EAST BAY MUNICIPAL UTILITY DISTRICT

Leland Reservoir Replacement Project

Draft Environmental Impact Report Public Meeting

The Meher Schools

6:30-8:30 pm

Oscar Herrera, Project Manager

February 8, 2018

Project Team

EBMUD

- Oscar Herrera, PE, Project Manager
- Jeni McGregor, PE, Senior Engineer
- David Rehnstrom, PE, Water Distribution Planning Division Manager
- Reyna Yagi, Community Affairs

Consultant

- Robin Cort, Ph.D., RMC/Woodard & Curran

Agenda

- Project Location and Need
- Project Scope
- Construction
  - Pipeline
  - Reservoir
- Public Outreach and Community Concerns
- EIR Analysis of Impacts and Mitigations
- Next Steps

Project Location

Leland Reservoir (1955)

- Existing 18-MG Open Cut
- Pre-cast concrete panel roof

36-inch Critical Pipeline

- Located under existing reservoir

Project Need

- Reservoir at end of useful service life:
  - Roof: rainwater ponding, leaks, stability concerns
    - Interim project – Membrane roof cover (December 2017)
  - Replace aging electrical and mechanical components
  - Trees growing on embankment

- Relocate inaccessible critical pipeline

Project Scope

Public Outreach & Community Concerns

- Lafayette City staff
  - June 2016
- Three public meetings
  - August & September 2016
- Lafayette City Council Meeting
  - November 2016

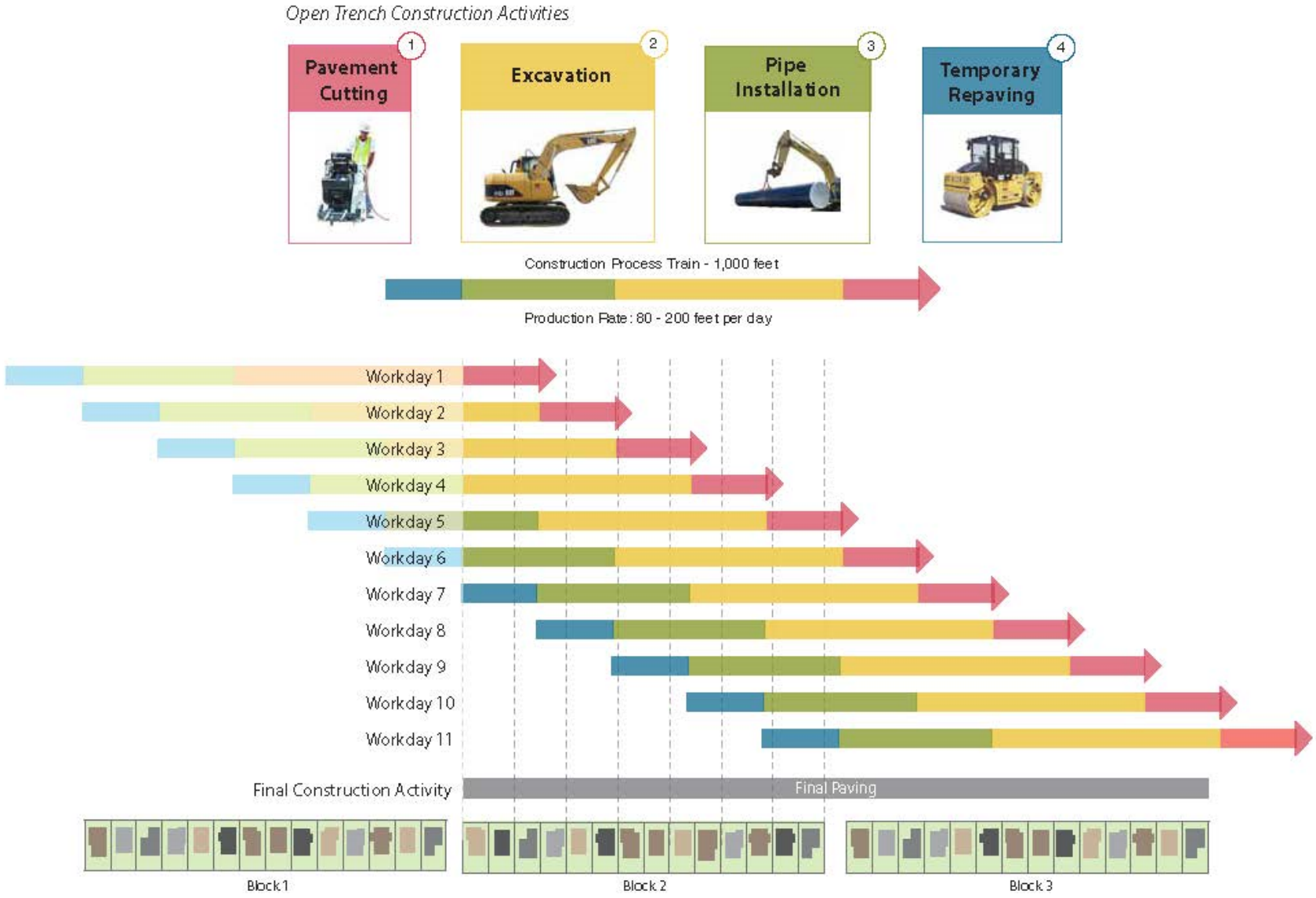
- Pipeline alignment
- Construction traffic
- Construction noise
- Tree removal
- Final landscape plan

