



## **ORANGE COUNTY SANITATION DISTRICT** **SPECIAL NOTICE REGARDING CORONAVIRUS (COVID-19)** **AND ATTENDANCE AT PUBLIC MEETINGS**

On March 4, 2020, Governor Newsom proclaimed a State of Emergency in California as a result of the threat of COVID-19. On March 12, 2020 and March 18, 2020, Governor Newsom issued Executive Order N-25-20 and Executive Order N-29-20, which temporarily suspends portions of the Brown Act which addresses the conduct of public meetings. On June 11, 2021, Governor Newsom issued Executive Order N-08-21, which continues the suspension of portions of the Brown Act which addresses the conduct of public meetings through September 30, 2021.

The General Manager and the Chairman of the Board of Directors have determined that due to the size of the Orange County Sanitation District's Board of Directors (25), and the health and safety of the members, the Board of Directors will be participating in meetings of the Board telephonically and via Internet accessibility.

### **PUBLIC PARTICIPATION**

Your participation is always welcome. The Steering Committee meeting will be available to the public online at:

**<https://ocsd.legistar.com/Calendar.aspx>**

You may submit your comments and questions in writing for the Steering Committee's consideration in advance of the meeting by using the eComment feature available via the webpage above or sending them to [OCSanClerk@ocsd.com](mailto:OCSanClerk@ocsd.com) with the subject line "PUBLIC COMMENT ITEM # (insert the item number relevant to your comment)" or "PUBLIC COMMENT NON-AGENDA ITEM". Submit your written comments by 5:00 p.m. on Tuesday, June 22, 2021.

You may also submit comments and questions for the Steering Committee's consideration during the meeting by using the eComment feature that will be available via the webpage above for the duration of the meeting.

All public comments will be provided to the Steering Committee and may be read into the record or compiled as part of the record.

Thank you.

June 16, 2021

## **NOTICE OF MEETING**

### **STEERING COMMITTEE ORANGE COUNTY SANITATION DISTRICT**

#### **REGULAR MEETING – 5:00 P.M.**

**Wednesday, June 23, 2021**

#### **ACCESSIBILITY FOR THE GENERAL PUBLIC**

**Due to the spread of COVID-19, the Orange County Sanitation District will be holding all upcoming Board and Committee meetings by teleconferencing and Internet accessibility. This meeting will be available to the public online at:**

**<https://ocsd.legistar.com/Calendar.aspx>**

The Regular Meeting of the Steering Committee of the Orange County Sanitation District will be held in the manner indicated above on  
Wednesday, June 23, 2021 at 5:00 p.m.

*Serving:*

Anaheim

Brea

Buena Park

Cypress

Fountain Valley

Fullerton

Garden Grove

Huntington Beach

Irvine

La Habra

La Palma

Los Alamitos

Newport Beach

Orange

Placentia

Santa Ana

Seal Beach

Stanton

Tustin

Villa Park

County of Orange

Costa Mesa  
Sanitary District

Midway City  
Sanitary District

Irvine Ranch  
Water District

Yorba Linda  
Water District

**STEERING COMMITTEE AND  
BOARD MEETING DATES**

June 23, 2021

July 28, 2021

August 25, 2021

September 22, 2021

October 27, 2021

***November 17, 2021 \****

***December 15, 2021 \****

January 26, 2022

February 23, 2022

March 23, 2022

April 27, 2022

May 25, 2022

***\* Meeting will be held on the third Wednesday of the month***

## **STEERING COMMITTEE**

(1) Roll Call:

Meeting Date: June 23, 2021

Meeting Time: 5:00 p.m.

### **Committee Members**

David Shawver, Board Chair..... \_\_\_\_\_  
John Withers, Board Vice-Chair..... \_\_\_\_\_  
Stacy Berry, Operations Committee Chair..... \_\_\_\_\_  
Jesus J. Silva, LaPA Committee Chair..... \_\_\_\_\_  
Chad Wanke, Administration Committee Chair..... \_\_\_\_\_  
Sandra Massa-Lavitt, Member-At-Large..... \_\_\_\_\_  
Glenn Parker, Member-At-Large..... \_\_\_\_\_

### **Others**

Brad Hogin, General Counsel..... \_\_\_\_\_

### **Staff**

Jim Herberg, General Manager..... \_\_\_\_\_  
Rob Thompson, Assistant General Manager..... \_\_\_\_\_  
Lorenzo Tyner, Assistant General Manager..... \_\_\_\_\_  
Celia Chandler, Director of Human Resources..... \_\_\_\_\_  
Kathy Millea, Director of Engineering..... \_\_\_\_\_  
Lan Wiborg, Director of Environmental Services..... \_\_\_\_\_  
Kelly Lore, Clerk of the Board..... \_\_\_\_\_

### **Other Staff Present**

**ORANGE COUNTY SANITATION DISTRICT**  
**BOARD OF DIRECTORS**  
**Complete Roster**

Effective 2/9/2021

<b>AGENCY/CITIES</b>	<b>ACTIVE DIRECTOR</b>	<b>ALTERNATE DIRECTOR</b>
Anaheim	Stephen Faessel	Jose Diaz
Brea	Glenn Parker	Steven Vargas
Buena Park	Art Brown	Connor Traut
Cypress	Stacy Berry	Anne Hertz
Fountain Valley	Patrick Harper	Glenn Grandis
Fullerton	Jesus J. Silva	Nick Dunlap
Garden Grove	Steve Jones	John O'Neill
Huntington Beach	Kim Carr	Dan Kalmick
Irvine	Anthony Kuo	Farrah N. Khan
La Habra	Rose Espinoza	Jose Medrano
La Palma	Marshall Goodman	Nitesh Patel
Los Alamitos	Mark A. Chirco	Ron Bates
Newport Beach	Brad Avery	Joy Brenner
Orange	Kim Nichols	Chip Monaco
Placentia	Chad Wanke	Ward Smith
Santa Ana	Johnathan Ryan Hernandez	Nelida Mendoza
Seal Beach	Sandra Massa-Lavitt	Schelly Sustarsic
Stanton	David Shawver	Carol Warren
Tustin	Ryan Gallagher	Austin Lumbard
Villa Park	Chad Zimmerman	Robert Collacott

