

# COVID-19 Testing Protocols

Board of Supervisors  
Public Safety and Neighborhood Services Committee

October 22, 2020



SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH



# Presentation Outline

- I. COVID-19
- II. Testing Overview
  - I. Care Continuum
  - II. Strategy
- III. Testing Prioritization
- IV. Testing Sites & Assets
  - I. July 2020 Health Order
- V. Testing Budget & Costs





# Key Health Indicators

Data through 10/17/20

| Category           | Key Question   | Indicator  | Triggers to raise or lower level                               | Level 1<br>New Normal  | Level 2<br>Low Alert  | Level 3<br>Moderate Alert | Level 4<br>High Alert |
|--------------------|--|--|--|------------------------|-----------------------|---------------------------|-----------------------|
| Health Care System | Are there early signs of an increase in hospitalizations?      | Rate of increase in total COVID+ hospitalizations          | Increase or decrease to meet new threshold over a 7-day period | <b>-18%</b><br><10%    | 10-15%                | 15-20%                    | <10%                  |
|                    | Do we have capacity to treat severe cases?                     | Acute care bed available capacity                          | Meet threshold for over 7 days                                 | <b>24%</b><br>>15%     | 10-15%                | 5-10%                     | <5%                   |
|                    | Do we have capacity to treat severe cases?                     | ICU bed available capacity                                 | Meet threshold for over 7 days                                 | <b>36%</b><br>>20%     | 15-20%                | 10-15%                    | <10%                  |
| Disease Situation  | Are there early indicators of an increase in COVID-19 disease? | Number of new cases per day/ 100,000 population            | Increase or decrease to meet new threshold over a 7-day period | <1.8                   | <b>3.5</b><br>1.8-4.0 | 4.0-6.0                   | >6                    |
|                    | Are we testing enough to detect cases?                         | Tests per day  | Meet threshold for over 7 days                                 | <b>4,954</b><br>>1,800 | 1,800-1,400           | 1,400-700                 | <700                  |
| Disease Control    | Do we have robust case investigation?                          | 90% of new cases reached                                   | Meet threshold for over 7 days                                 | >90%                   | <b>86%</b><br>80-90%  | 65-80%                    | <65%                  |
|                    | Do we have robust contact tracing?                             | 90% of named contacts reached                              | Meet threshold for over 7 days                                 | >90%                   | <b>81%</b><br>80-90%  | 65-80%                    | <65%                  |
|                    | Are we protecting health care workers?                         | Percent of essential PPE with greater than a 30-day supply | Increase or decrease to meet new threshold over a 7-day period | <b>100%</b><br>100%    | 85-100%               | 60-85%                    | <60%                  |

# COVID-19 Comparisons



Updated 10/19/20

| City          | County         | State | Cases/1000 | Deaths/100,000 | Tests/1000 |
|---------------|----------------|-------|------------|----------------|------------|
| San Francisco | San Francisco  | CA    | 13.4       | 14.2           | 4.44       |
| Seattle       | King           | WA    | 10.6       | 34.8           | 1.70       |
| Atlanta       | Fulton         | GA    | 27.2       | 55.5           | N/A        |
| Baltimore     | Baltimore City | MD    | 19.9       | 59.6           | 3.84       |
| Los Angeles   | Los Angeles    | CA    | 27.0       | 65.1           | 3.02       |
| Denver        | Denver         | CO    | 23.7       | 71.2           | 2.60       |
| DC            | DC             | DC    | 22.7       | 90.5           | N/A        |
| Miami         | Miami-dade     | FL    | 64.5       | 126.6          | N/A        |
| Philadelphia  | Philadelphia   | PA    | 25.1       | 115.5          | 1.65       |
| Boston        | Suffolk        | MA    | 31.7       | 142.4          | N/A        |
| New York City | New York City  | NY    | 29.8       | 284.1          | 1.12       |



## Testing Overview - Successes

- San Francisco has 31 testing sites throughout the city and have performed more than 610,000 tests since the start of the pandemic
  - focused on providing access to high risk and vulnerable residents and essential workers.
- Since June we have consistently exceeded our target of testing 1,800 people per day. As of October 8, our 7-day average number of tests collected is over 5,000 per day.
- Prioritization of testing in congregate settings has greatly contributed to our success of a significantly lower death rate than comparable counties.



