



*EAST BAY MUNICIPAL UTILITY DISTRICT*

# **Lead Sampling at K-12 Schools**

Planning Committee

July 11, 2017

# Background



- State Water Resources Control Board (SWRCB) issued Water Supply Permit Amendment in December 2016
- Public Water Systems (PWS) must sample for lead at K-12 schools within their service area
- School districts must request sampling

# Permit Amendment Requirements



- PWS must submit list of all K-12 schools in service area to SWRCB – 520 for EBMUD
- Lead sampling performed upon written request
  - Maximum of 5 initial samples per school
  - Sampling must be completed within 90 days of request
  - November 1, 2019 request deadline
- Summary of sampling to be included in Annual CCR

# Roles and Responsibilities



- District meets with school district and develops/implements sampling plan
- Analysis by ELAP certified lab
- District assist in interpretation and offer repeat sampling if results exceed 15 ppb
- District not responsible for corrective action
- School district responsible for dissemination of results to its stakeholders

# Response to elevated results



- School district must be notified within 2 business days if any initial sampling site  $>15$  ppb
- Repeat sampling conducted within 10 business days unless the site is removed from service
- Repeat sampling continues until results  $\leq 15$  ppb or site is physically removed from service
- Potential corrective action by school

# School Requests to Date



School District	# Schools	Written Request Receipt	Sample Collection Completed
<b>Pilot (Complete)</b>			
Walnut Creek	7	2/2	4/28
Orinda Union	5	2/9	5/9
Acalanes Union High	5	2/23	5/17
<b>Remaining Requests Received</b>			
West Contra Costa Unified	52	3/23	By 12/31
San Lorenzo Unified	18	4/7	By 12/31

# Pilot Program



- District has completed sampling for first set of school districts that submitted requests
  - Walnut Creek, Orinda Union, Acalanes Union High
  - 17 schools
  - 81 samples collected
  - Below action level and comparable to LCR results
    - <0.04 to 2.9 ppb

# Next Steps



- Develop outreach plan to schools
- Hire Limited Term Supervisor
- Contract out Lead Sampling
  - Limited 2 year program
  - Potentially high peak workload
  - Estimated resources:
    - 20 hours per school for initial set of samples based on pilot - more if repeat sampling required
    - Up to 10,400 hours for initial planning, coordination, and sampling
    - Up to 2,650 initial samples for lab analysis
  - Sample collection and Lab analysis included

# Fiscal Impact



- Estimated costs range from \$2.3M-\$3.0M
- Funds are available in the FY18/19 budget