**Sanitary/Water Districts**

Costa Mesa Sanitary District	Bob Ooten	Art Perry
Midway City Sanitary District	Andrew Nguyen	Sergio Contreras
Irvine Ranch Water District	John Withers	Douglas Reinhart
Yorba Linda Water District	Brooke Jones	Phil Hawkins

**County Areas**

Board of Supervisors	Doug Chaffee	Donald P. Wagner
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**STEERING COMMITTEE**  
**Regular Meeting Agenda**  
**Wednesday, June 23, 2021 - 5:00 PM**  
**Board Room**  
**Administration Building**  
**10844 Ellis Avenue**  
**Fountain Valley, CA 92708**  
**(714) 593-7433**

**AGENDA POSTING:** In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted outside the main gate of the Sanitation District's Administration Building located at 10844 Ellis Avenue, Fountain Valley, California, and on the Sanitation District's website at [www.ocsd.com](http://www.ocsd.com) not less than 72 hours prior to the meeting date and time above. All public records relating to each agenda item, including any public records distributed less than 72 hours prior to the meeting to all, or a majority of the Board of Directors, are available for public inspection in the office of the Clerk of the Board.

**AGENDA DESCRIPTION:** The agenda provides a brief general description of each item of business to be considered or discussed. The recommended action does not indicate what action will be taken. The Board of Directors may take any action which is deemed appropriate.

**MEETING AUDIO:** An audio recording of this meeting is available within 24 hours after adjournment of the meeting. Please contact the Clerk of the Board's office at (714) 593-7433 to request the audio file.

**NOTICE TO DIRECTORS:** To place items on the agenda for a Committee or Board Meeting, the item must be submitted in writing to the Clerk of the Board: Kelly A. Lore, MMC, (714) 593-7433 / [klore@ocsd.com](mailto:klore@ocsd.com) at least 14 days before the meeting.

**FOR ANY QUESTIONS ON THE AGENDA, BOARD MEMBERS MAY CONTACT STAFF AT:**

General Manager: Jim Herberg, [jherberg@ocsd.com](mailto:jherberg@ocsd.com) / (714) 593-7300  
Asst. General Manager: Lorenzo Tyner, [lttyner@ocsd.com](mailto:lttyner@ocsd.com) / (714) 593-7550  
Asst. General Manager: Rob Thompson, [rthompson@ocsd.com](mailto:rthompson@ocsd.com) / (714) 593-7310  
Director of Human Resources: Celia Chandler, [cchandler@ocsd.com](mailto:cchandler@ocsd.com) / (714) 593-7202  
Director of Engineering: Kathy Millea, [kmillea@ocsd.com](mailto:kmillea@ocsd.com) / (714) 593-7365  
Director of Environmental Services: Lan Wiborg, [lwiborg@ocsd.com](mailto:lwiborg@ocsd.com) / (714) 593-7450

**CALL TO ORDER****ROLL CALL AND DECLARATION OF QUORUM:**

Clerk of the Board

**PUBLIC COMMENTS:**

*Your participation is always welcome. The Steering Committee meeting will be available to the public online at: <https://ocsd.legistar.com/Calendar.aspx>.*

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*You may also submit comments and questions for the Steering Committee's consideration during the meeting by using the eComment feature that will be available via the webpage above for the duration of the meeting. All public comments will be provided to the Steering Committee and may be read into the record or compiled as part of the record.*

**REPORTS:**

*The Board Chairperson and the General Manager may present verbal reports on miscellaneous matters of general interest to the Directors. These reports are for information only and require no action by the Directors.*

**CONSENT CALENDAR:**

*Consent Calendar Items are considered to be routine and will be enacted, by the Committee, after one motion, without discussion. Any items withdrawn from the Consent Calendar for separate discussion will be considered in the regular order of business.*

**1. APPROVAL OF MINUTES****[2021-1654](#)****RECOMMENDATION:**

Approve Minutes of the Regular Meeting of Steering Committee held May 26, 2021.

**Originator:** Kelly Lore

**Attachments:** [Agenda Report](#)  
[05-26-2021 Steering Committee Minutes](#)

**NON-CONSENT:****2. GENERAL MANAGER'S FY 2020-2021 WORK PLAN YEAR-END REPORT [2021-1706](#)**

**RECOMMENDATION:** Recommend to the Board of Directors to:

Receive and file the General Manager's FY 2020-2021 Work Plan Year-End Report.

**Originator:** Jim Herberg

**Attachments:** [Agenda Report](#)  
[General Manager's FY 2020-21 Work Plan Year-End Report](#)

**3. INTERIM FOOD WASTE RECEIVING FACILITY, PROJECT NO. P2-124 [2021-1434](#)**

**RECOMMENDATION:** Recommend to the Board of Directors to:

A. Receive and file Bid Tabulation and Recommendation for Interim Food Waste Receiving Facility, Project No P2-124; and

B. Reject all bids and direct staff to continue efforts to negotiate agreements with food waste pre-processors.

**Originator:** Kathy Millea

**Attachments:** [Agenda Report](#)

**INFORMATION ITEMS:**

None.

**CLOSED SESSION:**

*During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted.*

*Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.*

**CONVENE IN CLOSED SESSION.**



**CS-1 CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION - [2021-1694](#)**  
**GOVERNMENT CODE SECTION 54956.9(d)(1)**

RECOMMENDATION: Convene in Closed Session:

Number of Cases: 1

Bayside Village Marina, LLC v. Orange County Sanitation District; Orange County Sanitation District Board of Directors; and Does 1-25, Inclusive, Superior Court of the State of California for the County of Orange - Central Justice Center Case No. 30-2021-01194238-CU-WM-CXC.

