



Preliminary Design Status Update

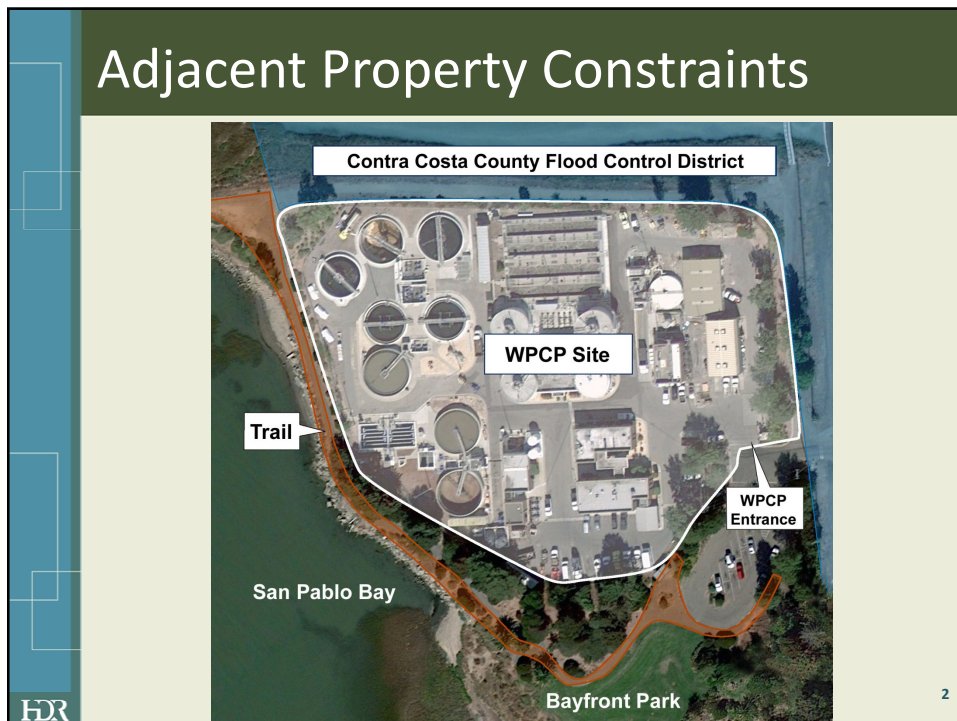
February 21, 2013

City of Whole California 1905

City of Hercules California

HDR

This slide features a collage of images related to the WPCP project. On the left is an aerial view of the facility. In the top right, there is a photograph of a circular tank and a brick building labeled 'PIMBLE HERCELES W.P.C.P.'. The background of the right side is a technical site plan. Logos for the City of Whole California and the City of Hercules are at the bottom left, and the HDR logo is at the bottom right.



