



EAST BAY MUNICIPAL UTILITY DISTRICT

Happy Valley Pumping Plant Pipeline Supplemental EIR

Orinda Public Meeting

June 8, 2010

Project Team



- EBMUD
 - Bill Kirkpatrick, PE, Division Manager
 - Harvey Hanoian, PE, Senior Planner
 - David Katzev, PE, Project Manager
 - Serge Terentieff, PE, Senior Design Engineer
 - Nora Harlow, Community Affairs Rep.
- ESA Consultants
 - Jill Hamilton, Bay Area Manager
 - Josh Ferris, Project Manager

Goals for Meeting



- Project Background
- Completed Construction
- Alternative Pipeline Routes
- Recommended Route
- Supplemental EIR
- Project Schedule
- Q&A

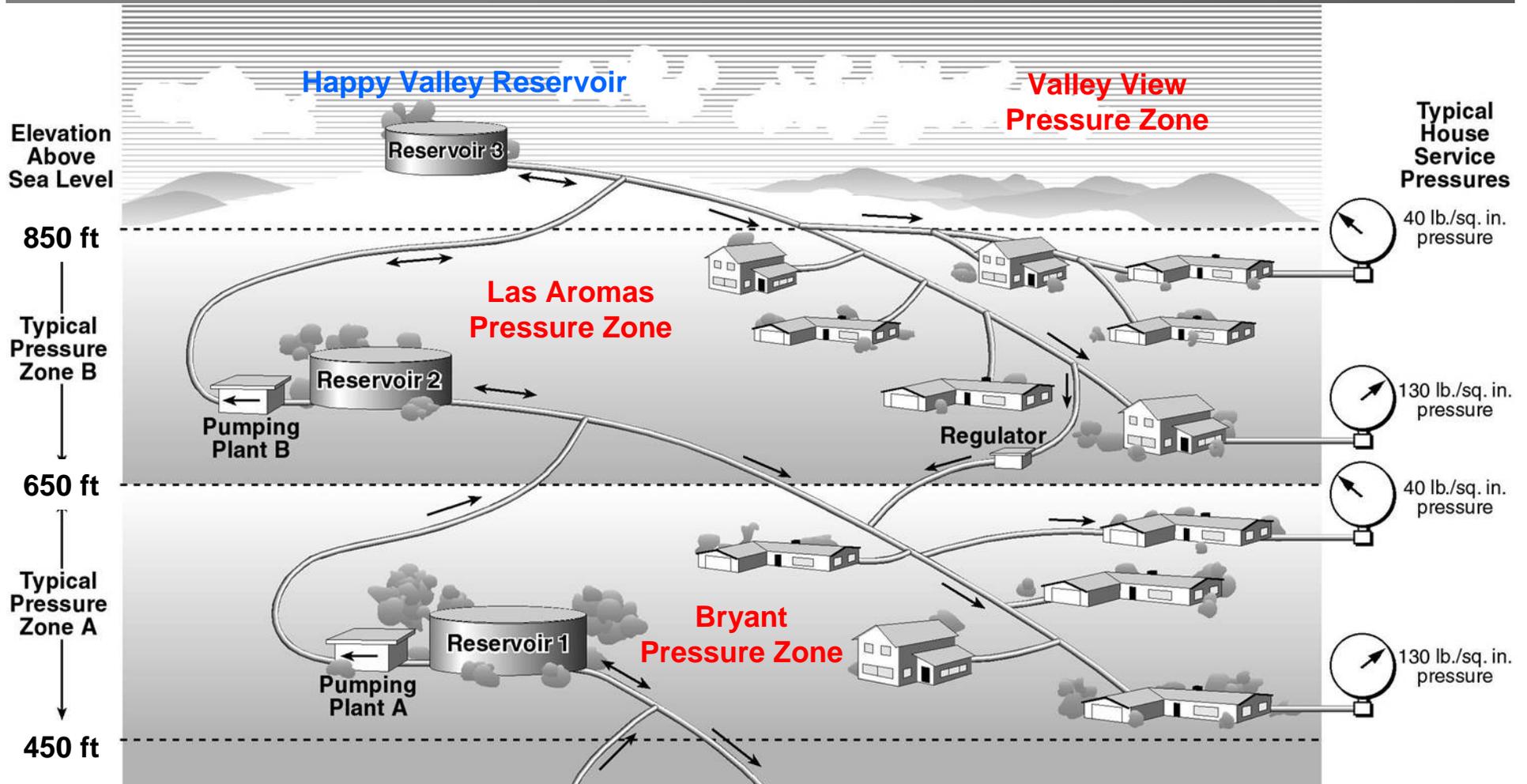
Project Overview



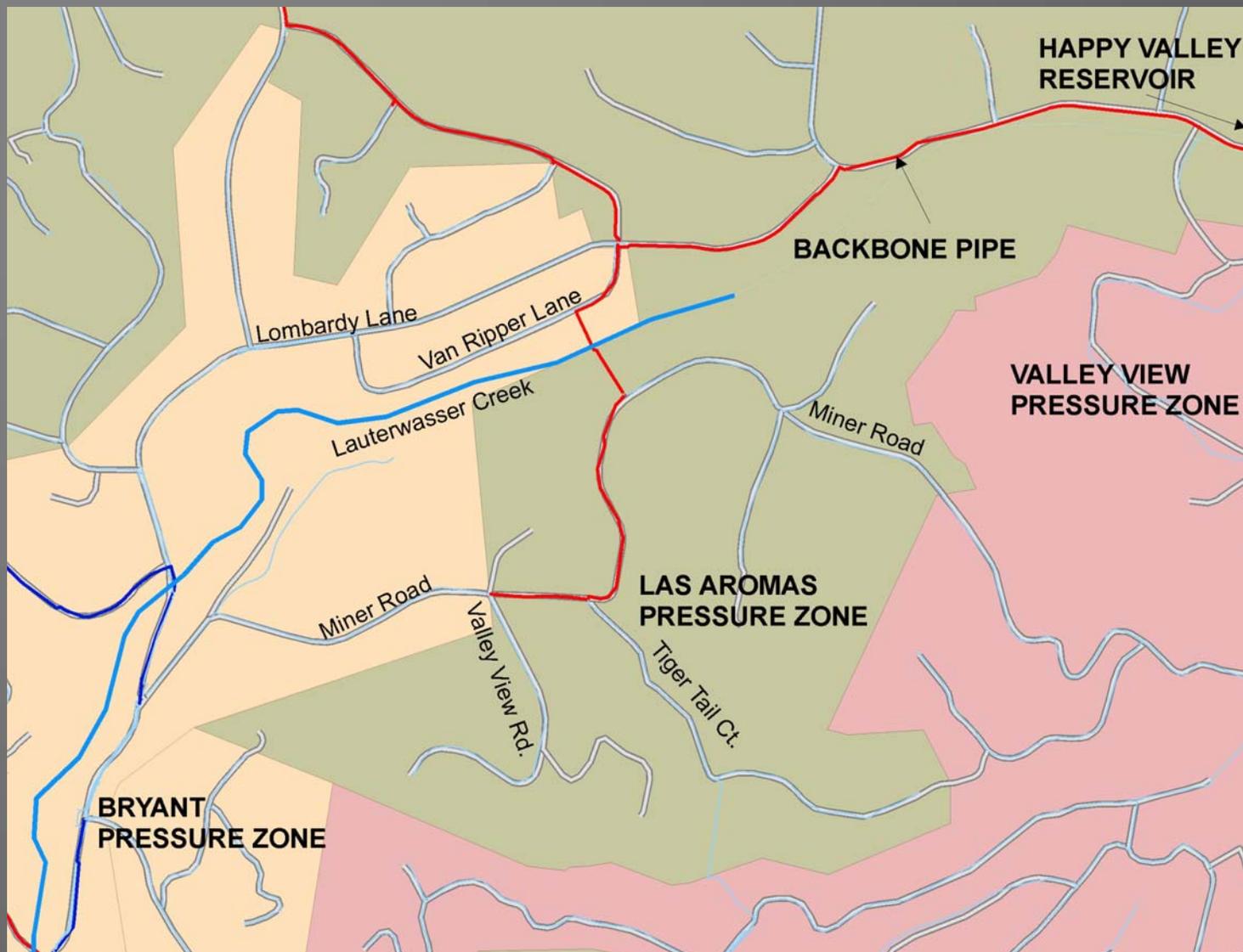
Happy Valley Pumping Plant and Pipeline

- Water Treatment and Transmission Improvements Program (WTTIP), Environmental Impact Report (EIR) certified in December 2006
- Project includes new pumping plant and new 16-inch pipeline
- Project solves inadequate pumping capacity and expected maximum water demands by the year 2030
- Construction of pipeline separated into 2 phases

