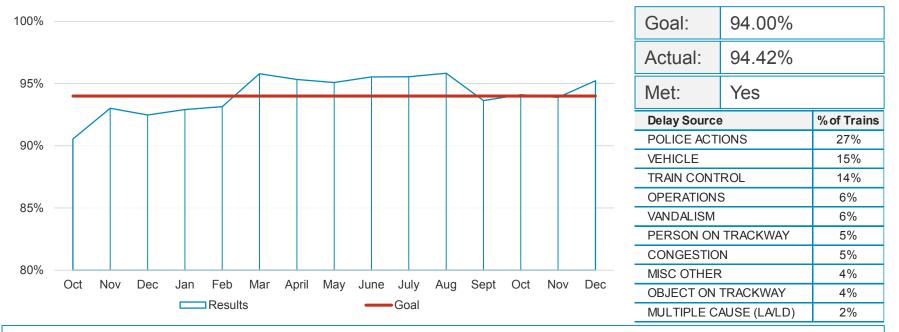




 24% improvement (decrease) in complaints over last quarter per 100K riders. The most significant decreases were in Police, Service, and Parking categories. Biohazards on trains were one of the few to increase.

#### **On-Time Service - Customer**

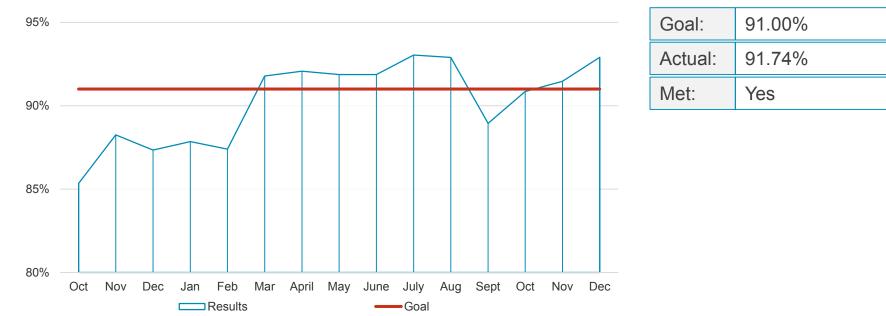




• 0.62% performance decrease from previous quarter and 2.62% improvement from same quarter last year

#### **On-Time Service - Train**



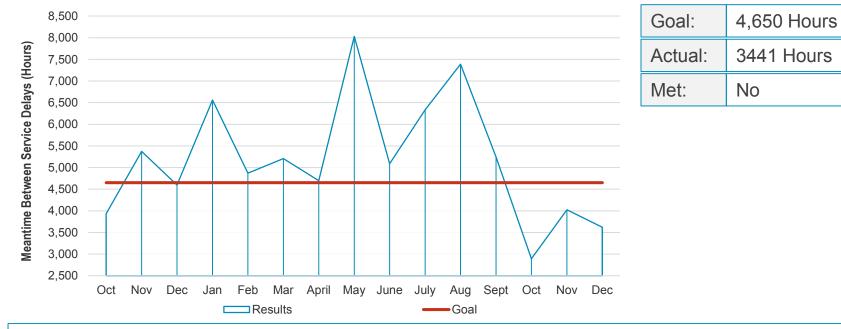


#	Date	Location	Description	Time	Cause	Trains
1	11/22/20	Coliseum	MUX (Fuse)(Shoe fuse Blown)(FOTF Unable to Move in Road or Yard)	0925-1844	Equip	77
2	11/20/20	E.C.D. Norte	Debris On Track (RR Construction Conduit Inst.) (Conduit left on collector shoe)	0507-0914	Equip	28
3	10/22/20	Civic Center	BPD Hold (Weapon Suspect)(Trains running through)	1502-1620	People	24
4	10/28/20	W. Oak. I-Lk	False Occupancy(Cranks Installed)(PC Cards Replaced)	0524-0632	Equip	24
5	10/13/20	S. Hayward	False Occupancy (A77X3A F/O in the A77XL cross over)	1230-1801	Equip	23
6	11/24/20	Lake Merritt	Train Struck A Person On Trackway (Station Closed 1741-1856)	1737-1915	People	21
7	12/15/20	Emb. I-Lock	Routing (Trap Set)	1608-1630	Equip	19
8	12/14/20	W-Line	False Occupancy/Flooding due to Clogged Drain/Single Tracking (W15-W33)	0354-0914	Environment	17
9	10/23/20	Powell	3rd Rail Power (MR04 tripped)	1601-1651	Equip	17
10	10/13/20	Lake Merritt	3rd Rail Power (KXB, DC01/02/03/04, KTT,AR01, ALM tripped offline)	0813-0938	Equip	14

