



*EAST BAY MUNICIPAL UTILITY DISTRICT*

# **Orinda Water Treatment Plant Disinfection Improvements Project Update**

Planning Committee

March 10, 2020

# Agenda



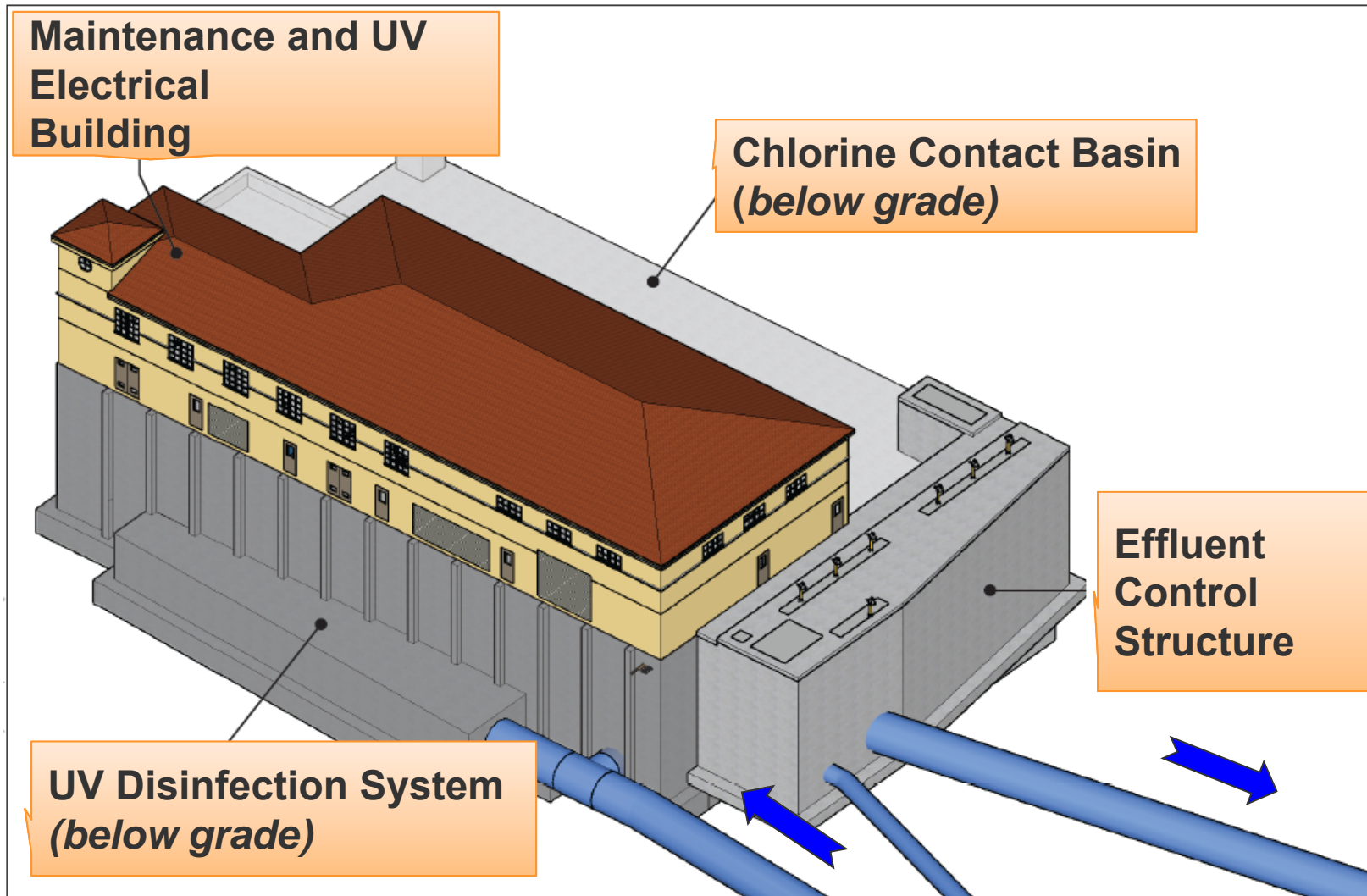
- Background
- Design Updates and Project Delivery
- CEQA and Community Outreach
- Upcoming Contract Requests
- Next Steps