**Originator:** Jim Herberg

**Attachments:** [Agenda Report](#)  
[Memo Bayside Village Marina Litigation](#)

**CS-2 PUBLIC EMPLOYEE PERFORMANCE EVALUATION 54957(b)(1) [2021-1685](#)**

RECOMMENDATION: Convene in Closed Session:

Public Employee Performance Evaluation

Number of Employees: 1

- General Manager

**Originator:** Celia Chandler

**Attachments:** [Agenda Report](#)  
[Memo General Manager Evaluation](#)

**RECONVENE IN REGULAR SESSION.**

**CONSIDERATION OF ACTION, IF ANY, ON MATTERS CONSIDERED IN CLOSED SESSION:**

**OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:**

**BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:**

At this time Directors may request staff to place an item on a future agenda.

**ADJOURNMENT:**

The next Steering Committee meeting is scheduled for Wednesday, July 28, 2021 at 5:00 p.m.

## STEERING COMMITTEE

### Agenda Report

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**File #:** 2021-1654

**Agenda Date:** 6/23/2021

**Agenda Item No:** 1.

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**FROM:** James D. Herberg, General Manager  
Originator: Kelly A. Lore, Clerk of the Board

**SUBJECT:**

#### APPROVAL OF MINUTES

#### GENERAL MANAGER'S RECOMMENDATION

##### RECOMMENDATION:

Approve Minutes of the Regular Meeting of Steering Committee held May 26, 2021.

#### BACKGROUND

In accordance with the Board of Directors Rules of Procedure, an accurate record of each meeting will be provided to the Directors for subsequent approval at the following meeting.

#### RELEVANT STANDARDS

- Resolution No. OC SAN 21-04

#### ATTACHMENT

*The following attachment(s) may be viewed on-line at the OC San website ([www.ocsan.gov](http://www.ocsan.gov)) with the complete agenda package:*

- Minutes of the Steering Committee meeting held May 26, 2021



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## **CALL TO ORDER**

A regular meeting of the Steering Committee of the Orange County Sanitation District was called to order by Board Chairman David Shawver on Wednesday, May 26, 2021 at 5:01 p.m. in the Administration Building of the Orange County Sanitation District. Chair Shawver stated that the meeting was being held telephonically and via audio/video teleconferencing in accordance with the Governor's Executive Order No. N-29-20, due to the Coronavirus Pandemic (COVID-19).

## **ROLL CALL AND DECLARATION OF QUORUM:**

A quorum was declared present, as follows:

**PRESENT:** David Shawver, John Withers, Stacy Berry, Sandra Massa-Lavitt,  
Glenn Parker, Jesus Silva and Chad Wanke  
**ABSENT:** None

**STAFF MEMBERS PRESENT:** Clerk of the Board Kelly Lore and Joshua Martinez were present in the Board Room. General Manager Jim Herberg, Assistant General Manager Lorenzo Tyner, Assistant General Manager Rob Thompson, Director of Engineering Kathy Millea, Director of Environmental Services Lan Wiborg, Director of Human Resources Celia Chandler, Jennifer Cabral, Jackie Castro, Tanya Chong, Raul Cuellar, Brian Engeln, Tom Grant, Tina Knapp, Robert Michaels, Jeffrey Mohr, Andrew Nau, Wally Ritchie, Thomas Vu, and Ruth Zintzun participated telephonically.

**OTHERS PRESENT:** Brad Hogin, General Counsel, was present in the Board Room.

## **PUBLIC COMMENTS:**

Clerk of the Board Kelly Lore read three public comments into record in regard to Item No. 2. Ms. Lore also stated that she received late communication from General Manager Herberg that Closed Session Item No. CS-1 would not be heard this evening.

## **REPORTS:**

Chair Shawver did not provide a report.

General Manager Jim Herberg notified the Committee of a sewer line that was damaged today by a Contractor and stated that the damage did not cause a sewer spill and is currently being repaired.

**CONSENT CALENDAR:****1. APPROVAL OF MINUTES**[2021-1600](#)**Originator:** Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of Steering Committee held April 28, 2021.

**AYES:** David Shawver, John Withers, Stacy Berry, Sandra Massa-Lavitt,  
Glenn Parker and Chad Wanke**NOES:** None**ABSENT:** Jesus Silva**ABSTENTIONS:** None**NON-CONSENT:***Director Jesus Silva arrived at the meeting at 5:09 p.m.***2. HEADQUARTERS COMPLEX AT PLANT NO. 1, PROJECT NO. P1-128A**[2021-1528](#)**Originator:** Kathy Millea

Director of Engineering Kathy Millea provided a brief PowerPoint presentation of the Headquarters Complex at Plant No. 1 project.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

A. Receive and file Bid Tabulation and Recommendation for Headquarters Complex at Plant No 1, Project No. P1-128A;

B. Award a Construction Contract to Swinerton Builders for Headquarters Complex at Plant No 1, Project No. P1-128A, for an amount not to exceed \$102,544,974; and

C. Approve a contingency of \$5,127,249 (5%).

**AYES:** David Shawver, John Withers, Stacy Berry, Sandra Massa-Lavitt,  
Glenn Parker, Jesus Silva and Chad Wanke**NOES:** None**ABSENT:** None**ABSTENTIONS:** None

**INFORMATION ITEMS:**

None.

**DEPARTMENT HEAD REPORTS:**

None.

**CLOSED SESSION:****CONVENED IN CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTIONS 54956.8, 54957(a) & 54956.9(d)(1):**

The Committee convened in closed session at 5:22 p.m. to discuss two items. Item CS-1 was not heard. Confidential minutes of the Closed Sessions have been prepared in accordance with the above Government Code Sections and are maintained by the Clerk of the Board in the Official Book of Confidential Minutes of Board and Committee Closed Session Meetings.

**CS-1 CONFERENCE WITH REAL PROPERTY NEGOTIATORS -  
GOVERNMENT CODE SECTION 54956.8**[2021-1666](#)

**Originator:** Lorenzo Tyner

ITEM NOT HEARD.

Property: 1516 W. Balboa Blvd., Newport Beach, CA; APN No. 047-222-10

Agency negotiators: General Manager, Jim Herberg; Assistant General Manager, Lorenzo Tyner; Assistant General Manager, Rob Thompson; and Director of Engineering, Kathy Millea.