# Questions



# **The Demonstration Recharge Extraction and Aquifer Management (DREAM) Project**

## **Status Update**

**Planning Committee**

**July 11, 2017**

# Agenda



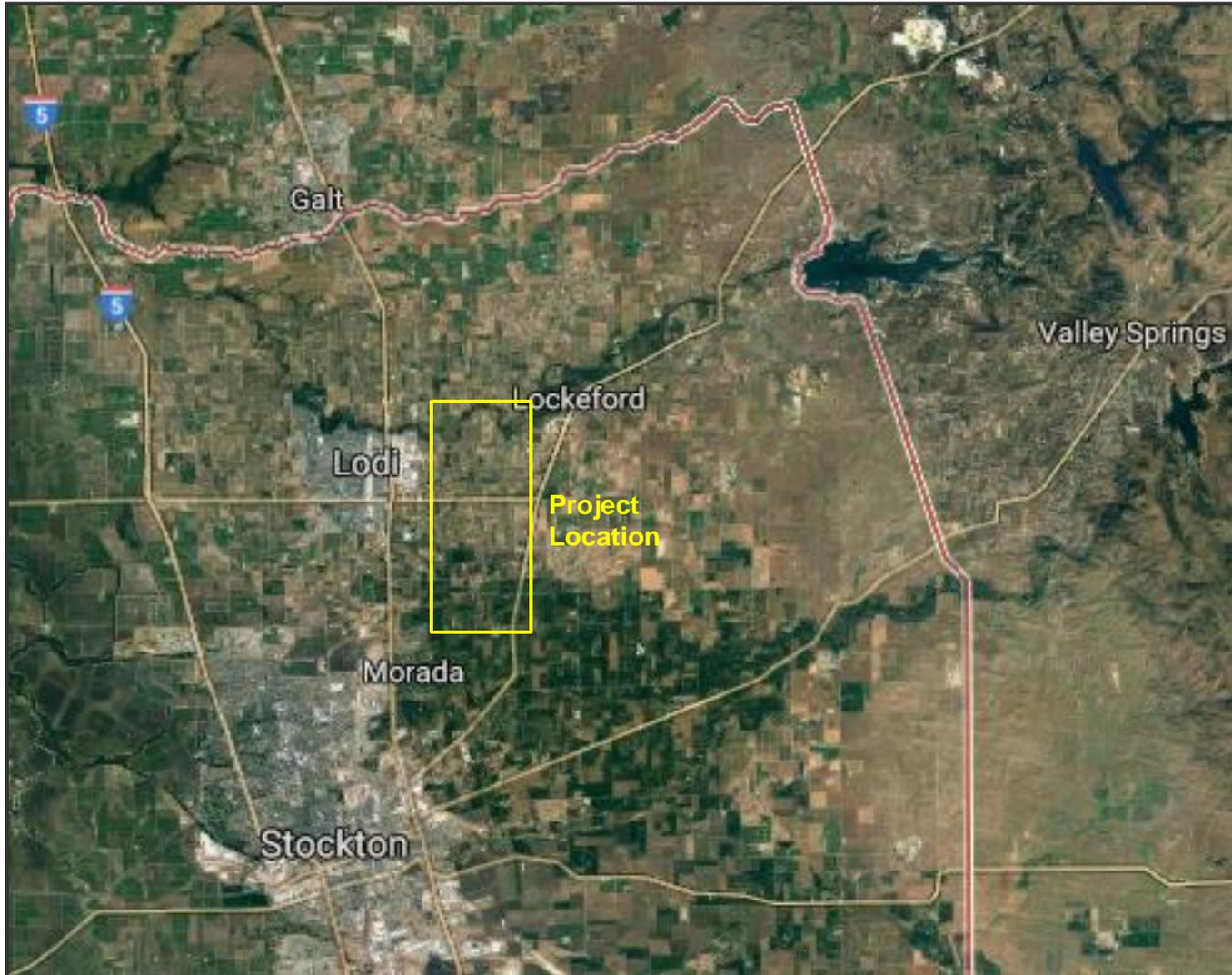
- Project Background and Concept
- Groundwater Export Permit
- Funding and Operations Agreements
- Next Steps

# The DREAM Project



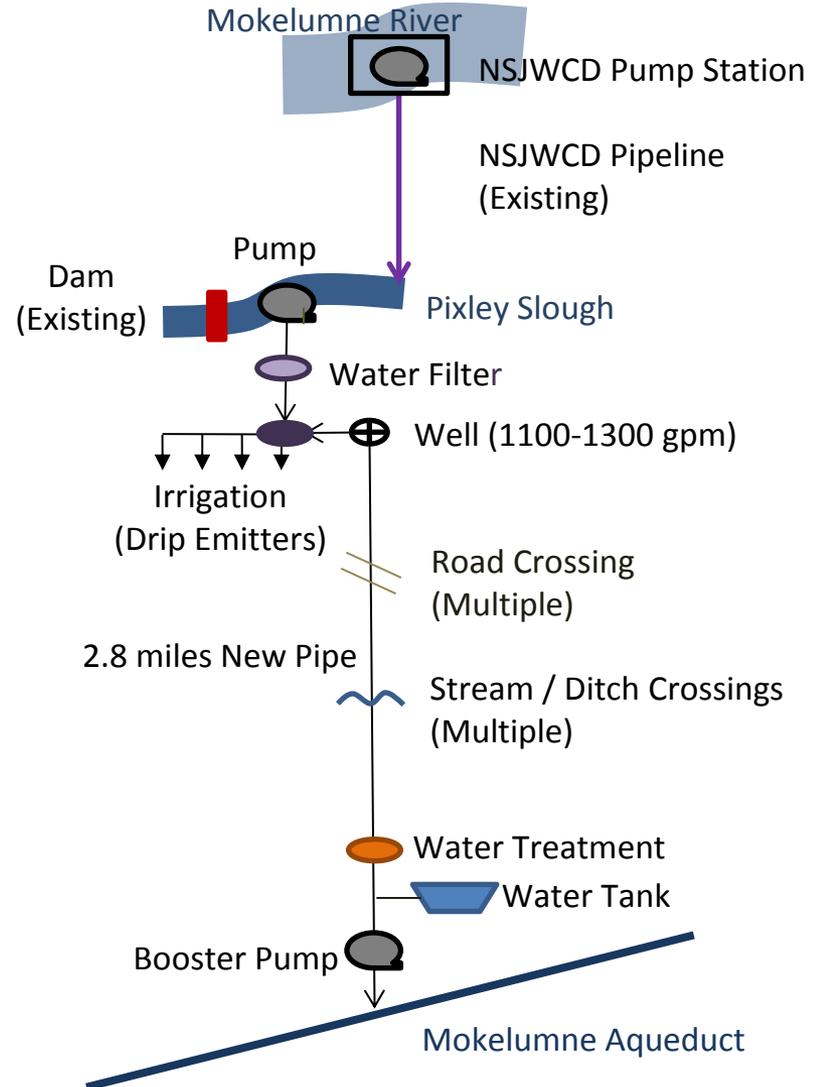
- Pilot groundwater banking project with San Joaquin County and the North San Joaquin Water Conservation District
- EBMUD provides 1,000 AF of Mokelumne River water for irrigation in place of groundwater pumping
- EBMUD can then pump up to 500 AF of groundwater

