



40-Year Anniversary of District's Wastewater Treatment Plant

Board of Directors Meeting
May 11, 2022



TRANSFORMING WASTEWATER TO RESOURCES

Overview

Celebrating 40 Years at WWTP



- Although District has existed for 67+ years, the WWTP will mark 40 years of service on May 13, 2022
- Exemplary regulatory compliance record in protecting public health and the environment
 - Recent streak of 14 consecutive years w/o discharge permit violation
- Effective and reliable facility operation is critical to serving over 215,000 customers in Bay Point, Pittsburg, and Antioch
- Maintaining focus on continued infrastructure investment, and adapting to new technologies and regulatory requirements to meet the challenges of next 40 years



Historical Context

Regulatory Driver, Local Implementation



1972

Federal **Clean Water Act** requiring secondary treatment of wastewater and pollution prevention programs

1974

East/Central Contra Costa County Waste Management Agency formed

1976

Contra Costa County Sanitation District 7-A (formed in 1955) annexed Antioch and Pittsburg

1982

Construction of "Industrial Shores Facilities" completed at \$50M cost with \$42M in federal grant funding



State Water Resources Control Board adopts policy encouraging "subregional" **treatment facilities**

Planning studies recommending **new wastewater conveyance and treatment facilities** for Antioch, Pittsburg, and West Pittsburg (now Bay Point)

Established authority to proceed with design, construction, and operations of new facilities

- **"Industrial Shore Water Pollution Control Plant"**
- New York Slough Outfall
- Antioch, Pittsburg, and Shore Acres Pump Stations and conveyance systems
- Montezuma conveyance system

District WWTP

Opening Ceremony – May 13, 1982



- Attended by congressional representatives and local elected officials, included flag-raising ceremony
- “Delta Diablo Sanitation District” was identified as unofficial name (officially in 1989, modified to “Delta Diablo” in 2013)
 - Announcement and prize awarded following facility naming event with local schoolchildren

