



Carmel Area Wastewater District Preliminary Capital Budget 2022-23

Prepared and Submitted

by

The Budget Committee

March 24, 2022

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Capital Budget Summary

2022-23

Carmel Area Wastewater District
Capital Budget Summary 2022-23

ITEM	ALLOCATION						Totals
	Admin	Maintenance	Collection	Treatment	PBCSD	Reclamation	
1 CIP Projects for Administration	25,000						25,000
2 CIP Maintenance - Plant		76,667				38,333	115,000
3 CIP Projects for Collection System			6,430,000				6,430,000
4 CIP Projects for Treatment & Disposal							0
5 CIP Long Term Capital Plan for Treatment & Disposal				3,553,316	1,721,324	126,110	5,400,750
Total CIP	25,000	76,667	6,430,000	3,553,316	1,759,657	126,110	11,970,750
1 Capital Equipment - Administration	7,000						7,000
2 Capital Equipment - Maintenance		0					0
3 Capital Equipment - Collections			72,500				72,500
4 Capital Equipment - Treatment				3,802	1,898	51,300	57,000
Total Capital Outlay	7,000	0	72,500	3,802	1,898	51,300	136,500
Grant Funding							0
Total CIP & Capital Outlay 19-20	32,000	76,667	6,502,500	3,557,118	1,761,555	177,410	12,107,250

Capital Budget Summary

2023-24

Carmel Area Wastewater District
Capital Budget Summary 2023-24

ITEM	ALLOCATION						Totals
	Admin	Maintenance	Collection	Treatment	PBCSD	Recla- mation	
1 CIP Projects for Administration	0						0
2 CIP Maintenance - Plant		0					0
3 CIP Projects for Collection System			3,317,286				3,317,286
4 CIP Projects for Treatment & Disposal							0
5 CIP Long Term Capital Plan for Treatment & Disposal				770,050	249,950	0	1,020,000
Total CIP	0	0	3,317,286	770,050	249,950	0	4,337,286
1 Capital Equipment - Administration	0						0
2 Capital Equipment - Maintenance		0					0
3 Capital Equipment - Collections			168,500				168,500
4 Capital Equipment - Treatment				5,336	2,664	8,000	16,000
Total Capital Outlay	0	0	168,500	5,336	2,664	8,000	184,500
Grant Funding							0
Total CIP & Capital Outlay 20-21	0	0	3,485,786	775,386	252,614	8,000	4,521,786

Capital Budget Maintenance – CIP

Carmel Area Wastewater District

Project Name: Blower 211/213 Local Control Panel Upgrade Project
 Dept: Maintenance
 Total Cost: \$ 115,000
 CY Budget \$ -
 GL Account:

Area: Blower Bldg
 Asset Type: Process Equip (Gas)
 Avg Useful Life: 20 years
 Est Residual Life: 1 year
 % Consumed Life: 100%
 Category: Capital Improvement
 Urgency: 1 = Critical
 Carry Forward: No

Asset Description

This project would replace the relay logic local control panel and sensors on blower 213 and provide matching standard PLC programs for both blowers. The 1998 blower would receive all new safety sensors to match blower 211 so one set of spares could be kept in inventory and repairs would be easier since the blowers would match. A new touchscreen control panel would be supplied with the blower 213 local control panel and blower 211 would receive a new matching touchscreen control panel. This project would compliment the new blower master control panel programming and provide for a robust, easier to maintain and more reliable blower system. This project takes a holistic approach to the blower system rather than our previous approach of upgrading components separately. The system would then provide 20 years plus of service and could be supported by multiple vendors.

Year Built: 1998
 Rehabilitation Date (Extending life of Asset): 2020
 Rehab Life Extension: 1
 Asset Condition Rating: 10

Justification

Standardization of control hardware, software and blower safety devices for the onboard controls of two different generation blowers. Standardization of onboard controls will make the blowers more reliable and easier to maintain and operate because the controls and hardware will be the same.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Management Corrective Maintenance
 Non Asset Risk Management

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25.26	Unscheduled	Total
Labor	0 \$	75,000				\$	75,000
Engineering	0 \$	-				\$	-
Parts & Supplies	0 \$	40,000				\$	40,000
Chemicals	0 \$	-				\$	-
Utility	0 \$	-				\$	-
Other	0 \$	-				\$	-
Total		\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ 115,000

**Capital Budget
Collections Dept –
Capital Purchases**

CAWD Collections Dept - Capital Equipment

FY 2022/23 thru 2026/27

Project #	PROJECT	22/23	23/24	24/25	25/26	26/27	Unscheduled
1	Portable Pump Station Sewage By-Pass Pump	\$ 72,500					
2	Generator At Hacienda Pump Station		\$ 78,500				
3	Replace existing collections CMMS		\$ 90,000				
4	Replace Collection Superintendent Truck (#17)			\$ 60,000			
	TREATMENT & DISPOSAL TOTAL	\$ 72,500	\$ 168,500	\$ 60,000	\$ -	\$ -	
	RECLAMATION SHARE	\$ -	\$ -	\$ -	\$ -	\$ -	
	PBCSD SHARE	\$ -	\$ -	\$ -	\$ -	\$ -	
	CAWD COST	\$ 72,500	\$ 168,500	\$ 60,000	\$ -	\$ -	