Negotiating parties: City of Newport Beach

Under negotiation: Price and terms of payment

**CS-2 THREAT TO PUBLIC SERVICES OR FACILITIES (GOVERNMENT  
CODE SECTION 54957 (a))**[2021-1669](#)

**Originator:** Lorenzo Tyner

CONVENED IN CLOSED SESSION:

Consultation with the Information Technology Systems & Operations Manager regarding cyber security.

**CS-3 CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION -  
GOVERNMENT CODE SECTION 54956.9(d)(1)**[2021-1675](#)**Originator:** Celia Chandler

CONVENED IN CLOSED SESSION:

Number of Cases: 1

Jose O. Cruz v. Orange County Sanitation District Financing Corporation, a California corporation; and Does 1-50, inclusive, Superior Court of California, County of Orange, Case No. 30-2019-01100180-CU-WT-CJC.

**RECONVENED IN REGULAR SESSION.**

The Committee reconvened in regular session at 6:07 p.m.

**CONSIDERATION OF ACTION, IF ANY, ON MATTERS CONSIDERED IN CLOSED SESSION:**

General Counsel Brad Hogin did not provide a report.

**OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:**

None.

**BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:**

None.

**ADJOURNMENT:**

Chair Shawver declared the meeting adjourned at 6:08 p.m. to the next Steering Committee meeting to be held on June 23, 2021 at 5:00 p.m.

Submitted by:

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Kelly A. Lore, MMC  
Clerk of the Board

## STEERING COMMITTEE

### Agenda Report

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**File #:** 2021-1706

**Agenda Date:** 6/23/2021

**Agenda Item No:** 2.

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**FROM:** James D. Herberg, General Manager

**SUBJECT:**

#### **GENERAL MANAGER'S FY 2020-2021 WORK PLAN YEAR-END REPORT**

#### **GENERAL MANAGER'S RECOMMENDATION**

**RECOMMENDATION:** Recommend to the Board of Directors to:

Receive and file the General Manager's FY 2020-2021 Work Plan Year-End Report.

#### **BACKGROUND**

Each year, the General Manager prepares a work plan of activities supporting Orange County Sanitation District's strategic goals and initiatives to be accomplished during the fiscal year. The General Manager's FY 2020-2021 draft work plan was reviewed with the Steering Committee in July 2020. The final work plan was received and filed by the Steering Committee and Board of Directors in August 2020; and a mid-year update was provided in January 2021. Attached is the year-end report for the General Manager's FY 2020-2021 work plan.

#### **RELEVANT STANDARDS**

- Maintain a culture of improving efficiency to reduce the cost to provide the current service level or standard
- Plan for and execute succession, minimizing vacant position times
- Cultivate a highly qualified, well-trained, and diverse workforce
- Maintain and adhere to appropriate internal planning documents (Biosolids, Odor, and Energy Master Plans)
- Use all practical and effective means for resource recovery

#### **PRIOR COMMITTEE/BOARD ACTIONS**

January 2021 - Steering and Board of Directors received and filed the mid-year update of the General Manager's FY 2020-2021 Work Plan.

August 2020 - Steering Committee and Board of Directors received and filed the General Manager's FY 2020-2021 Work Plan.

July 2020 - Steering Committee received and filed the General Manager's Fiscal Year 2020-2021 Draft Work Plan.

### **ADDITIONAL INFORMATION**

The General Manager's work plan includes 17 goals for the fiscal year. Fourteen items in the work plan have been completed, three will carry over into fiscal year 2021-2022.

### **FINANCIAL CONSIDERATIONS**

All items included in the General Manager's Work Plan were budgeted in the FY 2020-2021 Budget.

### **ATTACHMENT**


*The following attachment(s) may be viewed on-line at the OC San website ([www.ocsan.gov](http://www.ocsan.gov)) with the complete agenda package:*

- General Manager's FY 2020-2021 Work Plan Year-End Report



June 23, 2021

**TO:** Chairman and Members of the Board of Directors

**FROM:** James D. Herberg, General Manager 

**SUBJECT:** General Manager's FY 2020-2021 Work Plan Year-End Report

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I am pleased to present the year-end report for my Fiscal Year 2020-21 Work Plan. The Work Plan has 17 individual goals organized under the four focus areas of business principles, environmental stewardship, wastewater management, and workplace environment. This Work Plan was reviewed and approved by the Steering Committee and Board of Directors in August 2020 and a mid-year update was provided in January 2021.

**1. Business Principles**

- **Budget Control and Fiscal Discipline** – Provide the Administration Committee with an analysis of options, including an IRS Section 115 Trust for funding OC San's pension obligations by October 31, 2020.

**UPDATE: Complete.** Proposals were received and reviewed. Purchasing and Contracts is currently working with legal counsel to finalize contract language. Award will go to Administration Committee and Board in July 2021.

- **Asset Management Plan** – Update the Asset Management Plan by December 31, 2020 including an inventory of critical assets for each process area and the collection system; an evaluation of their condition and performance; and an updated implementation plan to maintain, rehabilitate, and replace these assets to meet the required levels of service at the lowest life cycle cost and at an acceptable level of risk.

**UPDATE: Complete.** The Asset Management Plan is complete and was presented to the Operations Committee and the Board in December 2020.

- **Headquarters Project** – Complete site preparation for the new Headquarters facility, Project P1-128C, by June 30, 2021.

**UPDATE: Complete.** Demolition of the buildings and site preparation were completed in January 2021.

- **Cybersecurity/Safety** – Develop and conduct two emergency response and recovery drills for our interplant digester gas line and a cybersecurity breach by June 30, 2021.

**UPDATE: Complete.** OC San conducted a full-scale emergency response exercise of the Interplant Digester Gas Pipeline on April 28, 2021. The exercise tested OC San's response to an externally caused utility line strike that required isolation of the pipeline, mobilization of the damage assessment team, coordination of repairs, and response to public inquiries. The comprehensive drill simulated a line break and fire with real time interaction from other local agencies. Liberty Energy Services and the Water Emergency Response Organization of Orange County evaluated OC San's response to this exercise. In addition, in April 2021, IT conducted four tabletop exercises. The scenarios included e-mail phishing, data theft, ransomware, and unauthorized application access. These exercises were conducted with the assistance of outside cybersecurity specialists, Tevora, and teams from IT, Engineering, Finance, Human Resources, and Public Affairs. This effort is part of the development of OC San's cybersecurity incident response plan.