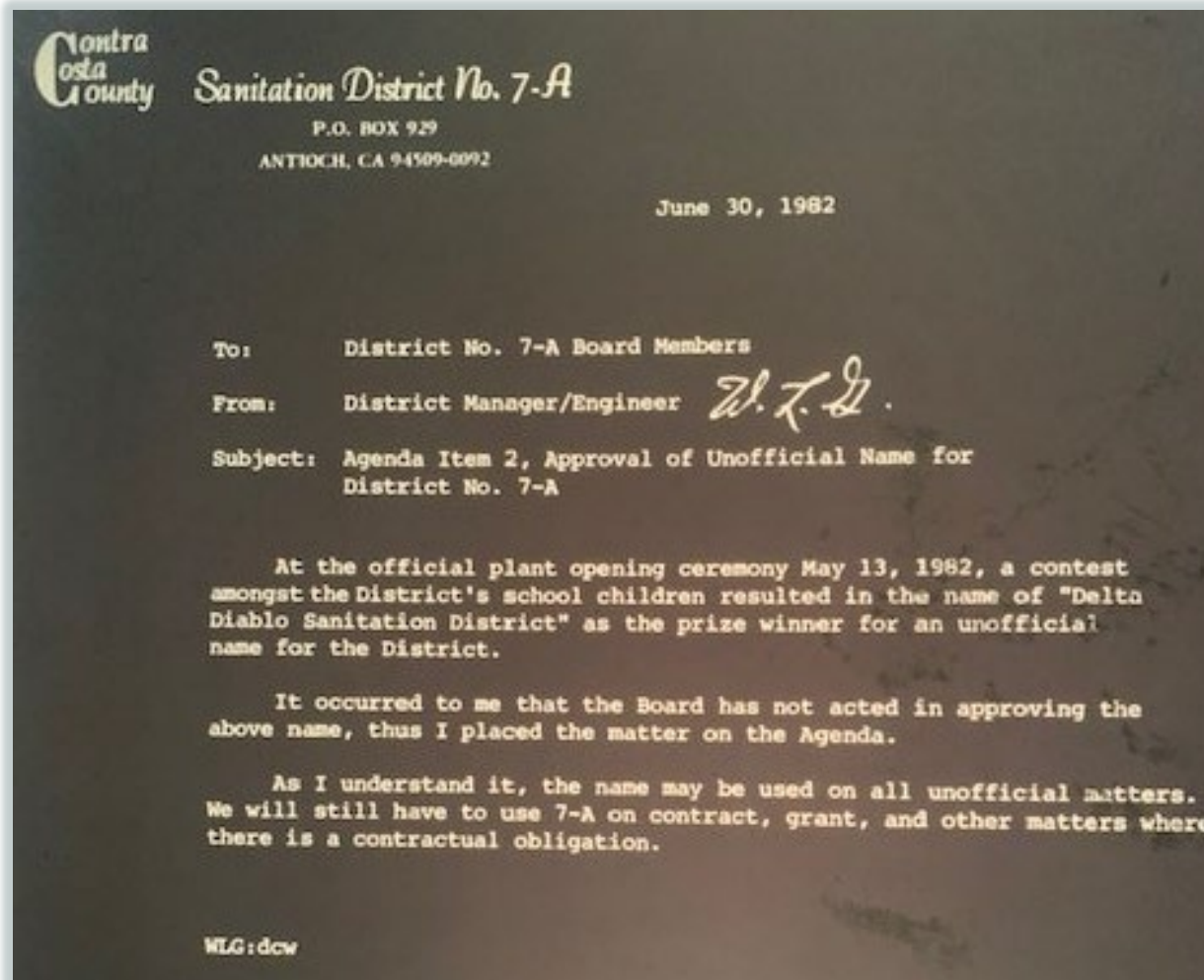


Delta Diablo Sanitation District

- Included equalization storage basin, bar screens, aerated grit chambers, primary clarifiers, dual-stage biological treatment process (TTFs, activated sludge), secondary clarifiers, disinfection, solids handling (DAFTs, digesters, centrifuges, on-site energy production (via cogen engines)