## **Car Equipment – Reliability**

#### **Meantime Between Service Delays**

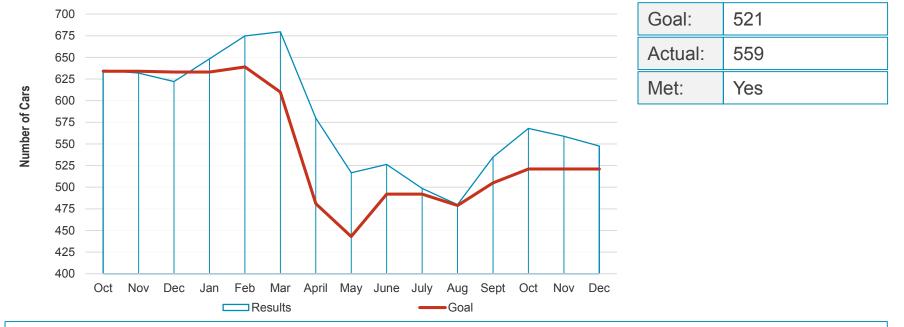




- 43.74% performance decrease from previous quarter and 24.28% decrease from same quarter last year
- Legacy Fleet MTBSD exceeds goal at 7467
- FOTF Fleet MTBSD 1575
- FOTF VATC failures major driver of poor performance
  - · VATC 4.1 software to mitigate failures expected to be released in April

#### **Car Equipment – 4:00AM Availability**



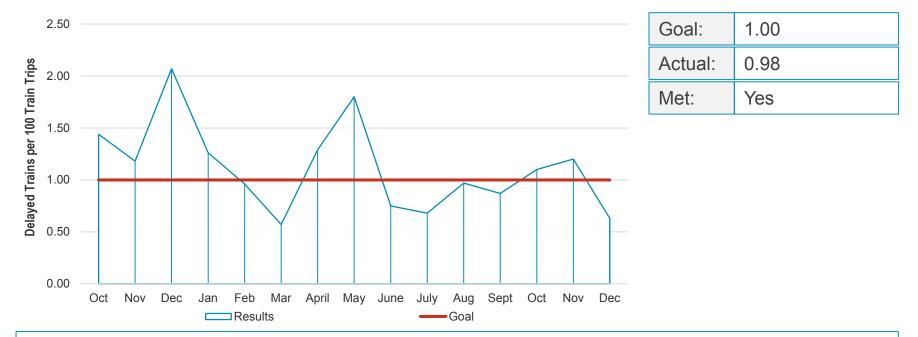


- 10.84% performance improvement from previous quarter and 11.22% decrease from same quarter last year
- Conditionally accepted 46 FOTF cars during FY21 Q2, as of today total of 286 FOTF cars accepted
- Decommissioned 13 legacy cars during FY21 Q2

## **Wayside Train Control System**

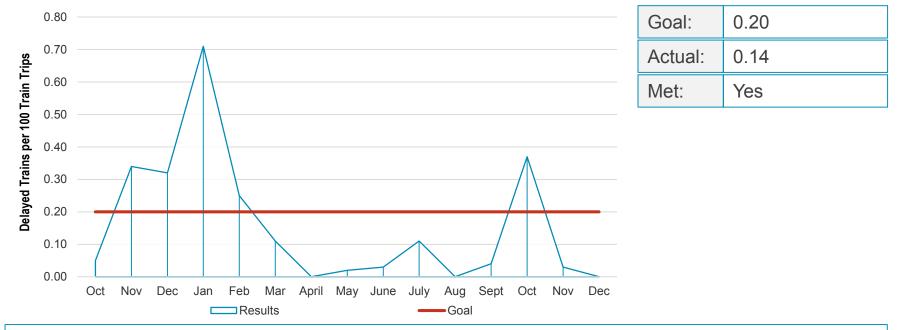
#### **Delayed Trains per 100 Train Trips**





- 16.27% performance decrease from previous quarter and 37.58% improvement from same quarter last year
- Major Failures:
  - > 10/13/20 False Occupancy at Hayward –broken connector
  - > 10/28/20 False Occupancy at Embarcadero bad data cards
  - > 12/15/20 Routing System Failure reset to clear

## Traction Power Delayed Trains per 100 Train Trips

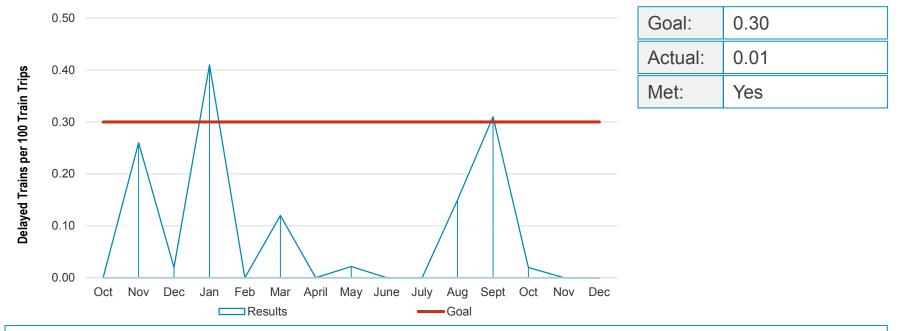


- 180% performance decrease from previous quarter and 39.13% improvement from same quarter last year
- Major Failures:
  - October 23 Blown insulator at Powell Station