- **Property Management** – Inspect real property, easements, and rights-of-way for encroachments and encumbrances which limit access or impede proper use of the right by December 31, 2020. Develop action plans by June 30, 2021 that restore long-term use for identified encroachments or encumbrances.

**UPDATE: Continuing.** Inventory and inspections are complete. Minor access limitations and encumbrances are addressed as they occur. Large issues, such as the Miller Holder Easement south of Heil are being worked on by the Executive Management Team and legal counsel. Completed action plans will be implemented during the 2021-22 Fiscal Year.

## 2. **Environmental Stewardship**

- **Energy Independence** – Overhaul two Central Generation Engines to begin the second 25-year operations cycle for the Central Generation Facilities by June 30, 2021.

**UPDATE: Continuing.** The first contractor failed to deliver a working rebuilt engine. A second vendor, the Original Equipment Manufacturer for the engine, has been contracted and began work in May 2021.

- **Climate and Catastrophic Event Resilience** – Execute a contingency biosolids disposal agreement with Orange County Waste and Recycling (OCWR) to formally establish a local emergency failsafe biosolids disposal option by March 31, 2021.

**UPDATE: Complete.** In September 2020, OCWR provided guidance to OC San on a protocol to deliver biosolids during an emergency. OCWR has

designated Prima Deshecha Landfill as the emergency failsafe landfill for biosolids disposal.

- **Food Waste Treatment** – Complete market assessment for food waste feedstock co-digestion at OC San. Solicit bids to construct the Interim Food Waste Facility at Plant No. 2, Project P2-124, by December 31, 2020.

**UPDATE: Complete.** Draft contracts issued to three food waste haulers in November 2020. Solicitation for bids to construct advertised on December 1, 2020.

- **Water Reuse** – Study alternatives to reduce the use of City Water in its operations by October 31, 2020 and implement water saving measures by June 30, 2021.

**UPDATE: Complete.** In March 2021, staff successfully tested plant water as a replacement for city water in the centrifuge polymer system. Staff are replumbing the centrifuge polymer systems for plant water use with planned completion in June 2021.

- **Environmental Water Quality, Stormwater Management and Urban Runoff** – Complete business process mapping for source control permit management, compliance data management, and Environmental Protection Agency compliant reporting to evaluate the current system and alternatives for enhancing the system. Complete final report and recommendations by March 31, 2021.

**UPDATE: Continuing.** The external vendor was selected in early 2021 and a kick-off meeting was held in April 2021 to refine project tasks and the corresponding schedule. This item will be carried over to my Fiscal Year 2021-22 GM Work Plan.

### 3. **Wastewater Management**

- **Chemical Sustainability** – OC San will develop a plan to maintain at least two suppliers for iron-based coagulants at all times with a final report-out to the Board of Directors by June 30, 2021.

**UPDATE: Complete.** OC San has maintained ferric chloride supply contracts with two independent vendors, Kemira and Pencco. Each supplier has the capacity to meet the total demand of OC San. The current contract with each supplier allows for three additional annual renewals.

- **Biosolids Management** – Conduct an annual review of the regulatory aspects of the OC San Biosolids Management Plan to adjust for evolving regulations for contaminants of emerging concern and update contingency options as

needed. Provide an informational update to the Board of Directors by June 30, 2021.

**UPDATE: Complete.** A programmatic information update was presented to the Board of Directors as a part of the 2021 Strategic Planning Special Workshop on April 21, 2021.

- **Constituents of Emerging Concern** – Continue OC San's leadership role in developing analytical capability, advocating for sound science and regulations, and identification of significant sources in constituents of emerging concerns such as per- and polyfluoroalkyl (PFAS) and microplastics. Provide an informational briefing to the Board of Directors by June 30, 2021. Provide preliminary results from the California State Water Resources Control Board investigative order for PFAS by June 30, 2021.

**UPDATE: Complete.** An information update was presented to the Board of Directors as a part of the 2021 Strategic Planning Special Workshop on April 21, 2021. OC San is developing an in-house method to measure 39 PFAS compounds in wastewater and obtain method certification by the end of the 2021 calendar year. Staff is preparing an update on the Investigative Order sampling results to date to be included as part of the June 2021 GM Monthly Report.

#### **4. Workplace Environment**

- **COVID-19 Pandemic Response and Recovery** – Continue to respond to the COVID-19 pandemic with operations remaining in full permit compliance while providing a safe workplace and complying with the Center for Disease Control and Prevention health official guidance, and applicable employment and labor laws. Develop a “reopening plan” and present it to the Board of Directors by September 30, 2020.

**UPDATE: Complete.** COVID-19 response efforts continue with the Executive Management Team meeting daily and the internal Emergency Operations Center and Pandemic Team meetings occurring weekly and biweekly, respectively. As COVID-19 has extended longer than anticipated, the “reopening plan” was deferred from the initial completion date of September 30, 2020 to a Return to Office Plan. The Pandemic Team has completed *Return to Office* criteria which has been provided to use in development of workspace schedules for returning teleworkers to the physical worksite; all while maintaining COVID-19 protocols to ensure a safe work environment during and after plan implementation.

- **Safety and Physical Security** – Complete implementation of an Industrial Hygiene Program and a Job Safety Analysis program to meet the Voluntary Protection Program requirements by June 30, 2021.