1 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lauer
Area: Pump Station
Asset Type: Collections Force
Avg Useful Life: 20 years
Est Residual Life:
% Consumed Life:
Category: Capital Equipment
Urgency: 2 = Very Important
Carry Forward: No

Project Name: Portable Pump Station Sewage By-Pass Pump
Dept: Collections
Total Cost: \$ 72,500
CY Budget \$ 72,500
GL Account:

Asset Description

Procurement of a high head portable bypass pump for use during emergency at various pump stations. The by-pass pump will be an enclosed portable, dry priming high pressure model capable of by-pass all pump stations. The motor will be tier 4, meeting air board compliance.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

The Collections department has smaller 2" trash pumps used to by pass from manhole to manhole which can be used at small pump stations. The current method of bypassing at the Highlands in the event of a catastrophic event (electrical panels failures or multiple pump failures) is to haul sewage using the vacuon or pumper trucks to down stream gravity discharge point. The Highland pump station is unique in that the station design is for high head, high pressure pumps to convey sewage over the 3 mile force main. The bypass pump being purchased will be able to be used at all pump station not just Highlands.

Capacity of the Highlands wet well = 10,000 gal. The inground holding tank = 5,000 gal.

Asset Risk Management Strategy

Capital Improvement Risk Add Backup/Redundancy
Maintenance Risk Management Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies		\$ 70,000						\$ 70,000
Chemicals								\$ -
Utility								\$ -
Other		\$ 2,500						\$ 2,500
Total		\$ 72,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,500

2 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lauer
Area: Pump Station
Asset Type: Pump Station
Avg Useful Life: 20 years
Est Residual Life 1 year
% Consumed Lif: 98
Category: Capital Equipment
Urgency: 1 = Critical
Carry Forward: No

Project Name: Replacement of Generator at Hacienda PS
Dept: Collections
Total Cost: \$ 78,500
CY Budget \$ -
GL Account:

Asset Description

The generator at the Hacienda pump station have been in service since 1999. In the event that the utility power supply goes out, the generator supplies electricity until the power is restored. The station requires 240 volt AC, 60 Hz, 100 Amp, 25 kW, 3 phase power. The VacCon or PSTS have been used in the past in the event of need. Bypass pumps are used manhole to manhole.

Year Built: 1999
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: 5

Justification

This generator is 23 years old and at the end of their service life. Although still functional, it is recommended they are replaced prior to failure. The generator has been in service for many years and is requiring much more maintenance than in prior years. The block heater has been plagued with issues, the exhaust is worn through the muffler. It is not a quiet generator which generates complaints from neighbors. Parts have become harder to locate and this model has been discontinued. Therefore the investment to replace this necessary component is strongly recommended to bring this system up to par with the systems that are already in service at our other pump stations. The potential for increased sewer hook-ups in the valley could require upsizing this generator. At this time the budget does not account for upsizing.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor			\$ 5,000				\$	5,000
Engineering							\$	-
Parts & Supplies			\$ 70,000				\$	70,000
Chemicals							\$	-
Utility							\$	-
Other			\$ 3,500				\$	3,500
Total		\$ -	\$ 78,500	\$ -	\$ -	\$ -	\$ -	\$ 78,500

3 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lauer
Area: Sewer Lines
Asset Type: Computer/Network
Avg Useful Life: 15 years
Est Residual Life: 1 year
% Consumed Lif: 85
Category: Capital Equipment
Urgency: 2 = Very Important
Carry Forward: No

Project Name: Replace Collections Computerized Maintenance Management System (CMMS)
Dept: Collections
Total Cost: \$ 90,000
CY Budget \$ 90,000
GL Account:

Asset Description

The current CMMS is specifically for the collections system, it is named ICOM and is owned by RedZone Robotics. ICOM is used to store pipeline cleaning and inspection history, as well as produce work orders to hydro clean and CCTV pipelines on a regular schedule set for the each asset.