#### Track

#### **Delayed Trains per 100 Train Trips**





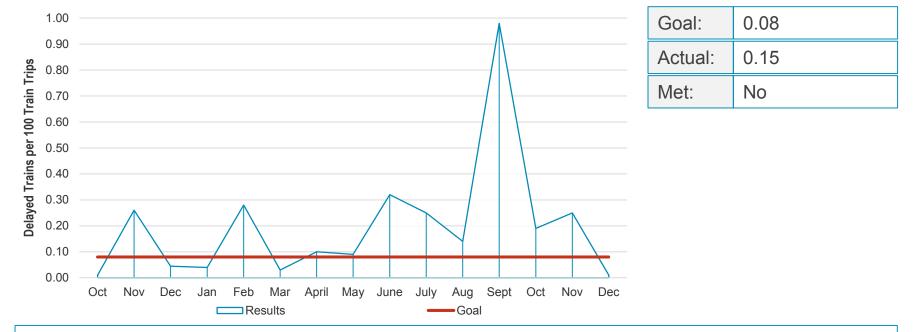
95.42% performance improvement from previous quarter and 92.37% improvement from same quarter last year

• All Measure RR Track projects are on schedule and meeting goal

#### **Computer Control System**

#### **Delayed Trains per 100 Train Trips**



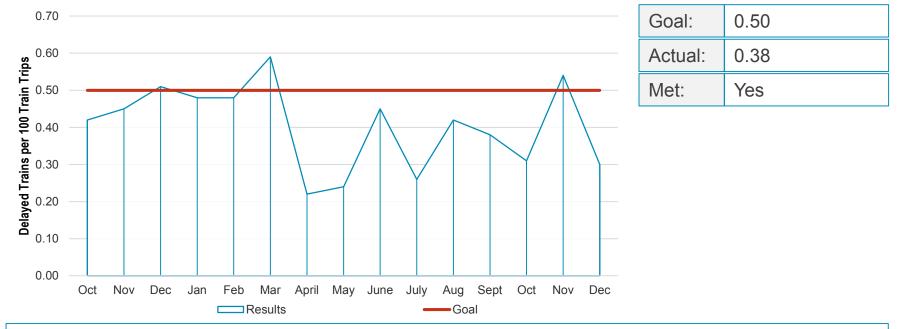


- 67.15% performance improvement from previous quarter and 50.02% decrease from same quarter last year
- Major Delays:
  - November 20 Daly City; VHLC/FIP Communication terminal server failure required numerous resets; reloaded software to resolve
  - > November 22 Daly City; Loss routing due to Net.com failure; replaced power supply
  - October 4 Pittsburg Bay Point; SORS Q-Latch issues; SOR & VPI reset

## Transportation

#### **Delayed Trains per 100 Train Trips**





• 8.49% performance decrease from previous quarter and 16.67% improvement from same quarter last year

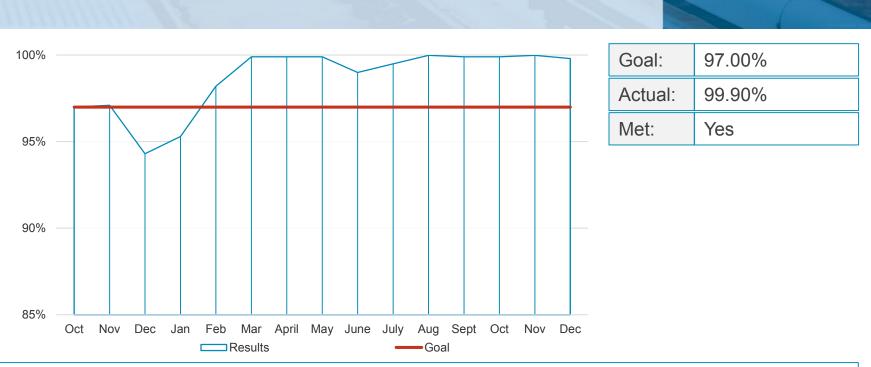
#### **Elevator Availability - Stations**





- 0.25% performance decrease from previous quarter and 0.98% improvement from same quarter last year
- Major Outages:

> Dublin/Pleasanton station elevator hydraulic pump replacement, out of service 25 hours



- 0.1% performance improvement from previous quarter and 3.91% improvement from same quarter last year
- Major Outage:

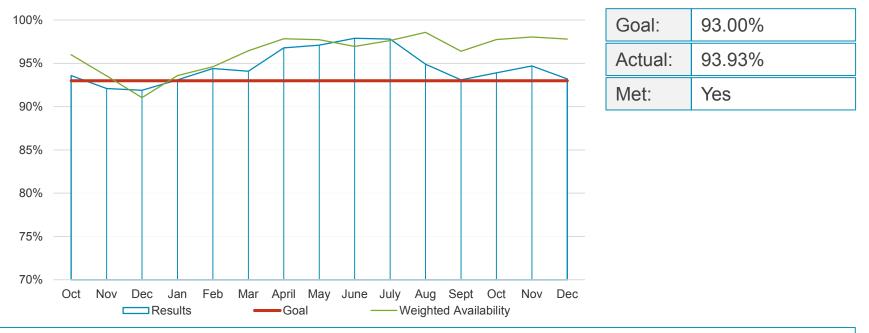
> San Bruno elevator planned drive system update, out of service 66 hours

**Elevator Availability - Garage** 

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#### **Escalator Availability - Street**