# High Impact, Adaptive Test & Respond Strategy

## Testing and Response Efforts

| Prioritize Populations for Testing   | Rapid Response   | Educate and Prevent   | Expand Testing Capacity   |
|--|--|---|---|
| <ul style="list-style-type: none"><li>• Monitor housing and facilities that may have higher risks of transmission</li><li>• Use data to focus testing resources in communities most heavily impacted by COVID-19</li></ul> | <ul style="list-style-type: none"><li>• Respond to positive tests with community-based case investigation and contact tracing</li><li>• Support residents who may need food delivery or alternative housing to be able to safely isolate</li></ul> | <ul style="list-style-type: none"><li>• Promote mask wearing/distancing</li><li>• Invest in community wellness models and systems of care</li></ul> | <ul style="list-style-type: none"><li>• Integrate new partner/testing technologies</li><li>• Expand role of private health care providers</li></ul> |

## Foundation of Prevention

(face coverings, physical distancing, disinfection, financial support, technical assistance for business, schools, residences, facilities)



# Testing Prioritization

## Tier 1

- Hospitalized individuals with symptoms
- Outbreak investigations

## Tier 2

- Individuals with COVID-19 symptoms
- Close contacts of confirmed cases
- Asymptomatic but high risk based on
  1. living status (congregate living facilities, SNFs, correctional facilities);
  2. work status (health care, EMS, other DSWs);
  3. care status (pre-op procedures)

## Tier 2A

- Populations with structural barriers to health (high density living situations, systemic inequities, PEH)

## Tier 3

- Asymptomatic workers in retail, manufacturing, food services, etc.

## Tier 4

- Others considered when City's regular testing turnaround time is <48 hours and who are asymptomatic, as well as routine testing by employers