Year Built: 2007
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: Moderate Deterioration

Justification

The ICOM program was purchased by the District in 2007 and was upgraded in 2012. In 2012 the company was purchased by RedZone Robotics who have over the past 8 years stopped upgrading the product and closed the west coast offices for support of the program. Over the past few years the annual cost of the program was \$4,000 but we were informed by RedZone that the annual support will be increasing to \$13K this year. The current standard for CMMS technology is to have GIS based mapping of collection system assets and work orders for each asset that can be accessed through the cloud from a device that has internet capabilities. This will allow our field crews to receive and complete a work order in the field rather than at a computer in the office. ICOM does not do this and RedZone will not be investing in upgrades to ICOM to compete with other available CMMS providers. Due to the increased annual cost and the need to keep up with the basic standards for collection system management, we recommend investing in a new system.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies			\$ 90,000				\$	90,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ 90,000		\$ -	\$ -	\$ -	\$ 90,000

4 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lauer
Area: Vehicle
Asset Type: Vehicle Fleet
Avg Useful Life: 15 years
Est Residual Life: 1 year
% Consumed Life: 90
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: No

Project Name: Replace Collection Superintendent Truck (#17)
Dept: Collections
Total Cost: \$ 60,000
CY Budget: \$ 60,000
GL Account:

Asset Description

Chevy 4X4 truck (Unit #17) primary use as the Collection Superintendent's vehicle with a dual purpose of employee conference vehicle. This vehicle was purchased in 2009 and currently has 105,106 miles on it.

Year Built: 2009
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: Moderate Deterioration

Justification

Replacement of the 2009 Chevy 4x4 (Unit #17) which currently has 105,106 miles on it. This truck is the Collections Superintendent truck as well as the main vehicle for transportation of the Collection staff to/from conferences and training. Staff is looking to replace this vehicle with a fully electric truck (EV). In 2020 California passed a ban on the sale of gas and diesel powered vehicle by 2035. With rising fuel cost and the industry shift to Electric Vehicles staff believes that the time for the District to start moving to a EV fleet is now. The state and local air board both offer incentives for purchasing zero emission vehicles. The current vehicle storage bay has sufficient electrical outlets to charge the vehicle. The possibility of charging from the micro-turbine with minor electrical upgrade would make this vehicle a zero energy cost to operate, zero emissions and reuse of digester gas. This make for a win for the environment and lower operating cost for the District.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies				\$ 60,000			\$	60,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000

**Capital Budget
Collections Dept.
Capital Improvement Projects**

Project #	PROJECT	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	Unscheduled	Total
1	Carmel Meadows Pipeline (Carryover)	\$ 2,000,000																	\$ 2,500,000
2	Scenic Pipe Bursting- Ocean to Bay Plus Monte Verde Area (Carryover)	\$ 3,500,000																	\$ 3,500,000
3	Pescadero Creek Area Pipe Relocation (carryover)	\$ 100,000	\$ 1,500,000																\$ 1,600,000
4	Bay/Scenic PS Rehabilitation (Carryover)	\$ 650,000																	\$ 650,000
5	Carpenter- Valley Way to 5th Avenue	\$ 180,000	\$ 896,430																\$ 1,076,430
6	Mission Street Sewer Rehab from 7th to 3rd		\$ 161,568	\$ 807,840															\$ 969,408
7	Carmel Woods Sewer Rehab		\$ 759,288	\$ 3,796,440															\$ 4,555,728
8	Santa Rita & Guadalupe Pipeline Rehab			\$ 300,000	\$ 3,369,330														\$ 3,669,330
9	Sewer Rehab-Torres/Flander/Acacia				\$ 175,000	\$ 866,520													\$ 1,041,520
10	Del Mesa Sewer Rehab #1				\$ 180,000	\$ 972,750													\$ 1,152,750
11	Santa Fe and 6th Avenues Sewer Rehab				\$ 157,530	\$ 787,650													\$ 945,180
12	Canada/Segundo/Rio Vista Area Sewer Replacement					\$ 300,000	\$ 1,070,610												\$ 1,370,610
13	Rio Road Pipeline replacement/Taylor/Ladera					\$ 200,000	\$ 1,000,000												\$ 1,200,000
14	11th Ave from Junipero to Rio Road					\$ 158,310	\$ 791,550												\$ 949,860
15	Del Mesa Sewer Rehab #2						\$ 291,396	\$ 1,456,980											\$ 1,748,376
16	Junipero School Area Sewer Replacement						\$ 331,605	\$ 1,658,025											\$ 1,989,630
17	Mission Fields Area Pipe Replacement						\$ 200,000	\$ 278,500	\$ 2,392,770										\$ 2,871,270
18	Monte Verde Pump Station and Sewer Rehab							\$ 300,000	\$ 2,050,480										\$ 2,350,480
19	Taylor Road Area Sewer Replacement							\$ 200,000	\$ 269,300	\$ 2,346,480									\$ 2,815,780
20	Upper Canada Ct/Outlook Sewer Rehab									\$ 232,302	\$ 1,161,510								\$ 1,393,812
21	Upper/Lower Trail Pipe Rehab									\$ 245,244	\$ 1,226,220								\$ 1,471,464
22	Monterey Street Sewer Replacement									\$ 124,440	\$ 622,200								\$ 746,640
23	Calle la Cruz Pump Station Relocation									\$ 400,000	\$ 550,000	\$ 3,550,000							\$ 4,500,000
24	N Mesa Drive Sewer Replacement									\$ 207,810	\$ 1,039,050								\$ 1,246,860
25	Highlands Inn Pump Station and Forced Main Rehab									\$ 350,000	\$ 200,000	\$ 2,000,000							\$ 2,550,000
26	Hacienda Pump Station Rehab											\$ 150,000	\$ 450,000						\$ 600,000
27	Hatton Road Area Sewer Rehab											\$ 267,006	\$ 1,335,030						\$ 1,602,036
28	Lincoln- 1st Avenue to Ocean											\$ 150,000	\$ 677,190						\$ 827,190
29	Pico/Camino Del Monte/Santa Fe												\$ 150,000	\$ 600,000					\$ 750,000
30	Del Mesa Sewer Rehab #3												\$ 250,000	\$ 1,136,910					\$ 1,386,910
31	San Carlos Sewer Replacement												\$ 125,000	\$ 456,000					\$ 581,000
32	Carmel Meadows/Cuesta Way Sewer Replacement													\$ 125,000	\$ 526,110				\$ 651,110
33	Upper Carmel Knolls Area Sewer Rehab													\$ 300,000	\$ 1,685,596				\$ 1,985,596
34	Cabrillo Hwy/Ocean Avenue Sewer Replacement														\$ 200,000	\$ 1,000,000			\$ 1,200,000
35	Lower Carmel Knolls Sewer Replacement														\$ 200,000	\$ 950,000			\$ 1,150,000
36	Arroyo Carmel Sewer Rehab															\$ 250,000	\$ 777,000		\$ 1,027,000
37	Doolittle Trail Sewer Replacement															\$ 550,000	\$ 2,023,460		\$ 2,573,460
38	Upsize Lower Rancho Canada Pipeline																	\$ 200,000	\$ 200,000
	Collections TOTAL	\$6,430,000	\$3,317,286	\$4,904,280	\$3,881,860	\$3,285,230	\$3,685,161	\$3,893,505	\$4,712,550	\$3,348,466	\$4,117,740	\$5,356,056	\$4,987,220	\$2,617,910	\$2,611,706	\$2,750,000	\$2,800,460	\$200,000	\$62,899,430
	FEMA Grant Funding																		\$0
	PBCSD Share																		\$0
	CAWD COST	\$6,430,000	\$3,317,286	\$4,904,280	\$3,881,860	\$3,285,230	\$3,685,161	\$3,893,505	\$4,712,550	\$3,348,466	\$4,117,740	\$5,356,056	\$4,987,220	\$2,617,910	\$2,611,706	\$2,750,000	\$2,800,460	\$200,000	\$62,899,430