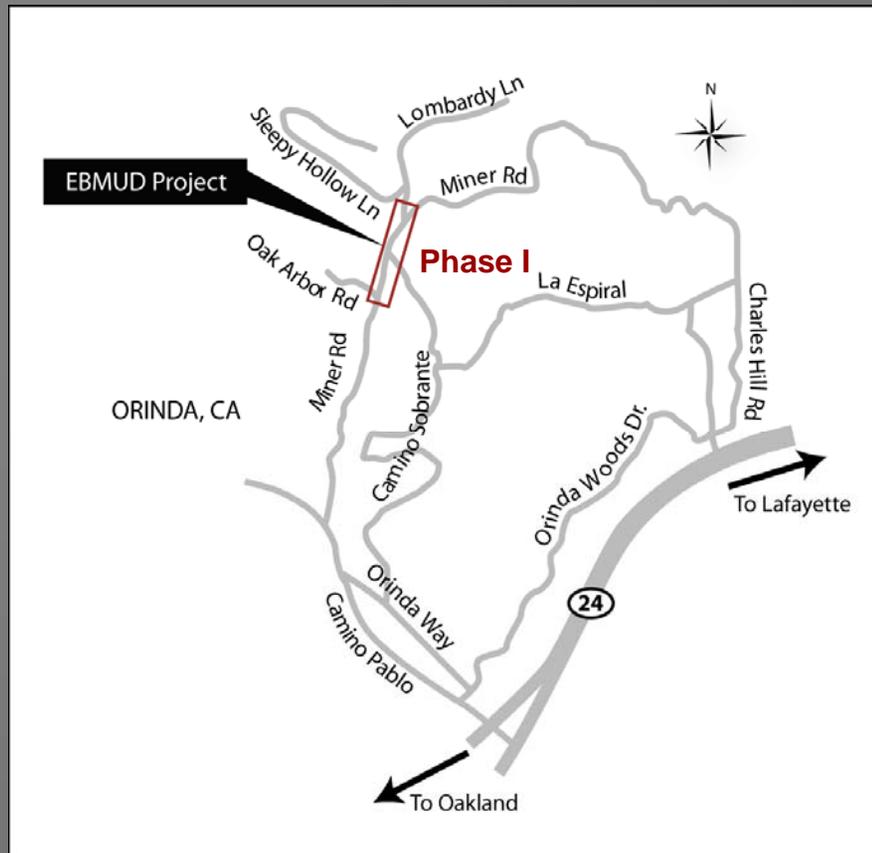
Typical Pressure Zone Schematic



Las Aromas Pressure Zone



Phase I Construction (complete)