Pipeline Construction - Open Trench Process

Installing Pipe in Roadway

Trench restoration

Progression of Pipeline Open Trench Construction Work



Progression of Open Trench Work

Your House

Progression of Work

Your House

Pavement Cutting

Progression of Work

Your House

ion

Pavement
Cutting

Progression of Work

Your House

Excavation

Pavement Cutting

Progression of Work

Your House

Day 1

Progression of Work

Your House

Pipe Installation

Excavation

Pavement Cutting

Day 2

Progression of Work

Your House

Pipe Installation

Excavation

Pavement Cutting

Day 3

Progression of Work

Your House

Pipe Installation

Excavation

Pavement Cutting

Day 4

Progression of Work

Your House

Day 5

Progression of Work

Your House

Pipe Installation

Excavation

Leaving

Progression of Work

Your House

Pipe Installation

Leaving

Progression of Work

Your House

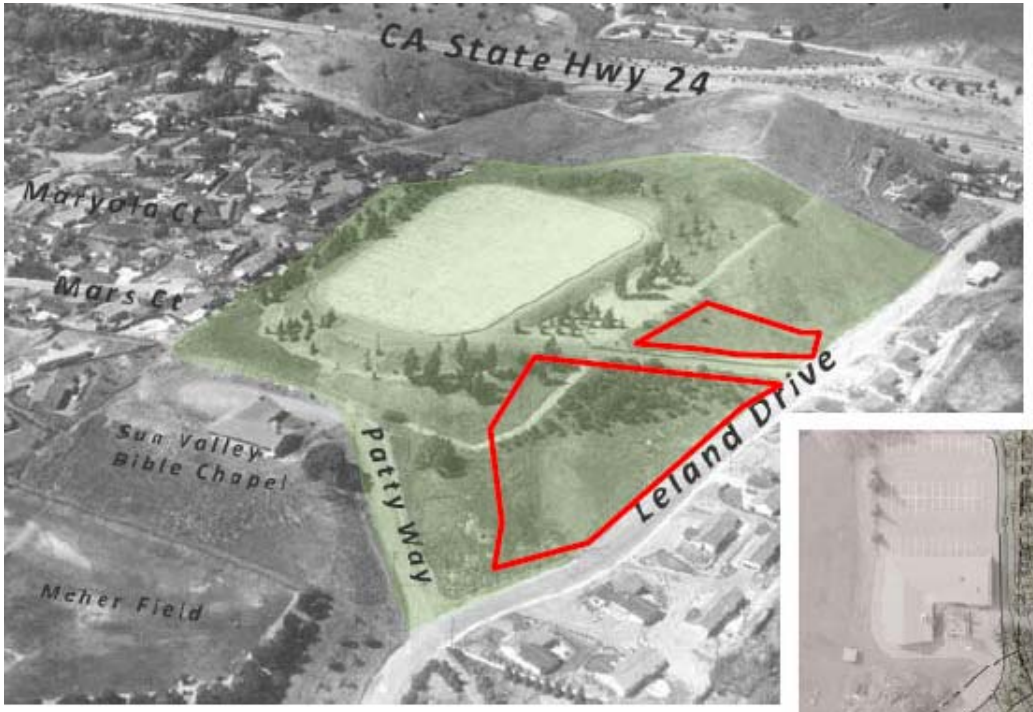
Pipe Installation

Leaving

Progression of Work

Your House

Reservoir Construction



Construction Demo/
Excavation Material

~ 108,000 CY

Stockpile

~ 42,000 CY

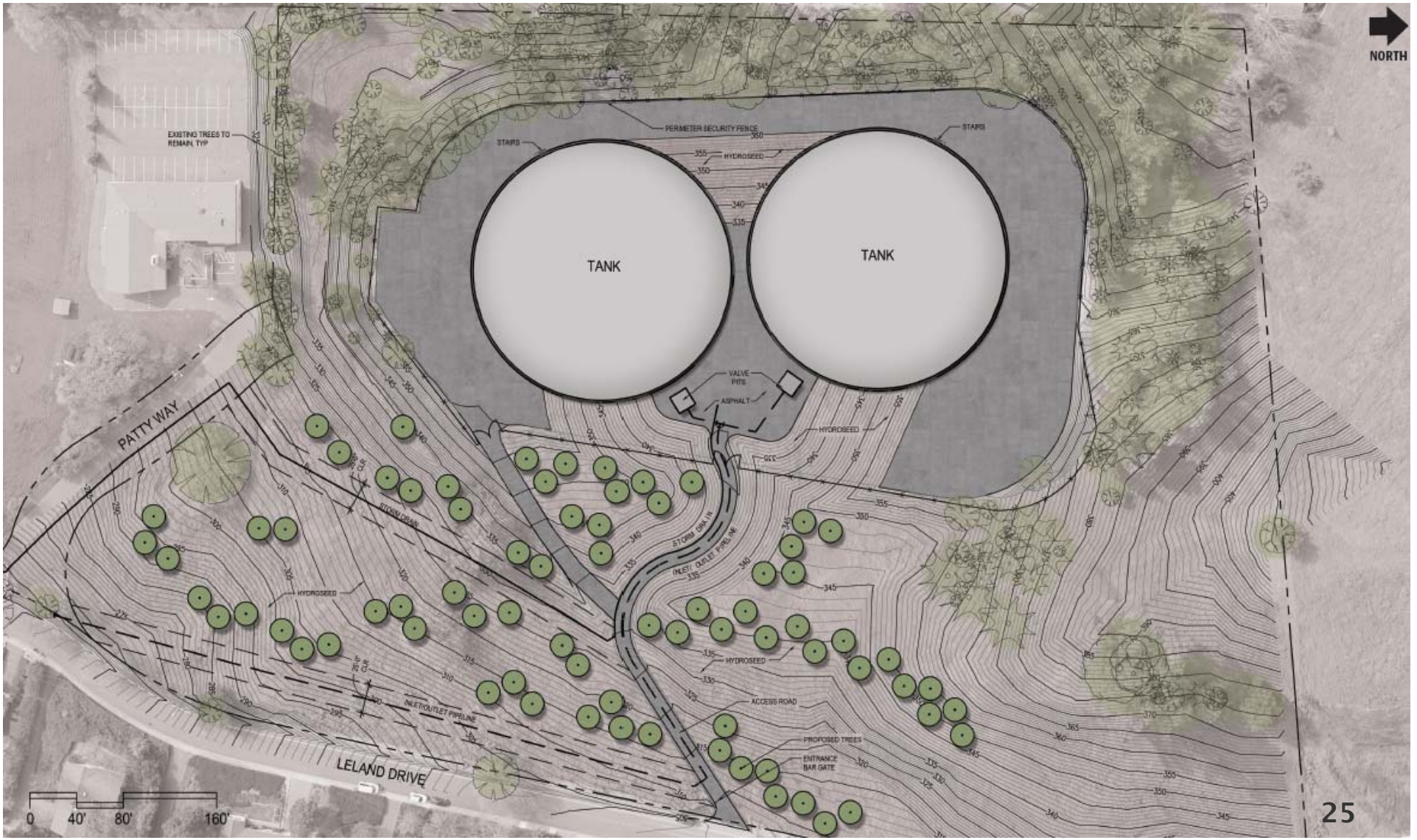
Off haul

~ 66,000 CY

Reservoir Construction

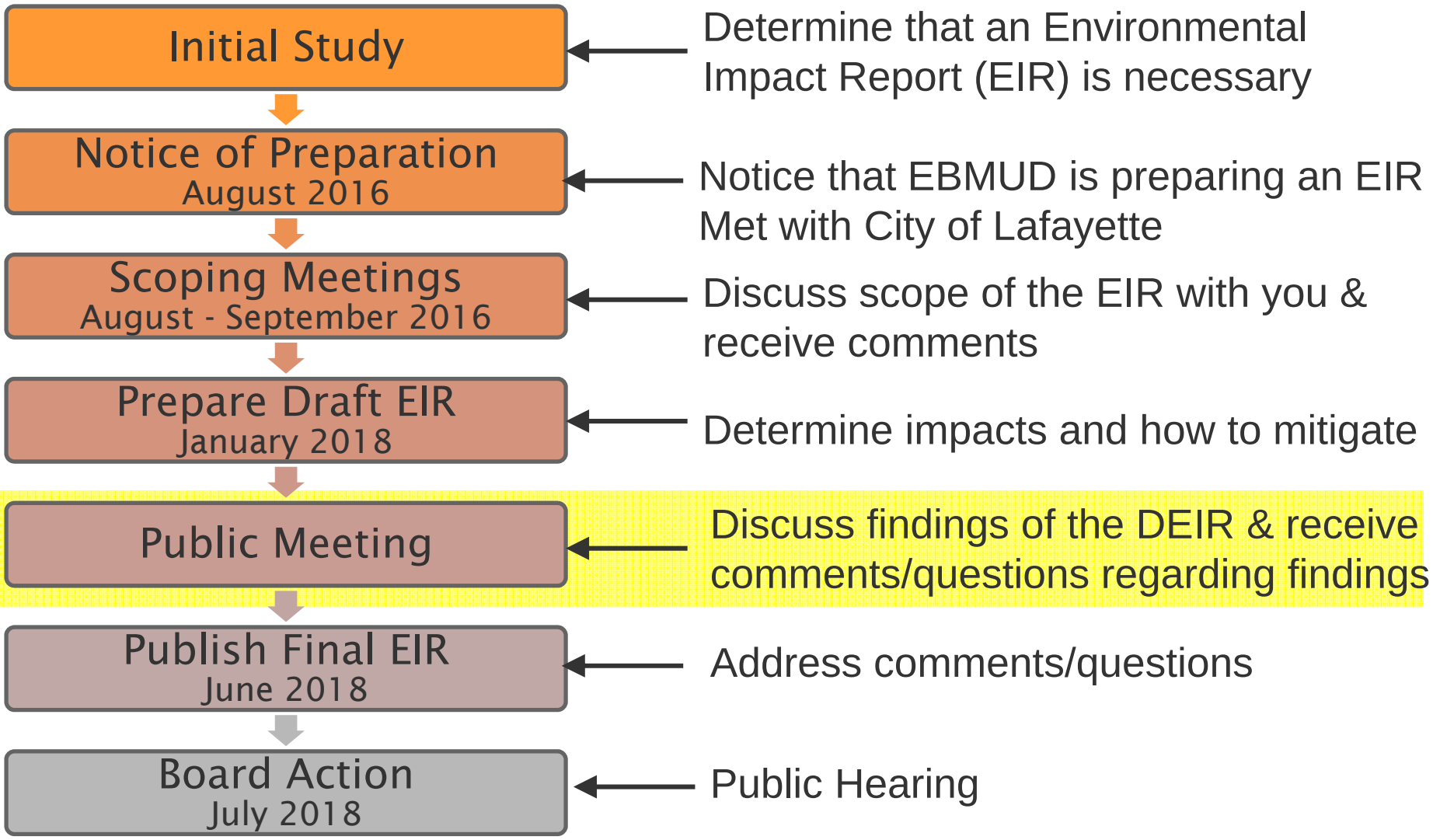
- Approximately 90 trees to be removed (~470 trees onsite)

