

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 ≤ 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
Pilot (Complete)			
Walnut Creek	7	2/2	4/28
Orinda Union	5	2/9	5/9
Acalanes Union High	5	2/23	5/17
Remaining Requests Received			
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



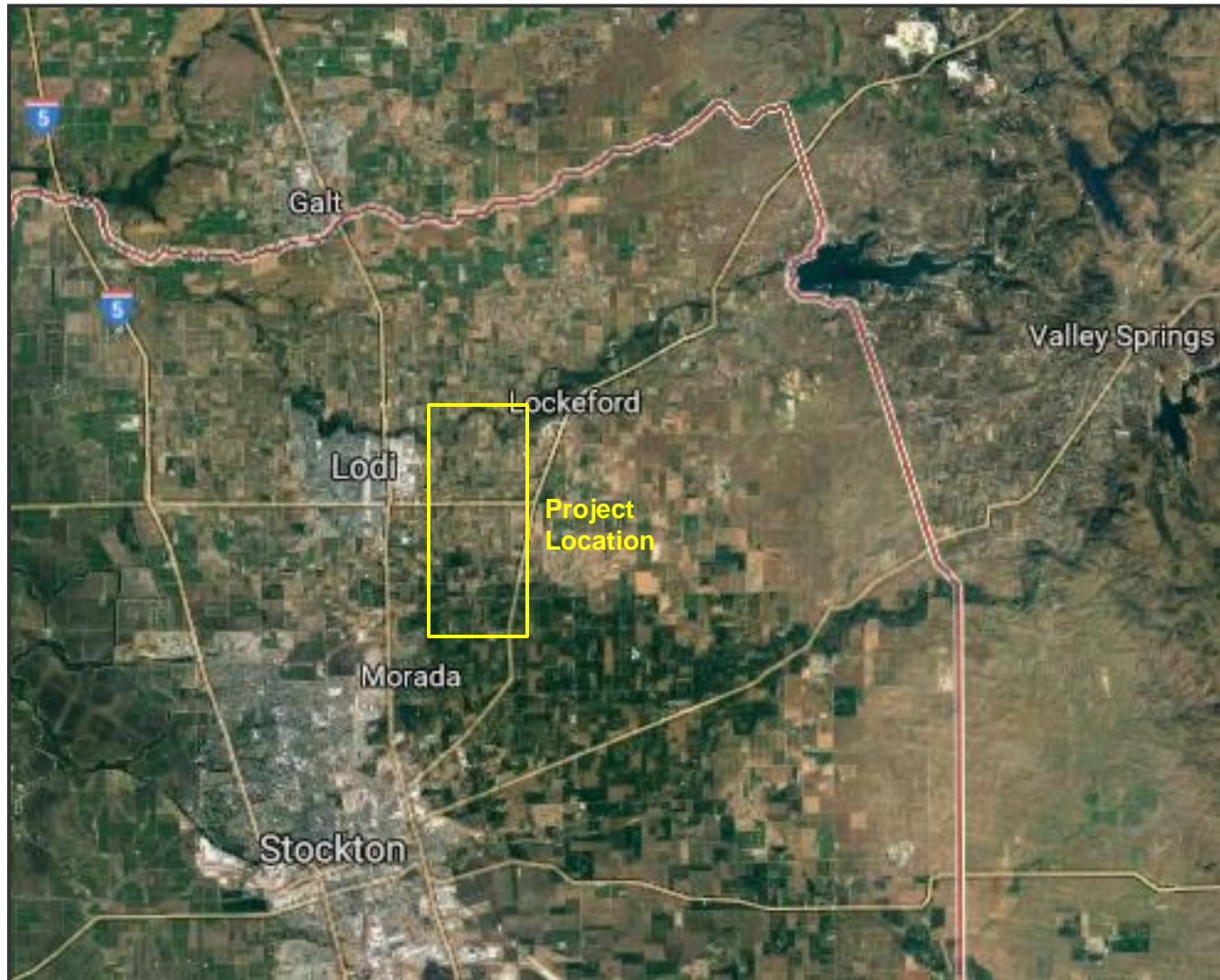
- Project Background and Concept
- Groundwater Export Permit
- Funding and Operations Agreements
- Next Steps