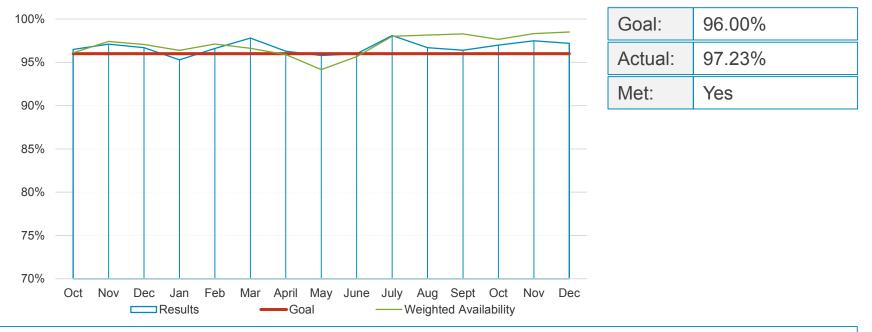




- 1.4% performance decrease from previous quarter and 1.51% improvement from same quarter last year
- Major Outages:
  - > Colma garage escalator handrail replacement, out of service 355 hours
  - > Civic Center station planned handrail replacement, out of service 228 hours

## **Escalator Availability - Platform**





- 0.17% performance improvement from previous quarter and 0.48% improvement from same quarter last year
- Major Outages:
  - > Glen Park station planned step chain replacement, out of service 324 hours
  - > Millbrae station repairs to braking system, out of service 184 hours
  - > Berryessa station comb impact system repairs, out of service 169 hours

#### **AFC Gate Availability**





• 0.02% performance improvement from previous quarter and 0.19% improvement from same quarter last year

• New Swing Style ADA Fare Gates installed at Richmond, Coliseum, Montgomery and Concord Stations

#### **AFC Vendor Availability**

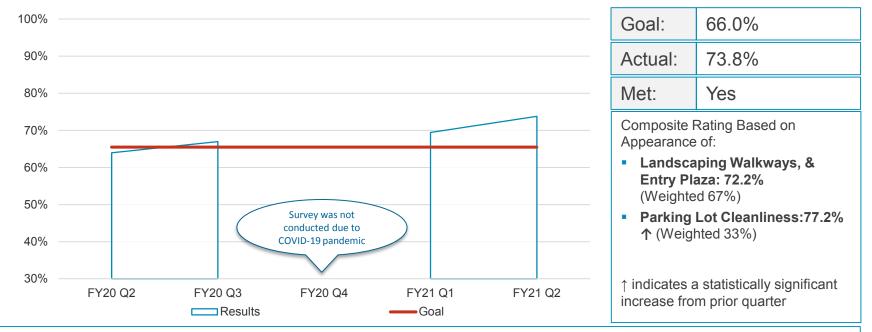




- 0.15% performance improvement from previous quarter and 0.26% decrease from same quarter last year
- Completed District wide Clipper only; eliminated paper tickets

## **Environment – Outside Stations**

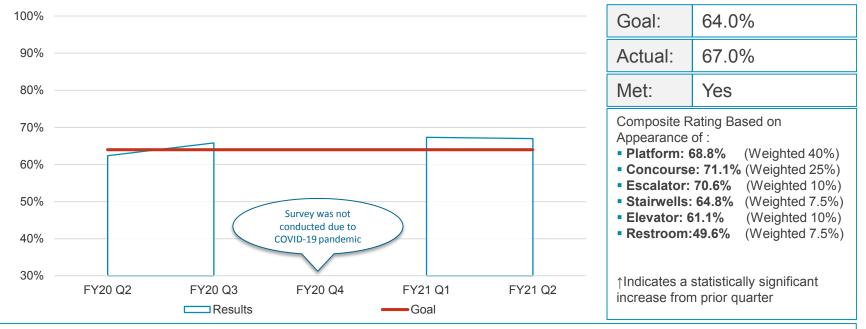




5.73% performance improved from previous quarter and 15.38% improved from same quarter last year

## **Environment – Inside Stations**

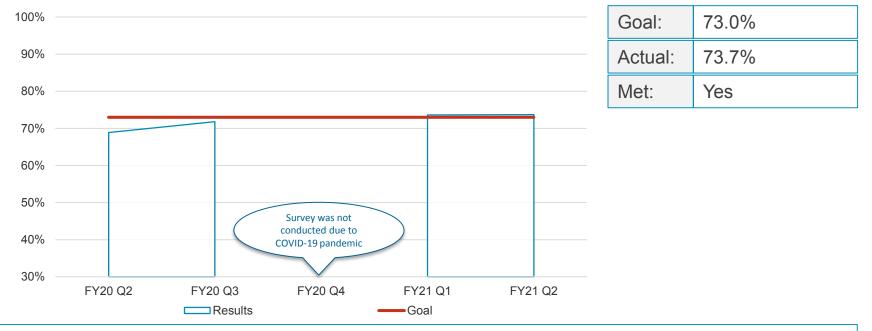




- 0.45% performance decrease from previous quarter and 7.41% improvement from same quarter last year
- Continue to focus on disinfecting wipe down of high touch points in the stations