Reservoir Construction – Site Layout



Project Site Layout

CEQA Planning Process & Purpose



What is an EIR?

- Purpose:
  - To inform the public of the environmental consequences of projects
- EIR is required:
  - When there is potential that a project may have significant impacts

Explanation of CEQA Terms

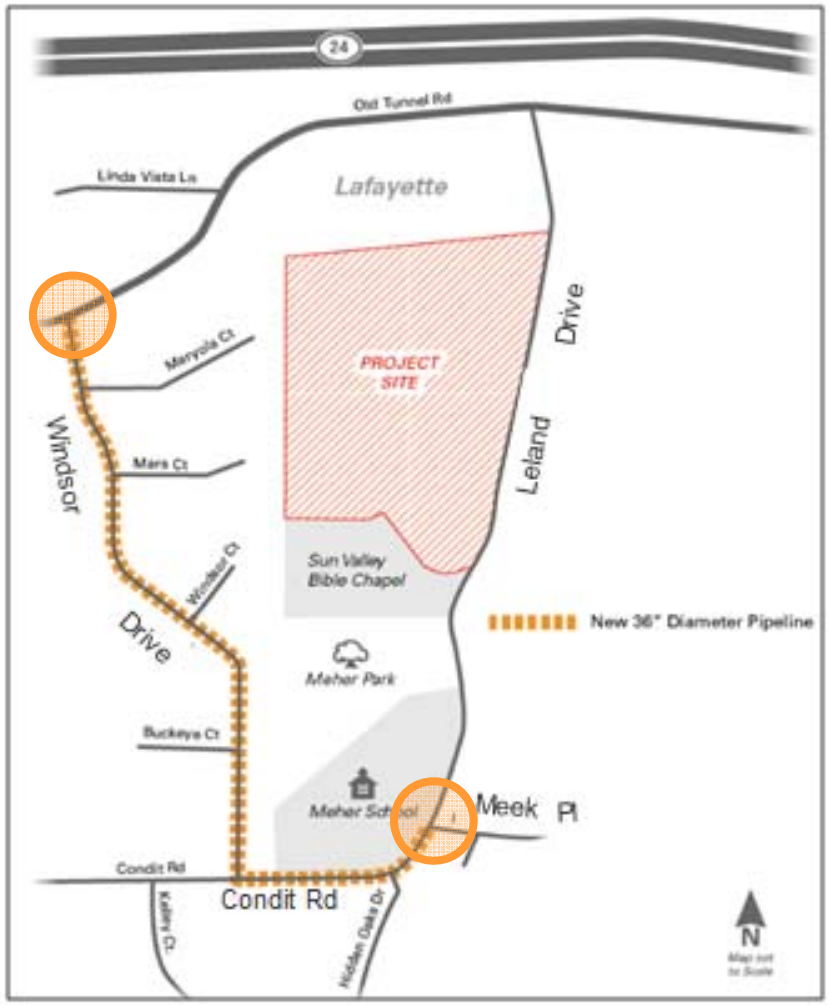
- Each environmental factor (such as traffic) has significance thresholds
- EIR analysis determines extent of impacts
  -Results in determination
- Possible impact determinations are:
  - **Less than significant** – impact is below the threshold
  - **Less than significant with mitigation** – impact would exceed threshold, but measures can be implemented to reduce it to below the threshold
  - **Significant and unavoidable** – impact exceeds threshold, and mitigation cannot reduce the impact below the threshold

