

Quarterly Service Performance Review 4th Quarter, FY21

April – June, 2021

Engineering & Operations Committee August 26, 2021

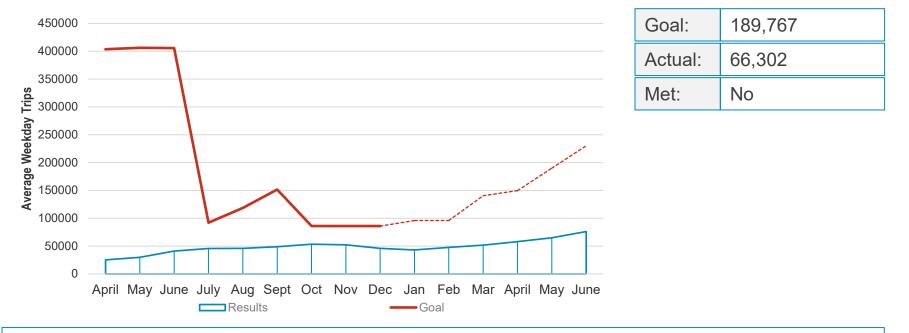
		T 4th QUARTER F	4th QUARTER FY 2021					
PERFORMANCE INDICATORS	CURRENT			PRIOR QTR		YEAR TO DATE		
	QUARTER			ACTUALS		TEAR TO DATE		
				LAST	THIS QTR			
	ACTUAL	STANDARD	STATUS	QUARTER	LAST YEAR	ACTUAL	STANDARD	STATUS
Average Ridership - Weekday	66,302	189,767	NOT MET	47,698	32,071	53,083	128,085	NOT MET
Average Ridership - Weekday (e-Line)	2,440	8,000	NOT MET	1,889	1,327	2,016	8,000	NOT MET
Service Delivery								
Peak Customers on Time	96.74%	94.00%	MET	94.57%	95.93%	95.58%	94.00%	MET
Daily Customers on Time	95.42%	94.00%	MET	94.59%	95.32%	94.86%	94.00%	MET
Daily Train on Time	93.14%	91.00%	MET	91.69%	91.94%	92.05%	91.0%	MET
Daily Train on Time (e-Line)	97.17%	95.00%	MET	97.24%	96.91%	96.92%	95.00%	MET
On-Time Connections (e-Line to BART)	99.07%	98.50%	MET	98.91%	99.27%	98.99%	98.50%	MET
AM Peak Period Transbay Car Throughput	98.48%	97.50%	MET	99.07%	98.79%	98.46%	97.50%	MET
PM Peak Period Transbay Car Throughput	98.43%	97.50%	MET	98.90%	98.43%	98.46%	97.50%	MET
Equipment								
Car Availability at 4 AM (0400)	578	521	MET	566	541	552	513	MET
Vehicle Mean Time Between Service Delays	4,549	4,650	NOT MET	4,204	5,556	4,437	4,650	NOT MET
Train Mean Distance Between Failures (miles) (e-Line)	32,630	14,000	MET	15,819	21,118	36,641	14,000	MET
Elevators in Service (Station)	96.60%	98.00%	NOT MET	98.83%	98.93%	98.59%	98.00%	MET
Elevators in Service (Garage)	99.94%	97.00%	MET	99.96%	99.60%	99.90%	97.00%	MET
Escalators in Service (Street)	90.23%	93.00%	NOT MET	93.73%	97.27%	93.29%	93.00%	MET
Escalators in Service (Platform)	94.85%	96.00%	NOT MET	96.12%	96.03%	96.32%	96.00%	MET
Automatic Fare Collection (Gates)	99.52%	99.00%	MET	99.54%	99.52%	99.53%	99.00%	MET
Automatic Fare Collection (Vendors)	98.59%	95.00%	MET	98.65%	96.56%	98.61%	95.00%	MET
Wayside Train Control System	0.58	1.00	MET	0.65	1.28	0.76	1.00	MET
Computer Control System	0.16	0.08	NOT MET	0.117	0.170	0.220	0.08	NOT MET
Traction Power	0.05	0.20	MET	0.50	0.02	0.18	0.20	MET
Track	0.01	0.30	MET	0.01	0.01	0.04	0.30	MET
Transportation	0.43	0.50	MET	0.36	0.30	0.38	0.50	MET
Customer Complaints and Rating								
Complaints per 100,000 Passenger Trips	23.60	5.07	NOT MET	24.29	40.53	24.98	5.07	NOT MET
Complaints per 100,000 Passenger Trips (e-Line)	8.19	7.00	NOT MET	2.08	7.55	9.04	7.00	NOT MET
Environment Outside Stations	71.4%	66.0%	MET	71.8%	0.0%	71.6%	66.0%	MET
Environment Inside Stations	68.1%	64.0%	MET	71.8%	0.0%	68.6%	64.0%	MET
Station Vandalism	75.6%	73.0%	MET	74.4%	0.0%	74.3%	73.0%	MET
Train Interior Cleanliness	71.2%	70.0%	MET	67.7%	0.0%	68.7%	70.0%	NOT MET
Train Temperature	86.3%	82.0%	MET	86.3%	0.0%	84.5%	82.0%	MET
Customer Service	78.3%	75.0%	MET	78.8%	0.0%	78.0%	75.0%	MET
Homelessness	27.7%	N/A	N/A	30.1%	0.0%	29.8%	N/A	N/A
Fare Evasion	18.2%	N/A	N/A	20.0%	0.0%	20.9%	N/A	N/A
Safety	10.270			20.070	0.070	20.070		
Station Incidents/Million Patrons	1.50	2.00	мет	2.22	4.13	1.88	2.00	MET
Vehicle Incidents/Million Patrons	0.38	0.60	MET	1.39	0.41	1.12	0.60	NOT MET
Lost Time Injuries/IIInesses/Per OSHA	4.79	6.50	MET	5.42	3.96	4.72	6.50	MET
OSHA-Recordable Injuries/Illnesses/Per OSHA	7.60	12.00	MET	8.54	7.19	7.94	12.00	MET
Unscheduled Door Openings/Million Car Miles	0.320	0.200		0.160	0.080	0.120	0.200	MET
Rule Violations Summary/Million Car Miles	0.480	0.250	NOT MET	0.240	0.170	0.258	0.250	NOT MET
	10 50/	40.000	NOTIFE	40.40	0.000	40.001	40.000	
BART Police Presence	10.5%	12.0%	NOT MET	13.4%	0.0%	12.8%	12.0%	MET
Quality of Life per million riders	330.58	N/A	N/A	434.98	446.29	399.50	N/A	N/A
Crimes Against Persons per million riders	9.82	2.00	NOT MET	14.60	31.85	17.52	2.00	NOT MET
Auto Burglaries per 1,000 parking spaces	1.17	6.00	MET	1.08	1.67	1.14	6.00	MET
Auto Thefts per 1,000 parking spaces	0.61	2.25	MET	0.28	0.49	0.38	2.25	MET
Police Response Time per Emergency Incident (Minutes)	3.97	5.00	MET	3.37	3.73	3.98	5.00	MET
Bike Thefts (Quarterly Total and YTD Quarterly Average)	24	100.00	MET	21	7	18	100.00	MET