Process of Evaluation of Priority for Project

1. Near Water Body?
2. PACP>5
3. Overall Structural PACP>5?
4. Holes Noted in Sewer Inspection
5. PACP>4?
6. Overall Structural PACP>4?

PACP Code Definition

- 5: Pipe has failed or will likely fail within 5 years
- 4: Pipe will probaly fail in 5-10 years
- 3: Pipe may fail in 10-20 years
- 2: Pipe unlikely to fail for at least 20 years
- 1: Failure unlikely in foreseeable future

1 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Project Name: Carmel Meadows Pipeline (Carryover)
 Dept.: Collections
 Project Number 19-03
 5 yr. Cap Projection: \$ 2,547,500.00
 CY Budget \$ 2,000,000.00
 GL Account: 1586.00

Pipe Material Ductile Iron and VCP pipes
 Pipe Diameter 6 inch
 Year Built: 1962
 Asset Condition Rating: PACP Defect =5
 Structural Index>4

Asset Description

The project will replace 1,300 feet of Ductile Iron Pipe (DIP) on an aerial span and eight manholes by constructing a small pump station at the end of Mariposa Drive. This project is located on an easement parallel to Ribera Road as shown below in red.



Justification

Aerial Pipeline in poor condition along Lagoon within 200 feet of a water body. Structural supports of pipeline are in poor condition. Video inspection of buried pipe found the pipeline to be in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction	\$	1,714,100.00						\$ 1,714,100.00
Engineering/Environmental	\$150,000	\$ 35,900.00						\$ 35,900.00
Environmental	\$	150,000.00						\$ 150,000.00
Permits								\$ -
Inspections	\$	100,000.00						\$ 100,000.00
Other								\$ -
Total	\$150,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000

2 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

Project Name: Scenic Pipe Bursting- Ocean to Bay Plus Monte Verde Area (Carryover)
Dept.: Collections
Project Number 20-08
5 yr. Cap Projection: \$ 3,880,000.00
CY Budget \$ 3,500,000.00
GL Account: 1635.00

Pipe Material Vitrified Clay
Pipe Diameter 6 inch
Year Built: 1921
Asset Condition Rating: PACP Defect =4
Structural Index>4