Historical Record – June 30, 1982

Memo Noting DDSD as Unofficial Name

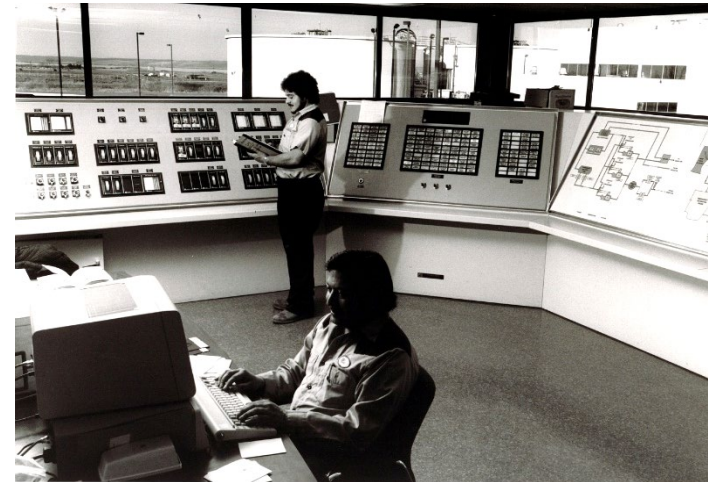


Key Highlights

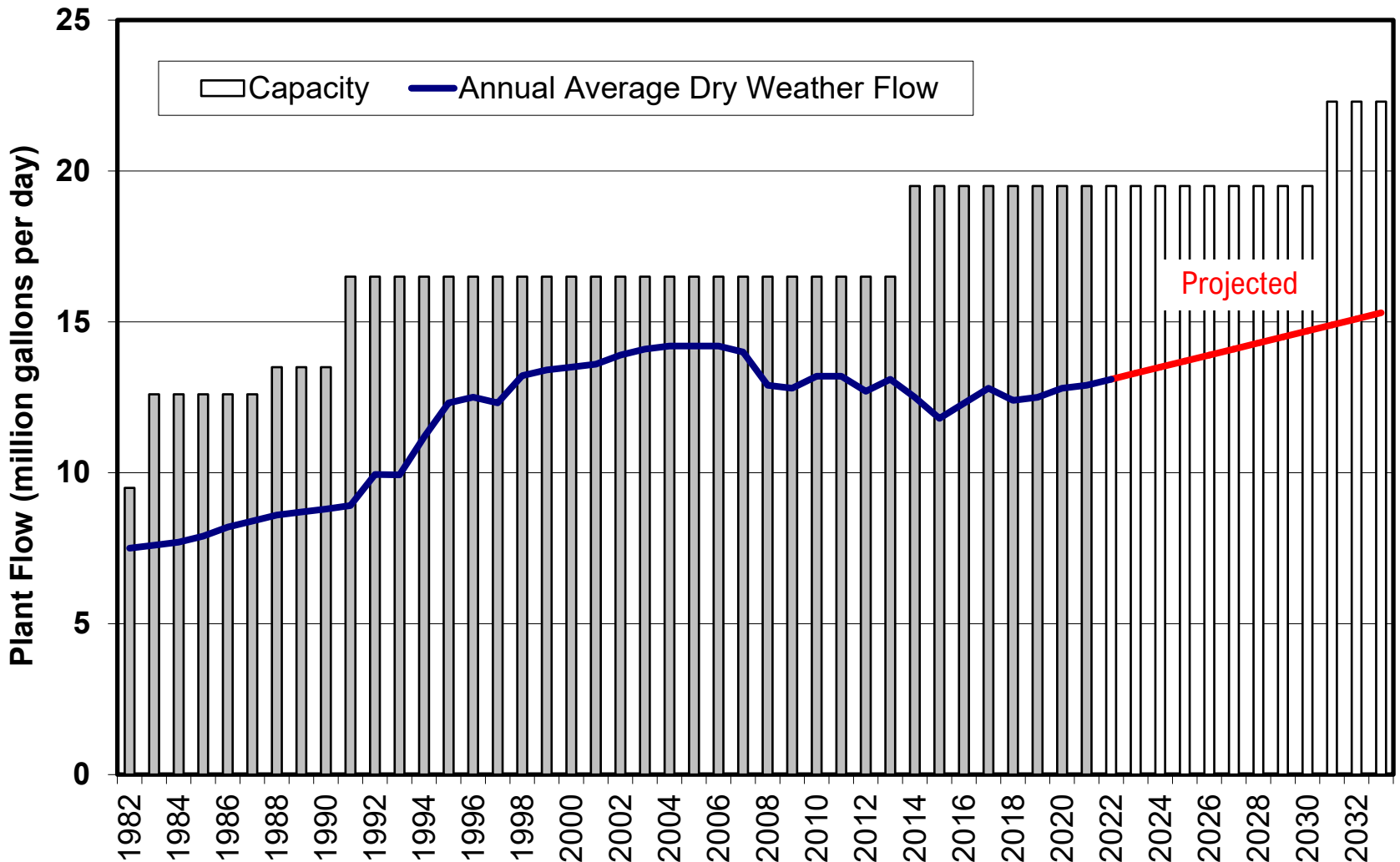
40 Years of WWTP Operation



- Average WWTP flow increased from 7.0 million gallons per day (MGD) to 13.6 MGD
 - Nearly 100,000 customers in 1982, over 215,000 customers today
- District is recognized as award-winning, industry leader known for progressive “Utility of the Future” commitment
 - Dozens of prestigious awards at national, state, and local level recognizing exemplary regulatory compliance, environmental stewardship, operational excellence, financial reporting
- Significant WWTP capital improvements completed to maintain infrastructure and expand services
- Over 350 talented, dedicated employees have directly contributed to District’s success



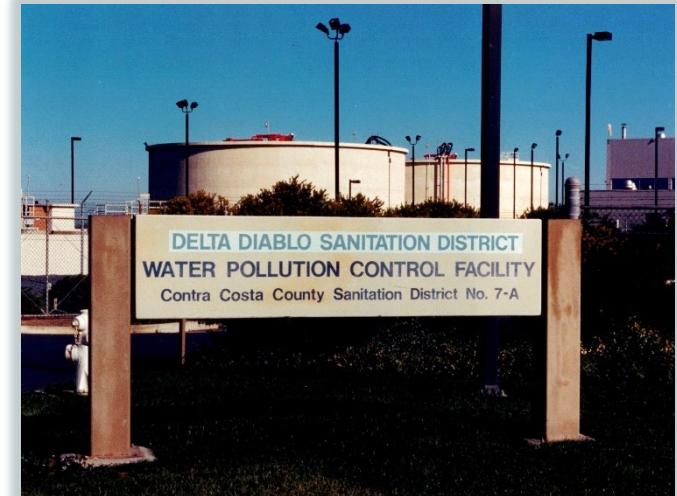
Historical and Projected Flows and Treatment Capacity



Historical WWTP Photos



Plant Construction – early 1980s



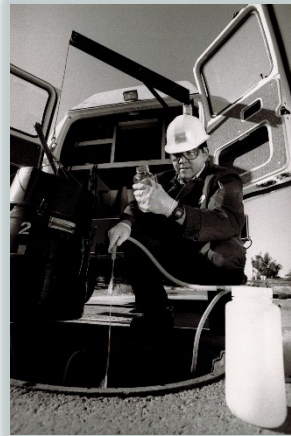
Original Plant Signage – 1980s



Historical WWTP Photos (cont'd)



**From Dewatering Building Room Prior
to Phase II Expansion – 1982**



**Wastewater Field
Sampling and
Analysis – 1991**



**Aerial Photo following Phase II
Expansion – 1985-86**

Ensuring Resiliency for the Next 40 Years

- Addressing aging infrastructure
- Meeting challenge of future nutrient management regulatory requirements (>\$150M WWTP upgrade cost)
- Ensuring workforce development to support District mission and meet customer needs
- Recovering valuable resources
- Implementing Strategic Plan, which identifies key goals, strategies, and objectives to guide activities over next few years

MISSION

Delta Diablo protects **public health and the environment** for our communities by **safely providing exceptional wastewater conveyance, treatment, and resource recovery services** in a **sustainable and fiscally-responsible** manner

VISION

Delta Diablo will achieve **sustained organizational excellence** through **dedicated commitment** to **public service, stewardship, innovation, industry leadership,** and **active engagement** at all levels

Next Steps

- Hold Employee Recognition lunch event to celebrate WWTP 40th Anniversary (late May)
 - District staff continue to effectively meet challenges in support of fulfilling core mission as essential service workers
- Share presentation with all District staff, and conduct brownbag virtual presentation with expanded content
- Post feature story on District's website