FY21 Fourth Quarter Overview

- Average Weekday Ridership of 66,302 increased by 39% from prior quarter and by 106% from prior year. Average peak ridership was up by 42% from prior quarter and up by 114% from prior year; Saturday and Sunday ridership are up by 53.6% and 58.9% from prior quarter, and 159% and 162% from prior year.
- Customers on time performance increased to 95.4% and met goal.
- ROW Equipment Reliability: Wayside Train Control, Traction Power and Track met goal and Computer Systems and Rail Cars did not meet goal.
- Station Equipment Availability: Ticket Machines, Fare Gates, and Elevators (Garage) met goal. Elevators (Station), Escalators (Platform), Escalators (Street) did not meet goal.
- Passenger Environment: Environment Outside Stations & Inside Stations, Vandalism, Customer Service, Train Temperature, and Train Cleanliness met goal.
 BART Police Presence did not meet goal.
- Total Customer Complaints rate decreased to 23.6 per 100,000 passenger trips, showing 2.8% improvement but did not meet goal.

Customer Ridership - Weekday Trips





- Total ridership increased by 45.9% compared to prior quarter
- Average weekday ridership (66,302) was up by 39% from prior quarter
- Average peak ridership was up by 42% from prior quarter
- Saturday and Sunday ridership are up by 53.6% and 58.9% respectively from prior quarter

Customer Complaints



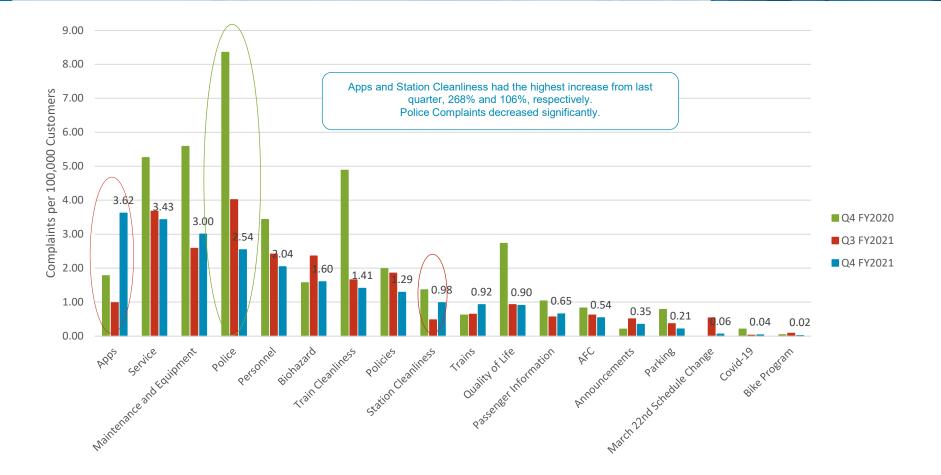


- 2.84% improvement from previous quarter
- Apps and Station Cleanliness had the highest increase from previous quarter, 268% and 106%, respectively
 - Apps cases surged due to confusion from the migration of monthly reserved parkers from vendor Select-A-Spot to the BART Official App. (All stations to be migrated in current quarter)
- Police complaints decreased by 37% over last quarter and 70% compared to a year ago

Customer Complaints

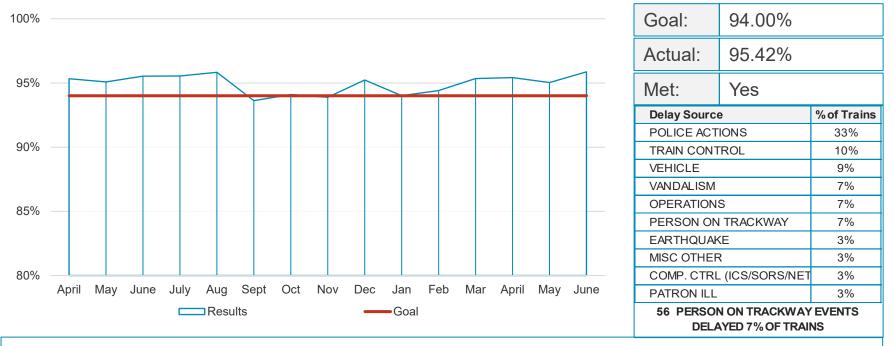
Complaints Detail by Category





On-Time Service - Customer

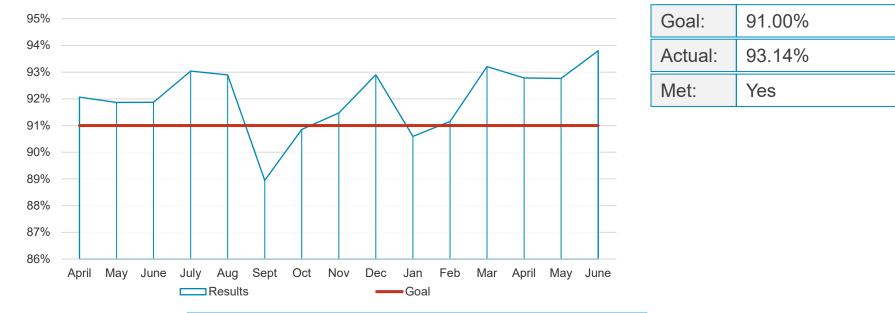




- 0.87% performance improvement from previous quarter, 0.1% improvement from same quarter last year
- Major Contributors to delay incidents: Police 33%, Equipment 19%, People 17%
- Emphasis on delay mitigation strategies reduced secondary train delays: down 43.21% over last quarter