EIR Analysis of Impacts

Environmental Factors	Less than Significant	Less than Significant with Mitigation	Significant and Unavoidable
Aesthetics		√	
Air Quality	√		
Biological		√	
Cultural	√		
Energy	√		
Geology	√		
GHGs	√		
Hazards		√	
Hydrology	√		
Noise			√
Recreation	√		
Traffic		√	

Aesthetic Mitigations

- Shield and direct night lighting
  - Pipe connections

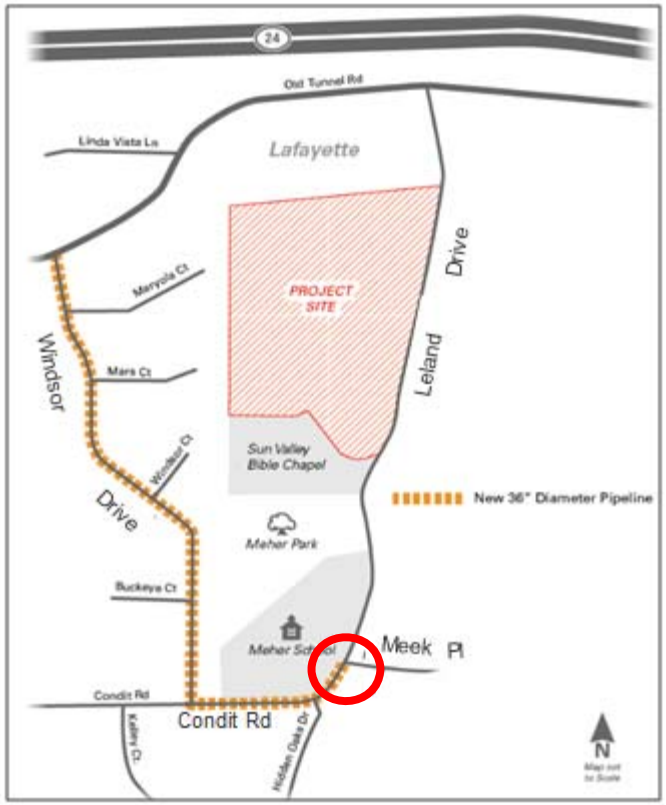


Traffic Hazard Mitigations

- Maintain Emergency Access
  - At least 7 days in advance of partial or full road closures notify:
    - Emergency responders (i.e., police, fire, and ambulance service)
    - Residents, businesses, schools, etc. within 300 feet of construction zone
    - Project mailing list

Traffic & Transportation Mitigations

- Traffic control measures to ensure access to Windsor Drive, Condit Road, and Leland Drive
- Avoid Truck Trips in front of Meher School during peak drop off & pickup times
  - 8 am to 9 am & 1:45 pm to 2:45 pm, if feasible or
  - Provide additional flaggers on Leland Drive to manage traffic flow and maintain traffic safety