# SF Testing Sites



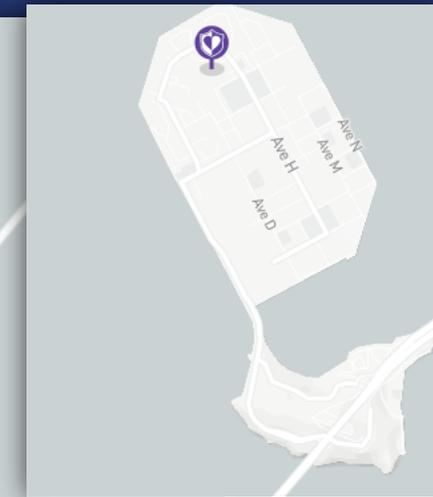
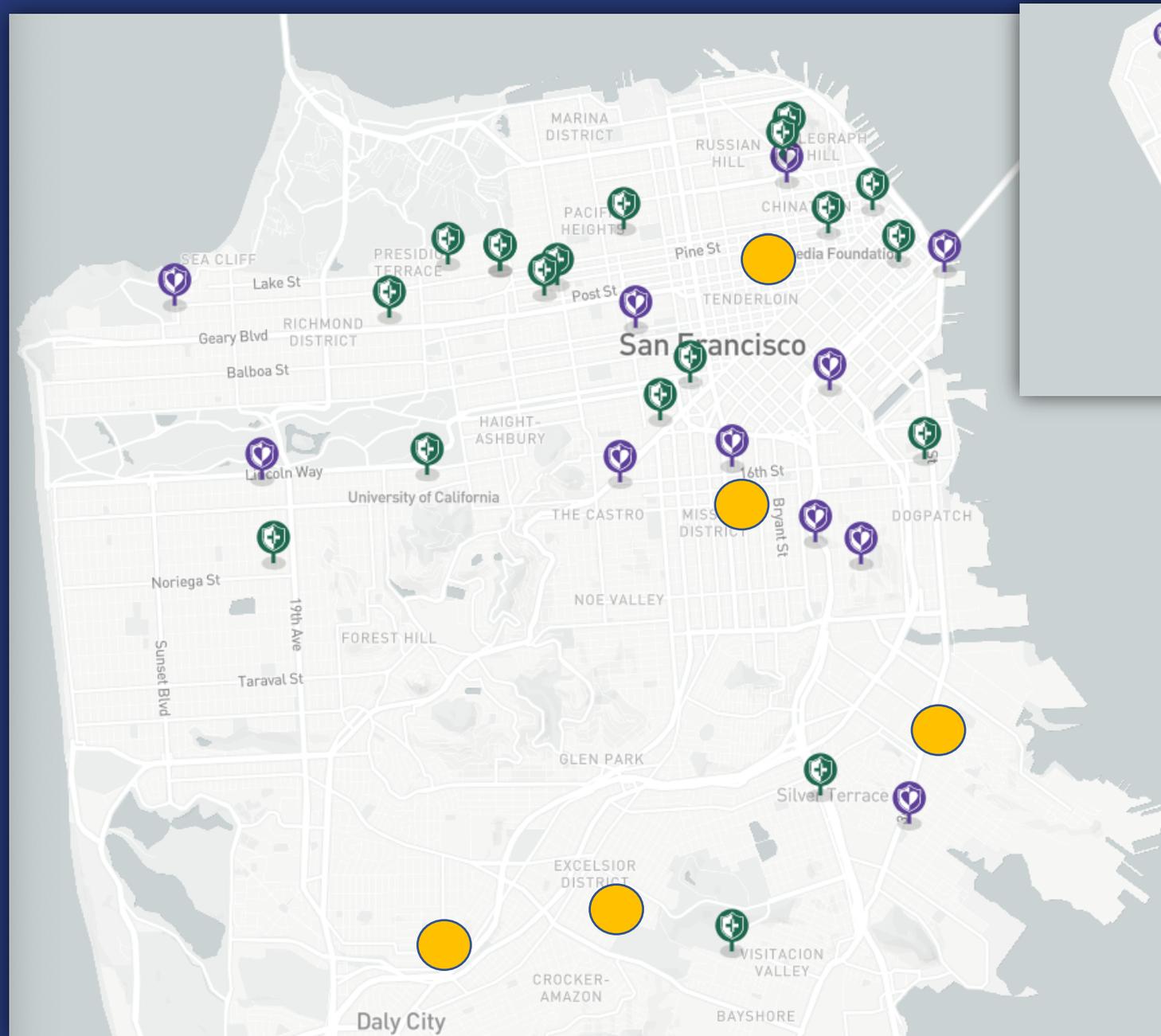
All sites



No Insurance Required



Community Pop-up Sites  
(no insurance required)





# City Testing Assets

## Fixed Sites

**CityTest SF** – essential workers and those with symptoms or close contacts to COVID+

- **Embarcadero:** 1,700 tests/day
- **SOMA:** 600 tests/day

### *Planned*

- **Southeast (Alemany):** 500 tests/day

**DPH Alternative Testing Sites** – those who are symptomatic or close contact to COVID+ (350 tests/day)

## Mobile Sites

**CityTest Mobile** – community testing in areas with high COVID+ prevalence. Two teams each doing 250 tests/day

**DPH Public Health Nurses** – outbreak response testing. 100 tests/day

**Color Surveillance Testing Unit (SNFs)** – monthly surveillance testing of residents/staff at SNFs. 300-500 tests/day

## State Based Assets\*

**Optum** – anyone who registers for an appt. 150 tests/day



# July 2020 Health Order

- Required private providers to provide testing within two days to symptomatic individuals and close contacts
- Requires healthcare delivery systems to prioritize individuals at highest risk for COVID-19 over other tier 2 populations
- Engage healthcare systems to increase City testing capacity
  - Health Systems have provided just over 20% of testing