On-Time Service - Train





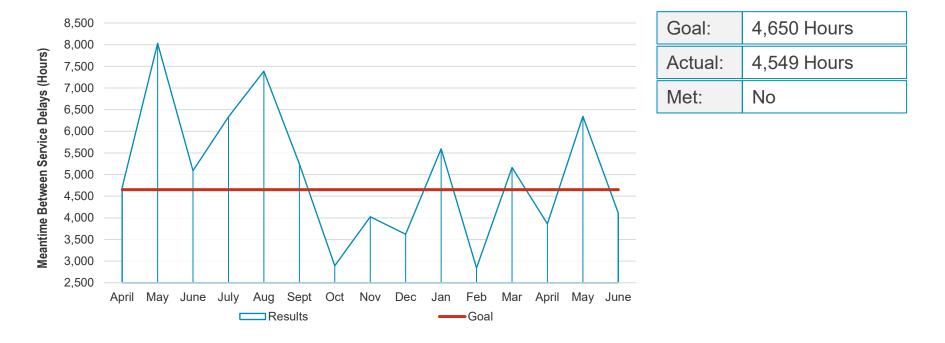
56 PERSON ON TRACKWAY EVENTS DELAYED 7% OF TRAINS

	Date	Location	Description	Time	Cause	Trains
1	06/28/21	Systemwide	Earthquake (Track Inspection/NPF)	18:29-19:36	Earthquake	44
2	06/04/21	Balboa Park	SORS	17:59	Equip	34
3	04/02/21	W. Oakland	False Occupancy	05:10-06:51	Equip	33
4	05/13/21	Balboa Park	Brake	15:35-16:44	Vehicle	15
5	05/23/21	A05 I-Lk	Routing (Switch Repair)	08:40-09:40	Equip	12
6	05/05/21	C-Line	Smoke on Trackway	07:46-08:58	People	11
7	05/12/21	Lake Merritt	False Occupancy	10:33-15:45	Equip	10
8	06/17/21	16th Street	3rd Rail Insulator Smoking	13:51-14:13	Equip	10
9	06/03/21	E.C.D. Norte	Fire Near Trackway (Track Inspection)	18:40-19:17	Fire	9
10	06/19/21	A & S Lines	PG&E Power Outage (480 VAC)	18:55-19:22	PG&E	9

Car Equipment – Reliability

Meantime Between Service Delays



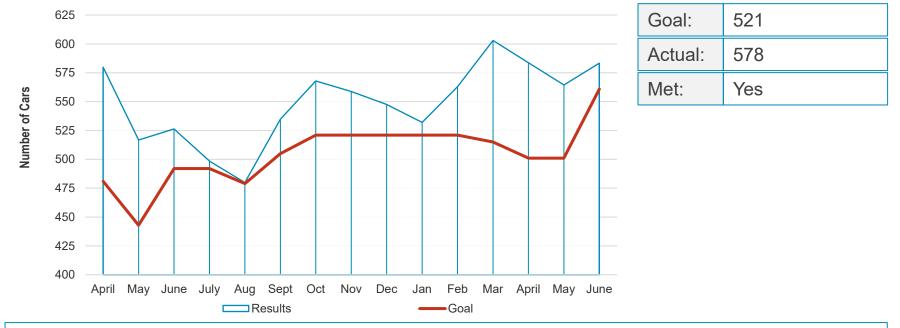


• 8.2% performance improvement from previous quarter, 18.1% decrease from same quarter last year

- Overall Fleet MTBSD 4549 hours
 - FOTF MTBSD of 2420, Legacy Fleet MTBSD of 6847

Car Equipment – 4:00AM Availability

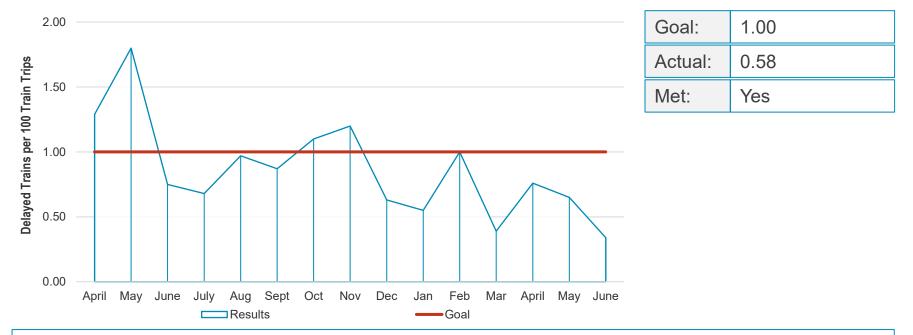




- 2.2% performance improvement from previous quarter, 6.9% improvement from same quarter last year
- Increased goal in June was due to addition of more peak trains

Wayside Train Control System

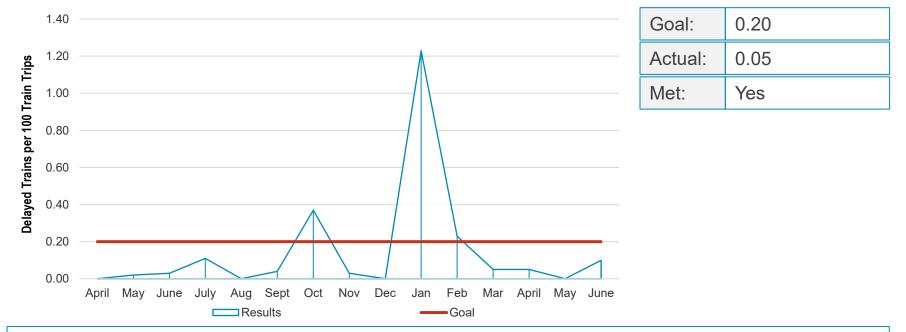




- 9.8% performance improvement from previous quarter, 54.4% improvement from same quarter last year
- Capital projects progressing: Coverboard Antenna Replacement, Yard Switch Machine Replacement, OCY VHLC Installation, NSMUX, Tx Loops / Receiver Coils Replacement, MUX Cable Replacement Project
- Major delays this quarter:
 - > 4/2/2021: False Occupancy at West Oakland due to MUX failure replaced
 - > 5/12/2021: False Occupancy at Lake Merritt due to a bad insulated joint replaced

Traction Power

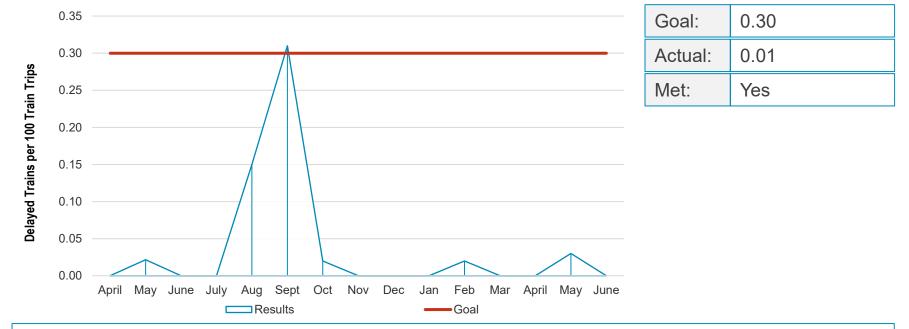




- 90% improvement from previous quarter, 200% decrease from same quarter last year
- Major delays this quarter:
 - 6/17/2021: 3rd Rail Insulator Smoking at 16th Street due to debris in the track. Insulator replaced. Debris removal and washing frequency increasing