Asset Description

Replace approximately 4,950 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline is located within 200 feet of a water body with multiple cracks and fractures. The pipeline is undersized for the flow conditions.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction		\$ 3,000,000						\$ 3,000,000
Engineering	\$185,375	\$189,621						\$ 189,621
Environmental		\$ 150,000						\$ 150,000
Construction Inspection		\$ 160,379						\$ 160,379
Other								\$ -
Total		\$ 3,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,500,000

3 **FY 2022-23 Budget**
Carmel Area Wastewater District

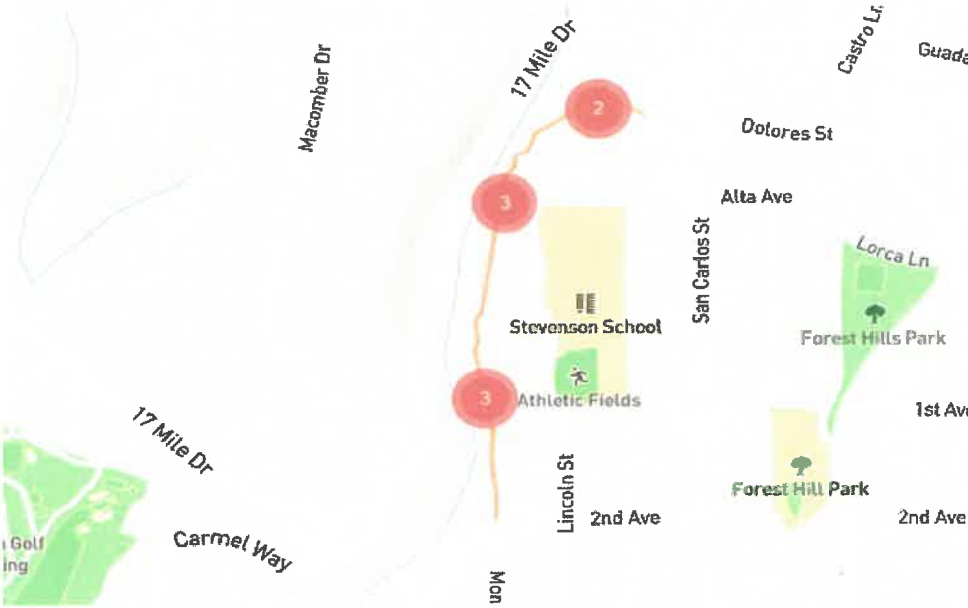
Contact: Lather
Area Sewer Lines

Project Name: Pescadero Creek Area Pipe Relocation (carryover)
Dept.: Collections
Project Number 21-05
5 yr. Cap Projection: \$ 1,600,000.00
CY Budget \$ 100,000.00
GL Account: 1637.00

Pipe Material Vitrified Clay
Pipe Diameter 6 inch
Year Built: 1921
Asset Condition Rating: PACP Defect =5
Structural Index>4

Asset Description

Relocate approximately 2,200 feet of existing pipeline along a backyard easement to Pescadero Road. Existing route is located along the slope of the Del Monte Forest.



Justification

Pipeline is located within 200 feet of a water body with multiple cracks and fractures. Pipeline was observed to be in poor condition during video inspection. Manholes are also in poor condition. Access is difficult due to multiple slope failures along the easement.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction			\$ 1,400,000				\$	1,400,000
Engineering	\$202,921	\$100,000						\$302,921
Environmental			\$ 100,000				\$	100,000
Total		\$ 100,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,802,921

4 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Pump Station

Project Name: Bay/Scenic PS Rehabilitation (Carryover)
Dept.: Collections
Project Number: 20-07
5 yr. Cap Projection: \$ 756,726.00
CY Budget \$ 650,000.00
GL Account: 1636.00

Asset Condition Rating: 5

Asset Description

Remodel the interior of the pump station and update SCADA panel to remove from areas prone to flooding.



Year Built: N/A

Justification

The pump station is adjacent to the Pacific Ocean and subject to ocean waves and flooding. Due to location and potential for flooding, the wetwell and pump electronics will be moved further into the street but within the existing pump station footprint.

Funding Source

Primary	Capital Reserves	Secondary							
Budget Impact/Other	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total	
Construction	\$	650,000						\$650,000	
Engineering	\$250,000							\$ -	
Environmental								\$ -	
Permits								\$ -	
Inspections								\$ -	
Other								\$ -	
Total		\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 650,000	

5 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Project Name: Carpenter - Valley Way to 5th Avenue
 Dept.: Collections
 Project Number 22-XX
 5 yr. Cap Projection: \$ 1,076,430.00
 CY Budget \$ 180,000.00
 GL Account:

Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect =5
 Structural Index>3

Asset Description



Approximately 3,000 feet of vitrified clay pipe to be replaced with 8 inch diameter High Density Polyethylene pipe using pipe bursting or open cut methods.

