



# Central Contra Costa Sanitary District

Protecting public health and the environment

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TO: CARL RONER, CONTRA COSTA  
COUNTY FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT

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SUBJECT: ESTIMATE OF FLOOD DAMAGE FOR CCCSD WASTEWATER  
TREATMENT PLANT

At the last meeting between the Contra Costa County Flood Control and Water conservation District (District) and Central Contra Costa Sanitary District (CCCSD), we discussed that the levees surrounding our wastewater treatment plant (plant) do not currently meet the required flood protection standard for a 100-year storm event with 3 feet of freeboard.

CCCSD recently completed a comprehensive survey of the plant equipment systems and facilities to accurately quantify the expected damage from flooding. I have estimated damages to the plant could be up to \$146,380,000. This cost estimate includes:

- Equipment below grade level in basements or tunnels.
- Equipment at grade level and the 1<sup>st</sup> floor of buildings.
- Assumed 25% restoration cost to buildings, such as our Laboratory and Headquarters Office Building, due to water/flood damage, mud and debris clean-up, damage to furniture, carpeting, walls, etc.

The listing consists of almost 2,800 items, and is detailed on the 51 pages attached. It does not include:

- Equipment above the ground floor (e.g., on the 2<sup>nd</sup> or 3<sup>rd</sup> floors, or roof level).
- Piping.
- Replacement cost for any structures. It is assumed that concrete structures will survive a flood.
- Clean-up costs throughout the treatment facilities (not including buildings) related to mud and debris brought in from a flood.
- Additional labor costs for manually operating the plant or staffing with extra crews.
- Potential permit violations for potential discharge of raw sewage to Walnut Creek.
- Other costs for clean-up in the collection system or upstream of the treatment plant.

Of particular concern is our tunnel system. The tunnel system houses critical treatment equipment including: two multiple-hearth furnaces for solids processing, primary effluent and final effluent pumps for moving sewage, grit pumps, pipe galleries, electrical and instrumentation feeders, and more.

In the event that our tunnel system is flooded, damage to our equipment will be catastrophic with restoration times taking at least 6 months and hundreds of millions of dollars in equipment replacement and installation costs. Every day we will be forced to discharge up to 50 million gallons of raw and untreated sewage to Walnut Creek during the restoration. The damage caused to the environment and receiving waters will be incalculable.

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