Track

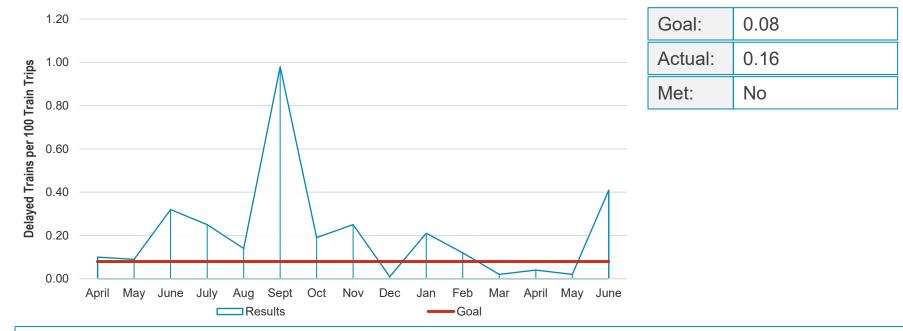




- Flat performance compared to previous quarter, 31.3% performance improvement from same quarter last year
- 11 Miles of rail and 3 interlockings were replaced in FY21

Computer Control System

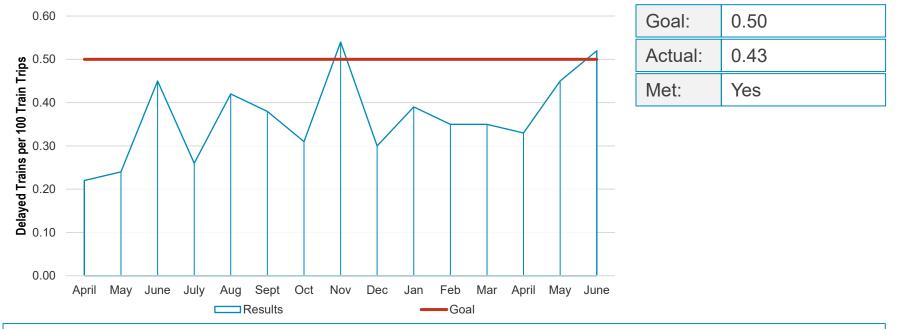




- 34.3% performance decrease from previous quarter, 7.8% improvement from same quarter last year
- Major delays this quarter:
 - > 6/4/2021: SORS at Balboa Park , bad connection cable replaced
 - 6/29/2021: VPI Comm Link at West Dublin, normal Preventive Maintenance of Uninterrupted Power Source (UPS) caused a trip to the power, train control equipment required a reset

Transportation





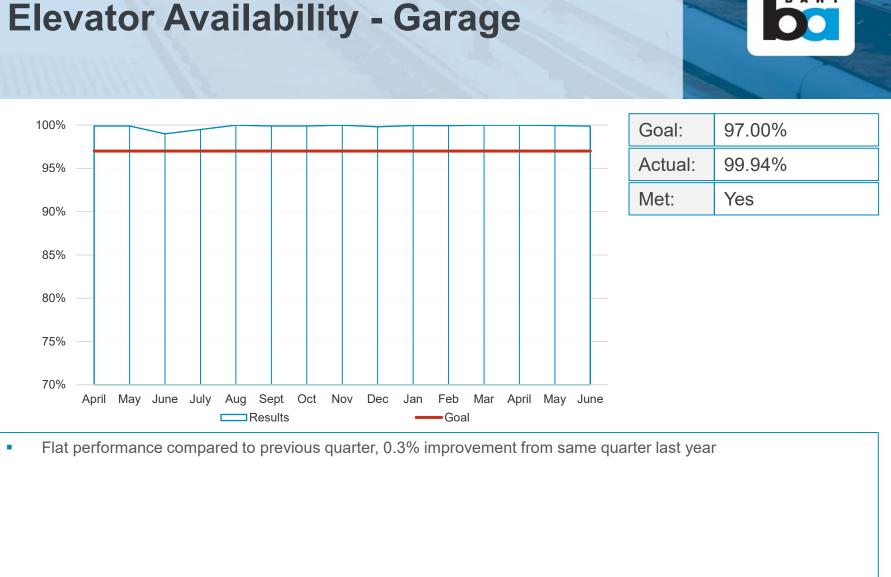
- 19.3% performance decrease from previous quarter, 42.8% decrease from same quarter last year
- Major incidents: No Transportation incidents involving 25 or more delayed trains

Elevator Availability - Stations





- 2.3% performance decrease from previous quarter, 2.4% decrease from same quarter last year
- Major Outages:
 - > Lafayette Station unplanned outage for hydraulic ram replacement, out of service for 1,100+ hours
 - MacArthur Station unplanned outage for hydraulic motor and pump replacement, out of service for 555 hours mainly due to shop turn around time on material



BART

Escalator Availability - Street





- 3.7% performance decrease from previous quarter and 7.2% decrease from same quarter last year
- Major Outages:
 - > Antioch Station unplanned outage for controller drive system failure, out of service for 600 hours
 - > 12th Street Station unplanned outage for step chain and carriage repairs, out of service for 479 hours
 - > Millbrae Station unplanned outage for braking system repairs, out of service 240 hours

Escalator Availability - Platform





- 1.3% performance decrease from previous quarter, 1.2% decrease from same quarter last year
- Major Outages:
 - > Millbrae Station planned repair to handrail speed indication system, out of service for 487 hours
 - > Daly City Station planned step chain replacement, out of service for 400 hours
 - > Millbrae Station unplanned repair to correct speed sensing indication system, out of service for 300 hours

AFC Gate Availability





Flat compared to previous quarter and same quarter last year

Installed Elevator Platform Swing gates at Bay Fair & Montgomery to support fare evasion efforts

Continuing to meet uptime goals and supporting 19th Street, Powell & El Cerrito del Norte modernization efforts