**UPDATE: Complete.** In November 2020, two safety and health policies were adopted for Industrial Hygiene (SOP-642) and Hazard Assessment and Risk Control (SOP-645) to meet the Voluntary Protection Program requirements. The Industrial Hygiene Program established the framework for how qualitative and quantitative assessments will be completed, documented, and updated. The qualitative assessments (or hazard analysis) have been completed for the year. Quantitative assessments (or sampling) have been ongoing throughout the year and will continue each year moving forward. Job Safety Analysis (JSA) are reviewed and updated on an ongoing basis and new ones are created for all high hazard jobs where a JSA does not already exist. Hazard identification training, which will teach employees how to use JSAs, is scheduled for June 2021. Results of the industrial hygiene assessments and JSAs will be maintained in Cority, OC San's Incident Management System Software. In May 2021, Cority was expanded to include an Industrial Hygiene and JSA module to centralize information, streamline processes, and effectively manage safety and health programs.

- **Classification and Compensation Study** – Begin preparations for an agencywide Classification and Compensation Study by completing a Request for Proposal for a specialized vendor and accessing, discussing, and meeting and conferring regarding the 17 survey agencies by June 30, 2021.

**Update: Complete.** The Classification and Compensation Studies Request for Proposals (RFP) was advertised March 10 to April 15, 2021. An invitation to bid was sent to approximately 1,060 registered vendors and additional vendors recommended by other Orange County agencies. The Scope of Work was comprehensive for classification and compensation study phases and included specific items identified with management and the Board of Directors. RFP evaluation criteria included qualifications of firm, proposed staffing/project organization, work plan, oral interviews, and cost/price. Final vendor selection will be presented for approval at June's Administration Committee and Board meetings. The project will begin once the vendor is in place, with a comprehensive study that will update job descriptions, analyze salary market position against survey agencies, review internal equity, etc.

- **Succession Planning** – Conduct two specialized training classes for supervisors, managers, and executive management team members and provide organizational awareness coursework via OC San "U" for all employees with a final report-out on June 30, 2021.

**Update: Complete.** In 2020, two trainings were provided to supervisors, managers, and EMT that offered various topics designed to provide the tools and resources needed to navigate the core functions of OC San. Specifically, the groups received training from seasoned legal experts on Navigating Public Sector and Performance Management Best Practices; and the feedback received indicated the training was effective in providing practical tools and

guidance. In September 2020, a renewed, all virtual voluntary development program was launched (now called OC San “U”). Learning options included monthly webinars and on demand content relating to leadership, technology, communication, and organizational awareness. Employees may also apply to participate in mentoring and a CSUF leadership curriculum. For fiscal year 2020-21, over 50 percent of staff participated in at least one option, 60 joined each webinar, and course feedback was consistently positive. In fiscal year 2021-22, OC San “U” will continue to offer pertinent topics and explore further program enhancement ideas.

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**File #:** 2021-1434

**Agenda Date:** 6/23/2021

**Agenda Item No:** 3.

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**FROM:** James D. Herberg, General Manager  
Originator: Kathy Millea, Director of Engineering

**SUBJECT:**

**INTERIM FOOD WASTE RECEIVING FACILITY, PROJECT NO. P2-124**

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Interim Food Waste Receiving Facility, Project No P2-124; and
- B. Reject all bids and direct staff to continue efforts to negotiate agreements with food waste pre-processors.

**BACKGROUND**

The State of California requires cities to divert organics such as food waste away from landfills. This food waste, after processing, can be added to an anaerobic digester such as those operated by the Orange County Sanitation District (OC San) to produce methane gas and energy. This food waste must be hauled from the source to a pre-processing facility to produce a pumpable product that can be introduced into OC San's anaerobic digesters, and then trucked to OC San.

The Biosolids Master Plan evaluated the feasibility of receiving pre-processed food waste and determined that the costs to construct and operate the required processing facilities could be offset by tipping fees charged to food waste pre-processors and additional power generated from increased digester gas production. The Biosolids Master Plan recommended construction of an interim food waste facility until a more permanent facility can be constructed in 10 to 15 years.

The design of Interim Food Waste Receiving Facility, Project No. P2-124, has been completed, and construction bids have been received.

**RELEVANT STANDARDS**

- Use all practical and effective means for resource recovery
- Ensure the public's money is wisely spent

**PROBLEM**

Staff has been negotiating with food waste management companies to deliver pre-processed food waste in time to test and operate the Interim Food Waste Receiving Facility. Producing pre-processed food waste that OC San can accept requires companies to acquire a site for the processing facility, obtain approvals and permits, and build the facility. While there has been strong interest, to date no company is ready to agree to a contract because they will not be able to complete their pre-processing facilities in time.

Without revenue from tipping fees from haulers, OC San would have no way to recover the cost of its facility.

**PROPOSED SOLUTION**

Reject all bids for Interim Food Waste Receiving Facility, Project No. P2-124. Staff expects that food waste management companies will eventually be ready to commit, but when an appropriate pre-processing facility would be operational cannot be predicted with any certainty. Staff will continue discussions with interested food waste management companies. When such a company is ready to commit, and has a credible schedule for construction, OC San can reissue the project for construction bids.

**TIMING CONCERNS**

Cities are required by the State of California to divert organics from landfills beginning January 2022.

OC San will need approximately 21 months from the date that the reissued construction contract documents are advertised until the facility is ready to receive pre-processed food waste. Staff expects that a new pre-processing facility would take substantially longer than that for property acquisition, obtaining permits, and construction.

**RAMIFICATIONS OF NOT TAKING ACTION**

Board action is required by the California Public Contract Code to either award the contract as advertised or to reject all bids.

**ADDITIONAL INFORMATION**

OC San advertised for bids on December 1, 2020, and seven bids were received on January 19, 2021. A summary of the bids follows:

Engineer's Estimate	\$2,660,000
<u>Bidder</u>	<u>Amount of Bid</u>
Aid Builders, Inc.	\$2,635,000
J.R. Filanc Construction Co., Inc.	\$3,149,537
Tharsos Inc.	\$3,196,000
PCL Construction, Inc.	\$3,232,417
Innovative Construction Solutions	\$3,299,000



Shimmick Construction Company, Inc.	\$3,546,000
Mehta Mechanical Co. Inc.	\$3,555,000
dba MMC Inc.	

The bids were evaluated in accordance with OC San's policies and procedures. Staff determined the apparent low bidder was non-responsive. An evaluation of the second apparent low bidder, J.R. Filanc Construction Co., Inc. (Filanc), determined the bid of \$3,149,537 to be both responsive and responsible.