#### **Station Vandalism**

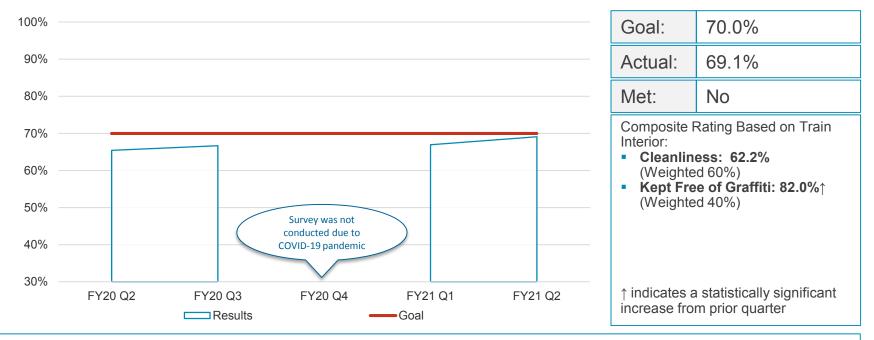




• 0.13% performance improvement from previous quarter and 7.03% improvement from same quarter last year

## **Train Interior Cleanliness**

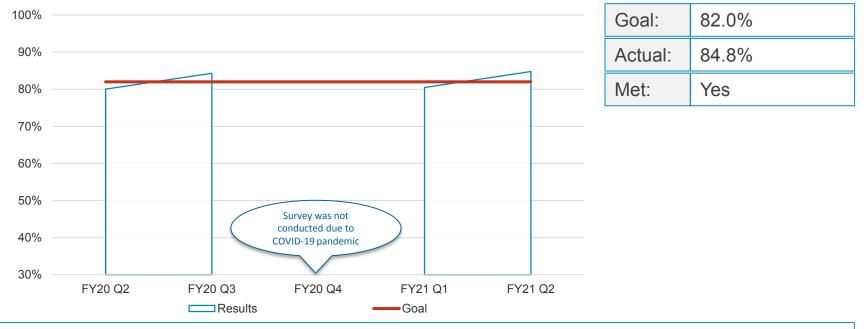




- 3.60% performance improvement from previous quarter and 5.58% improvement from same quarter last year
- Fleet continues to be electrostatically disinfected nightly
- Increase in Graffiti incidents:
  - Interior 85.71% increase over prior Q1 FY21
  - Exterior 130.00% increase over prior Q1 FY21

#### **Train Temperature**



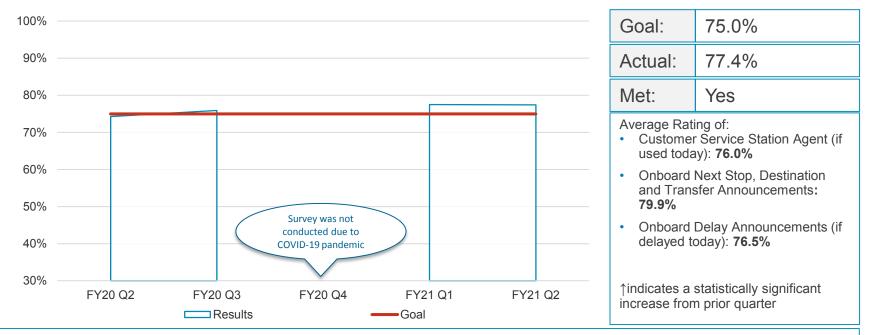


5.87% performance improvement from previous quarter and 5.94% improvement from same quarter last year

• FOTF HVAC software update released in October - 95% of fleet was updated during the quarter

#### **Customer Service**

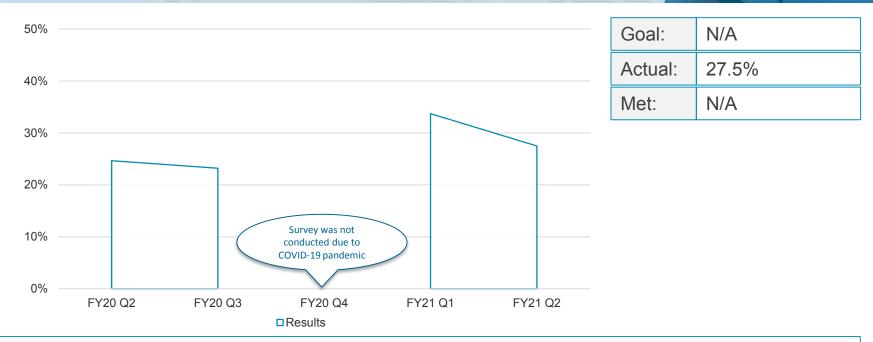




0.13% performance decrease from previous quarter and 4.23% improvement from same quarter last year

#### **Homelessness - Passenger Survey**

"How well is BART addressing homelessness?"