Justification

Poor structural condition observed in sewer video. Three hole locations in pipe that can lead to sink hole in high traffic street. Multiple pipe segments with PACP defects of 5.

Funding Source

Primary Capital Reserves

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction			\$ 896,430					\$ 896,430
Engineering		\$ 180,000						\$ 180,000
Other								\$ -
Total		\$ 180,000	\$ 896,430	\$ -	\$ -	\$ -	\$ -	\$ 1,076,430

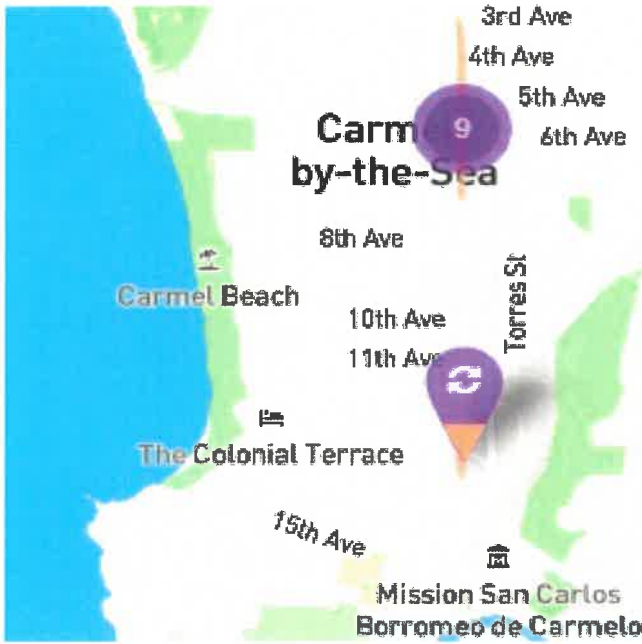
6 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect=5
 Structural Index>4

Project Name: Mission Street Sewer Rehab from 7th to 3rd
 Dept.: Collections
 Project Number: 21-07
 5 yr. Cap Projection: \$ 969,408.00
 CY Budget \$ -
 GL Account:

Asset Description

Approximately 2,700 feet of 6 inch Vitrified Clay pipe to be replaced on Mission Street between 3rd Avenue and 8th Avenue and one pipe length near Santa Lucia. It is anticipated that the pipe will be replaced using pipe bursting technology with 8 inch diameter High Density Polyethylene (HDPE) pipe.



Justification

Poor structural condition observed in sewer video. Holes in Pipe that can lead to sink hole in high traffic street.

Funding Source

Primary	Capital Reserves	Secondary						
Budget Impact/Other	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction				\$ 807,840				\$ 807,840
Engineering			\$ 161,568					\$ 161,568
Other								\$ -
Total		\$ -	\$ 161,568	\$ 807,840	\$ -	\$ -	\$ -	\$ 969,408

