



Sustainable Potable Offset —

Satellite Treatment for Golf Course Irrigation;

VIEW FROM ABOVE!

Recycled Water Project – Sharon Heights

May 6, 2022



Sharon Heights

- ❖ Goal is to learn about the Sharon Heights Recycled Water Treatment plant, its benefits to the community and to see the site.



Sharon Heights Clubhouse



Recycled Water for California's Future



What's in this for me?



Key Topics



Project Overview



Project Elements



Influent Pump Station

- ❖ 2 – 35 hp pumps
- ❖ 265 ft of head
- ❖ Flow through wet well
- ❖ Neighborhood friendly – below grade

Influent Pump Station Video



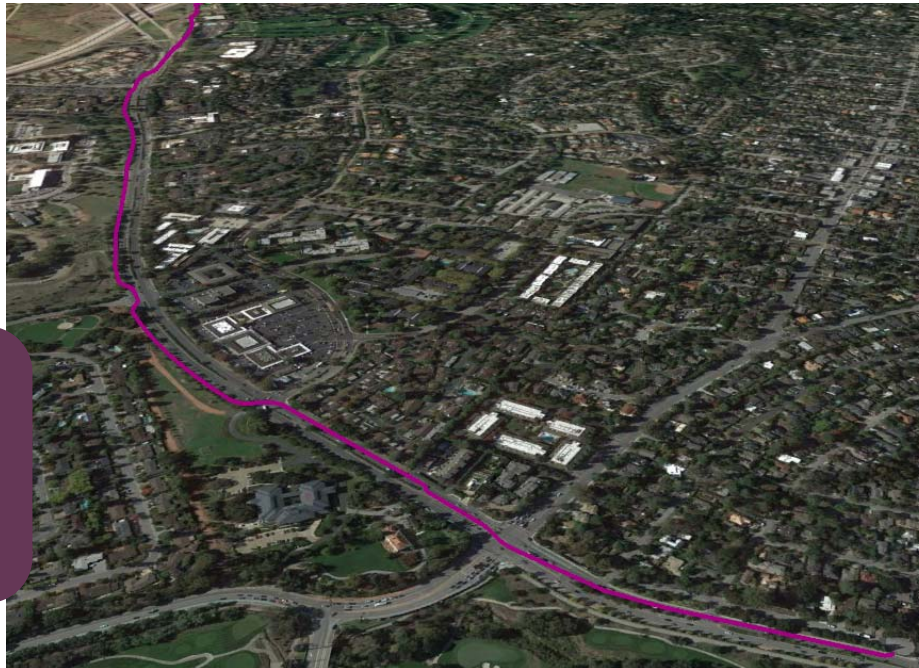
Influent Pump Station Video



Pipe Alignment – Sand Hill Road



Recycled Water Pipeline installed by a combination of open trench and horizontal directional drilling (HDD)



— Recycled Water Pipeline

Pipe Alignment Video



Pipe Alignment In Walking Path



Pipe Alignment Under New Walking Path



Treatment Facility

- ❖ MBR Plant (Membrane BioReactor)
- ❖ 0.5 MGD
- ❖ Forward feed to reduce pumping
- ❖ Quiet, odorless, Well Screened