The DREAM Project



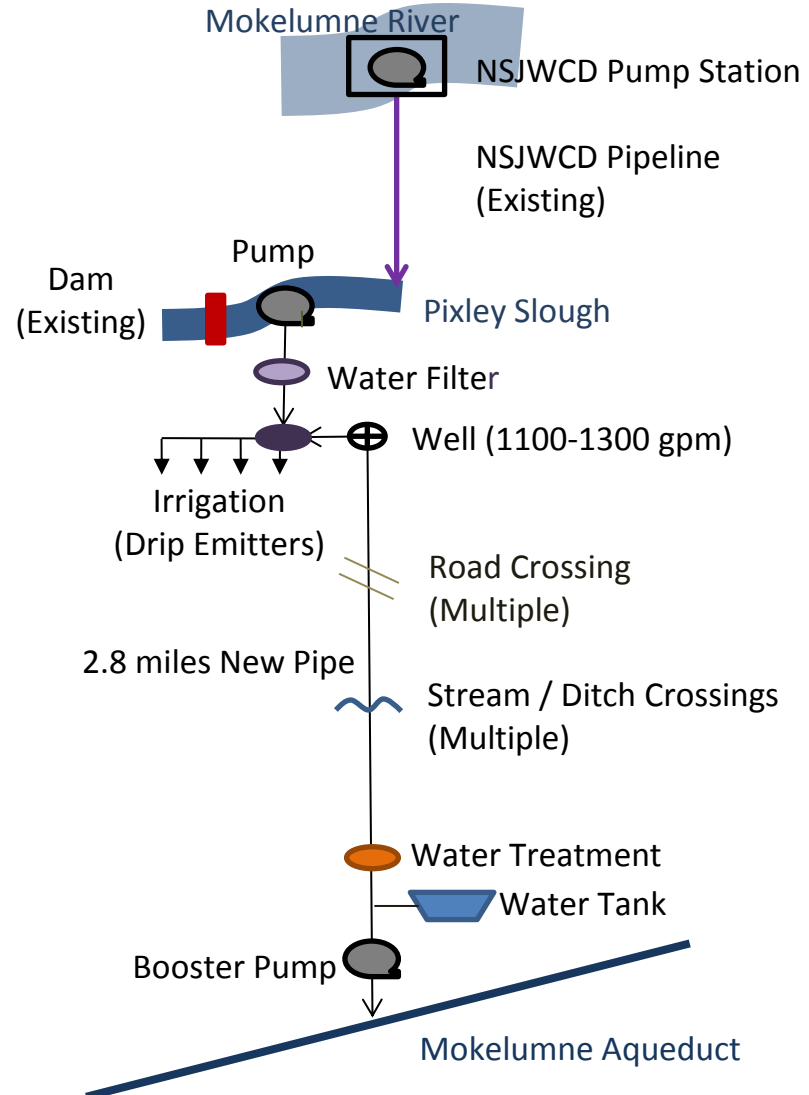
- Pilot groundwater banking project with San Joaquin County and the North San Joaquin Water Conservation District
- EBMUD provides 1,000 AF of Mokelumne River water for irrigation in place of groundwater pumping
- EBMUD can then pump up to 500 AF of groundwater