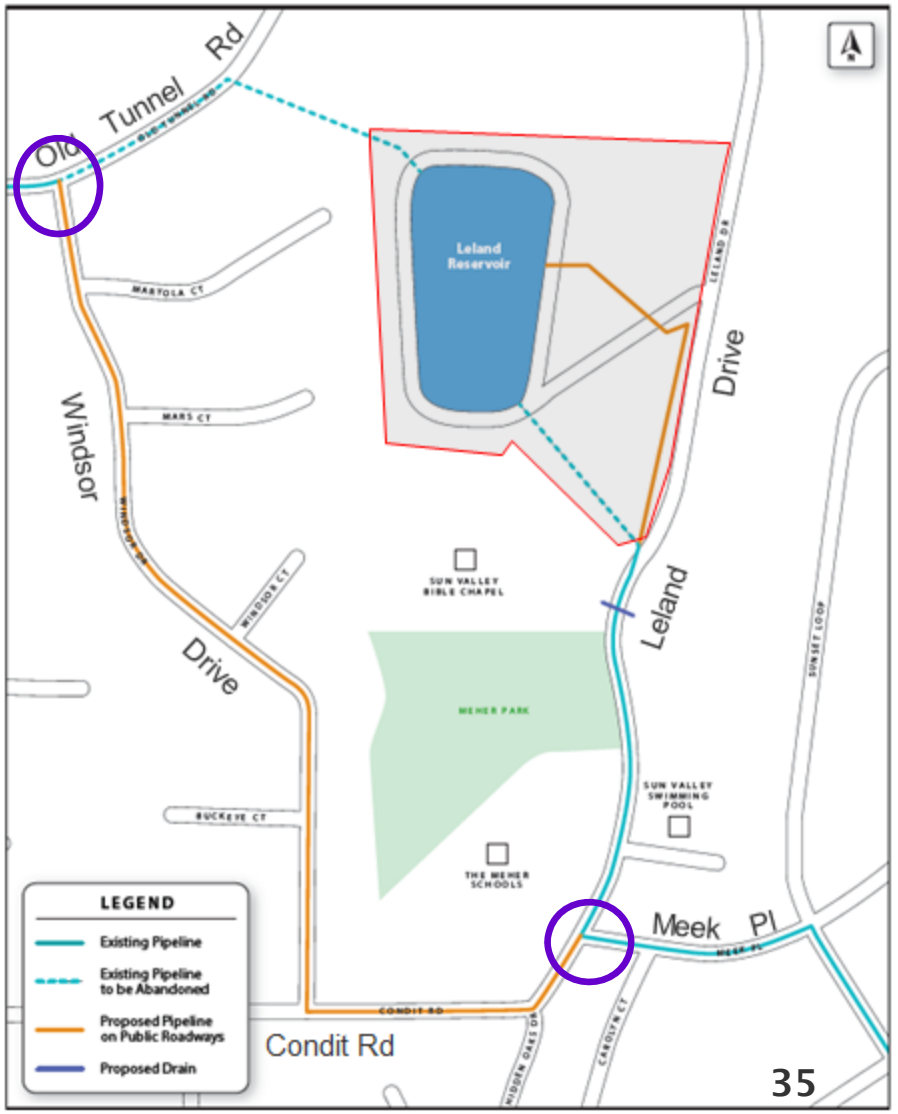


Noise Mitigations

- Concrete Crusher - Minimum set back distance
- Hoe Ram – Temporary Sound Barrier

Noise: Significant & Unavoidable

- Construction work starting before 8:00 am
- Some equipment exceeds noise ordinance limits
- Nighttime noise levels exceed sleep disturbance thresholds
  - 24-hour pipeline tie-in connection work
  - Notify residents within 500’ at least 10 days in advance
  - Provide alternative lodging, if requested



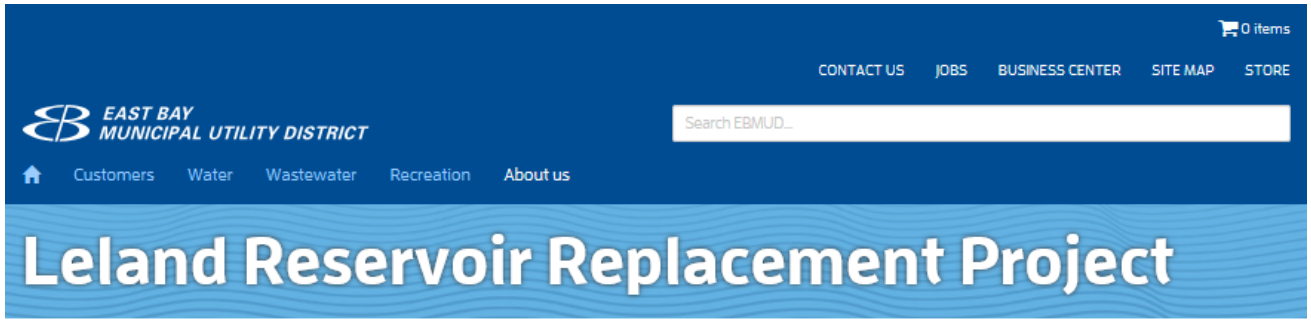
Next Steps

- Comment Period
  - January 25 – March 12, 2018
- Release Final EIR
  - June 2018
- Board Action/ Final EIR
  - July 2018