# Project Location



# Project Facilities

- New pump station and existing pipeline to convey Mokelumne River water to irrigation site
- Use existing well for extraction
- New pipeline to convey groundwater to EBMUD Mokelumne Aqueduct
- New Aqueduct tie-in and related features (tank, booster pump, filtration)



# A Major Milestone: Groundwater Export Permit



- San Joaquin County Board of Supervisors approved the Groundwater Export Permit on April 11, 2017
- Permit authorizes extraction of groundwater subject to certain conditions
- Establishes Monitoring Committee
  - Regular review of project operations, groundwater levels
  - Includes EBMUD representative as Ex-Officio member

# Project Funding & Operations Agreements



- Finalizing two project agreements with San Joaquin County and NSJWCD
- Funding Agreement
  - Mechanisms for tracking and reimbursement of project costs
  - EBMUD committed \$4 million to County for project costs
  - \$1.75 million to improve NSJWCD South System; \$2.25 million to design, construct, and operate project components
- Operations Agreement
  - Responsibilities for design, construction, and operation of various project components
  - EBMUD responsible for Mokelumne Aqueduct tie-in, water rights changes to allow diversion of Mokelumne River water

# Next Steps



- Funding and Operations Agreements will be brought to the Board later this summer
- Detailed design and construction
- Petition the SWRCB to make changes to water rights permit to allow diversion of Mokelumne River water to the project