Treatment Facility Video

❖ 0.5 MGD Capacity



Headworks



Utilizing Natural Grade Value Engineering

- ❖ Forward feed to reduce pumping



MBR Membrane BioReactor

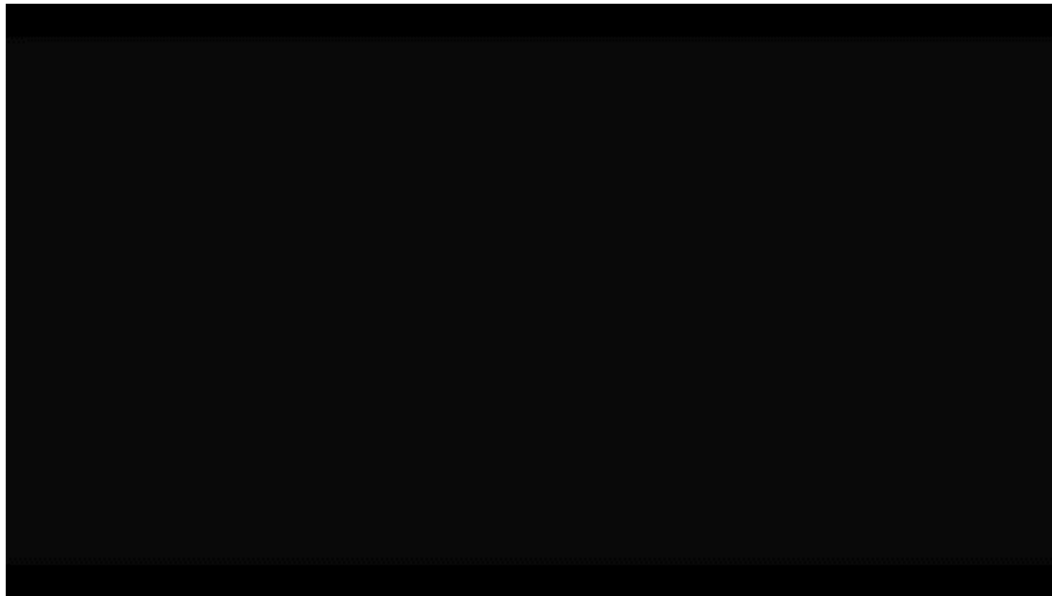


Screening



Odor Control then Screening

- ❖ Quiet, odorless, Well Screened



Odor Control



Fencing



Treatment Facility Videos

❖ Electrical Room



Treatment Facility Video

❖ Ultraviolet Disinfection



Public Private Partnership

- ❖ Long Term Agreement
- ❖ SRF Funding & Grant
- ❖ Progressive Design Build
- ❖ Caltrans Fill Station



Project Budget

Project Price
\$22,595,000

Cash Flow Reserve
\$8,000,000

1% Interest
\$5.2M Grant

5% Contingency
\$1M

Caltrans Permit =
Longitudinal Variance
Water Use Agreement
O&M Agreement

**Treatment
Facility**



Fill Station

Time lapse & Aerial Drone



Time lapse & Aerial Drone Video Documentation

Time Lapse



- ❖ Detail Tracking
- ❖ Proof of Construction
- ❖ Near Real-time updates
- ❖ One Perspective/View
- ❖ Less Expensive

Aerial Drone



- ❖ Dynamic Views
- ❖ Flexible
- ❖ Tells the Whole Story
- ❖ Visually Captivating
- ❖ Broader Audience Appeal

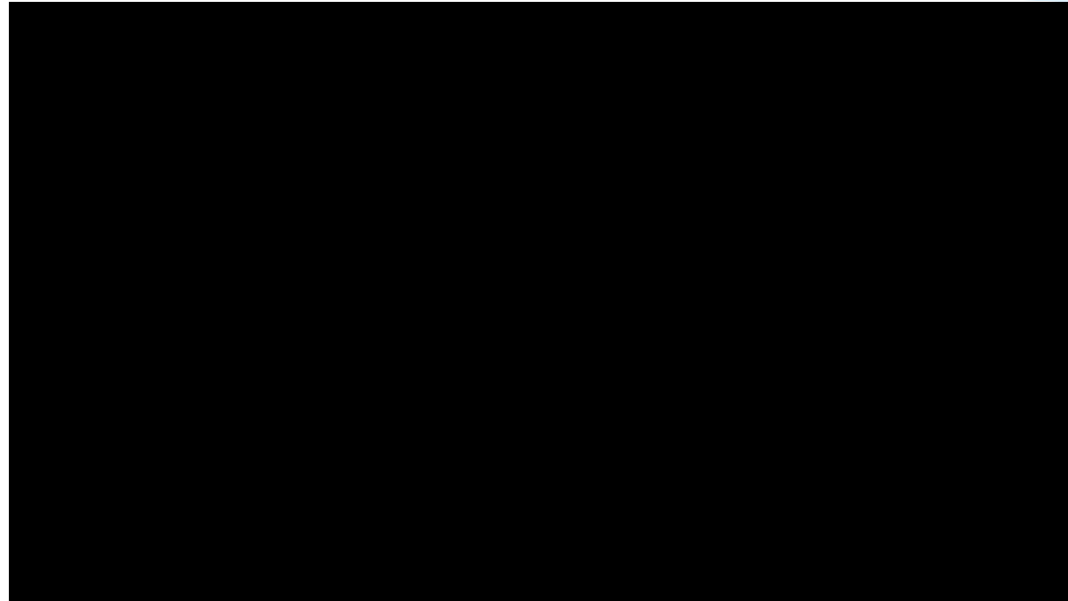
Treatment Plant Site Time Lapse



West Bay Sanitary Recycled Water Facility – Sharon Heights



The WHOLE Story



July 2020 – RW Delivered





166.47 AFY
Recycled Water



Awards

- ❖ Environmental Stewardship – City of Menlo Park
- ❖ Commendation – Board of Supervisors
- ❖ Congressional Recognition – Representative Anna Eshoo
- ❖ Certificate of Recognition – State Assembly
- ❖ Golden Acorn – Menlo Park Chamber of Commerce / Senator Jerry Hill

Questions?