Adjacent Property Constraints

Contra Costa County Flood Control District

WPCP Site

Trail

San Pablo Bay

WPCP Entrance

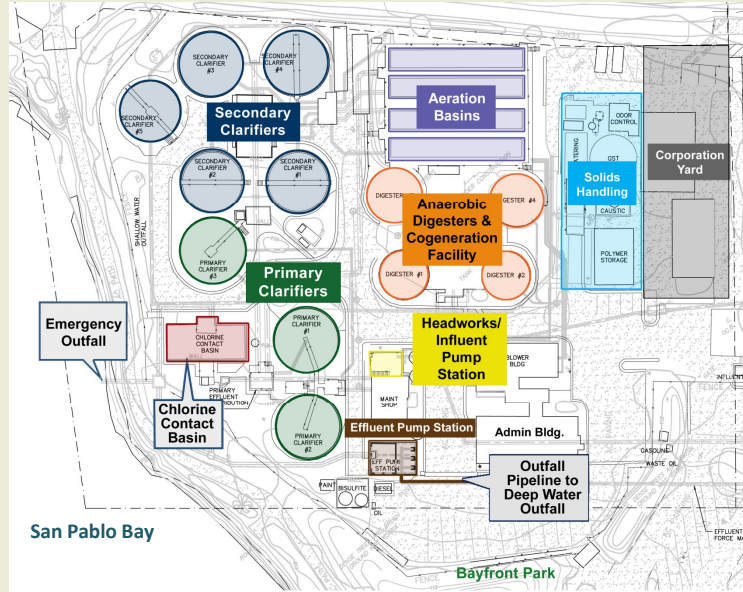
Bayfront Park

HDR

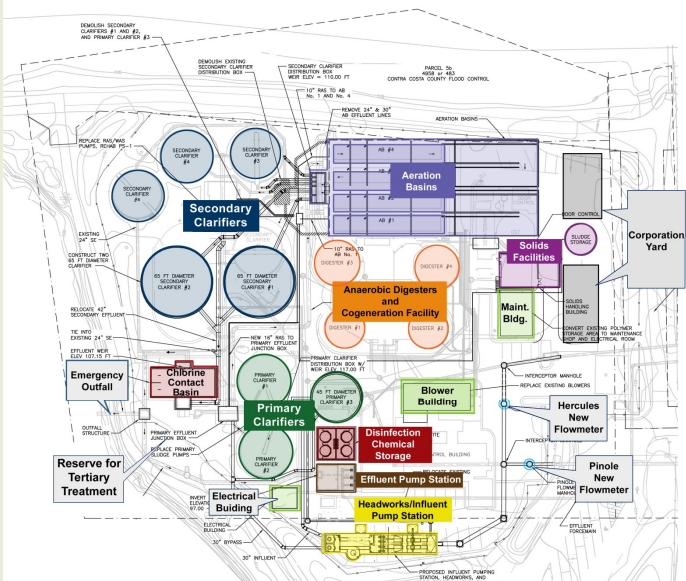
2

This map shows the WPCP site and its surroundings. A white outline defines the 'WPCP Site'. An orange line indicates a 'Trail' along the western and southern edges. 'San Pablo Bay' is to the west, and 'Bayfront Park' is to the south. A 'WPCP Entrance' is marked on the eastern side. The 'Contra Costa County Flood Control District' is labeled at the top. The HDR logo and the number '2' are in the bottom left and right corners, respectively.

Existing Site



Predesign Site Plan



Construction Costs

Item	Cost \$ million (2016)
Headworks	\$ 5.5
Electrical (Generator & Primary Service)	\$ 2.3
Secondary System	\$ 14.3
Chlorine Disinfection	\$ 0.9
Effluent Pump Station	\$1.1
Solids Handling	\$ 3.7
Outfall Pipeline Improvements	<u>\$ 0.3</u>
Subtotal Construction Costs	\$ 28.1
Construction Contingency (20%)	\$ 5.0
Total Construction Cost	\$ 33.1

HDR

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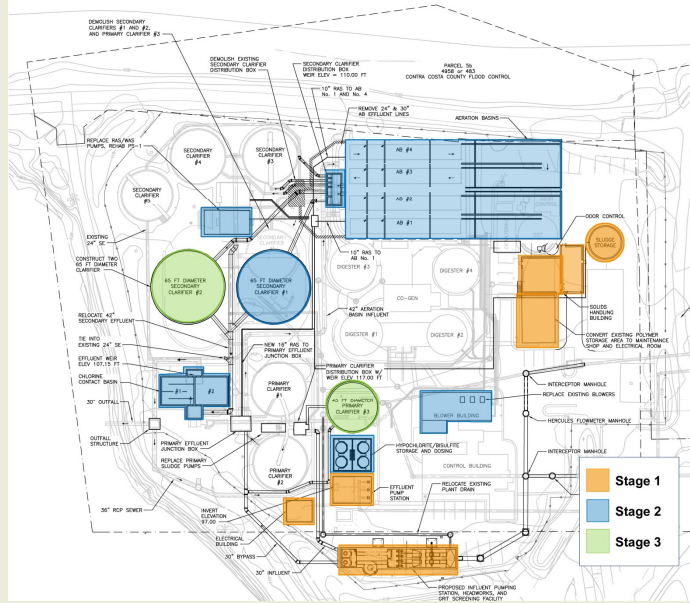
Project Costs

Item	Cost \$ million (2016)
Total Construction Costs	\$33.1
Engineering & Administration	
Design Engineering (9%)	\$3.0
Engineering Services During Construction (3.5%)	\$1.2
Construction Management, Biddability Review (10%) (3 year duration)	\$3.3
Building Permits & Inspection, Environmental Compliance, CCCFCD Boundary (2.5%)	\$0.8
Subtotal Engineering & Administration Costs	\$ 8.3
Total Project Cost	\$ 41.4

HDR

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Construction Phasing



Construction Schedule

Task Name	Start	Finish	2013												2014												2015												2016												2017												2018											
			1				2				3				4				1				2				3				4				1				2				3				4				1				2				3				4											
Complete Preliminary Design	2/28/13	2/28/13	◆ Complete Pre-design (Feb. 2013)																																																																							
Final Design of WPCP Upgrades	3/1/13	3/1/14	◆ Complete Design 3/1/14																																																																							
Complete Final Design (NPDES Permit Compliance Date)	3/1/14	3/1/14	◆ Start Construction 9/1/14																																																																							
Bidding and Award	3/1/14	8/28/14	◆ 11/1/16																																																																							
Start Construction (NPDES Permit Compliance Date)	9/1/14	9/1/14	◆ Upgrades Operational 6/1/17																																																																							
Stage 1 Construction	9/1/14	12/4/15																																																																								
Stage 2 Construction	1/19/15	11/18/16																																																																								
Stage 3 Construction	3/28/16	4/21/17																																																																								
Complete Construction	11/1/16	11/1/16																																																																								
Process Optimization and Troubleshooting	11/18/16	11/1/17																																																																								
WPCP Upgrades Operational (NPDES Permit Compliance Date)	6/1/17	6/1/17																																																																								

◆ Milestones Based on Compliance Schedule in NPDES Permit No. CA 0037796