# **Work Management Systems Replacement Project**

July 11, 2017

Planning Committee

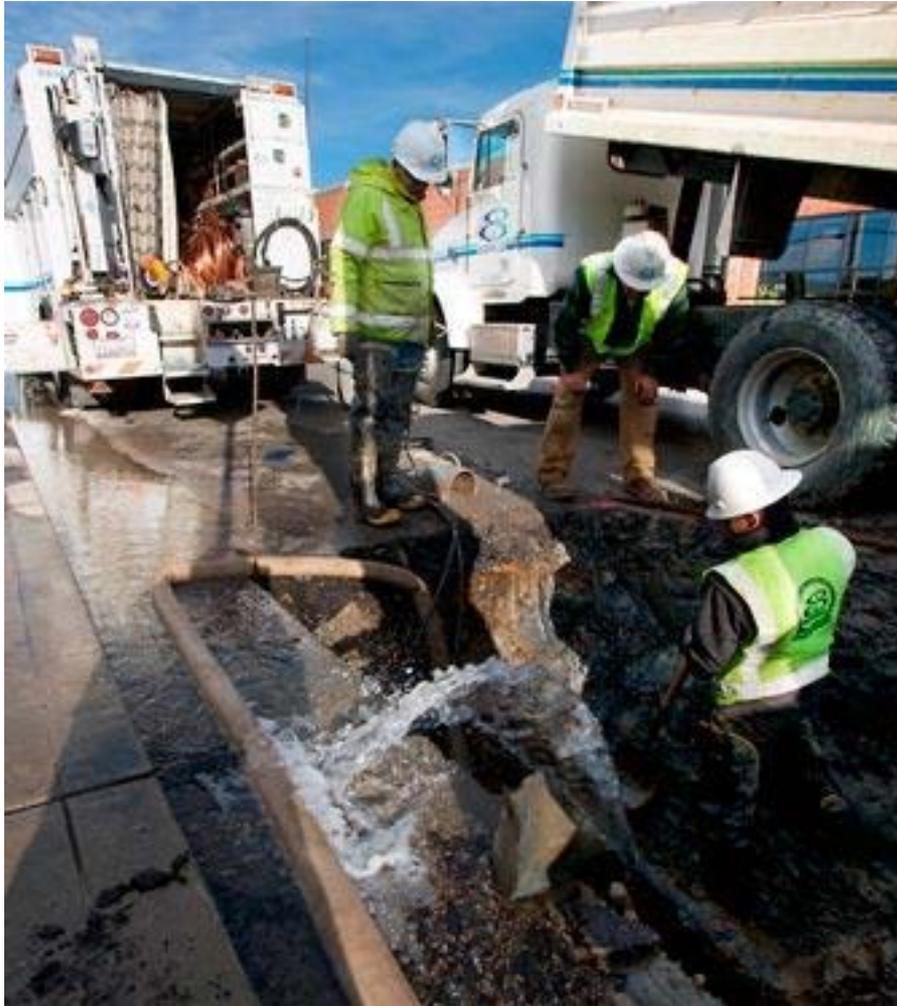
# Work Management Systems



- What do we have?
- What do we need?
- Challenges
- Next steps



# Legacy Systems



- More than a dozen different systems
  - Most over 15 years old
  - Both in-house & off-the shelf
  - Many obsolete
  - Not well integrated
  - Don't support current and future District needs

Order #	Status	Status Date	Last Updated By	Last Updated On	Total Hours	Closed By
1593681	OPEN	06/26/2017	WNOBREGA	06/26/2017	4.5	
Entered By: DWASHING		Entered On: 06/26/2017 06:18		Service No:	Construction status: In Progress	
Bldg	Fract	Street		Apt	City	Cross Street
		W	CUTTING	?	BL	RCH
ft		of	WINE	on	side of	CUTTING
Map	1455	524	Tap #	Meter #	Thomas Bros:	Page: Grid:
CS Flag:	No	GWO FEMA Code:	Service Improvement Nu:	Pressure Zone:	From CW SO#: 55771359	
Water Discharge?	Yes	Est Flow Rate GPM	50	DI Present?	No	DI Protected?
					N/A	Dams Deployed?
					No	Tablets Deployed?
					No	
Cause	EMERGENCY MAINTENANCE			Priority	5	?
Problem Description	UNK SOURCE OF WATER>> USA WILL BE ACTIVE UNTIL 07/24/2017 UPDATE 07/20/17				Pipe Ext	37705
				Backbone/Critical?		
				Property Damage?		
				Claim Filed?		
Damage Rpt?	No	Shut Down?	Yes	USA#	X717700017-00X	USA Notif. Due Date/Time
						06/26/2017 06:30
Permit #			Asphalt Removal	OT Code	# of Surveys Issued	DOCID:

### Enter Tasks Information

#### Current Tasks

Action	Device	Device #	Size	Assign To	Org	Qty
INVESTIGATE				WCOTY	722	1
Issue Date:	06/26/2017	Comp Date:	06/26/2017	Prog/Proj:	5729	Est Hrs:
						Act Hrs: 2
						ETS Hrs: 2.5

Comments: 12IN MNBREAK >> Y 50GPM DI PRSNT/PRTCTD (N)DAMS & TABS (N) >> WATER IS FLOWING IN STORM DRAINS>> DAMAGED COMC

Meter Reading:  Delete

Excavation Method:

#### Enter Service Lateral Information [Show/Hide Panel](#)

Action	Device	Device #	Size	Assign To	Org	Qty
REPAIR	MAIN	37705	12	PCANNON	723	1
Issue Date:	06/26/2017	Comp Date:		Prog/Proj:		Est Hrs:
						Act Hrs:
						ETS Hrs:

Comments:

Meter Reading:  Delete

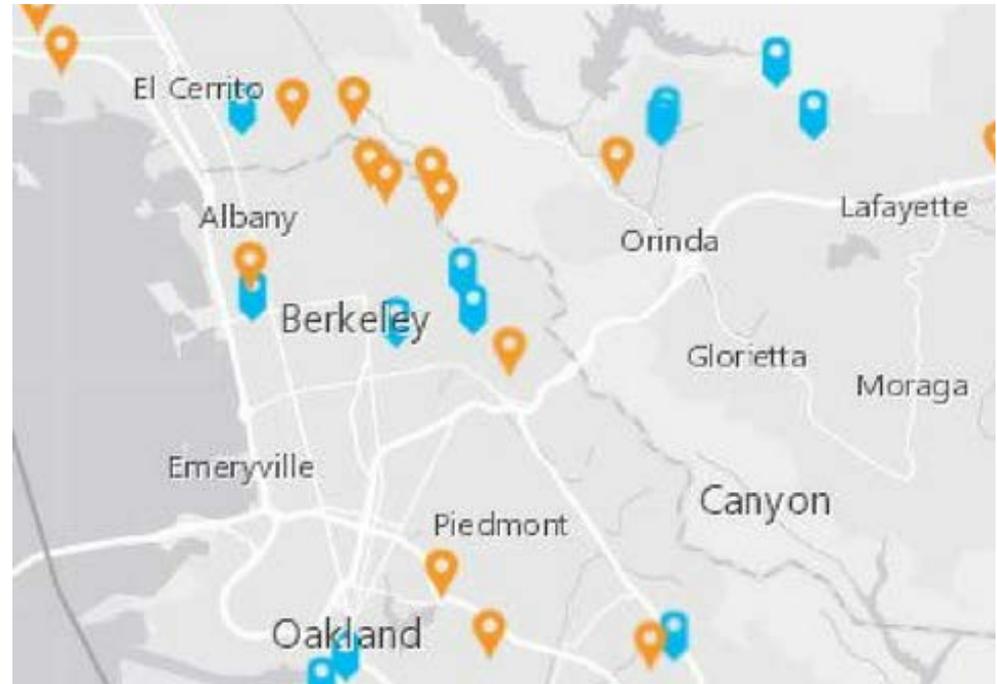
Excavation Method:

#### Enter Service Lateral Information [Show/Hide Panel](#)

# Modern Work Management Systems



- Higher field work efficiency
- Improvements
  - Real-time
  - Mapping/GIS
  - General Usability
  - Mobile and Field Support
  - Consolidated and Integrated



# Challenges



- Identifying what new workflows make sense
- Temporary integrations with existing work management systems
- Integration with non-work management systems
- Location data handling