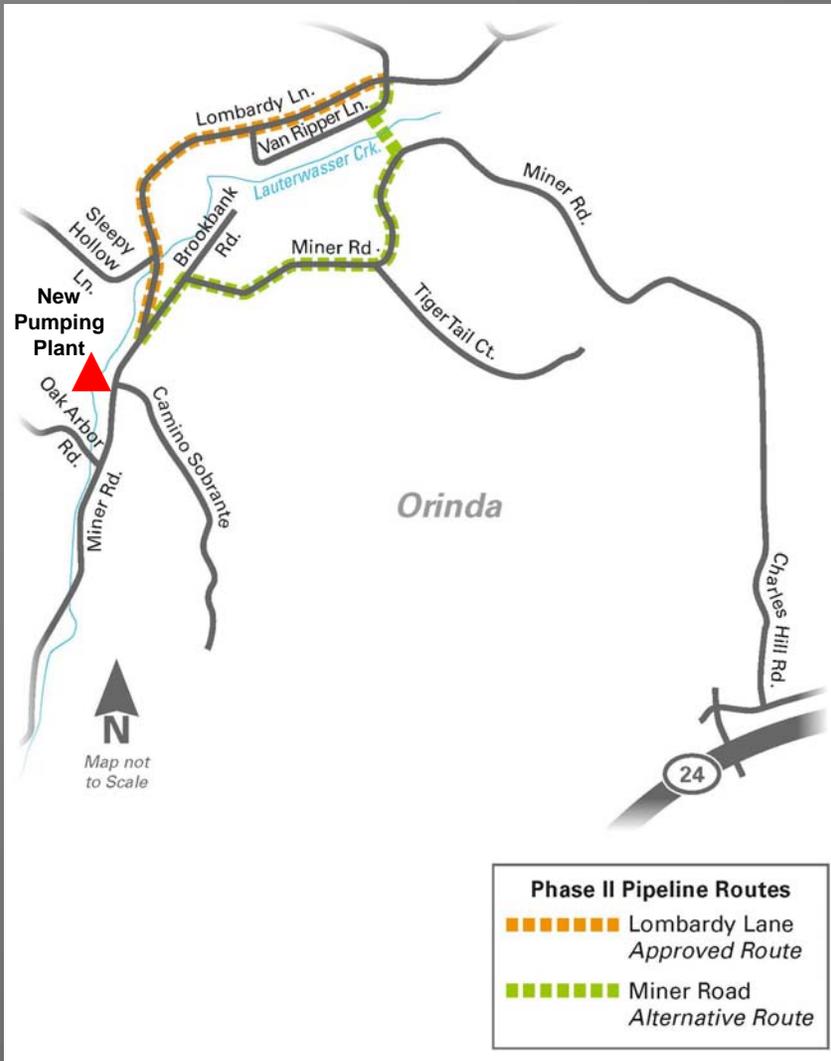
- 1,400 feet of new 16" pipe
- Completed summer 2009
- Full road closure on Miner Road with work hours from 9AM to 9PM
- Pipeline installation completed in one month (6/15/09 to 7/15/09)

Phase I Construction



Phase I Construction

Phase II (summer 2013)



Lombardy Lane

- WTTIP EIR approved route up Lombardy Lane
- 3,900 feet of new 16" pipe

Miner Road

- Requires Supplemental Environmental Impact Report (SEIR)
- 3,300 feet of new 16" pipe