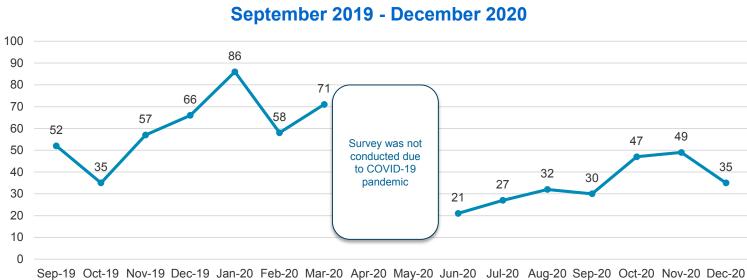


18.15% performance decrease from previous quarter and 11.53% improvement from same quarter last year

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#### **Transient Counts in San Francisco Stations**



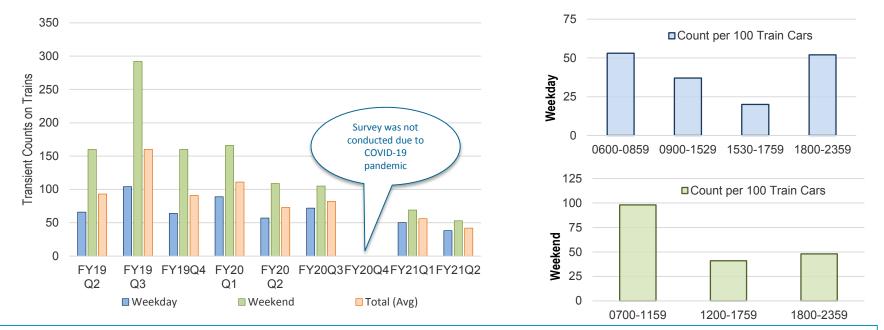


#### **Downtown San Francisco Station Counts**

47% increase in count from previous guarter and 17% decrease from same guarter last year

#### **Transient Counts on Trains**



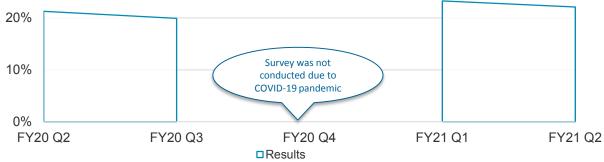


- Transient counts on trains remain lower than pre-pandemic levels
- Presence of transients on the trains on the weekends remains higher than on weekdays

#### **Fare Evasion Passenger Survey**

"Did you see anyone not pay their fare at the station you entered?"





• 5.96% performance decrease from previous quarter and 3.83% improvement from same quarter last year

50%

40%

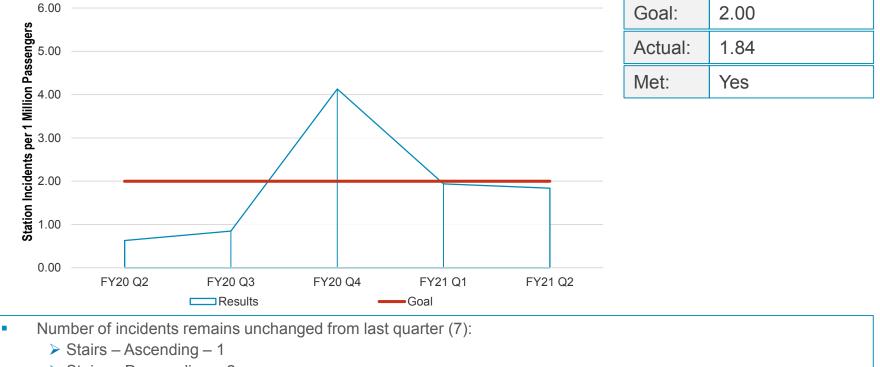
30%

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## **Patron Safety – Station**

**Incidents per 1 Million Passengers** 



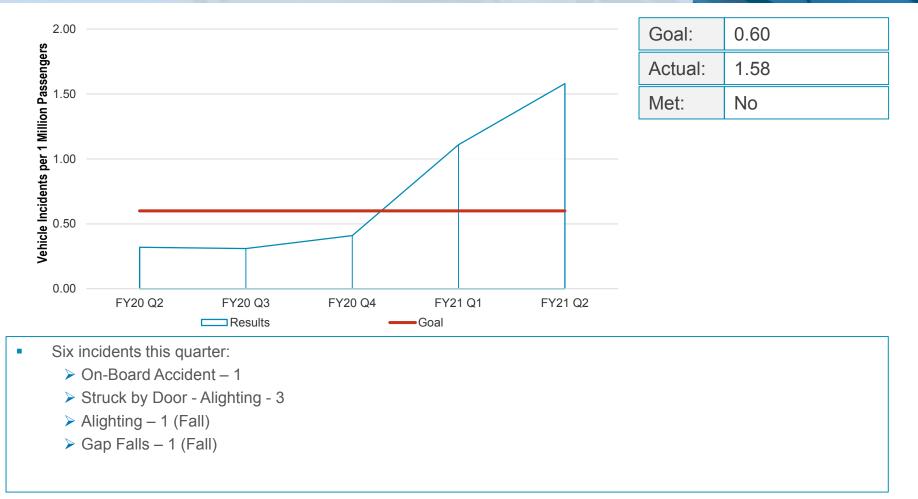


- Stairs Descending 2
- Escalator Ascending 1
- Escalator Descending 1
- Concourse Level 1
- > Other 1