# Orinda WTP Disinfection Improvements Project Site Plan



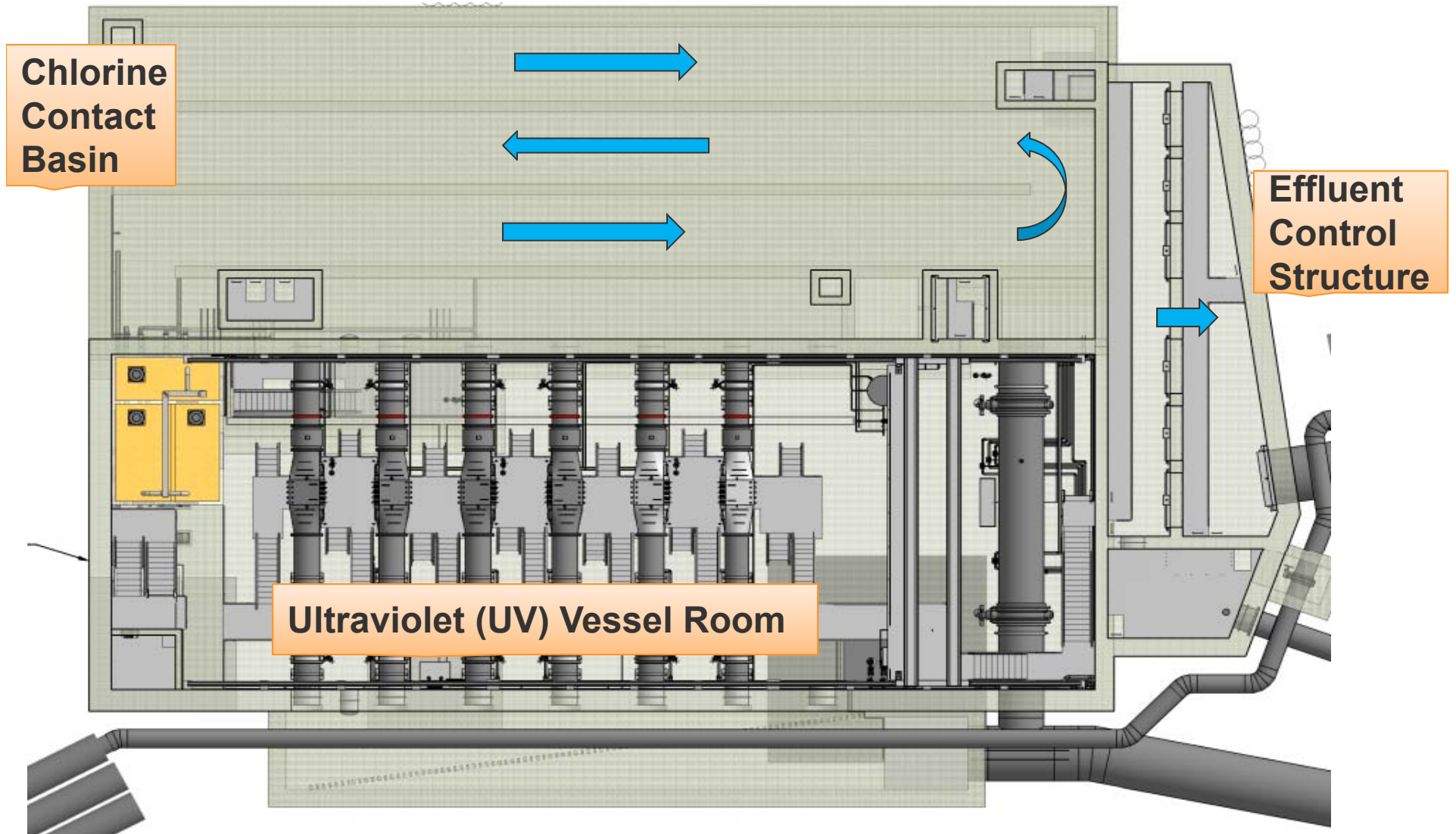


# Maintenance and Ultraviolet Electrical (MAUVE) Building

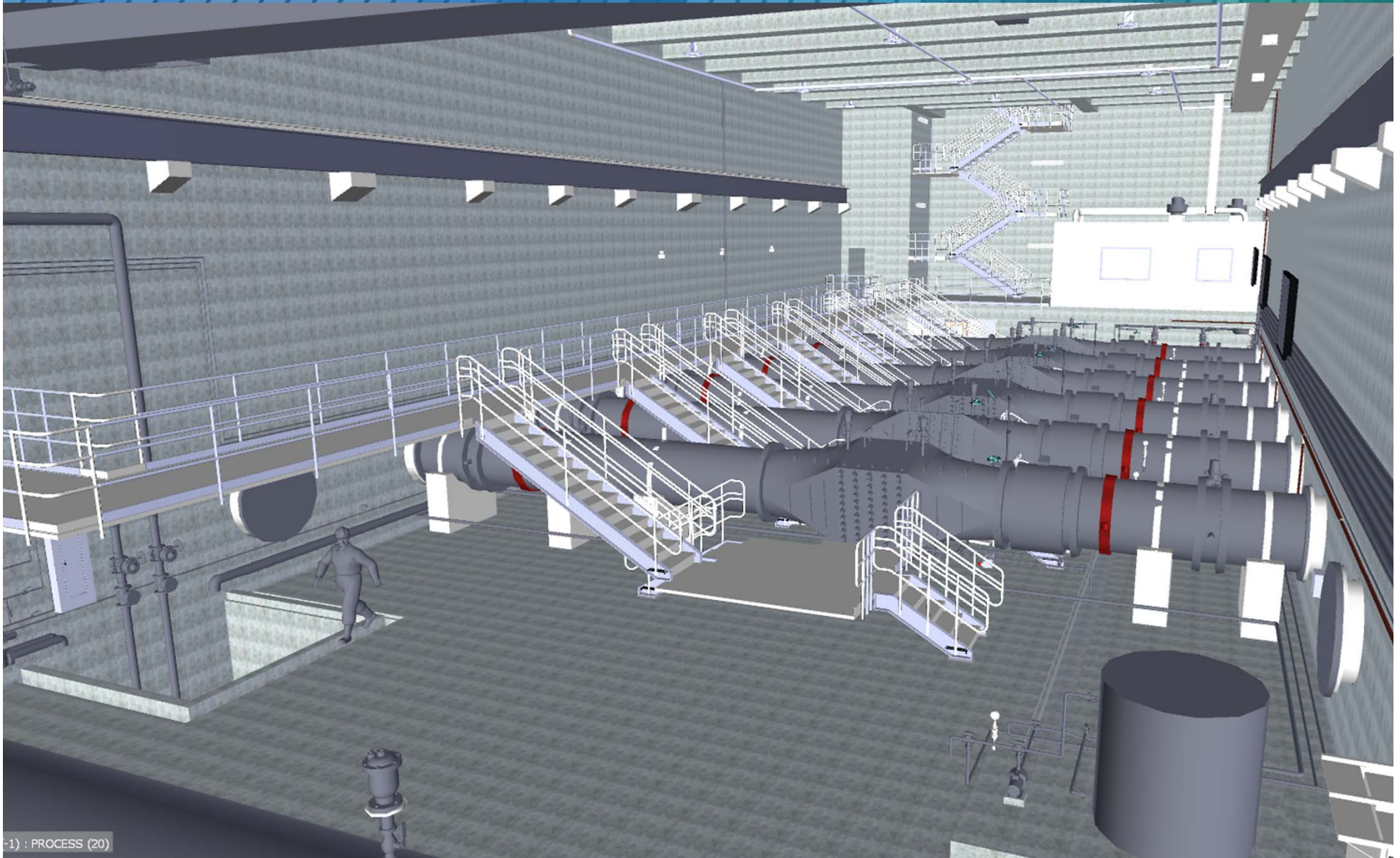




# New UV-CCB Disinfection Facility – Interior Rendering



# New UV-CCB Disinfection Facility – Interior Rendering





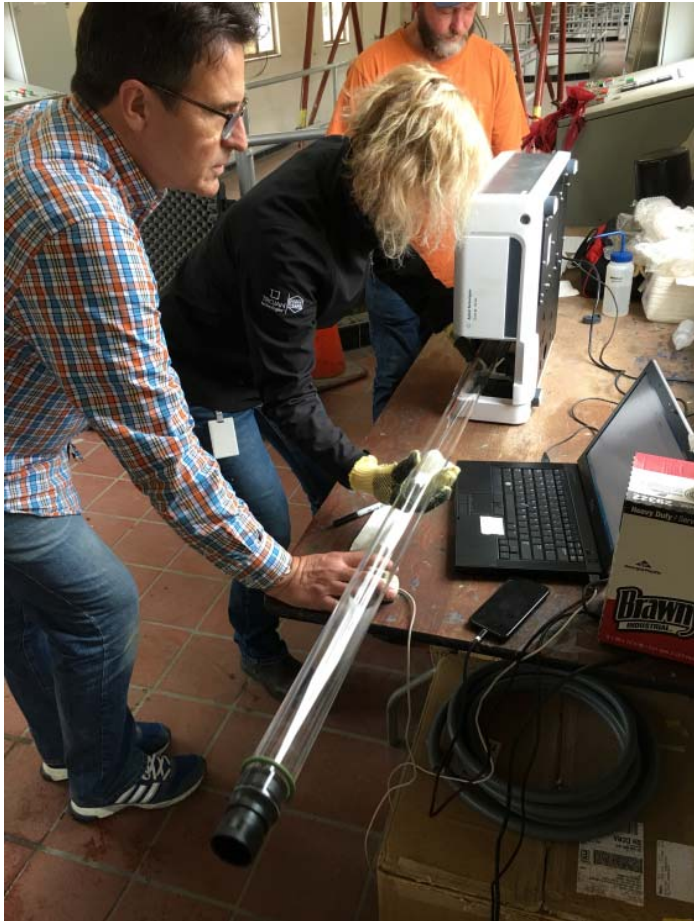
# Design Updates and Staff Engagement



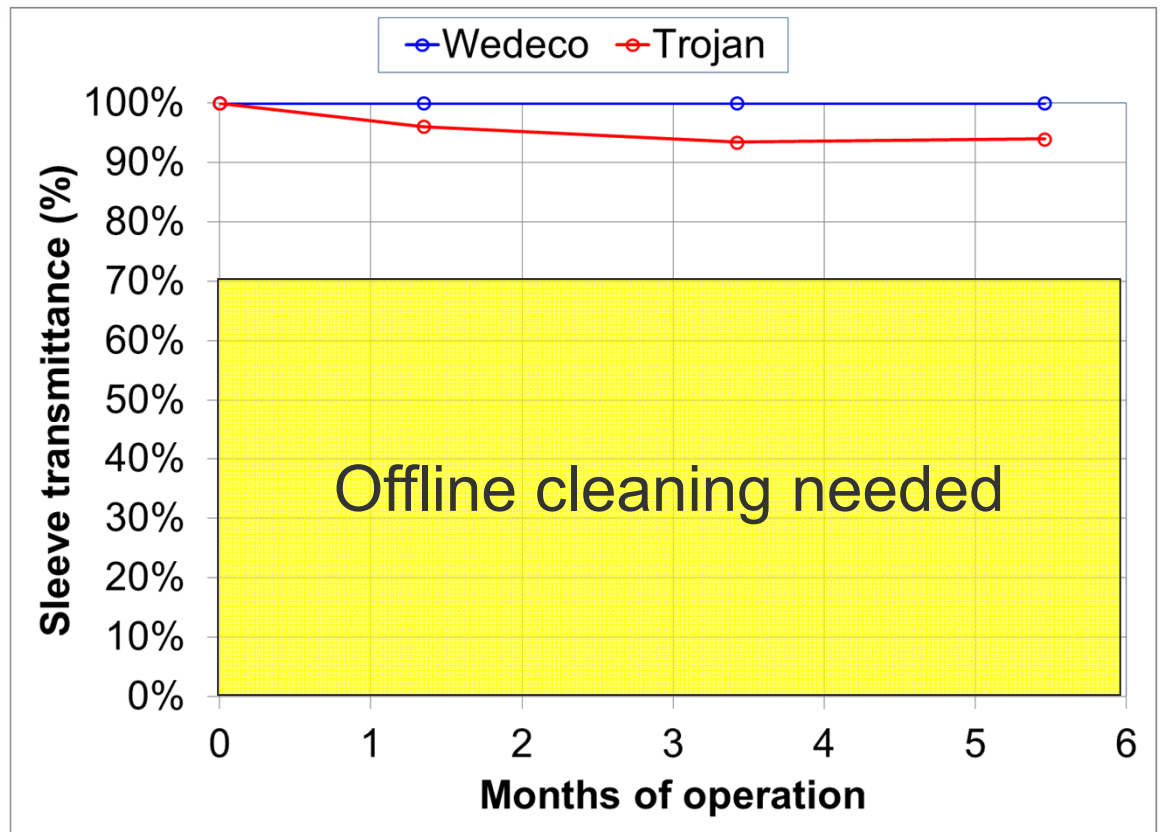
- Interim design package delivered in August 2019
- 3D design tools → virtual reality tours of new facilities for engineering and O&M staff at AB and OWTP