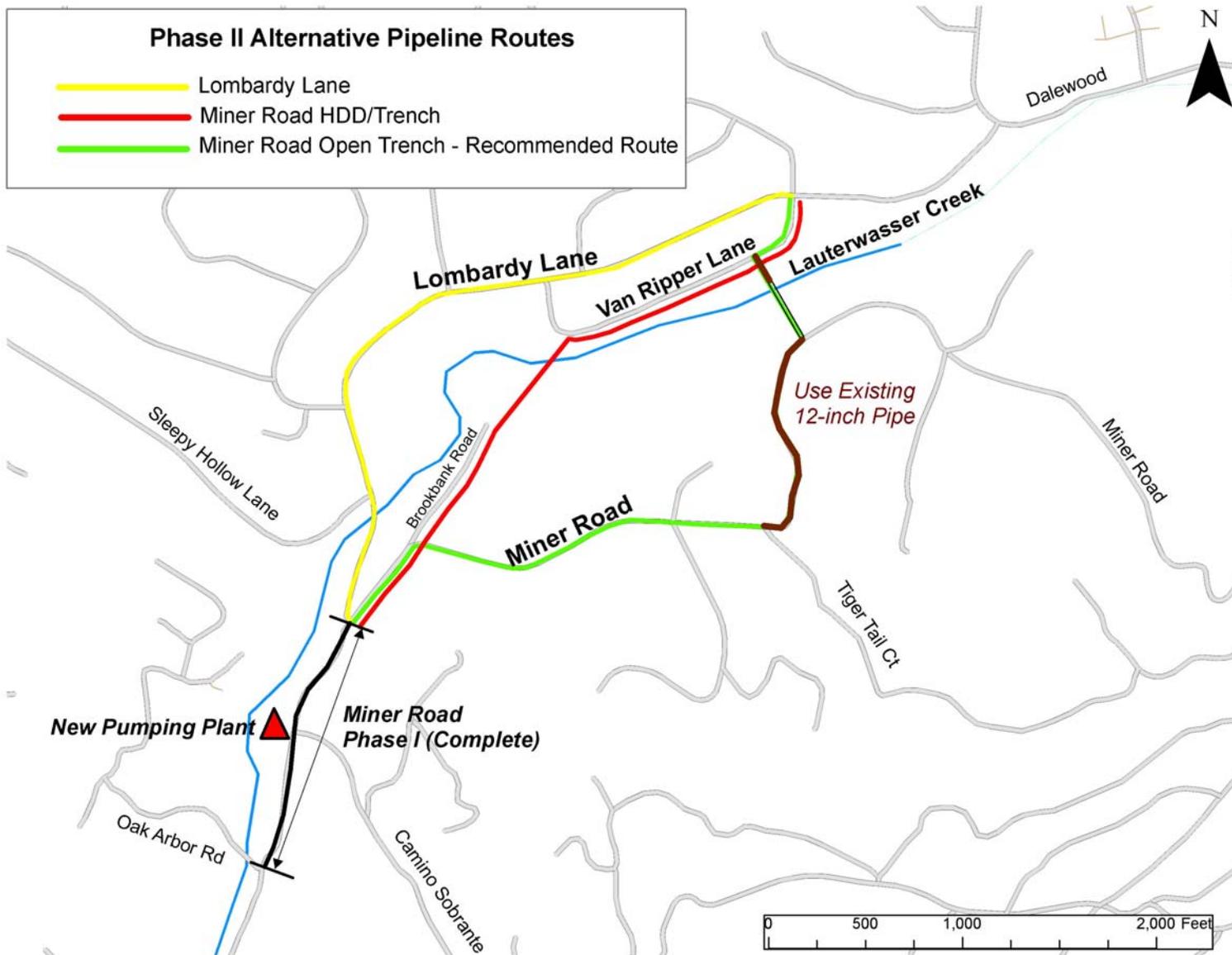
Lombardy Lane



- Underground utility congestion: 2 water lines, 2 gas lines, and 2 sewer lines
- Settlement agreement with Orinda - District to investigate options to minimize road closures
- Analysis of alternative construction techniques and alternative pipeline alignments



Alternative Pipeline Routes



Miner Road Recommended Project



- Less existing utility congestion – 3 existing utilities in Miner while Lombardy has 6 existing utilities
- Reduces traffic impacts – 3 times less traffic than Lombardy
- Shorter length of new pipe construction – 3,300 feet for Miner and 3,900 feet for Lombardy
- Shorter construction duration than Lombardy



Miner Road

Miner Road Recommended Project



Lauterwasser Creek

- Backbone pipe
- 1946 pipe with leak history
- Provides water distribution and fire flow to isolated Miner Road neighborhood
- Without backbone pipe, fire flows in isolated Miner Road neighborhood decrease by an average of 50%
- Pipe replacement nets two positive outcomes
 1. provides discharge pipe from pumping plant
 2. Replaces problematic backbone pipe in creek

Miner Road Recommended Project



- Construction limited to narrow 10-foot wide easement
- Mix of pipe bursting, small trenching, and/or hand digging
- Permits required
 - Department of Fish & Game
 - U.S. Corps of Engineers
 - Regional Water Quality Control Board