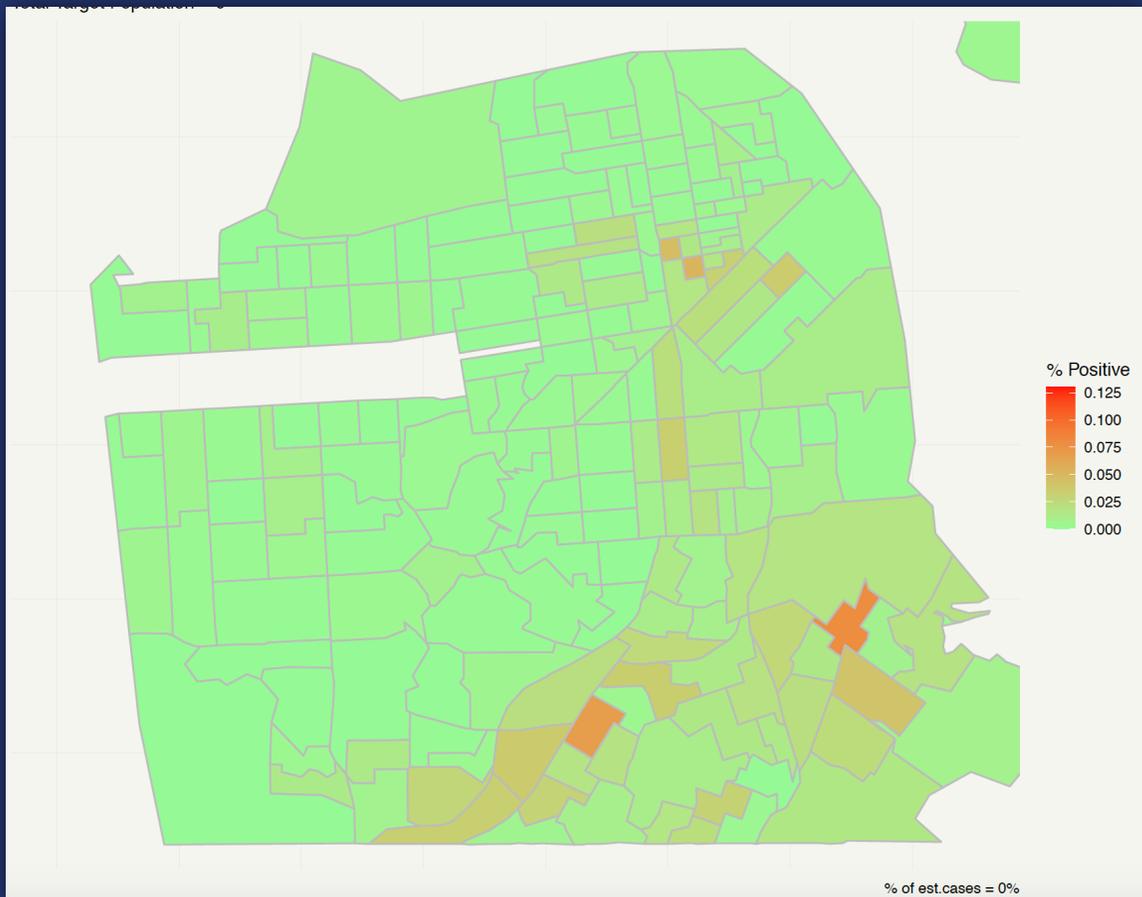
**SFDPH has provided 55% of  
SF's COVID-19 tests**