AFC Vendor Availability

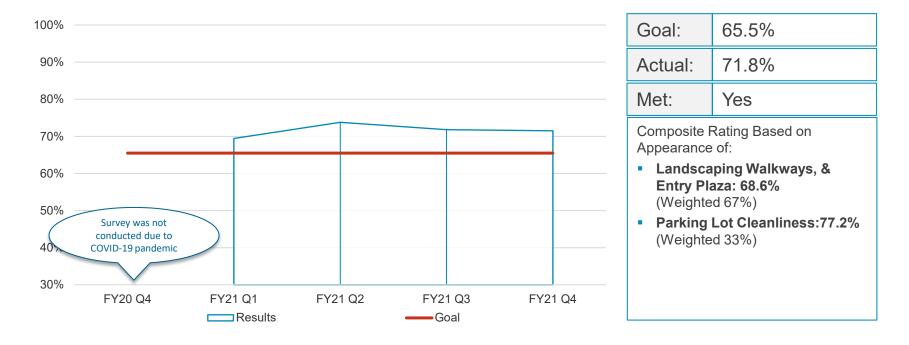




• 0.07% performance decrease from previous quarter, 2.1% improvement from same quarter last year

Environment – Outside Stations

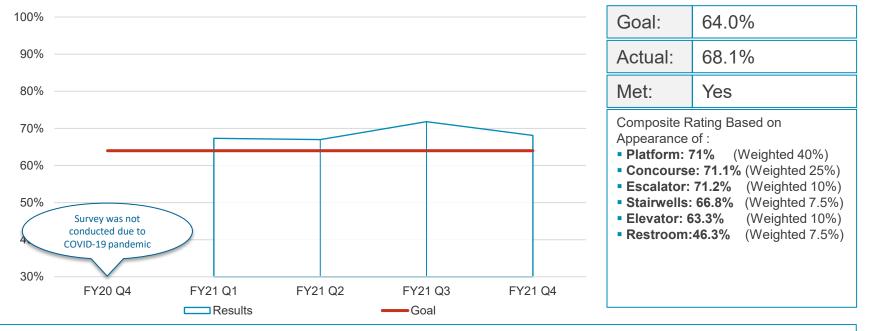




- 0.5% performance decrease from previous quarter; no data available for same quarter last year
- Met goal and successfully maintained firebreaks in all areas

Environment – Inside Stations

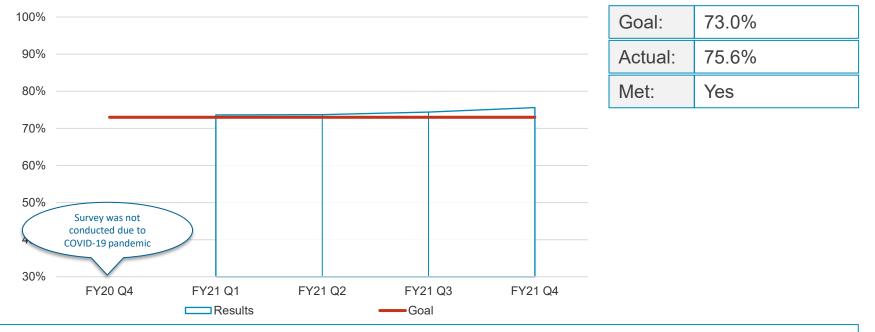




- 5.2% performance decrease from previous quarter; no data available for same quarter last year
- Continued focus on station and bathroom cleanliness
- System Service Worker hiring for open restroom initiative in progress. 12 full time employee vacancies have been filled. Continuing to interview for the 33 part time positions starting August 23rd.

Station Vandalism

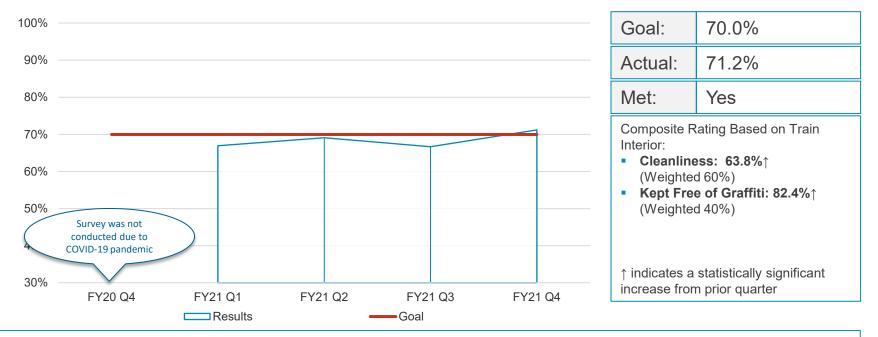




• 1.6% performance improvement from previous quarter; no data available for same quarter last year

Train Interior Cleanliness





- 5.3% performance improvement from previous quarter; no data available for same quarter last year
- Exterior graffiti incidents increased from 5 last quarter to 12 this quarter
- Interior graffiti incidents decreased from 23 last quarter to 11 this quarter
- Car Cleaner hiring in progress for enhanced cleaning initiative. 27 full time vacancies have been filled. Interviews for the 50 part time employees begins August 23rd.

Train Temperature





Flat compared to previous quarter; no data available for same quarter last year

Customer Service





- 0.6% performance decrease from previous quarter; no data available for same quarter last year
- Using Salesforce Software to track complaints and identify and address patterns
- Successful partnership with Union to improve Station Agent customer interaction continues to be successful

Homelessness - Passenger Survey

"How well is BART addressing homelessness?"



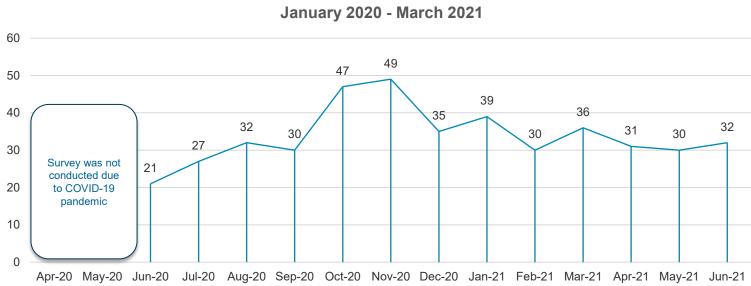
• 8.0% performance decrease from previous quarter; no data available for same quarter last year

• Staffing of the progressive policing bureau is expected to help move the needle on this objective

RT

Transient Counts in San Francisco Stations



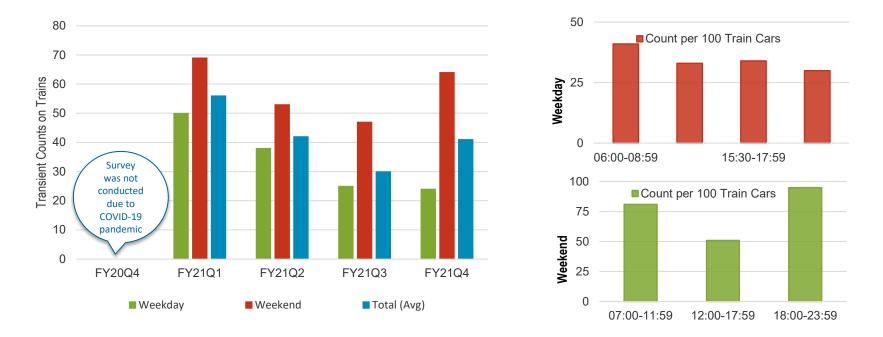


Downtown San Francisco Station Counts

11.4% decrease in count from previous quarter; no data available for same quarter last year