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 inch

Year Built: 1921

Asset Condition Rating: PACP Defect =5

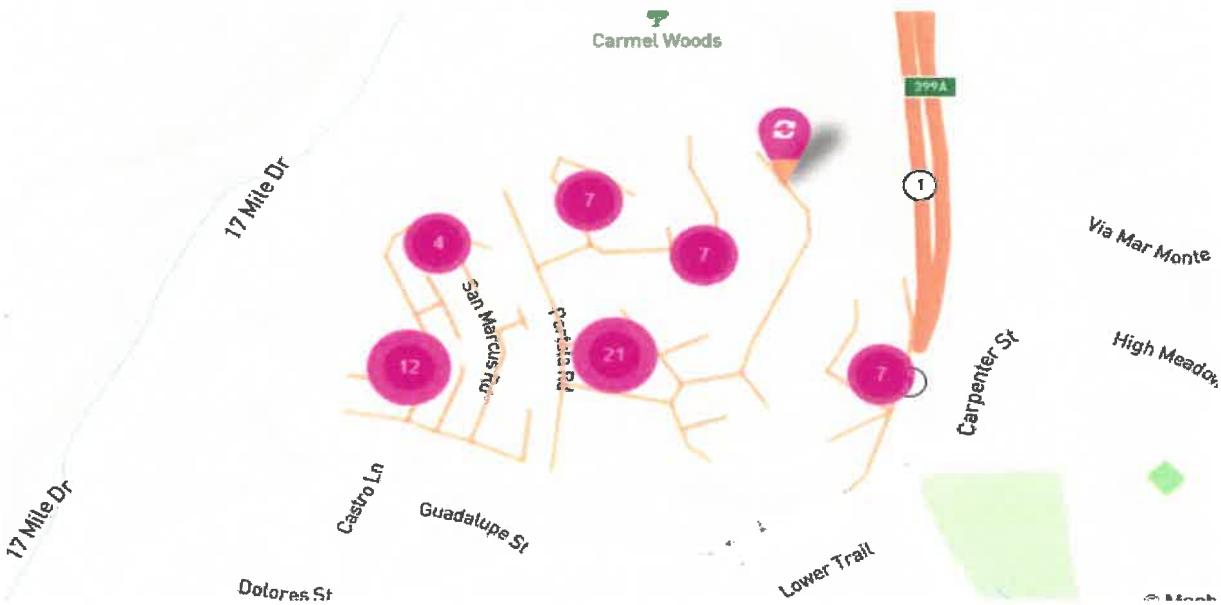
Structural Index>4

Carry Forward: Yes

Project Name: Carmel Woods Sewer Rehab
 Dept.: Collections
 Project Number:
 5 yr. Cap Projection: \$ 4,555,728.00
 CY Budget \$ -
 GL Account:

Asset Description

Approximately 4,200 feet of 6 inch vitrified clay pipe within the Carmel Woods Subdivision.



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in six separate locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary		Capital Reserves		Secondary						
Budget Impact/Other		Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total	
Construction					\$ 3,796,440				\$ 3,796,440	
Engineering				\$ 759,288					\$ 759,288	
Other									\$ -	
Total			\$ -	\$ 759,288	\$ 3,796,440	\$ -	\$ -	\$ -	\$ 4,555,728	

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Pipe Material Vitrified Clay

Pipe Diameter 6 inch

Year Built: 1921

Asset Condition Rating: PACP Defect=5

Structural Index>4

Carry Forward: Yes

Project Name: Santa Rita & Guadalupe Pipeline Rehab

Dept.: Collections

Project Number:

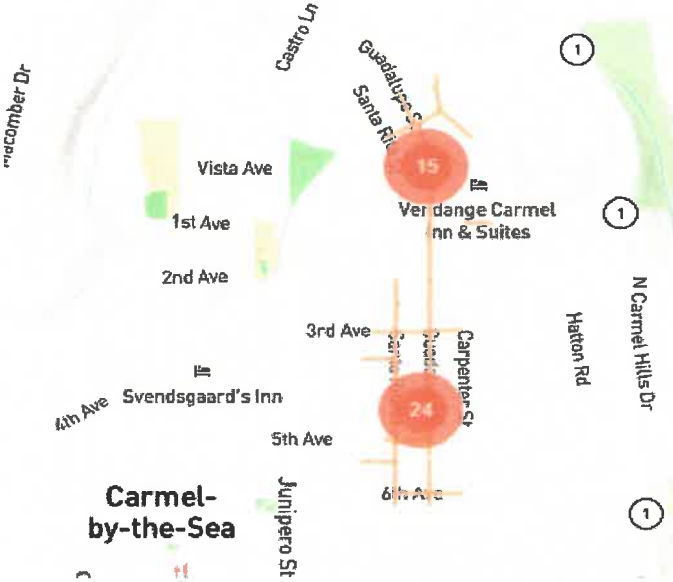
5 yr. Cap Projection: \$3,669,330.00

CY Budget \$ -

GL Account:

Asset Description

Approximately 5,800 Feet of 6 inch Vitrified Clay Pipe (VCP) to be replaced with 8 inch diameter High Density Polyethylene pipe using pipe bursting methods. City plans to Cap Seal pavement in 2028.



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in nine locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary	Capital Reserves	Secondary						Unscheduled	Total
	Prior Yr.	22-23	23-24	24-25	25-26	26-27			
	Construction				\$ 3,369,330			\$ 3,369,330	
	Engineering			\$ 300,000				\$ 300,000	
	Other							\$ -	
	Total	\$ -	\$ -	\$ 300,000	\$ 3,369,330	\$ -	\$ -	\$ 3,669,330	

9 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Sewer Rehab -Torres/Flander/Acacia
 Dept.: Collections

5 yr. Cap Projection: \$ 1,041,520.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect=5
 Structural Index>4
 Carry Forward: Yes

Asset Description

Replace approximately 2,900 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in two locations within the project area.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction					\$ 866,520			\$ 866,520
Engineering				\$ 175,000				\$ 175,000
Other								\$ -
Total		\$ -	\$ -	\$ 175,000	\$ 866,520	\$ -	\$ -	\$ 1,041,520