*(Data through October 16, 2020)*

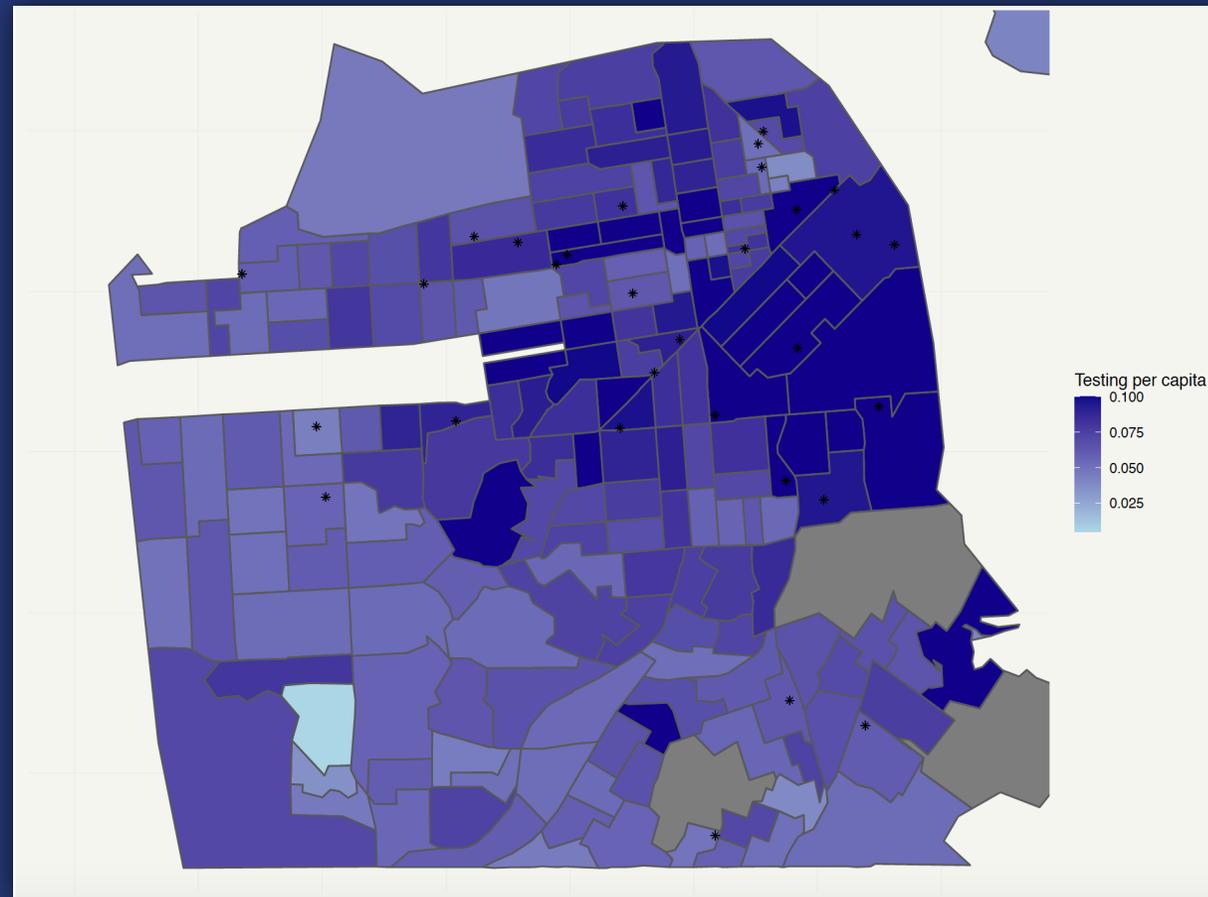


# Testing & Test Positivity – September

## COVID-19 Prevalence by Census Tract



## Testing per Capita by Census Tract



# Chinatown & COVID-19 Testing



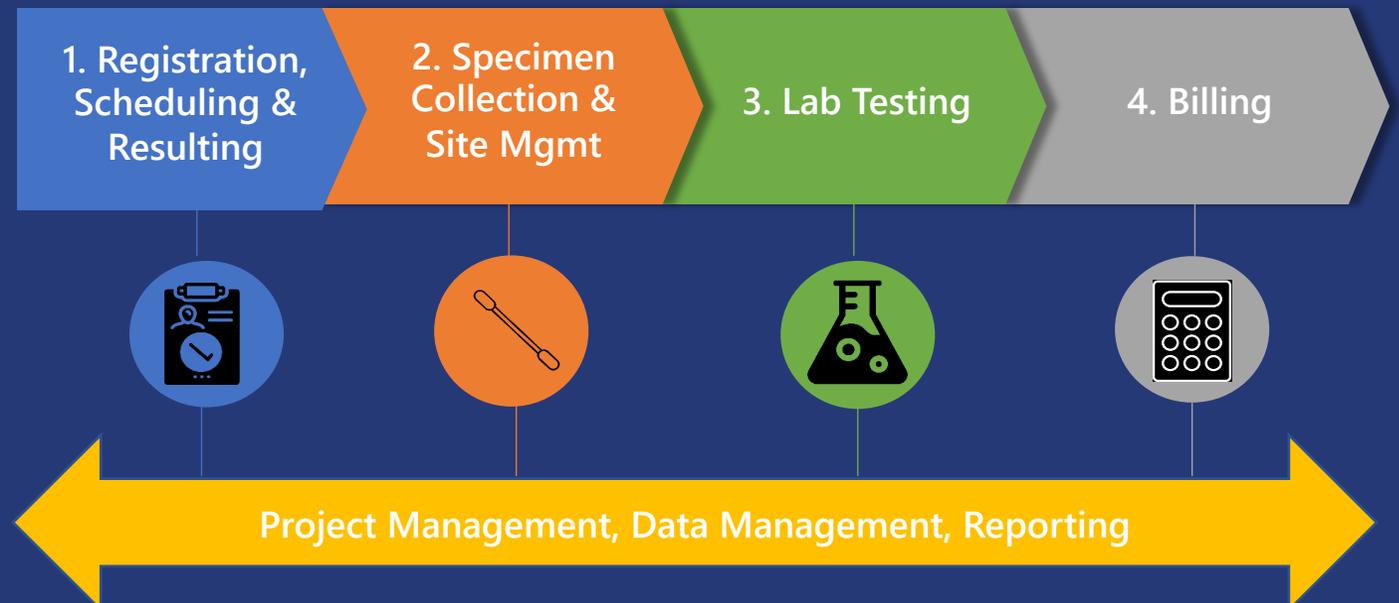
- **Chinese Hospital partnership** - pursuing a contract for prevention and outbreak response work within SROs in Chinatown
- **Chinatown mobile testing event (w/Color)**
  - Friday, October 30
  - 10am-3pm
  - At Portsmouth Square





# City Testing Budget

- At the start of the pandemic, the City contracted with vendors to conduct testing under emergency authority
- FY 20/21 testing budget is \$58.9 million
  - \$16.7M has been incurred YTD
- Emergency Regulation Regarding COVID-19 Diagnostic Testing
- RFP
  - 9/1/20 RFP released
  - 10/26/20 Notice of Intent to Award





# Cost Projections

|                   | Original Budget | Revised Budget | Projection | Surplus/(Deficit) |
|-------------------|-----------------|----------------|------------|-------------------|
| CoVid OPS Testing | 55.9            | 58.9           | 78.5       | (19.6)            |

| FY   | Quarter      | Color | One Medical                   | Total        |
|------|--------------|-------|-------------------------------|--------------|
| FY20 | Q4           |       | 5.5                           | 6.1          |
| FY21 | Q1           |       | 15.8                          | 16.7         |
| FY21 | Q2           |       | 19.6                          | 19.9         |
| FY21 | Q3           |       | 19.6 -                        | 19.6         |
| FY21 | Q4           |       | 19.6 -                        | 19.6         |
| FY21 | <b>Total</b> |       | <b>74.6</b>                   | <b>75.8</b>  |
|      |              |       | <i>FY20 Color Encumbrance</i> | <b>(4.5)</b> |
|      |              |       | <i>FY21 Projection</i>        | <b>71.4</b>  |
|      |              |       | <i>Other Testing Costs</i>    | <b>7.1</b>   |
|      |              |       | <i>Grand Total</i>            | <b>78.5</b>  |



# Questions