# Technology Has Yet to Definitively Solve Location

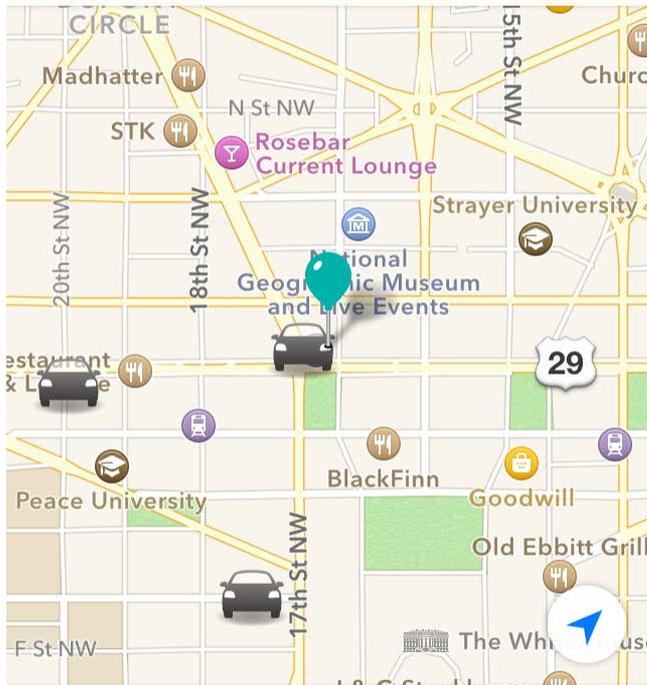


●●●○ Sprint LTE 10:36 AM 80%



Lyft

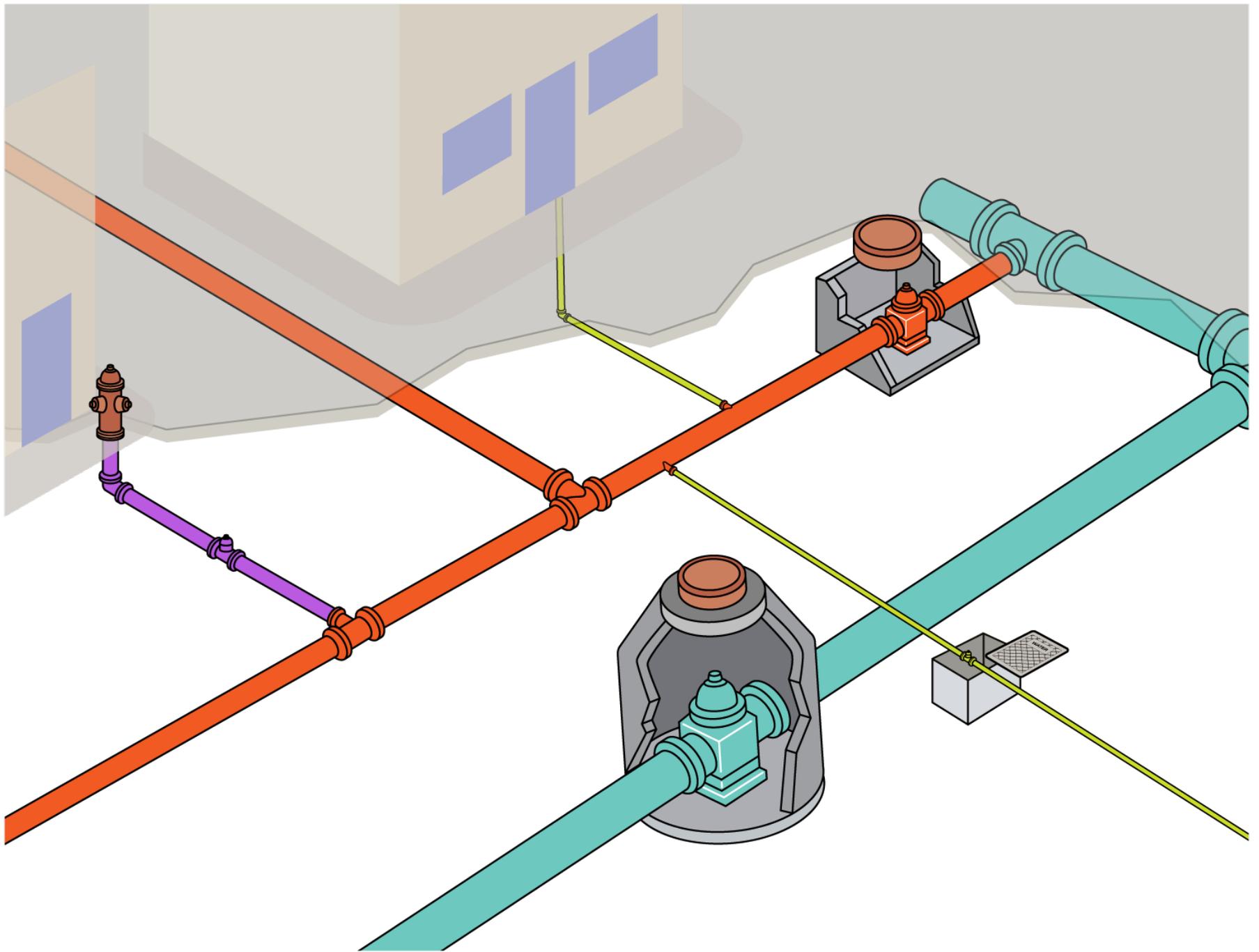
Plus



1701 K Street Northwest 2 MIN

Request Lyft





# Next Steps



- Evaluate current systems with help of Industry Experts
- Create Road Map to Replacement
- Initiate Replacement Project