- Weekly meetings and over 35 workshops to maintain knowledge base and Project continuity



# Completed UV Pilot Testing Shows Technology Compatibility



**Above:** Quartz sleeve fouling measurements



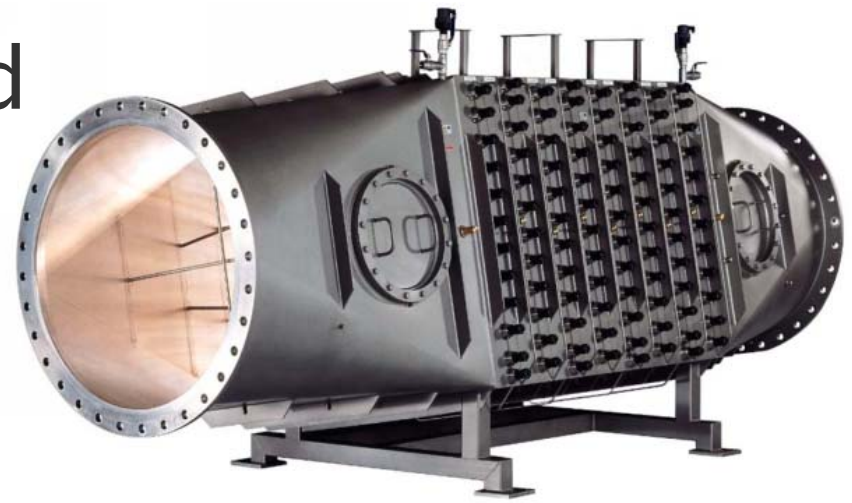
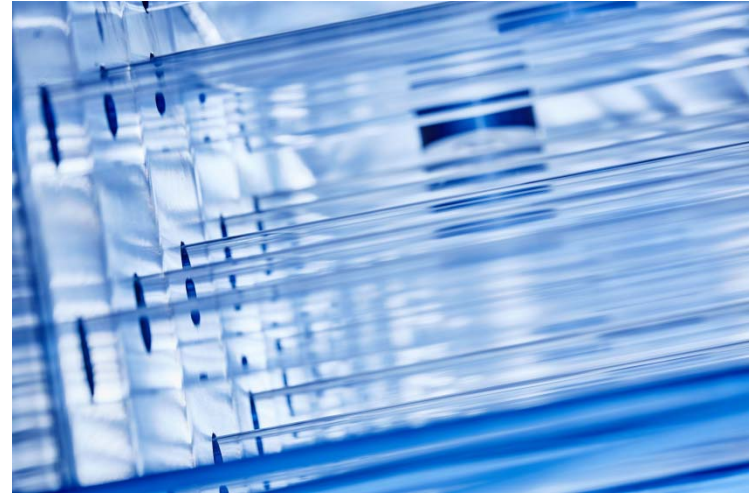
- Pilot testing completed August 2019
- No lamp cleaning necessary after 6 months of continual operation
- UV vendor selected based on pilot results <sub>8</sub>

# UV Equipment Procurement



Vendor preselected:  
Xylem/Wedeco

- Simple, robust system with large installation base
- Negotiated guaranteed maximum price
- Proposal for equipment design and engineering support