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

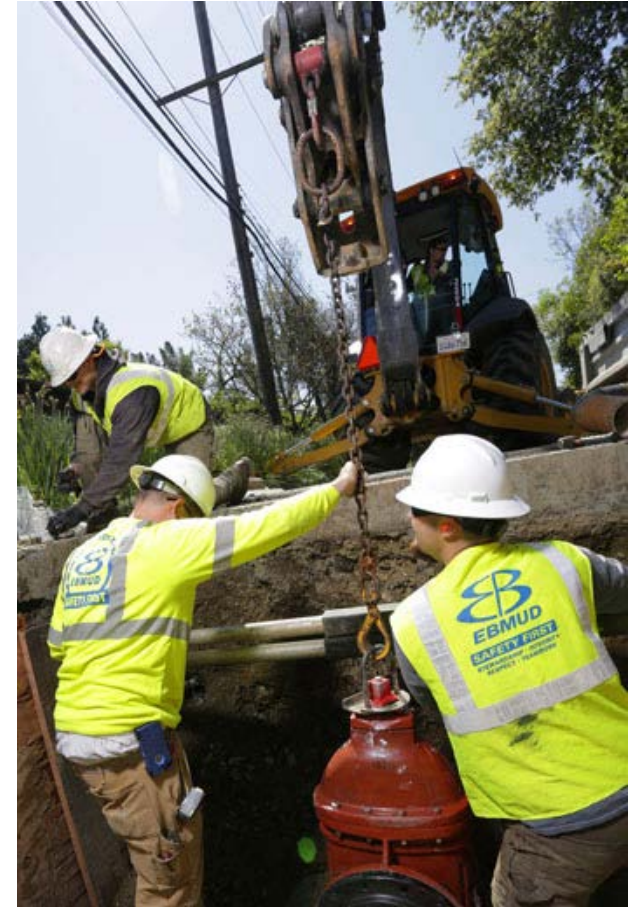
July 11, 2017

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 Get	WINE ST
ft		of WINE on		side of		CUTTING
Map	1455	524	Tap #	Meter #	Thomas Bros: Page: Grid:	From Org: 722
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 ?	Pipe Ext 37705	Backbone/Critical?	
Problem Description	UNK SOURCE OF WATER>> USA WILL BE ACTIVE UNTIL 07/24/2017 UPDATE 07/20/17				Property Damage?	Injury?
				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:	Meter Reading:	Delete
12IN MNBREAK >> Y 50GPM DI PRSNT/PRTCTD (N)DAMS & TABS (N) >> WATER IS FLOWING IN STORM DRAINS>> DAMAGED COMC		

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

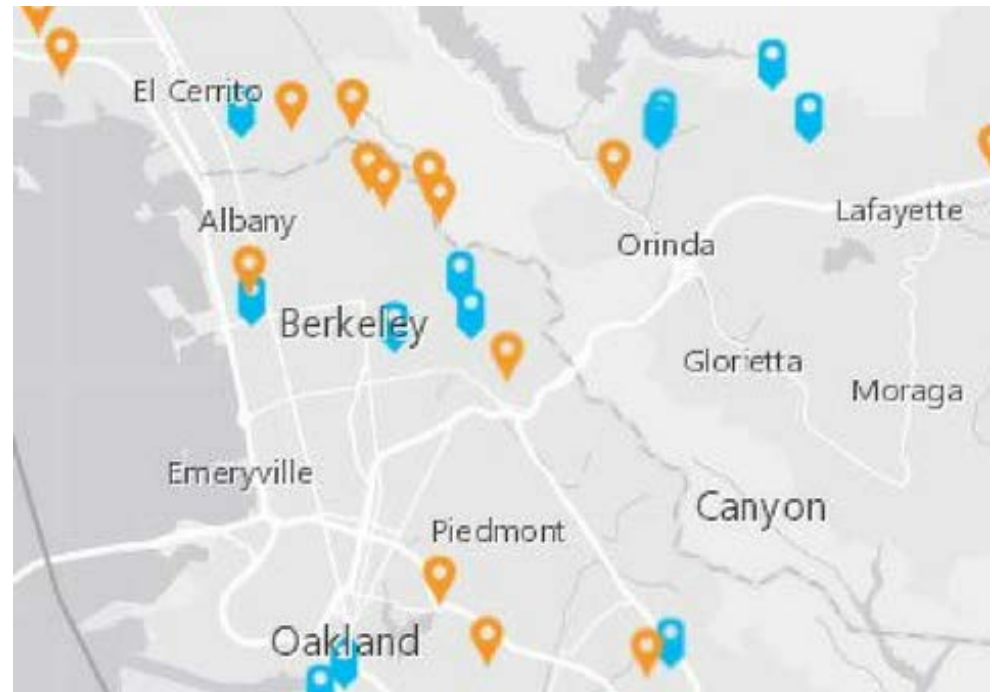
Excavation Method:

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

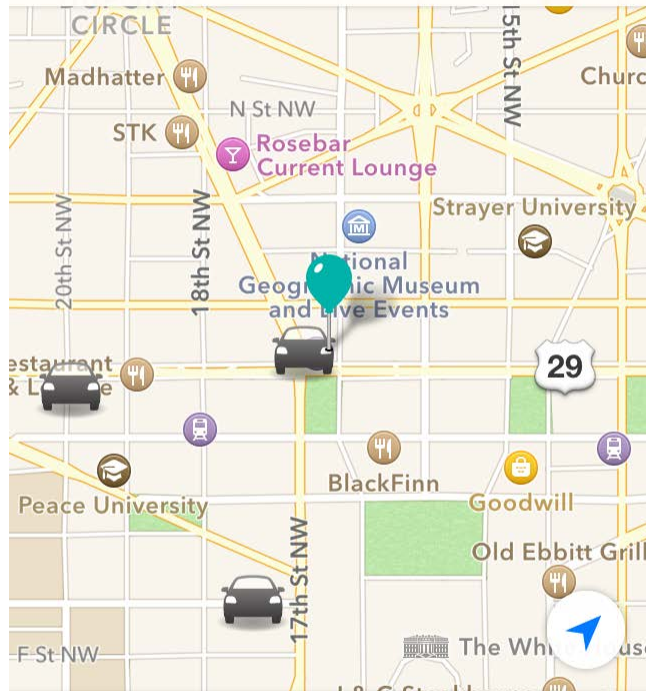


●●●○ Sprint LTE 10:36 AM 80%



Lyft

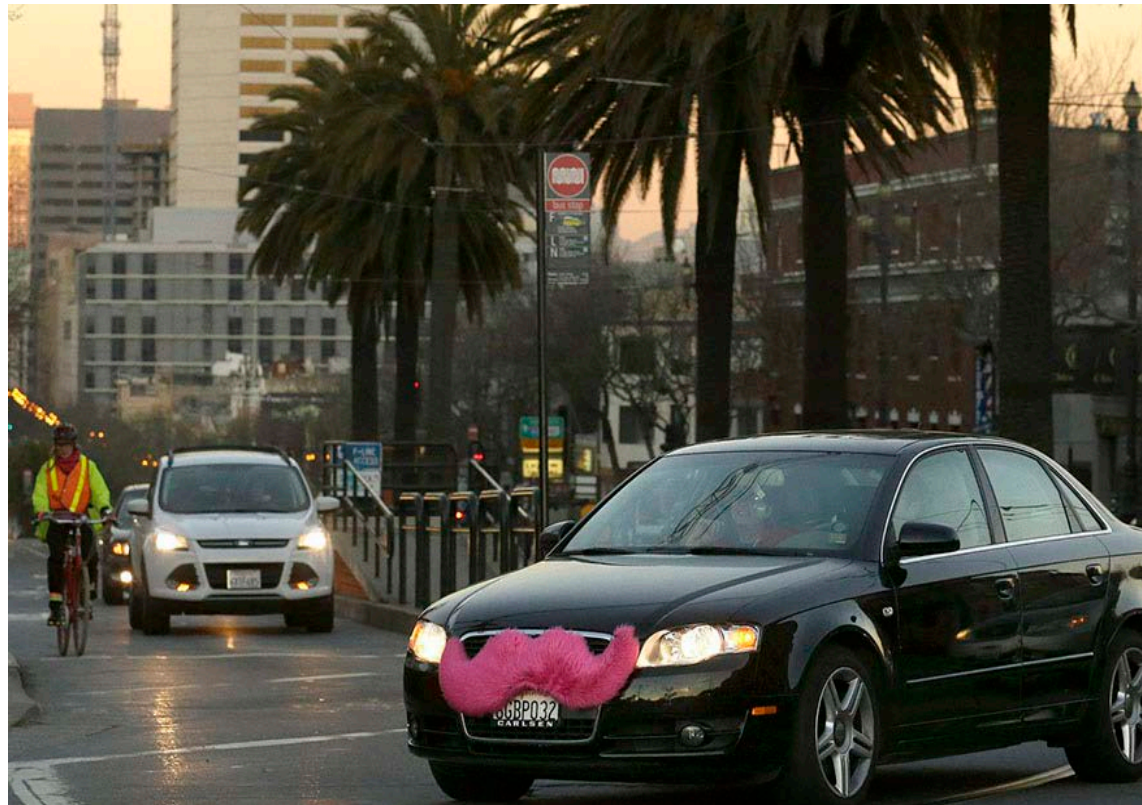