- Design 2020-2022
- Construction 2022-2025

Project Website

- www.ebmud.com/lelandreservoir

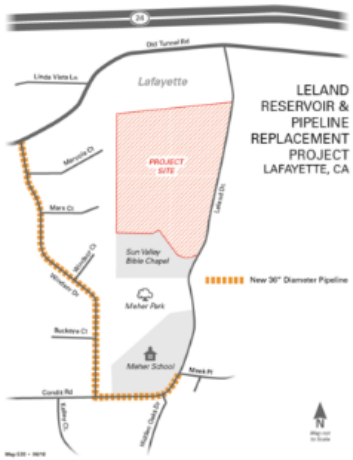


Home / About us / Construction in my neighborhood / Leland Reservoir Replacement Project

The East Bay Municipal Utility District is replacing an 18-million-gallon reservoir/tank, located on a 14.5 acre EBMUD site opposite 1050 Leland Drive in Lafayette. Known as the Leland Reservoir and constructed 1955, it serves the surrounding area and is approaching the end of its service life.

The reservoir will be demolished and replaced with two smaller and more seismically resilient concrete tanks within the existing reservoir basin. The existing access road would be rebuilt and realigned.

In addition to replacing the Reservoir, a 36-inch-diameter water pipeline will need to be set in the streets around the project site. Approximately 2,700 feet of 36-inch-diameter pipeline would be installed in Windsor Drive, Condit Road, and Leland Drive, and approximately 950 feet of 36-inch-diameter pipe would be installed on the Leland Reservoir site. The project is part of our on-going efforts to update and replace aging facilities, to maintain high water quality, and to insure reliability.



Construction is expected to occur over a three-year period, from 2022-2025.

When EBMUD crews are in your neighborhood
Pipeline repairs reveal water legacy
Flushing water lines
Panoramic Hill improvements
Summit Reservoir Replacement
West of Hills Northern Pipelines
Almond Pumping Plant replacement and associated projects
Chabot Dam Upgrade
South Reservoir Replacement
Recycled Water Pipeline - MacArthur Maze/Emeryville
Recycled Water Pipeline - Shellmound-Christie/Emeryville
San Pablo Water Treatment Plant Upgrade
Diablo Vista Pumping Plant Replacement
Water Treatment and Transmission Improvements Program
39th Avenue Reservoir Replacement
Dingee Pipeline, Claremont Aqueduct, and Related

Project Website

Published Studies and Other Resources

Document	Type	Size
Leland Reservoir Draft Environmental Impact Report	PDF	6.4 MB
Leland Reservoir Draft Environmental Impact Report Appendices	PDF	32.0 MB
September 28, 2016 Windsor Drive Neighborhood Watch Group Meeting Q&A	PDF	<1 MB
September 15, 2016 Leland Reservoir Public Meeting Q&A	PDF	<1 MB
September 15, 2016 Leland Reservoir Meeting Presentation	PDF	12.6 MB
Leland Reservoir and Pipeline Project Initial Study	PDF	1.1 MB
NOP Leland Reservoir Replacement Project	PDF	<1 MB
August 3, 2016 Public Meeting Q&A	PDF	<1 MB
August 3, 2016 Leland Reservoir Public Meeting Presentation	PDF	14.6 MB

EIR Availability and Comment Period Deadline

- EIR is available:
  - www.ebmud.com/lelandreservoir
  - Lafayette Public Library

- Draft EIR comments due by March 12, 2018:
  - lelandreservoir@ebmud.com
  - Oscar Herrera, Project Manager

    375 Eleventh Street, MS 701

    Oakland, CA 94607-4240

Thanks for Participating

- Send general questions about EBMUD:

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Questions/Comments