Staff and J.R. Filanc Construction Co., Inc., agreed to an initial 40-day extension of the bid validity period to allow more time to negotiate with haulers and pre-processors. Responding to a staff request, Filanc indicated that they would only agree to a 90-day extension of the bid validity with a cost increase, which legal counsel indicated could not be granted.

## **CEQA**

The project is included in the Biosolids Master Plan Program Environmental Impact Report (PEIR), State Clearinghouse Number 2017071026. A Notice of Determination was filed on September 27, 2018, after Board approval of the Professional Design Services Agreement.

## **ATTACHMENT**

*The following attachment(s) may be viewed on-line at the OC San website ([www.ocsan.gov](http://www.ocsan.gov)) with the complete agenda package:*

N/A

JGD:dm

## STEERING COMMITTEE

### Agenda Report

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**File #:** 2021-1694

**Agenda Date:** 6/23/2021

**Agenda Item No:** CS-1

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**FROM:** James D. Herberg, General Manager

**SUBJECT:**

**CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION - GOVERNMENT CODE SECTION 54956.9(D)(1)**

**RECOMMENDATION:** Convene in Closed Session:

Number of Cases: 1

Bayside Village Marina, LLC v. Orange County Sanitation District; Orange County Sanitation District Board of Directors; and Does 1-25, Inclusive, Superior Court of the State of California for the County of Orange - Central Justice Center Case No. 30-2021-01194238-CU-WM-CXC.

#### **BACKGROUND**

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

#### **RELEVANT STANDARDS**

- Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

#### **ATTACHMENT**

*The following attachment(s) may be viewed on-line at the OC San website ([www.ocsan.gov](http://www.ocsan.gov)) with the complete agenda package:*

- Memorandum from General Counsel

## MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Steering Committee

FROM: Bradley R. Hogin, Esq.  
General Counsel

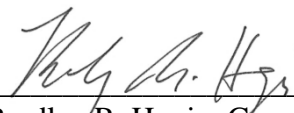
DATE: June 15, 2021

RE: Closed Session Items

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The Steering Committee desires to hold a closed session on June 23, 2021 for the purpose of conferring with its legal counsel regarding existing litigation to which the District is a party. The title of the case is *Bayside Village Marina, LLC v. Orange County Sanitation District et. al.*, Superior Court of the State of California for the County of Orange – Central Justice Center Case No. 30-2021-01194238-CU-WM-CXC. The closed session will be held pursuant to the authority of California Government Code Section 54956.9(d)(1).

Respectfully submitted,

By   
Bradley R. Hogin, General Counsel

## STEERING COMMITTEE

### Agenda Report

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**File #:** 2021-1685

**Agenda Date:** 6/23/2021

**Agenda Item No:** CS-2

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**FROM:** Celia Chandler, Director of Human Resources

**SUBJECT:**

**PUBLIC EMPLOYEE PERFORMANCE EVALUATION 54957(B)(1)**

**RECOMMENDATION:** Convene in Closed Session:

Public Employee Performance Evaluation

Number of Employees: 1

- General Manager

**BACKGROUND**

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

**RELEVANT STANDARDS**

- Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

**ATTACHMENT**

*The following attachment(s) may be viewed on-line at the OC San website ([www.ocsan.gov](http://www.ocsan.gov)) with the complete agenda package:*

- Memorandum from General Counsel



WOODRUFF, SPRADLIN & SMART  
A Professional Corporation

555 ANTON BOULEVARD, SUITE 1200  
COSTA MESA, CA 92626-7670  
(714) 558-7000

## MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Steering Committee

FROM: Bradley R. Hogin, Esq.  
General Counsel

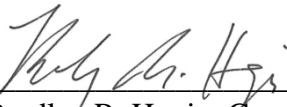
DATE: June 15, 2021

RE: Closed Session Items

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The Steering Committee desires to hold a closed session on June 23, 2020 for the purpose of conferring for the evaluation of the District's General Manager. Said closed session will be held pursuant to authority of California Government Code Section 54957(b)(1).