**Wedeco K143 UV Vessel**



# Prequalification of Specialty Subcontractors



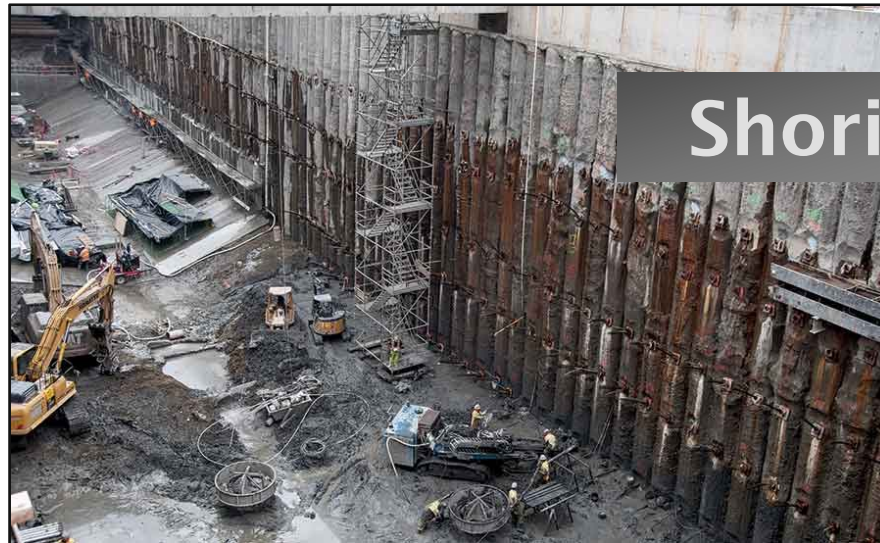
Electrical



Tunneling



Shoring





# CEQA and Community Outreach



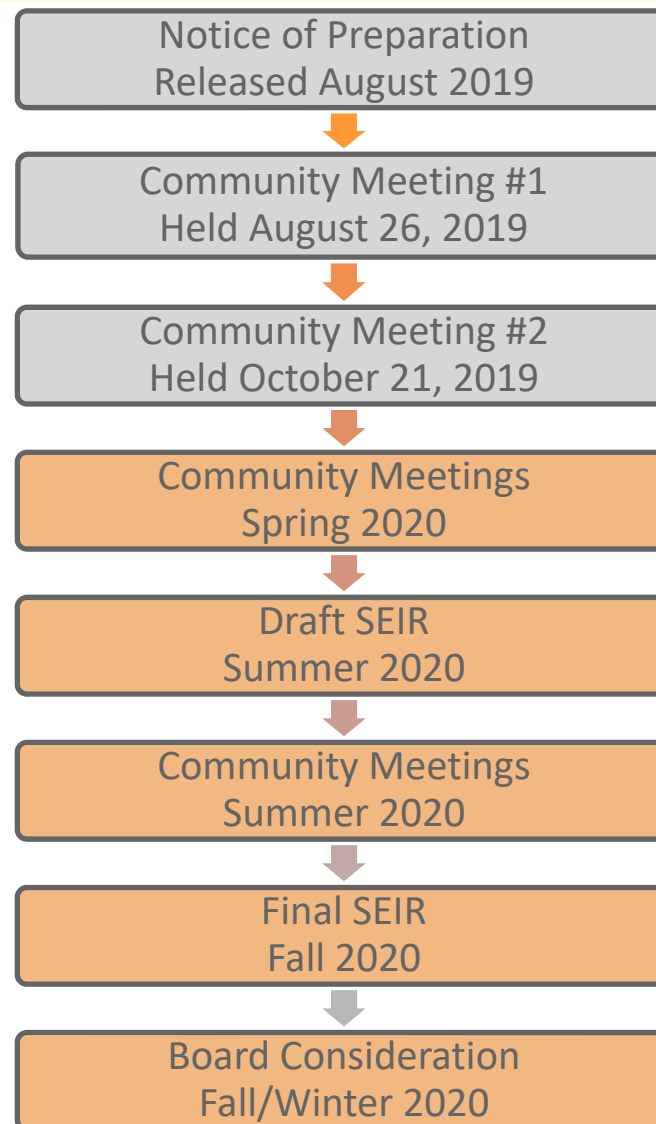
- Held two community meetings in August and October 2019
  - Presented Project scope, need and schedule and solicited community input
  - Presented aesthetics and landscaping plans

## Community Feedback

- Temporary Construction Impacts:
  - *Traffic and pedestrian safety*
  - *Haul routes*
  - *Construction and operational noise*
  - *Air quality*
- Cumulative Impacts

- Two additional community meetings to be scheduled in Spring 2020 focusing on traffic-related issues
- Quarterly coordination meetings with City of Orinda

# CEQA and Community Outreach Timeline



# Contracts for Consideration



- Contract with Wedeco as previously described
- Design & CEQA Contract Amendment
  - Distribution system electrical and standby power improvements
  - Additional CEQA analysis including traffic studies and visual simulations
  - Site accommodations, process optimization and risk management



# Next Steps



- Board consideration of design contract amendment and Wedeco contract: April 2020
- Publish draft SEIR: Summer 2020
- Board consideration of SEIR: Fall/Winter 2020
- Contract bid: Spring 2021