Transient Counts on Trains

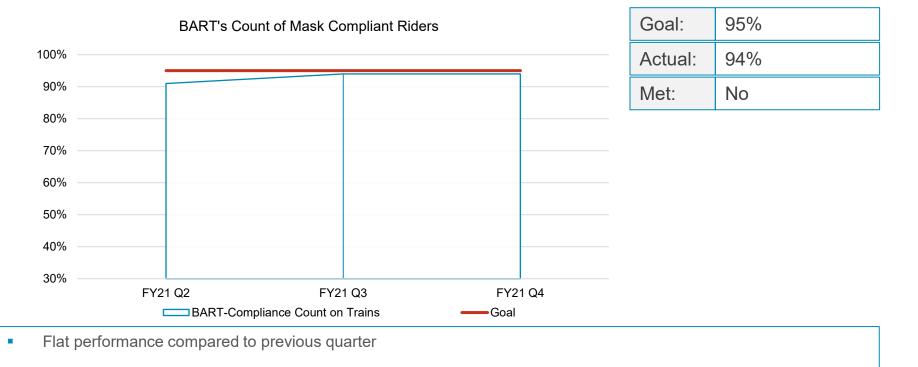




36.7% improvement compared to previous quarter; no data available for same quarter last year

Face Covering – BART Count on Trains

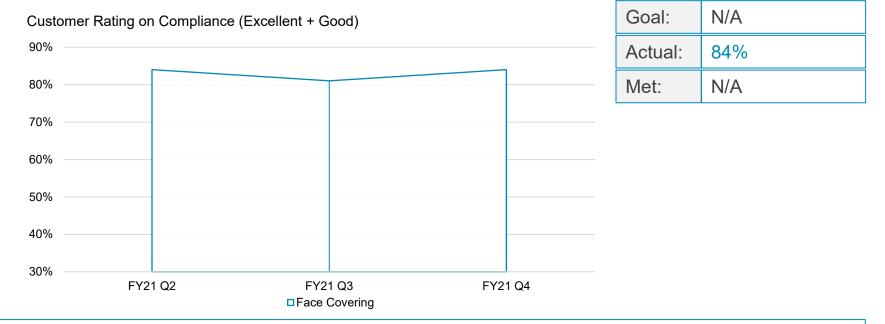




Face Covering

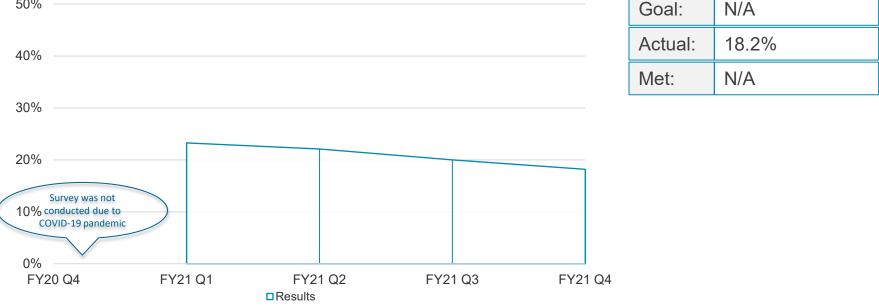
Passenger Perception - Passenger Survey





- 3.7% performance improvement in Face Covering from previous quarter
- 1.3% performance decrease in Social Distancing from previous quarter

Fare Evasion Passenger Survey "Did you see anyone not pay their fare at the station you entered?" 50% Goal:



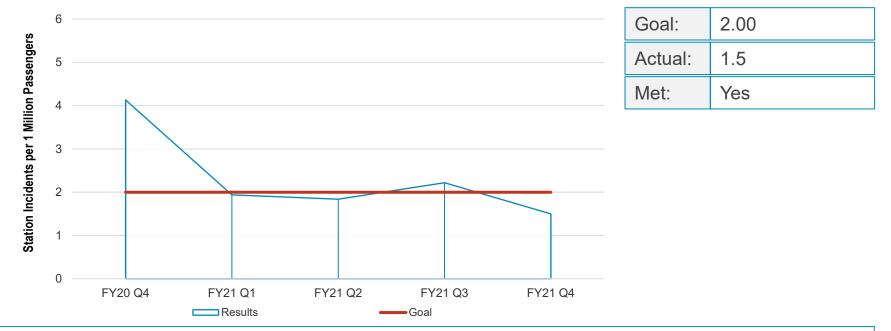
- 9% performance improvement from previous quarter; no data available for same quarter last year
- Fewer people witnessed someone not paying their fare

RT

Patron Safety – Station

Incidents per 1 Million Passengers





- 32.4% performance improvement from previous quarter, 63.7% improvement from same quarter last year
- Number of incidents this quarter (8); last quarter (8):

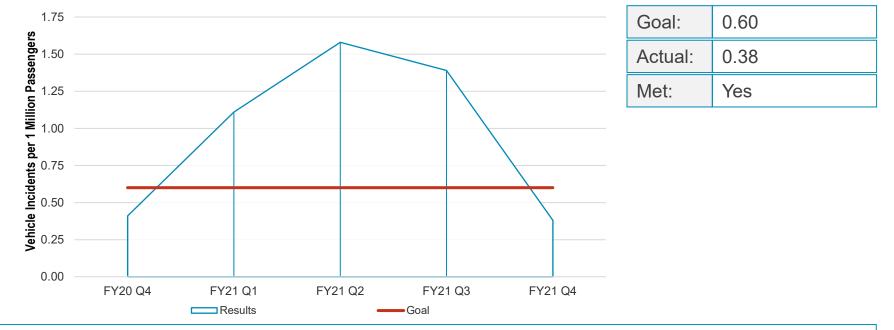
Stairs – 1

- Escalator 5
- ➢ Platform − 2

Patron Safety – Vehicle

Incidents per 1 Million Passengers



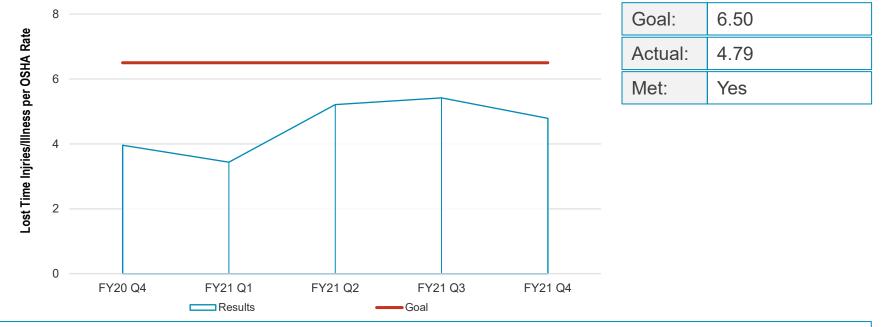


- 72.7% performance improvement from previous quarter, 7.3% improvement from same quarter last year
- Two incidents this quarter; last quarter (5):
 - On-Board 1
 - Boarding 1

