



1



2

## Asset Management Philosophy



WHAT DO WE  
OWN?



WHAT CONDITION  
IS IT IN?

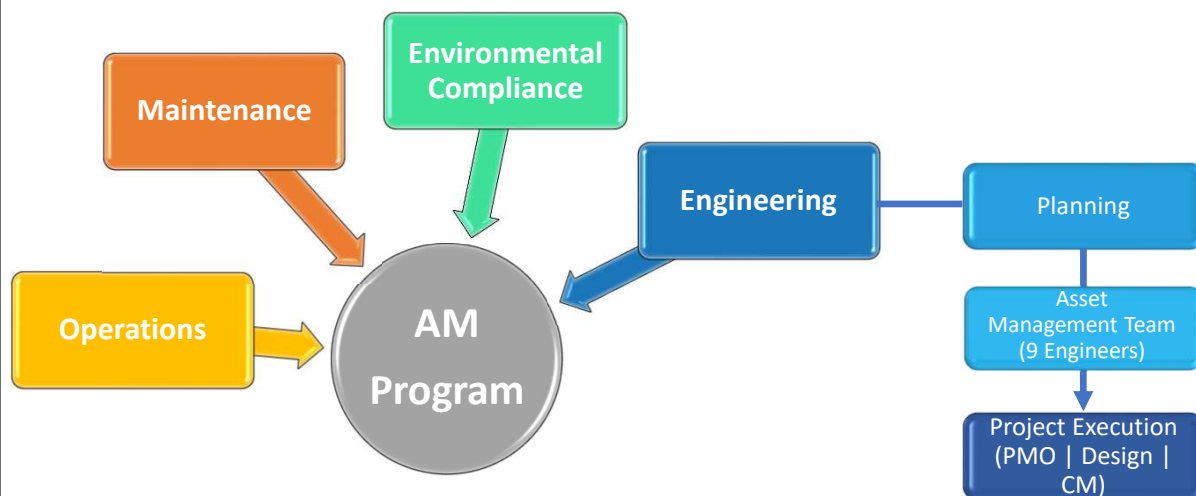


WHAT IS OUR PLAN TO  
OPERATE, MAINTAIN,  
REHABILITATE, AND  
REPLACE IT  
EFFECTIVELY?

3

3

## The Asset Management Program



4

4

## What is an Asset?

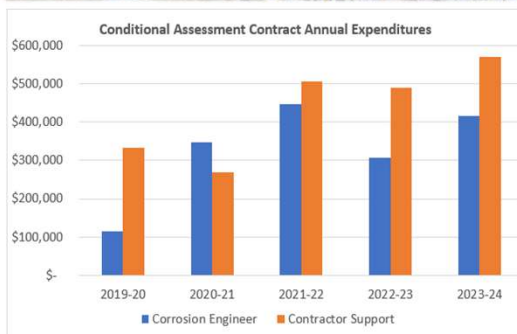
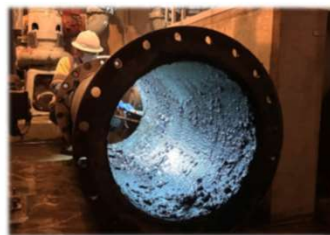


- Plays a substantial role in the collection or treatment process
- Necessary to meet level of service and/or permit compliance
- Requires predictive, proactive or preventative maintenance

5

5

## Condition Assessment Program



6

6

## Remaining Useful Life (RUL)



	<b>POOR</b>			<b>GOOD</b>	
<b>RUL Score</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>RUL</b>	<b>&lt; 5 years</b>	<b>5–10 years</b>	<b>11–15 years</b>	<b>16–20 years</b>	<b>&gt; 20 years</b>

RUL is the estimated time remaining until the asset cannot be reliably maintained and fails to provide the required level of service.