# Questions





*EAST BAY MUNICIPAL UTILITY DISTRICT*

# **Regional Private Sewer Lateral Program Update**

Planning Committee

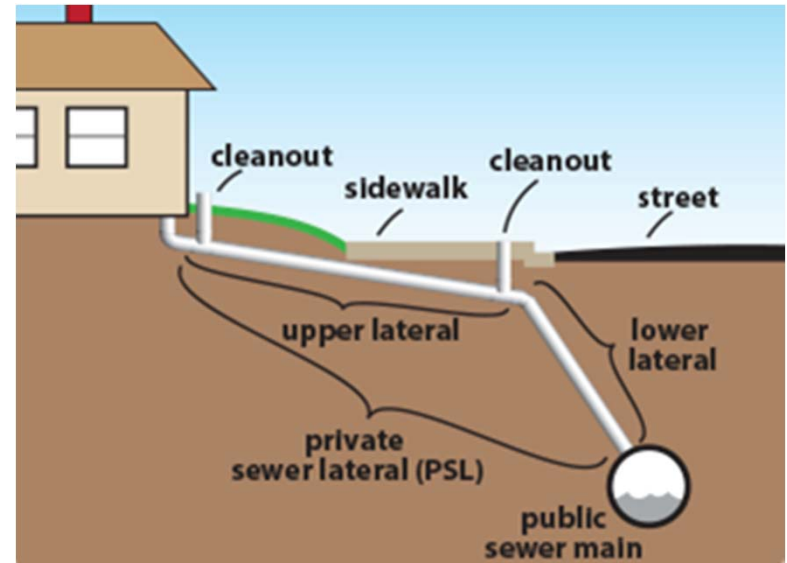
March 10, 2020



# Agenda



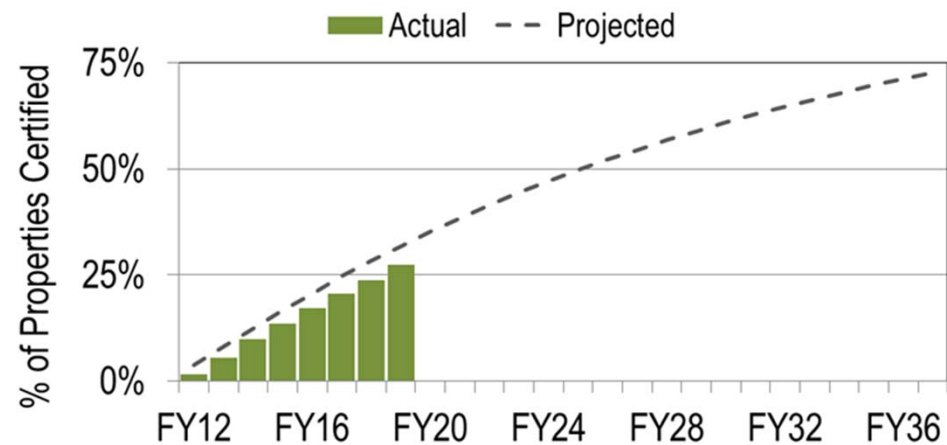
- Background
  - Consent Decree
  - Private Sewer Lateral (PSL) Ordinance
- PSL Program Progress
- Next Steps



# Background Consent Decree



- September 22, 2014 – EBMUD and Satellite agencies enter into a 22-year Consent Decree
- Key checkpoints throughout
  - Check-in #1 2022
  - Check-in #2 2030
  - Overall compliance 2036
- PSL Program
  - Key component
  - EBMUD responsibility



# Background PSL Ordinance



- Three triggers



Title transfer



Remodel or construction >\$100,000



Change in water meter size

- Program includes all Satellites except Berkeley
- To date, approximately 29% of parcels within program area certified with “leak-free” PSLs



# Overview of May 2019 Ordinance Amendments

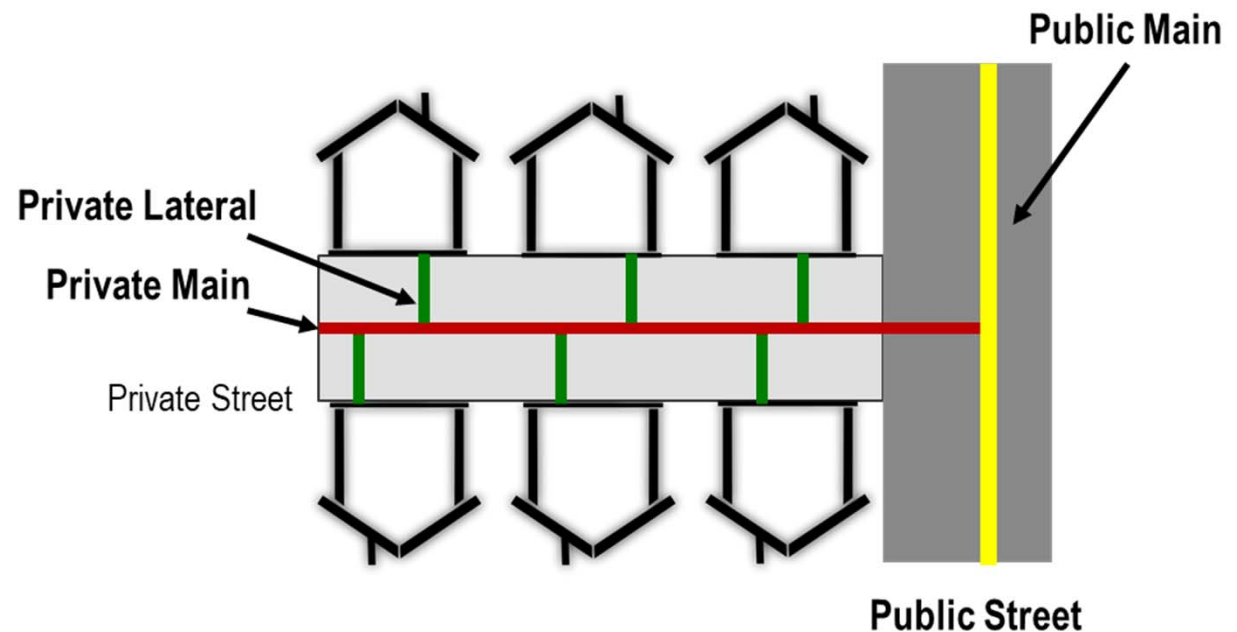


- Common Interest Developments (CID)
  - Managed by homeowners' association (HOA)
- Parcel/parcel groups with PSL >1,000 ft.
- Additional modifications
  - Enforcement
  - Definitions

# Background Common Interest Developments



- Ordinance requirements
  - PSLs maintained by HOA: certify as leak-free by July 12, 2021
  - All other pipe within CID: certify when trigger is hit



# Common Interest Developments HOA Required Documentation



EAST BAY REGIONAL PRIVATE SEWER LATERAL PROGRAM



## Statement of Responsibility Form for HOAs

### Deadline to Submit

HOA in existence prior to 5/24/2019	<b>November 20, 2019</b>
HOA created after 5/24/2019	Within 180 days of HOA formation

Provide this form to EBMUD as required in Section 11 (c) of EBMUD's Regional Private Sewer Lateral Ordinance. Failure to provide a completed form and accompanying documents by the deadline will subject the HOA and the property owners within the Common Interest Development to enforcement action.

- Complete this form and attach all required supporting information
- Send form and documents via U.S. mail to PSL Program P.O. Box 24055 MS#702, Oakland, CA 94623 and a courtesy electronic copy to [psl@ebmud.com](mailto:psl@ebmud.com). Electronic copy alone is not sufficient, hard copy is required
- For questions, visit [www.eastbaypsl.com](http://www.eastbaypsl.com) or call (510) 287-1778

### Required Information

- Name of HOA \_\_\_\_\_
- HOA Date of Formation: \_\_\_\_\_
- HOA contact name: \_\_\_\_\_
- HOA mailing address: \_\_\_\_\_  
\_\_\_\_\_
- HOA contact phone number: \_\_\_\_\_
- HOA contact email address: \_\_\_\_\_
- Please check the box next to the correct statement:
  - ☐ HOA has NO maintenance responsibility for any portion of the private sewer laterals
  - ☐ HOA has maintenance responsibility for ALL private sewer laterals
  - ☐ HOA and Property Owners have responsibility for different portions of the private sewer laterals

Please indicate if HOA has privately-owned sewer mains and/or manholes: ☐

## Outreach

- Mailed to >600 HOAs
  - Overview of new requirements
  - Statement of Responsibility (SOR) form
  - Guidance documents
  - Previous correspondence with EBMUD
- Received 348 SORs from HOAs