Employee Safety – Lost Time

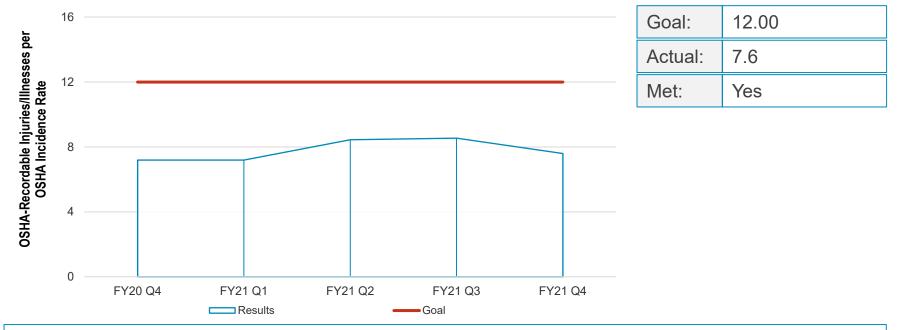
Lost Time Injuries per OSHA Rate





- 11.6% performance improvement from previous quarter, 20.96% decrease from same quarter last year
- Lost time cases count increased by 15% compared to last quarter
 - Strain injury cases increased from 10 to 15
 - Sprain injury cases increased from 6 to 9
 - Contusion injury cases increased from 6 to 10
 - Trauma injury cases decreased from 14 to 5

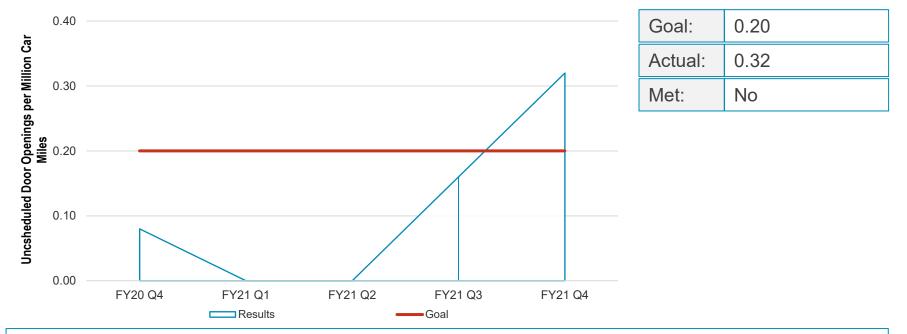
Employee Safety – Injury Count OSHA Recordable Injuries per OSHA Incidence Rate



- 11% performance improvement from previous quarter, 5.7% decrease from same quarter last year
- Comparing to last quarter:
 - Strain injuries decreased from 31 to 28 (10%)
 - Sprain injuries increased from 10 to 13 (30%)
 - > Trauma injuries decreased from 19 to 8 (58%)
 - Contusion injuries increased from 9 to 12 (33%)

Operating Safety – Door Openings

Unscheduled Door Openings per Million Car Miles

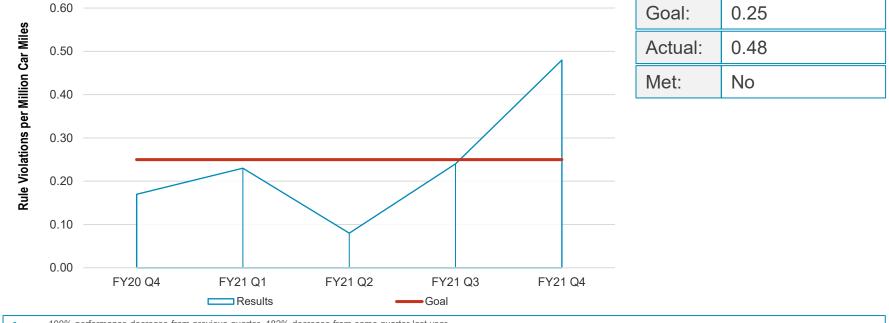


- 100% performance decrease from previous quarter, 300% decrease from same quarter last year
- Four incidents this quarter:
 - > 4/26/21 Millbrae Station. Act by patron. Wrong side of platform
 - > 5/28/21 Millbrae Station. Train Operator error. Wrong side of platform
 - > 6/16/21 Coliseum Station. Train Operator error. Wrong side of platform
 - > 6/28/21 Montgomery Station. Wayside equipment. Outside of platform (under investigation)

Operating Safety – Rule Violations

Rule Violations per Million Car Miles



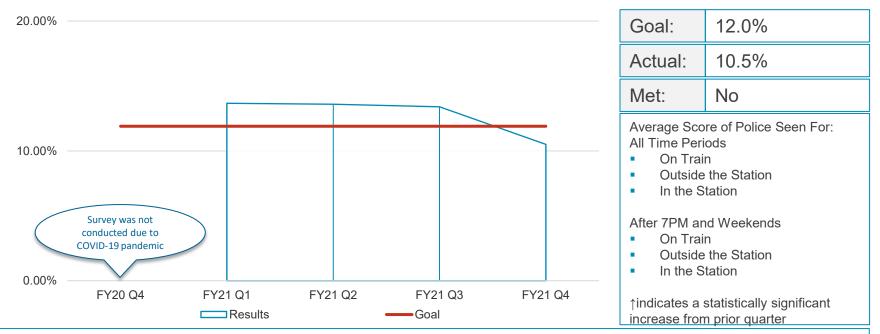


100% performance decrease from previous quarter, 182% decrease from same quarter last year

- Six incidents this quarter:
 - April 3
 - 4/23/21 Hold Violation (Transportation)
 - 4/23/21 Safety Rules (Transportation)
 - 4/24/21 Hold Violation (Transportation)
 - May 3
 - 5/7/21 Switch Run Through (Transportation)
 - 5/8/21 Hold Violation (Transportation)
 - > 5/23/21 Safety Rules (M&E)
 - June 0