7

7

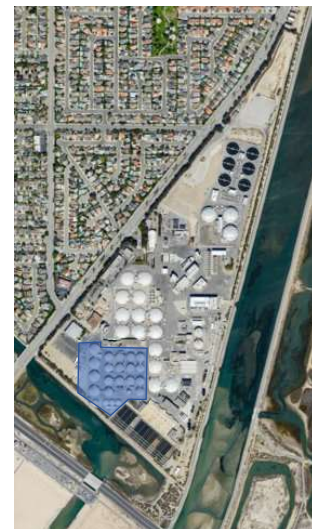
## How Projects Relate to RUL



Example: Digester Complex At Plant No. 2

Asset Type	Digester C	Digester D	Digester E	Digester F	Digester G	Digester H	Digester I	Digester J	Digester K	Digester L	Digester M	Digester N	Digester O	Digester P	Digester Q	Digester R	Digester S	Digester T	Digester Ferric
<b>Civil</b>																			
Effluent Piping	P2-137 & Repairs						3	3						P2-137 & Repairs					2
<b>Structural</b>																			
Structure																			
Digester Dome																			
<b>Mechanical</b>																			
Sludge Mixing Pumps/Jet Mixing																			
Sludge Recirculation and Heating System																			
Hot Water System																			
Sludge Transfer Pump																			
Piping and Valve																			
Chemical Pump																			
<b>Electrical</b>																			
MCCs																			
VFDs																			
<b>Instrumentation</b>																			
PLC and Flow Meter																			

■ RUL < 5 years  
 ■ RUL 5–10 years  
 ■ RUL 11–15 years  
 ■ RUL 16–20 years  
 ■ RUL > 20 years

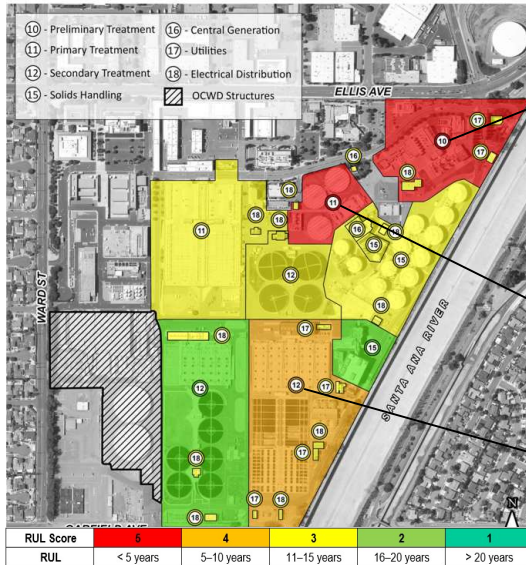


8

8



## Plant No. 1 Condition Summary & Plan



**Project No. P1-105**  
Headworks Rehabilitation  
Construction  
Completion 2027



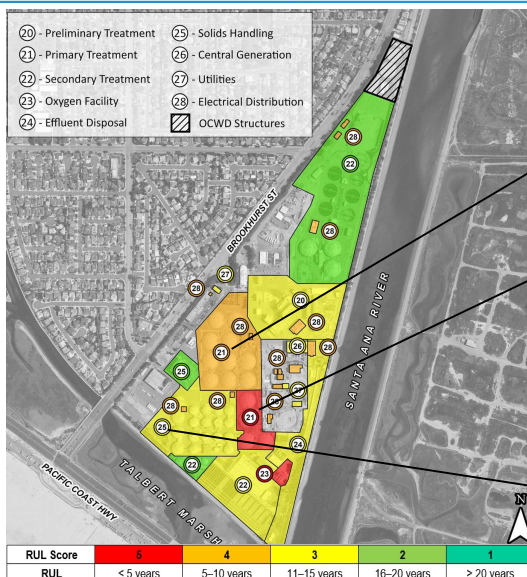
**Project No. P1-126**  
Primary Sedimentation Basins  
Replacement  
Design  
Completion 2031