### **Patron Safety – Vehicle**

**Incidents per 1 Million Passengers** 

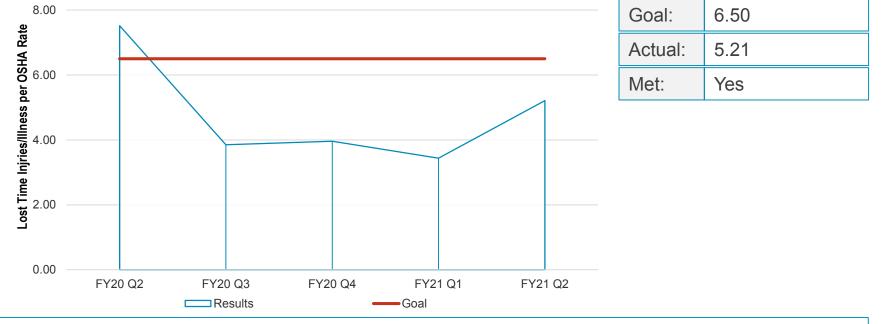




#### **Employee Safety – Lost Time**

#### Lost Time Injuries per OSHA Rate

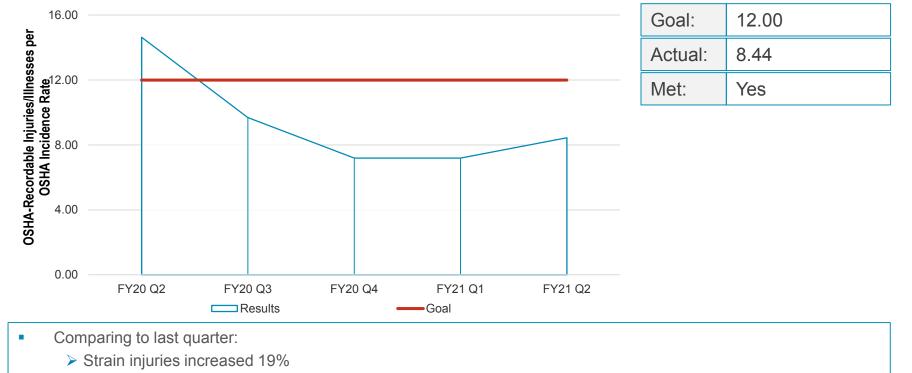




- 52% increase in lost time cases over last quarter:
  - Strain injury cases increased from 11 to 16
  - Contusion injury cases increased from 3 to 10
  - > Exposure injury cases increased from 0 to 3

## **Employee Safety – Injury Count** OSHA Recordable Injuries per OSHA Incidence Rate





- Trauma injuries decreased 23%
- Contusion injuries increased 22%

## **Operating Safety – Door Openings**

**Unscheduled Door Openings per Million Car Miles** 



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## **Operating Safety – Rule Violations**

**Rule Violations per Million Car Miles** 





One incident this quarter

> 12/6/20 – Revenue train signal violation

#### **BART Police Presence**

"Did you see BART Police on the Train/Inside Station?"

20% Goal: 12.0% Actual: 13.6% 15% Met: Yes Average Score of Police Seen For: All Time Periods 10% On Train Outside the Station In the Station and 5% Survey was not After 7PM and Weekends conducted due to On Train COVID-19 pandemic Outside the Station In the Station 0% FY20 Q2 FY20 Q3 FY20 Q4 FY21 Q1 FY21 Q2 ↑indicates a statistically significant increase from prior quarter Results Goal

Add comment



## **Crimes Against Persons**

#### **Crimes per Million Trips**

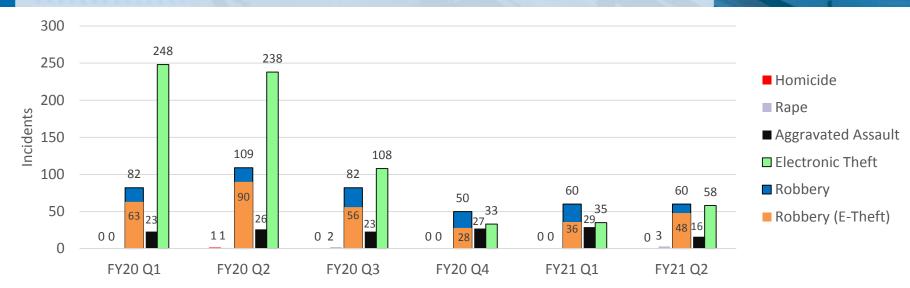




- FY20 Q1 82 robbery cases reported (63 of 82 cases had electronics taken), 248 thefts from person involving electronic devices
- FY20 Q2 109 robbery cases reported (90 of 109 cases had electronics taken), 238 thefts from person involving electronic devices.
- FY20 Q3 82 robbery cases reported (56 of 82 cases had electronics taken), 108 thefts from person involving electronic devices.
- FY20 Q4 50 robbery cases reported (28 of 50 cases had electronics taken), 33 thefts from person involving electronic devices.
- FY 21 Q1 60 robbery cases reported (36 of 60 cases had electronics taken), 36 thefts from person involving electronic devices.
- FY21 Q2 60 robbery cases reported (48 of 60 cases had electronics taken), 58 thefts from person involving electronic devices.