# Parcels with >1,000 Feet PSL Ordinance Requirements



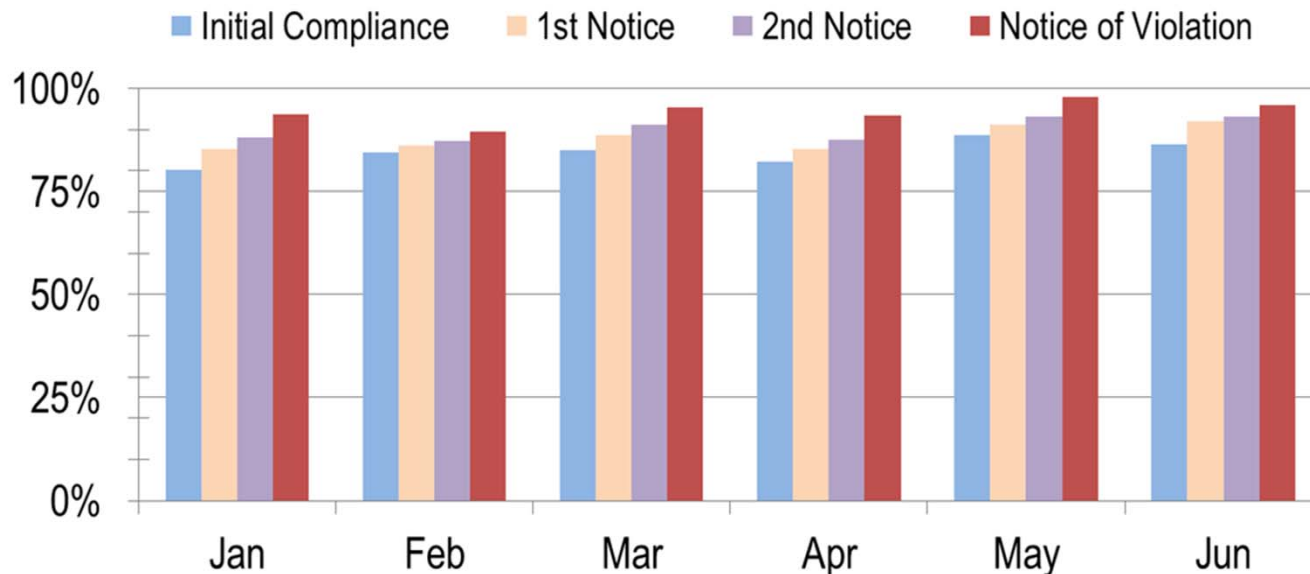
- Requires property owners to submit a Corrective Action Work Plan by July 12, 2021
- Requires Corrective Action Work Plan approval by EBMUD
- Compliance due by:
  - July 2026, or
  - July 2029, if >5,000 ft. or >50% of laterals require replacement



# Enforcement



- In the past, program has achieved high rates of compliance following a series of notifications



- Beginning to include cost recovery fee with Notice of Violation
- Addressing the backlog that has not complied

# Next Steps



- Work with HOAs and “greater than 1,000-ft.” properties to meet 2021 deadlines
- Continue tracking compliance rates and consider additional enforcement steps as necessary
- Update fees to reflect staff costs





*EAST BAY MUNICIPAL UTILITY DISTRICT*

# **RAILROAD PROPERTY ACQUISITION**

**Planning Committee**

March 10, 2020

# New Service Center to Support Construction Activities



- Purchased Willow Street Property as the new Service Center site
- Purchase was predicated on the sale of the RR Property
- An agreement was negotiated, but RR opted not to follow through
- RR Property is essential to the site development
- Condemnation is the only alternative

# Initiation of Eminent Domain Proceedings



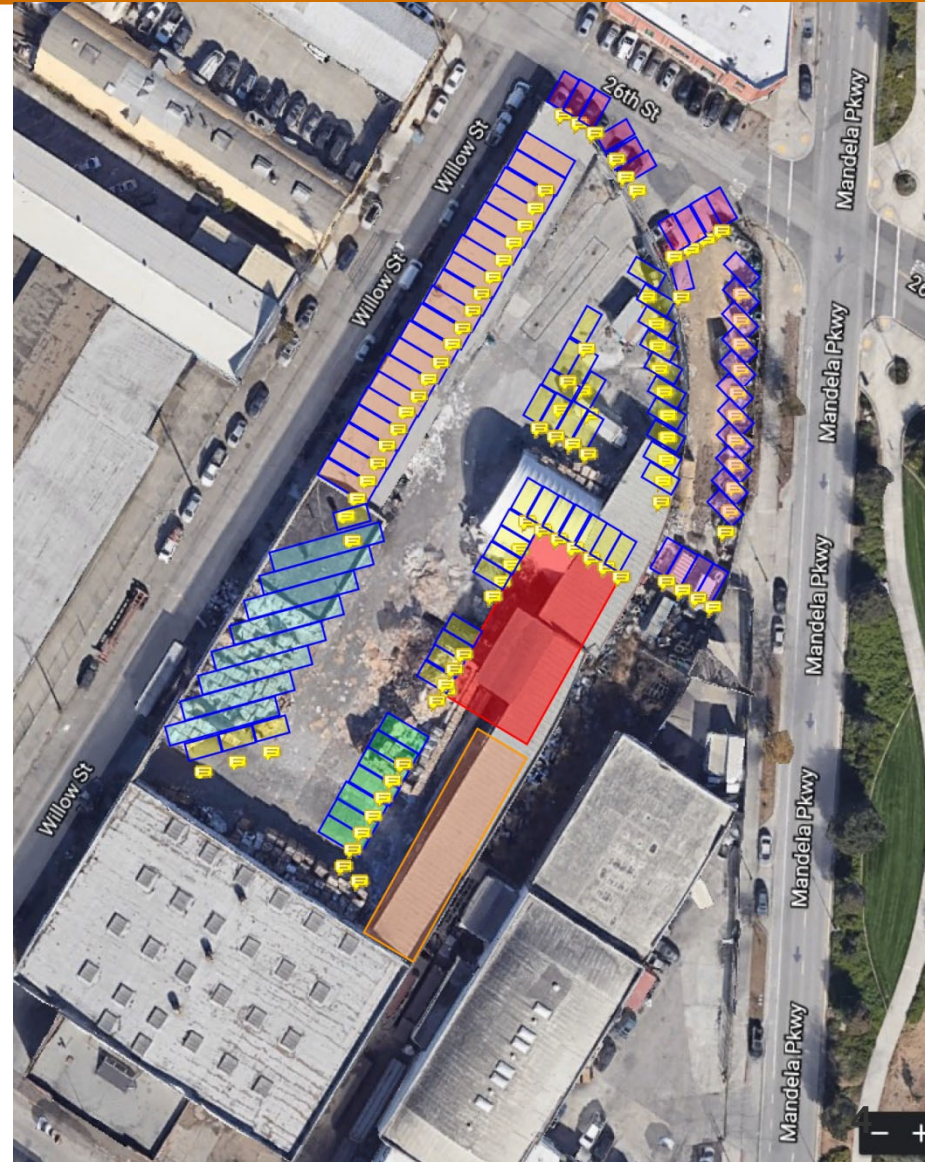
- Conduct a public hearing to allow the property owner(s) to address the Board
- Adopt a Resolution of Necessity
- To adopt a Resolution of Necessity, the Board must make four findings:
  - The project is necessary
  - The property rights are necessary
  - The project will accomplish the least private injury and the most public good
  - Offer of just compensation has been made