**Project No. P1-140**  
Activated Sludge-1 & Secondary  
Clarifier Rehabilitation  
Design  
Completion 2033

9

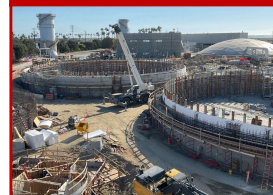
9

## Plant No. 2 Condition Summary & Plan



**Project No. P2-133**  
Primary Sedimentation Basins  
Rehabilitation  
Start 2026  
Completion 2035

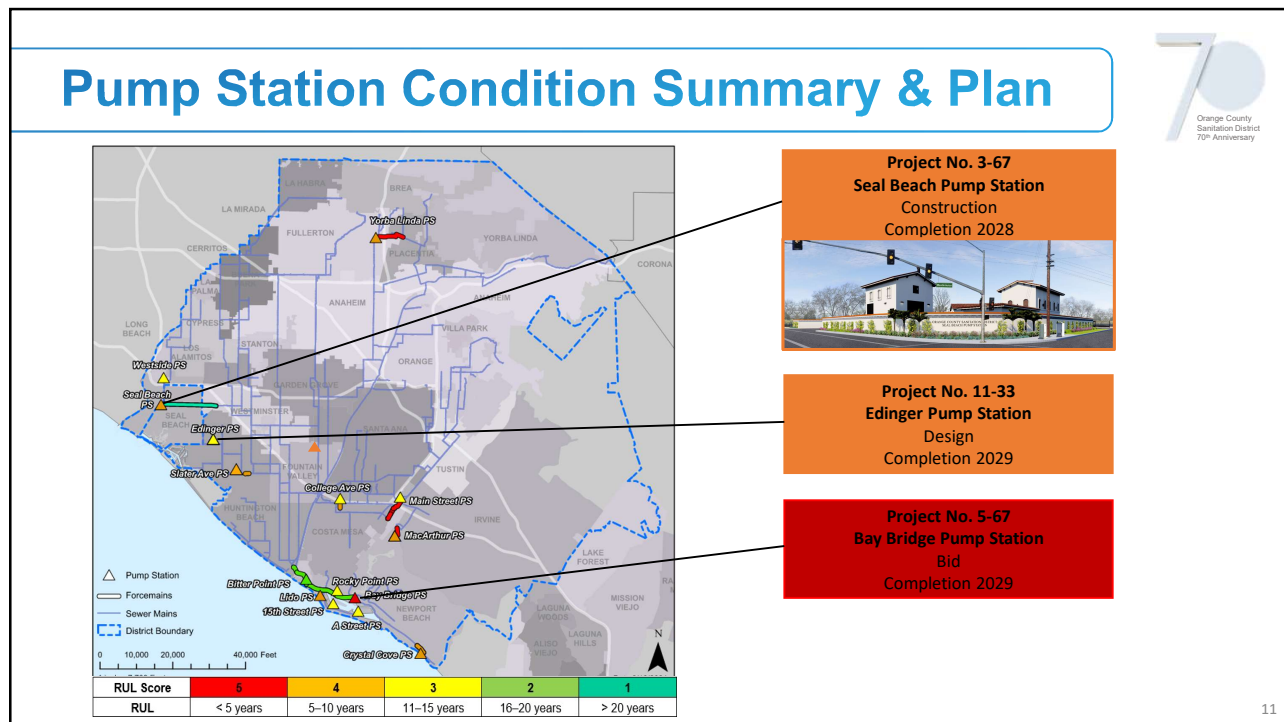
**Project No. P2-98A**  
Primary Clarifier Replacement  
Construction  
Completion 2027