#### **Crimes Against Persons**

#### **Crimes Detail by Category**

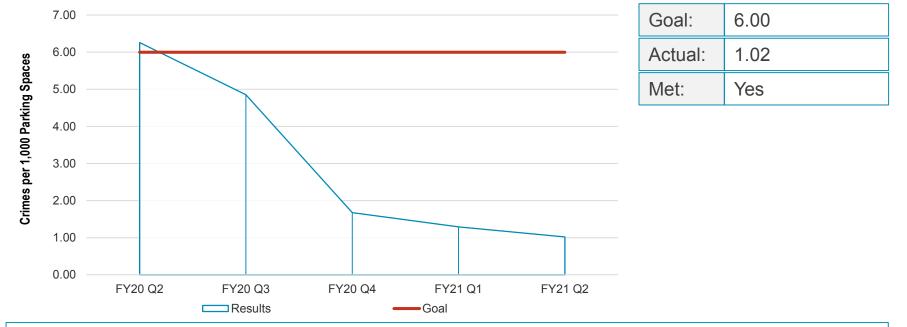


Category	FY20 Q1	FY20 Q2	FY20 Q3	FY20 Q4	FY21 Q1	FY21 Q2
Homicide	0	1	0	0	0	0
Rape	0	1	2	0	0	3
Robbery (E-Theft)	82 (63)	109 (90)	82 (56)	50 (28)	60 (36)	60 (48)
Aggravated Assault	23	26	23	27	29	16
Electronic Theft	248	238	108	33	35	58

**Engineering & Operations Committee** 

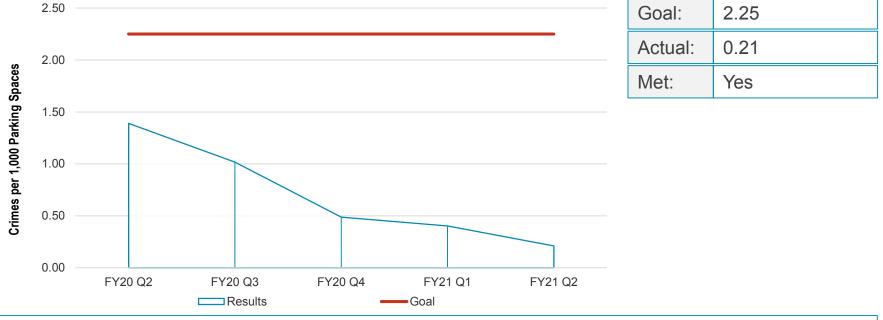
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## Auto Burglary Crimes per 1,000 Parking Spaces



- Total of 48 vehicle break-in reported in FY 21 Q2; A decrease of 21% from previous quarter
- Estimate one vehicle break in per 1,000 parking spaces during this quarter
- BPD personnel continue to proactively monitor district parking lots and structures for suspicious activity

# Auto Theft Crimes per 1,000 Parking Spaces

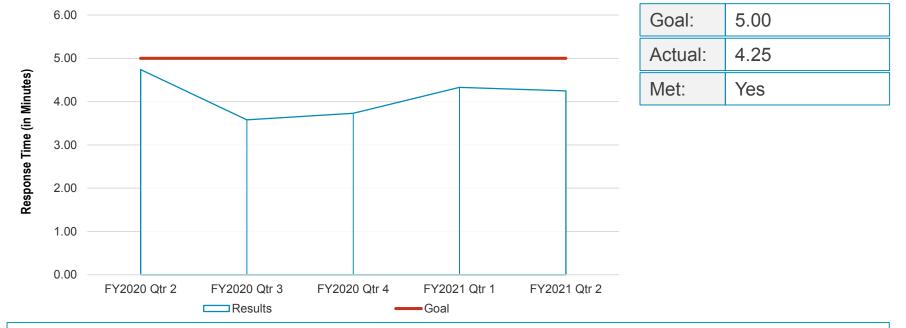


- 10 vehicle thefts were reported in FY21 Q2, down 47% from previous quarter
- Estimates about one vehicle theft per 5,000 parking spaces during this quarter
- BPD personnel continue to proactively monitor district parking lots and structures for suspicious activity

#### **Average Emergency Response Time**

#### **Response Time (in Minutes)**





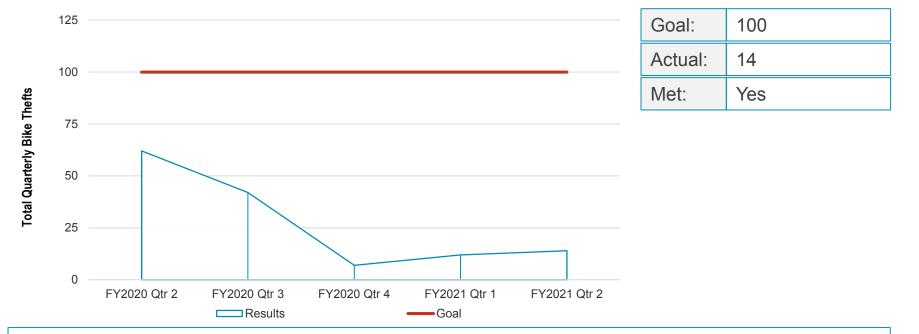
• Average emergency response times improved slightly at San Francisco stations, 4 minutes and 8 seconds

Increase of 13% of police service calls at San Francisco stations during FY21 Q2 compared to the previous quarter

Overall, the districtwide emergency response time averaged at 4 minutes and 15 seconds this quarter

#### **Bike Theft** Count of Bike Thefts





• 14 bike thefts reported during this quarter, up two thefts from previous quarter