# Project Necessity – The New Service Center is Critical



- Support the District's planned and unplanned construction activities
- Significantly reduce the overall usable area without the RR Property
- Impact safe turning radius of large vehicles
- Improve overall safety for employees





# The Property Right is Necessary



- The RR Property is essential to build a Service Center with the most effective use
  - Usability of existing onsite structures
  - Maximize equipment and material storage
- As unused land, the RR Property would pose security concerns



# Accomplish Least Private Injury and Most Public Good



- RR Property is vacant, unimproved and used for dumping
- Cannot be developed or used for any other purpose
- Will have no impact on railroad operations
- Service Center provides significant benefit to District customers



# Next Steps



- Conduct a public hearing during the March 24, 2020 Board Meeting
- Adopt a Resolution of Necessity authorizing staff to file eminent domain actions



**QUESTIONS?**

# Public Recreation Management

Planning Committee

March 10, 2020

- Discuss Mokelumne and East Bay Recreation Programs
- Review Results and Related Key Performance Indicators
- Discuss Major Activities and Initiatives in 2019

# Mokelumne Watershed Recreation



- Four developed Recreation Areas plus over 35 miles of trails
- More than 625,000 visitors in a typical year
- Implementing Mokelumne Watershed Recreation Management Plan
- KPIs established for cost recovery, safety and visitor satisfaction



# Mokelumne Recreation Visitation



Location	CY 2015	CY 2016	CY 2017	CY 2018	CY 2019
Camanche North Shore	147,726	192,660	242,036	236,674	233,340
Camanche South Shore	164,264	211,040	254,378	259,714	267,291
Pardee Recreation Area	48,140	57,224	89,926	56,630	64,234
Mokelumne River Day Use	53,520	64,252	55,233	48,313	38,115
Camanche Hills Hunting Preserve	12,768	12,462	12,610	13,368	12,176
Watershed Trails	8,259	9,417	9,519	11,199	11,191
<b>Total</b>	<b>434,677</b>	<b>547,055</b>	<b>663,702</b>	<b>625,898</b>	<b>626,347</b> <sup>4</sup>

# Mokelumne Recreation Revenues



Management Area	CY 2015	CY 2016	CY 2017	CY 2018	CY 2019
Camanche North Shore	\$1,525,651	\$2,097,412	\$2,611,701	\$2,849,628	\$2,929,709
Camanche South Shore	\$1,728,206	\$2,380,703	\$2,873,529	\$3,137,441	\$3,378,169
Pardee Recreation	\$336,981	\$546,621	\$709,772	\$713,366	\$647,425
Camanche Hills Hunting Preserve	\$1,199,135	\$1,198,695	\$1,275,692	\$1,390,976	\$1,247,456
<b>Total Revenues</b>	<b>\$4,789,973</b>	<b>\$6,223,431</b>	<b>\$7,470,694</b>	<b>\$8,091,411</b>	<b>\$8,202,759</b>

# Mokelumne Recreation Financial KPIs



Recreation Management Area And % Cost Recovery (CR) Target	FY15	FY16	FY17	FY18	FY19
Camanche North Shore: 45%	67%	54%	64%	71%	70%
Camanche South Shore: 45%	63%	63%	54%	68%	66%
Camanche Hills Hunting Preserve: 95%	87%	94%	100%	97%	92%
Pardee Recreation: 40%	45%	34%	46%	38%	46%

# Mokelumne Recreation Public Safety



<b>RMP Goal</b>	<b>CY 2015</b>	<b>CY 2016</b>	<b>CY 2017</b>	<b>CY 2018</b>	<b>CY 2019</b>
<b>Boating Safety</b>  <b>&lt;0.01%</b>	0.000%  0 accident 18,223 vessels	0.011%  3 accidents 28,130 vessels	0.011%  4 accidents 36,918 vessels	0.009%  3 accidents 34,537 vessels	0.006%  2 accidents 34,140 vessels
<b>Visitor Incidents</b>  <b>&lt;0.2%</b>	0.06%  273 incidents 434,360 visitors	0.04%  207 incidents 547,055 visitors	0.04%  243 incidents 663,702 visitors	0.04%  249 incidents 625,898 visitors	0.04%  248 incidents 626,347 visitors



# Mokelumne Recreation Customer Surveys



- Visitor surveys include request for feedback on Courtesy, Cleanliness, Value, Safety and Security
- Target rating KPI - 80% "Good" or "Excellent"
- 2015 results: 95%
- 2016 results: 95%
- 2017 results: 95%
- 2018 results: 94%
- 2019 results: 97%



**HOW ARE WE DOING?**

Please rate the following regarding your most recent experience on **EBMUD's Mokelumne Recreation Trail System**. Please email additional comments to [recreate@ebmud.com](mailto:recreate@ebmud.com).

Date of visit: 10/19/14

	EXCELLENT	GOOD	ONLY FAIR	POOR	NO EXPERIENCE
Courtesy and helpfulness of staff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleanliness of location and facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Value for services provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety/Security of recreation area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of information/signage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How can we improve? Just need the trail the way it is. No improvements needed.

Optional- City/State of Residence: \_\_\_\_\_

Age: ☐ Under 35 ☒ 36 - 50 ☐ 51-60 ☐ Over 60 Gender: ☒ Male ☐ Female

---

**HOW ARE WE DOING?**

Please rate the following regarding your most recent experience at **Camanche South Shore**. Please email additional comments to [recreate@ebmud.com](mailto:recreate@ebmud.com).

Date of visit: 7/6/10

	EXCELLENT	GOOD	ONLY FAIR	POOR	NO EXPERIENCE
Courtesy and helpfulness of staff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleanliness of location and facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Value for services provided	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety/Security of recreation area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of information/signage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How can we improve? You guys are doing great!

Campsite # or location of visit: \_\_\_\_\_

Optional- City/State of Residence: \_\_\_\_\_

Age: ☐ Under 35 ☐ 36 - 50 ☐ 51-60 ☐ Over 60 Gender: ☐ Male ☐ Female

---

**HOW ARE WE DOING?**

Please rate the following regarding your most recent experience at **Pardee Reservoir**. Please email additional comments to [recreate@ebmud.com](mailto:recreate@ebmud.com).

