

**Notice of Determination**

**Appendix D**

**TO:**

Office of Planning and Research  
*For U.S. Mail:* *Street Address:*  
 P.O. Box 3044 1400 Tenth St, Rm 113  
 Sacramento, CA 95812-3044 Sacramento, CA 95814

County Clerk  
 County of: Orange  
 Address: 601 N. Ross Street, Santa Ana, CA 92701

**FROM:**

Public Agency: Orange County Sanitation District

Address: 10844 Ellis Avenue  
Fountain Valley, CA 92708

Contact: Kevin Hadden  
 Phone: 714-593-7462  
 Lead Agency (if different from above): \_\_\_\_\_

Address: \_\_\_\_\_

Contact: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**SUBJECT:** *Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.*

State Clearinghouse Number (if submitted to State Clearinghouse): 2017071026

Project Title: Addendum to the Final Program Environmental Impact Report for Biosolids Master Plan for Project No. P2-128: Temperature-Phased Anaerobic Digestion (TPAD) Digester Facility at Plant No. 2 and P2-128A: South Perimeter Wall and Soil Improvements at Plant No. 2

Project Location Orange County Sanitation District Treatment Plant No. 2, 22212 Brookhurst Street Huntington Beach, (include county): CA 92646, Orange County. The nearest cross street is Bushard Street.

**Project Description:**

Orange County Sanitation District (OC San) is proposing to implement Project No. P2-128 TPAD Digester Facility at Plant No. 2, which is the combination of two projects identified in OC San’s 2017 Biosolids Master Plan (BMP 2017): P2-504/P2-504A/P2-504B Temperature Phased Anaerobic Digestion (TPAD) Digester Facility and P2-501 Perimeter Screening, which are both located at Plant No. 2 in Huntington Beach. OC San certified a Final Programmatic Environmental Impact Report (PEIR) in 2018 as lead agency pursuant to the California Environmental Quality Act (CEQA) for the Biosolids Master Plan that identified and evaluated both projects. Since the certification of PEIR, modifications have been proposed during subsequent project level design that would occur within the same approximate project footprint analyzed in the PEIR. Table 1 below, compares the PEIR Biosolids Master Plan projects with the proposed P2-128 project modifications. The Addendum finds that the project modifications are within the scope of the PEIR and that no subsequent CEQA analysis is required. (CEQA Guidelines §§ 15168, 15162, 15164.)

**TABLE 1  
 PEIR PROJECT ELEMENTS COMPARED TO P2-128 MODIFICATIONS**

PEIR Project No. and Name	Project Element	Description in the PEIR <sup>a</sup>	P2-128 Addendum Modifications <sup>a</sup>
P2-501 Plant No. 2 Southwest Perimeter Screening	Wall along Talbert Marsh	1,030 feet long screening improvements or replacement (extended from Brookhurst St wall)	1,070 feet long, 8-foot (minimum) high concrete wall with subsurface foundation and soil improvements (e.g., cement deep soil mixing)
	Wall along Brookhurst St	4,325 feet long, 8-foot high	To be processed in the future under a different project
	Vegetation along Talbert Marsh	Exterior: N/A Interior: increase in height by approximately 10 to 15 feet along and remain approximately the same density of trees	Exterior: ground cover vegetation and/or vines Interior: trees within a raised planter behind the first 100 linear feet of the new perimeter wall (near the corner of Brookhurst St and the Talbert Marsh Levee Access Road)

Authority cited: Section 21083, Public Resources Code.  
 1739730.1

PEIR Project No. and Name	Project Element	Description in the PEIR <sup>a</sup>	P2-128 Addendum Modifications <sup>a</sup>
	Vegetation along Brookhurst St	Exterior: N/A Interior: no increase in height, but the density of the trees will increase	Exterior: ground cover vegetation and/or vines Interior: replace existing trees with box trees (to be planted in situ in the future after the construction of the new wall along Brookhurst St)
	Talbert Marsh Levee Road Improvements	N/A	Minor realignment of approximately 600 linear feet of the road/bike path to introduce a horizontal curve, allowing for a widened landscaping zone in front of the perimeter wall in this area
	Security Improvements	Lighting directed into Plant No. 2 and security cameras	Lighting directed into Plant No. 2, security cameras, and motion sensors
P2-504 TPAD Digester Facility at Plant No. 2	Digesters	Six thermophilic digesters, 110-foot diameter, 40 feet tall	Five thermophilic digesters, 110-foot inner diameter, 40 feet tall, with accommodations to allow future addition of a 6th digester
	Digester Control Building	22,400 square foot building with first floor and basement equipment gallery	23,300 square foot below-grade gallery between the digesters with additional equipment at-grade
	Sludge Heating	Sludge heating facilities including additional boilers and hydronic loop modifications	Sludge heating facilities including 3 boilers and a connection to the CenGen hot water loop (to be replaced with a 4th boiler in the future) in a 4,200 square foot building, 30.5 feet tall (single story)
	Sludge Cooling	Sludge cooling facilities including a cooling water pump station, ultrafiltration/nanofiltration facility, and sludge cooling heat exchangers	Sludge cooling facilities including cooling tower facility and sludge cooling heat exchangers (exposed, no at-grade building)
	Power Building	3,150 square foot building, 21 feet tall	8,250 square foot building, 25 feet tall, with a partial basement
	Tunnels	2 new tunnels	2 new tunnels
P2-504A Class A Batch Tanks	Batch Tanks	Six 400,000-gallon tanks, 38 feet tall	Six 400,000-gallon tanks, 34 feet tall
	Batch Tank Ancillary Equipment	Pumps, heat exchangers, and grinders in an equipment control room adjacent to the six new tanks	Pumps, heat exchangers, and grinders located in a below-grade gallery between the batch tanks with additional equipment at-grade (exposed, no at-grade building)
P2-504B Digester Feed Facility (DFF)	DFF Tanks	Two octagonal 100,000-gallon DFF blend tanks of concrete construction, 30 feet wide and 33 feet tall	Two cylindrical 70,000-gallon DFF blend tanks of concrete construction, 22-foot diameter and 27 feet tall, and a 17,000-gallon mixing chamber between the tanks
	DFF Ancillary Facilities	3,850 square foot building, 25 feet tall, containing tank mixing system, grinders, pumps, and electrical control room	2,900 square foot electrical building, 22 feet tall, with a basement level 7,000 square foot DFF Pump Pit containing tank mixing system, grinders, and pumps
	DFF Odor Control Facility	2,500 square foot concrete pad for carbon towers and bioscrubbers, 30 feet tall	1,000 square foot concrete pad for low-profile three-stage chemical scrubbers, 20 feet tall 700 square foot at-grade odor control chemical feed and storage facilities