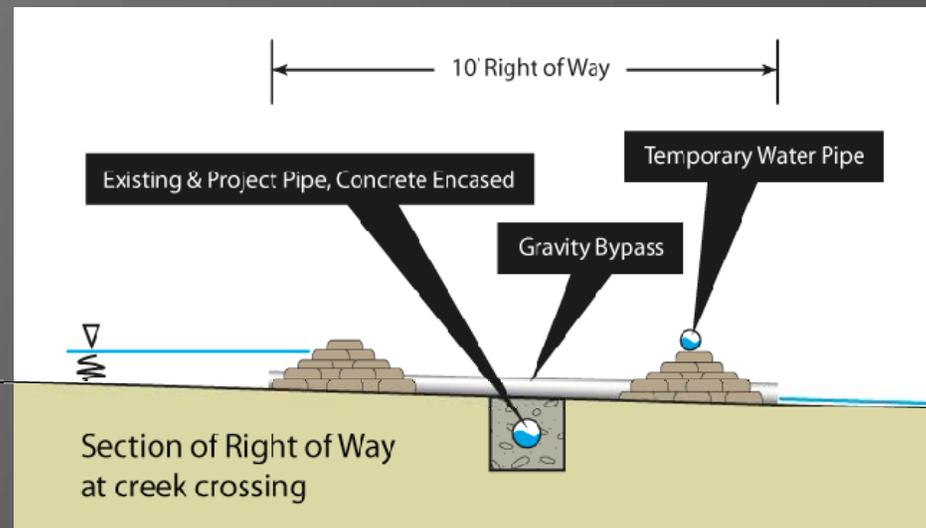
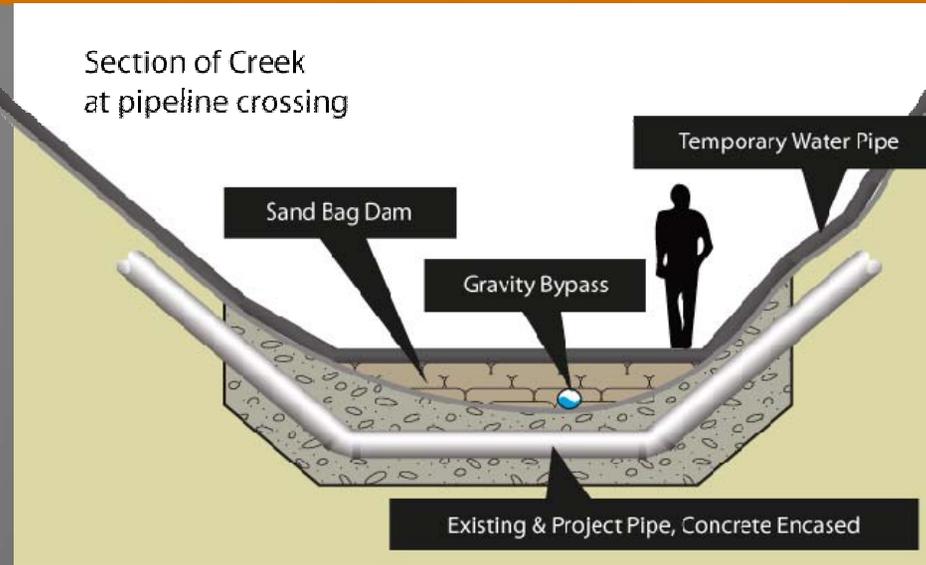
*557/559 Miner Road – Easement Center Line
(blue line)*

85/89 Van Ripper Lane



Easement Center Line (blue line)

Lauterwasser Creek Crossing



Cost Estimates



Item	Lombardy Lane (3,900 feet)	Miner Road (3,300 feet)
Design and Construction of Pipeline	\$2.4 million	\$1.8 million
Environmental Requirements	NA	\$0.5 million
Subtotal	\$2.4 million	\$2.3 million
Future Creek Crossing Replacement	\$0.6 million	Included
TOTAL	\$3.0 million	\$2.3 million

Supplemental EIR



- Supplemental EIR will focus solely on project changes
- Topics for Supplemental EIR include:
 - Traffic
 - Biological Resources
 - Noise and Vibration
 - Hydrology and Water Quality
 - Geology, Soils, and Seismicity
 - Air Quality & Greenhouse Gas Emissions
 - Land Use and Visual Quality

Project Schedule



Circulate Draft SEIR	September 2010
45 day review period	September/October 2010
Public Meeting #2	October 2010
Final SEIR preparation	November 2010
Board consideration	December 2010

Permits	2011/2012
Design pipeline	2012
Construct pipeline	Summer of 2013

Contact Information



- Project information at www.ebmud.com and select Project Updates
- Email questions to: happy.valley.pipeline@ebmud.com
- Call Nora Harlow at 510-287-0140