Plus

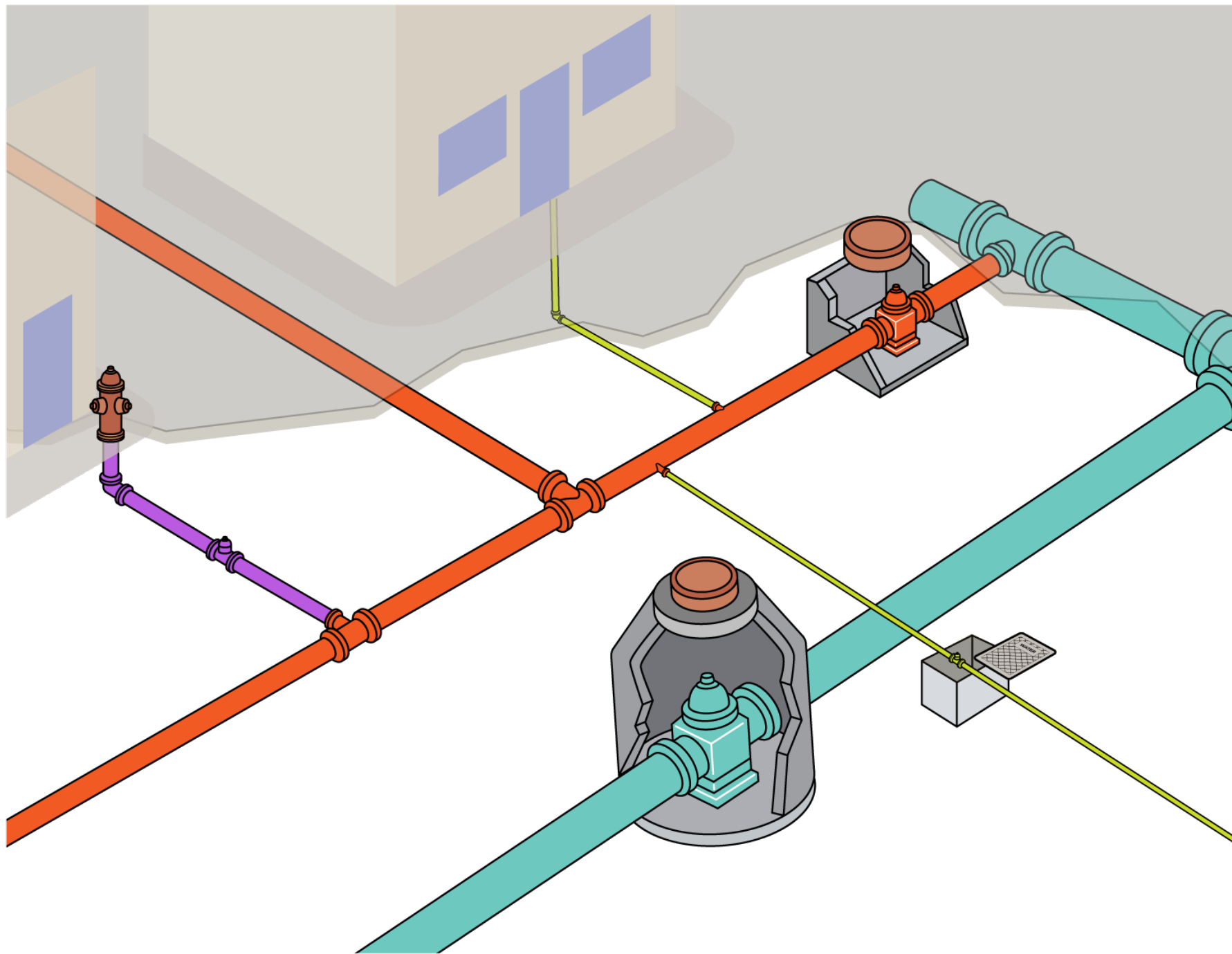


1701 K Street Northwest

2 MIN

Request Lyft





Next Steps



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