Date of visit: 7/6/14

	EXCELLENT	GOOD	ONLY FAIR	POOR	NO EXPERIENCE
Courtesy and helpfulness of staff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleanliness of location and facilities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Value for services provided	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety/Security of recreation area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of information/signage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

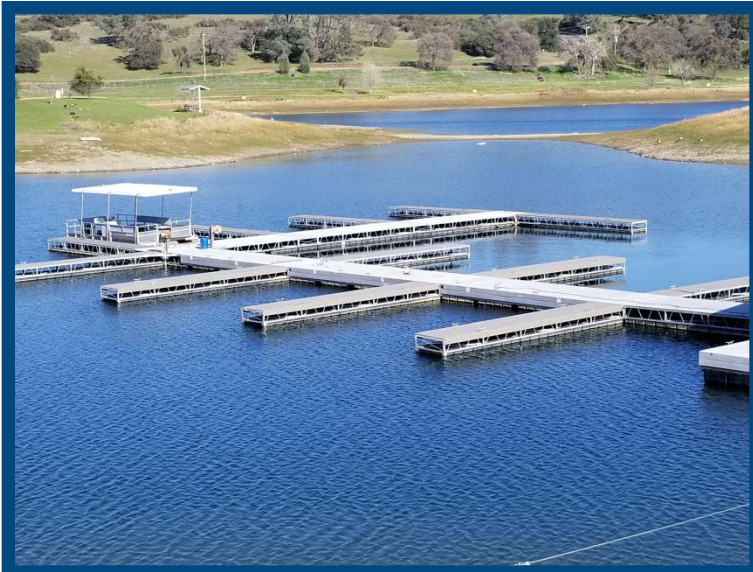
How can we improve? Keep up the great work

Campsite # or location of visit: 112

Optional- City/State of Residence: San Jose

Age: ☒ Under 35 ☐ 36 - 50 ☐ 51-60 ☐ Over 60 Gender: ☒ Male ☐ Female

# Mokelumne Recreation Projects and Initiatives



- Pardee Marina Dock reconstruction completed (FERC item)
- Emergency Services surcharge established to help offset recreation related calls
- Upgrades to the on-water fueling system for Camanche Reservoir





# Mokelumne Recreation Projects and Initiatives (cont.)



- Eco-tourism draws visitors from across the region
- Ranger-led environmental education programs connect youth groups and schools with our watershed lands
- Public events such as Children's Fishing Day and River Cleanup Day create positive visitor/community experiences





# Mokelumne Recreation Projects and Initiatives (cont.)



- New off-leash dog park at Camanche South Shore
- Long-term trail maintenance
- Facility capital projects that enhance visitor experience.





- Two developed recreation areas and over 90 miles of trails
- Over 1 million visitors in a typical year.
- Venue for 3 collegiate crew rowing teams and host of 4 amateur rowing events drawing over 3,000 spectators
- KPIs established for cost recovery, safety and visitor satisfaction

# East Bay Recreation Public Safety



KPI	Goal	CY 2015	CY 2016	CY 2017	CY 2018	CY 2019
Visitor Incidents*	0.2%	0.03%  403 incidents 1,328,339 visitors	0.03%  371 incidents 1,292,700 visitors	0.04%  447 incidents 1,227,300 visitors	0.025%  335 incidents 1,344,849 visitors	0.03%  1,483 incidents 1,179,859 visitors

\*Number of documented visitor incidents per visitor day

# East Bay Recreation Customer Surveys



Percentage of customers who responded “Good” or “Excellent” for overall experience:

- CY 2015: 94%
- CY 2016: 92%
- CY 2017: 89%
- CY 2018: 85%
- CY 2019: 90%



# East Bay Watershed Recreation Visitation



Location	CY 2016	CY 2017	CY 2018	CY2019
Lafayette Recreation Area	1,080,662	1,003,287	1,071,623	921,188
San Pablo Recreation Area	140,638	137,513	147,154	133,714
Trail System	71,140	86,500	126,072	124,957
<b>Total</b>	<b>1,292,440</b>	<b>1,227,300</b>	<b>1,344,849</b>	<b>1,179,859</b>



# East Bay Watershed Recreation Revenue



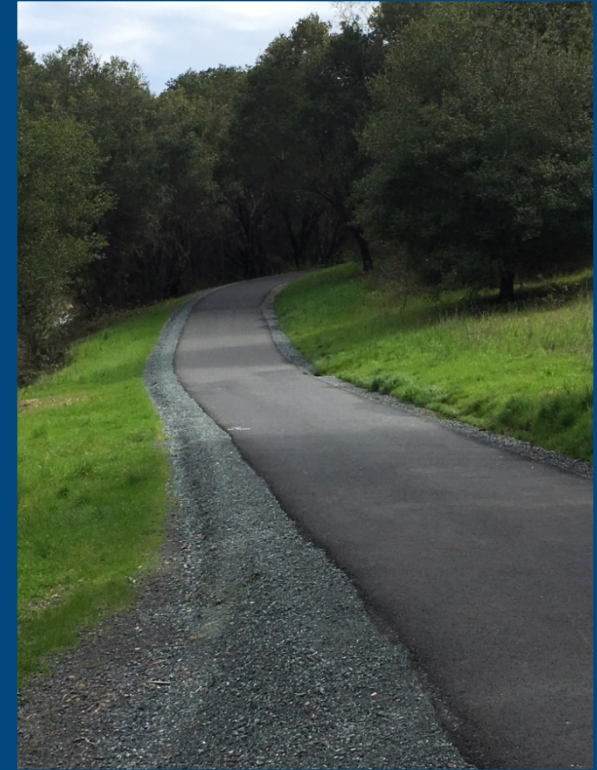
Location	CY 2015	CY 2016	CY 2017	CY 2018	CY 2019
Lafayette Recreation Area	\$1,302,658	\$1,321,629	\$1,284,738	\$1,268,857	\$1,153,887
San Pablo Recreation Area	\$827,252	\$884,155	\$844,308	\$898,236	\$870,480
Watershed Trails	\$53,880	\$58,180	\$62,960	\$70,040	\$56,667
<b>Total:</b>	<b>\$2,183,790</b>	<b>\$2,263,964</b>	<b>\$2,192,006</b>	<b>\$2,237,133</b>	<b>\$2,081,034</b>

# East Bay Recreation Financial KPIs



Recreation Management Area  % Cost Recovery Target	FY 2015 Actual	FY 2016 Actual	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual
Lafayette Recreation Management Area: 65%	82%	79%	79%	59%	57%
San Pablo Recreation Management Area: 40%	50%	57%	55%	55%	63%

# East Bay Recreation Projects and Initiatives



**Lakeside Trail improvements**



# East Bay Recreation Projects and Initiatives



Refurbished play structure



# East Bay Recreation Projects and Initiatives



**Rebuilt fishing dock**

# East Bay Recreation Projects and Initiatives



**Picnic area upgrades**



# East Bay Recreation Projects and Initiatives



Picnic area upgrades





# Next Steps

- Complete the final FERC Camanche Plan project at Camanche South Shore
- Complete four key infrastructure projects in Camanche Recreation Area
- Strategically manage for increasing visitation trends