<sup>a</sup> Dimensions and volumes listed are approximate. Facility heights shown under the P2-128 Addendum Modifications are referenced to the curb elevation in front of Plant No. 2 at Brookhurst St (El. 10.5 ft NAVD88); heights listed in the 2017 BMP are assumed to be based on the same reference elevation.

The proposed TPAD Digester Facility includes the construction of a new Digester Feed Facility (DFF) with two sludge blending tanks and odor control; five new thermophilic digesters with space dedicated for one future thermophilic digester, if needed, and associated digester control building; six new Class A batch tanks, which will allow the facility to generate Class A biosolids; new sludge cooling facilities (Cooling Tower Facility); new hot water boilers (Boiler Facility); and a new power building (Distribution Center M or DC-M). The TPAD facilities will be constructed in the southwest corner of Plant No. 2. Digested sludge from the Class A batch tanks will then be cooled and discharged to the existing mesophilic digesters prior to dewatering. In the event of a catastrophic failure of the existing mesophilic digesters (e.g., seismic event, structural failure), the thermophilic digesters will be capable of processing the full Plant No. 2 design solids flow and load capacity, thus mitigating the seismic and operational risks with the existing digesters.

The project includes implementation of the first portion of a new Plant No. 2 perimeter wall from the southwest corner of the existing activated sludge (AS) plant to the corner of Brookhurst Street (approximately 1,070 linear ft). The new wall

along Talbert Marsh will act in conjunction with the existing Talbert Marsh Levee to protect the Plant from a 100-year flood adjusted for the 2070 projections of sea level rise as identified in the OC San Climate Resiliency Study, Project No. SP-152 (2019). The height of the wall is not designed for flood water elevations associated with a design tsunami; however, the wall will be designed to not fail during a tsunami event. The perimeter wall height varies from approximately 8.5 to 11.3 feet above the existing ground surface and will include architectural treatments for aesthetics.

The perimeter wall construction includes ground improvements, excavation, installation of buried concrete piles and pile caps, installation of the concrete wall, and structural backfill. Landscaping (coastal native shrubs, groundcover, and succulents, as well as vines) will be installed between the proposed perimeter wall and bike trail to improve overall aesthetics and provide an approximately 10-foot landscaped buffer between the bike trail and the wall. The existing bike path will be slightly re-aligned to allow more space for this landscaping. As shown on the site plan, a proposed planter area will be constructed along the northwest corner inside of the perimeter wall. The planter wall itself is not visible from outside of OC San property; however, the trees within the planter will be visible from outside.

This is to advise that the Orange County Sanitation District has approved the above described project on  
( *Lead Agency* or  *Responsible Agency*)

December 15, 2022 and has made the following determinations regarding the above described project.  
(Date)

1. These project modifications [ will  will not] have a significant effect on the environment.
2.  An Environmental Impact Report was previously certified for this project pursuant to the provisions of CEQA.  
 A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.  
 An Addendum was prepared for this modified project pursuant to the provisions of CEQA.
3. Mitigation measures [ were  were not] made a condition of the approval of the project modifications.
4. A mitigation reporting or monitoring plan [ was  was not] adopted for the project modifications.
5. A statement of Overriding Considerations [ was  was not] adopted for the project modifications.
6. Findings [ were  were not] made for the project modifications pursuant to the provisions of CEQA.

This is to certify that Addendum, together with the final PEIR, with comments and responses and the record of approval, are available to the General Public at:

Sanitation District website: <https://www.ocsan.gov/about-us/transparency/eir-documents/-folder-848> and  
Orange County Sanitation District, 10844 Ellis Avenue, Fountain Valley, CA 92708

Signature (Public Agency) \_\_\_\_\_ Title: Engineering Supervisor

Date: 12/15/22 Date Received filing at OPR: \_\_\_\_\_