BART Police Presence

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

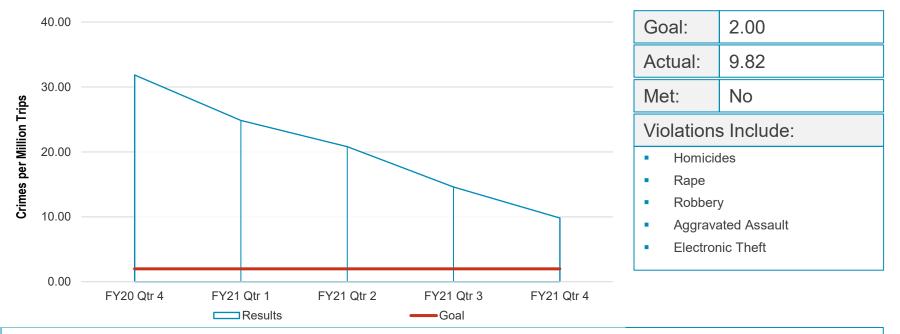


- 21.76% performance decrease from previous quarter; no data available for same quarter last year
- Five officers and four fare inspectors were added to BART PD team this quarter.

Crimes Against Persons

Crimes per Million Trips





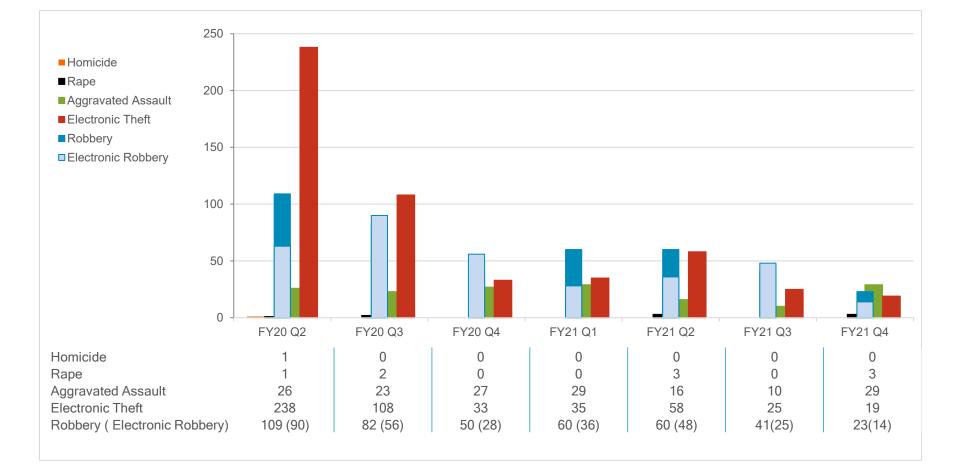
• 74 documented cases of violent crime reports this quarter, compared to 76 in previous quarter

• An increase (+46%) in ridership this quarter, this resulted in fewer incidents per passenger

Crimes Against Persons

Crimes Detail by Category



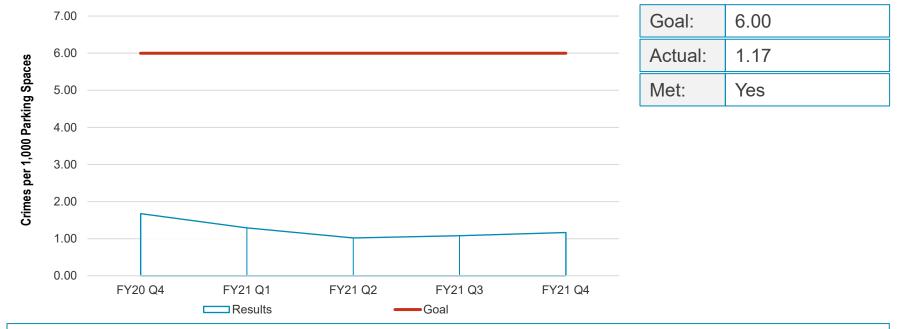


Engineering & Operations Committee

Auto Burglary

Crimes per 1,000 Parking Spaces





- 55 reported vehicle break-ins this quarter compared to 51 cases in previous quarter
- 79 reports in same quarter last year

Auto Theft

Crimes per 1,000 Parking Spaces



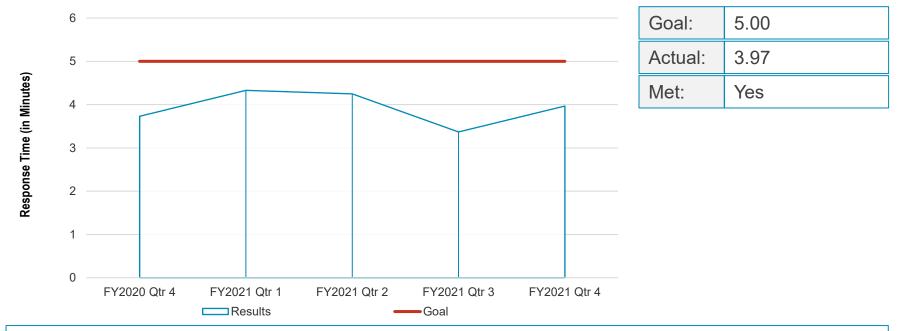


- 28 reported vehicle thefts this quarter compared to 13 last quarter
- Coliseum had 6 and Antioch had 5

Average Emergency Response Time

Response Time (in Minutes)



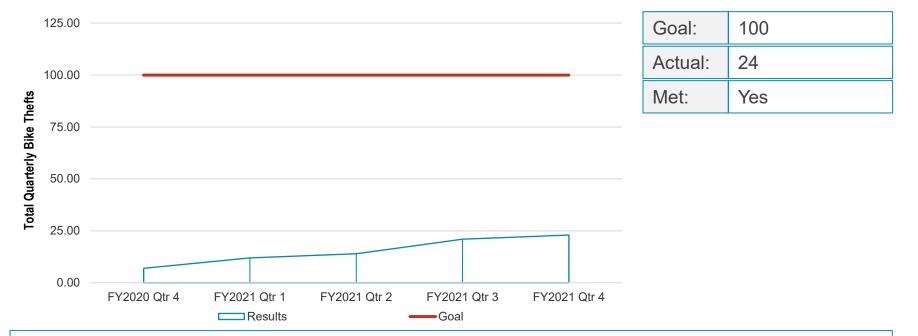


- Average of 03:58 (3 minutes, 58 seconds) to Emergency Priority 1 calls this quarter; Compared to 03:22 in previous quarter
- Average of 03:44 in same quarter last year
- 303 emergency incidents called in to dispatch center this quarter, 262 in previous quarter

Bike Theft

Count of Bike Thefts





• 24 reported bike thefts this quarter compared to 21 in previous quarter. 7 in same quarter last year.