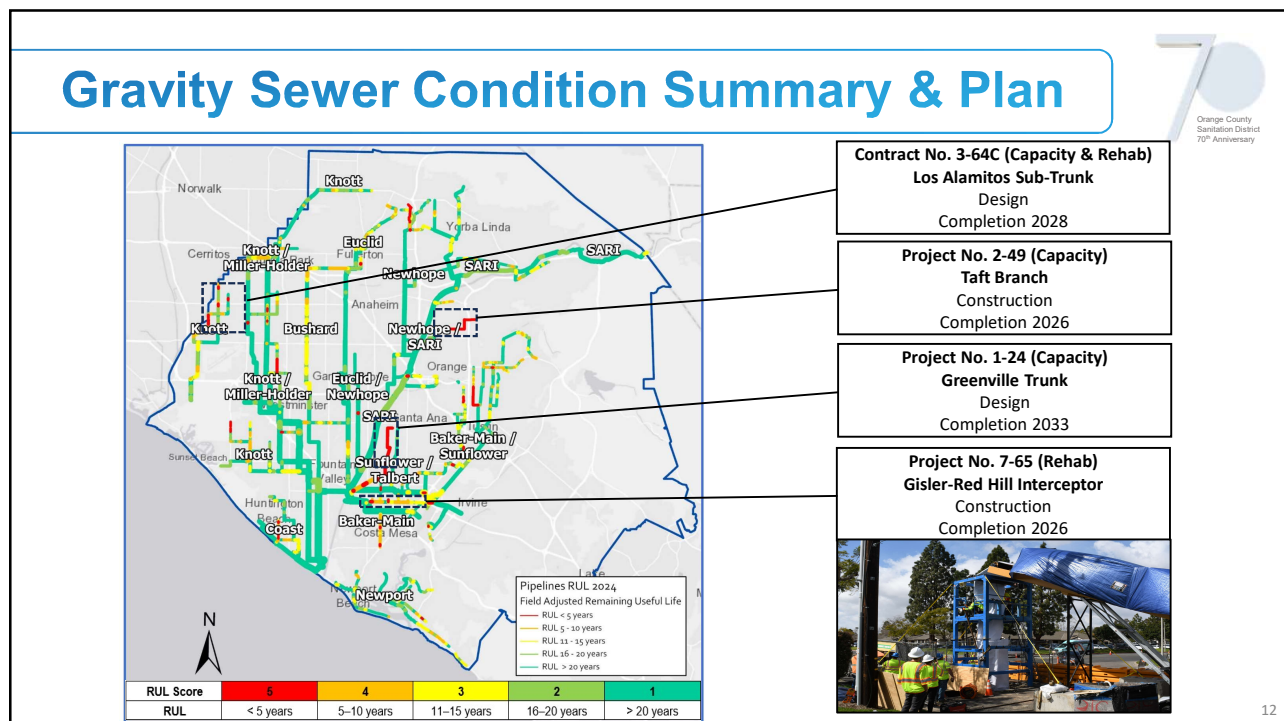
**Project No. P2-128**  
Digester Replacement  
Design  
Completion 2033

10

10



11



12

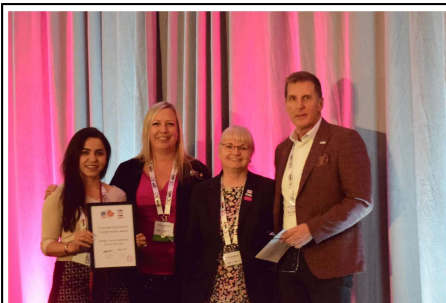
## Program Metric Example



13

13

## Asset Management Award



### Corporate/Organization Transformation Award

This award honors the Corporate Journey and the excellence displayed by organizations to progress their asset management competence. Any organizational effort towards the Corporate Journey, regardless of the asset management maturity, is considered for this award.

**WINNER**  
Orange County Sanitation District (OC San)

**SHORTLIST**  
City of Hillsboro, Oregon  
Milwaukee Metropolitan Sewerage District



14

14

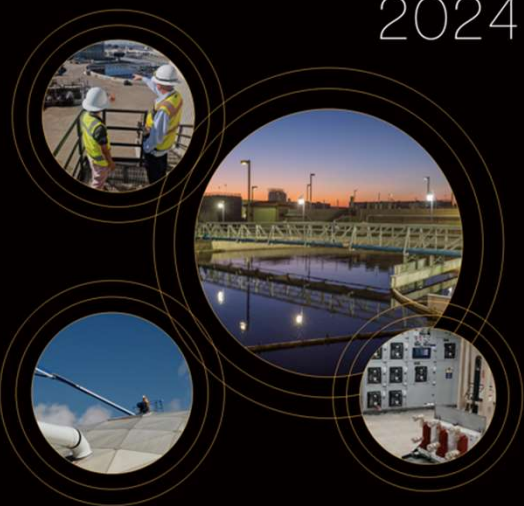
## IAM Award Video



15

15

## Asset Management Plan 2024



## Recommendation

Recommend to the Board of Directors to:

Adopt the Orange County Sanitation District 2024 Asset Management Plan.

16

16