Respectfully submitted,

By:   
Bradley R. Hogin, General Counsel

## ORANGE COUNTY SANITATION DISTRICT COMMON ACRONYMS

<b>ACWA</b>	Association of California Water Agencies	<b>LOS</b>	Level Of Service	<b>RFP</b>	Request For Proposal
<b>APWA</b>	American Public Works Association	<b>MGD</b>	Million Gallons Per Day	<b>RWQCB</b>	Regional Water Quality Control Board
<b>AQMD</b>	Air Quality Management District	<b>MOU</b>	Memorandum of Understanding	<b>SARFPA</b>	Santa Ana River Flood Protection Agency
<b>ASCE</b>	American Society of Civil Engineers	<b>NACWA</b>	National Association of Clean Water Agencies	<b>SARI</b>	Santa Ana River Interceptor
<b>BOD</b>	Biochemical Oxygen Demand	<b>NEPA</b>	National Environmental Policy Act	<b>SARWQCB</b>	Santa Ana Regional Water Quality Control Board
<b>CARB</b>	California Air Resources Board	<b>NGOs</b>	Non-Governmental Organizations	<b>SAWPA</b>	Santa Ana Watershed Project Authority
<b>CASA</b>	California Association of Sanitation Agencies	<b>NPDES</b>	National Pollutant Discharge Elimination System	<b>SCADA</b>	Supervisory Control And Data Acquisition
<b>CCTV</b>	Closed Circuit Television	<b>NWRI</b>	National Water Research Institute	<b>SCAP</b>	Southern California Alliance of Publicly Owned Treatment Works
<b>CEQA</b>	California Environmental Quality Act	<b>O &amp; M</b>	Operations & Maintenance	<b>SCAQMD</b>	South Coast Air Quality Management District
<b>CIP</b>	Capital Improvement Program	<b>OCCOG</b>	Orange County Council of Governments	<b>SOCWA</b>	South Orange County Wastewater Authority
<b>CRWQCB</b>	California Regional Water Quality Control Board	<b>OCHCA</b>	Orange County Health Care Agency	<b>SRF</b>	Clean Water State Revolving Fund
<b>CWA</b>	Clean Water Act	<b>OCSD</b>	Orange County Sanitation District	<b>SSMP</b>	Sewer System Management Plan
<b>CWEA</b>	California Water Environment Association	<b>OCWD</b>	Orange County Water District	<b>SSO</b>	Sanitary Sewer Overflow
<b>EIR</b>	Environmental Impact Report	<b>OOBS</b>	Ocean Outfall Booster Station	<b>SWRCB</b>	State Water Resources Control Board
<b>EMT</b>	Executive Management Team	<b>OSHA</b>	Occupational Safety and Health Administration	<b>TDS</b>	Total Dissolved Solids
<b>EPA</b>	US Environmental Protection Agency	<b>PCSA</b>	Professional Consultant/Construction Services Agreement	<b>TMDL</b>	Total Maximum Daily Load
<b>FOG</b>	Fats, Oils, and Grease	<b>PDSA</b>	Professional Design Services Agreement	<b>TSS</b>	Total Suspended Solids
<b>gpd</b>	gallons per day	<b>PFAS</b>	Per- and Polyfluoroalkyl Substances	<b>WDR</b>	Waste Discharge Requirements
<b>GWRS</b>	Groundwater Replenishment System	<b>PFOA</b>	Perfluorooctanoic Acid	<b>WEF</b>	Water Environment Federation
<b>ICS</b>	Incident Command System	<b>PFOS</b>	Perfluorooctanesulfonic Acid	<b>WERF</b>	Water Environment & Reuse Foundation
<b>IERP</b>	Integrated Emergency Response Plan	<b>POTW</b>	Publicly Owned Treatment Works	<b>WIFIA</b>	Water Infrastructure Finance and Innovation Act
<b>JPA</b>	Joint Powers Authority	<b>ppm</b>	parts per million	<b>WIIN</b>	Water Infrastructure Improvements for the Nation Act
<b>LAFCO</b>	Local Agency Formation Commission	<b>PSA</b>	Professional Services Agreement	<b>WRDA</b>	Water Resources Development Act

## ORANGE COUNTY SANITATION DISTRICT GLOSSARY OF TERMS

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**ACTIVATED SLUDGE PROCESS** – A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.

**BENTHOS** – The community of organisms, such as sea stars, worms, and shrimp, which live on, in, or near the seabed, also known as the benthic zone.

**BIOCHEMICAL OXYGEN DEMAND (BOD)** – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

**BIOGAS** – A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.

**BIOSOLIDS** – Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

**CAPITAL IMPROVEMENT PROGRAM (CIP)** – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

**COLIFORM BACTERIA** – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

**COLLECTIONS SYSTEM** – In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

**CERTIFICATE OF PARTICIPATION (COP)** – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

**CONTAMINANTS OF POTENTIAL CONCERN (CPC)** – Pharmaceuticals, hormones, and other organic wastewater contaminants.

**DILUTION TO THRESHOLD (D/T)** – The dilution at which the majority of people detect the odor becomes the D/T for that air sample.

**GREENHOUSE GASES (GHG)** – In the order of relative abundance water vapor, carbon dioxide, methane, nitrous oxide, and ozone gases that are considered the cause of global warming ("greenhouse effect").

**GROUNDWATER REPLENISHMENT SYSTEM (GWRS)** – A joint water reclamation project that proactively responds to Southern California's current and future water needs. This joint project between the Orange County Water District and OCSD provides 70 million gallons per day of drinking quality water to replenish the local groundwater supply.

**LEVEL OF SERVICE (LOS)** – Goals to support environmental and public expectations for performance.

**N-NITROSODIMETHYLAMINE (NDMA)** – A N-nitrosamine suspected cancer-causing agent. It has been found in the GWRS process and is eliminated using hydrogen peroxide with extra ultra-violet treatment.

**NATIONAL BIOSOLIDS PARTNERSHIP (NBP)** – An alliance of the NACWA and WEF, with advisory support from the EPA. NBP is committed to developing and advancing environmentally sound and sustainable biosolids management practices that go beyond regulatory compliance and promote public participation to enhance the credibility of local agency biosolids programs and improved communications that lead to public acceptance.

**PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)** – A large group (over 6,000) of human-made compounds that are resistant to heat, water, and oil and used for a variety of applications including firefighting foam, stain and water-resistant clothing, cosmetics, and food packaging. Two PFAS compounds, perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) have been the focus of increasing regulatory scrutiny in drinking water and may result in adverse health effects including developmental effects to fetuses during pregnancy, cancer, liver damage, immunosuppression, thyroid effects, and other effects.

**PERFLUOROOCTANOIC ACID (PFOA)** – An ingredient for several industrial applications including carpeting, upholstery, apparel, floor wax, textiles, sealants, food packaging, and cookware (Teflon).

**PERFLUOROOCTANESULFONIC ACID (PFOS)** – A key ingredient in Scotchgard, a fabric protector made by 3M, and used in numerous stain repellents.

**PLUME** – A visible or measurable concentration of discharge from a stationary source or fixed facility.

**PUBLICLY OWNED TREATMENT WORKS (POTW)** – A municipal wastewater treatment plant.

**SANTA ANA RIVER INTERCEPTOR (SARI) LINE** – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the ocean for disposal, after treatment.

**SANITARY SEWER** – Separate sewer systems specifically for the carrying of domestic and industrial wastewater.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)** – Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

**SECONDARY TREATMENT** – Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

**SLUDGE** – Untreated solid material created by the treatment of wastewater.

**TOTAL SUSPENDED SOLIDS (TSS)** – The amount of solids floating and in suspension in wastewater.

## **ORANGE COUNTY SANITATION DISTRICT GLOSSARY OF TERMS**

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**TRICKLING FILTER** – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

**URBAN RUNOFF** – Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

**WASTEWATER** – Any water that enters the sanitary sewer.

**WATERSHED** – A land area from which water drains to a particular water body. OCSD's service area is in the Santa Ana River Watershed.