10 **FY 2022-23 Budget**
Carmel Area Wastewater District

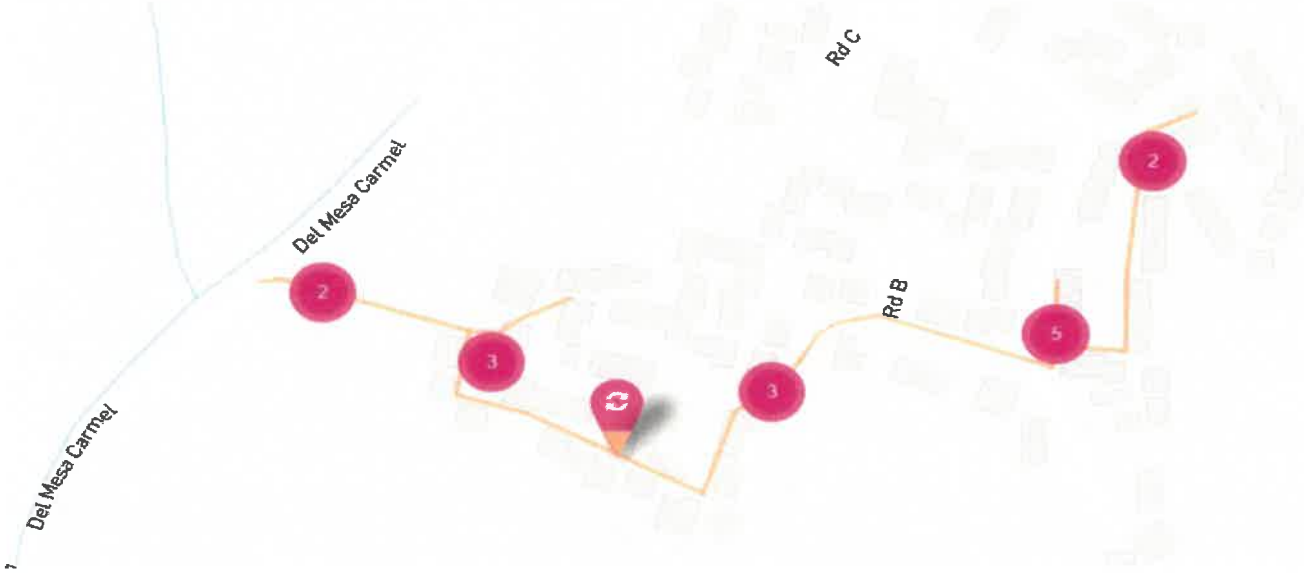
Project Name: Del Mesa Sewer Rehab #1
 Dept.: Collections

5 yr. Cap Projection: \$ 1,152,750.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1966
 Asset Condition Rating: PACP Defect=5
 Structural Index>5
 Carry Forward: No

Asset Description

Replace approximately 3,300 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction						\$ 972,750		\$ 972,750
Engineering					\$ 180,000			\$ 180,000
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ 180,000	\$ 972,750	\$ -	\$ 1,152,750

11 **FY 2022-23 Budget**
Carmel Area Wastewater District

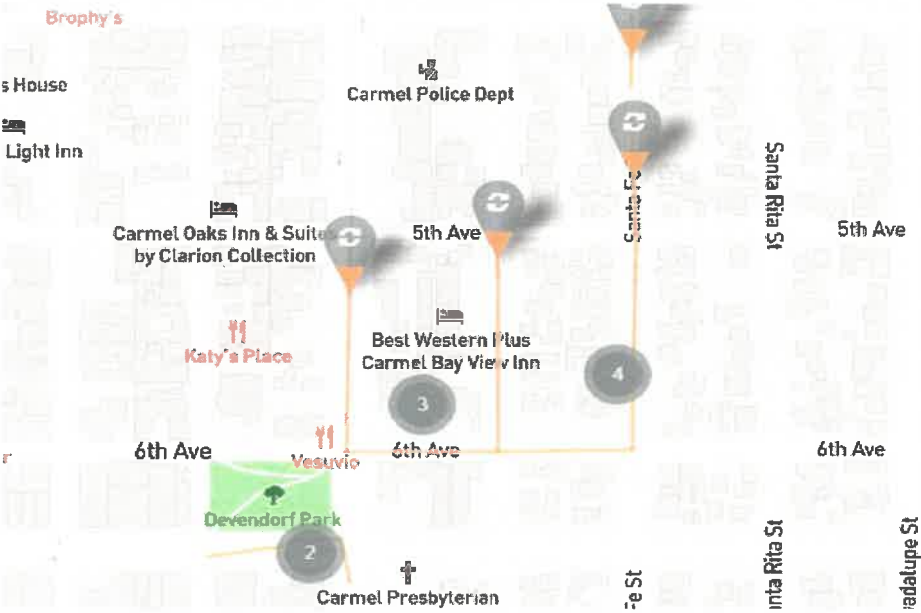
Project Name: Santa Fe and 6th Avenues Sewer Rehab
 Dept.: Collections

5 yr. Cap Projection: \$ 945,180.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect=5
 Structural Index>5
 Carry Forward: Yes

Asset Description

Replace approximately 2,625 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other		Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction						\$	787,650	\$	787,650
Engineering						\$157,530		\$	157,530
Other								\$	-
Total			\$ -	\$ -	\$ -	\$ 157,530	\$ 787,650	\$ -	\$ 945,180

13 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

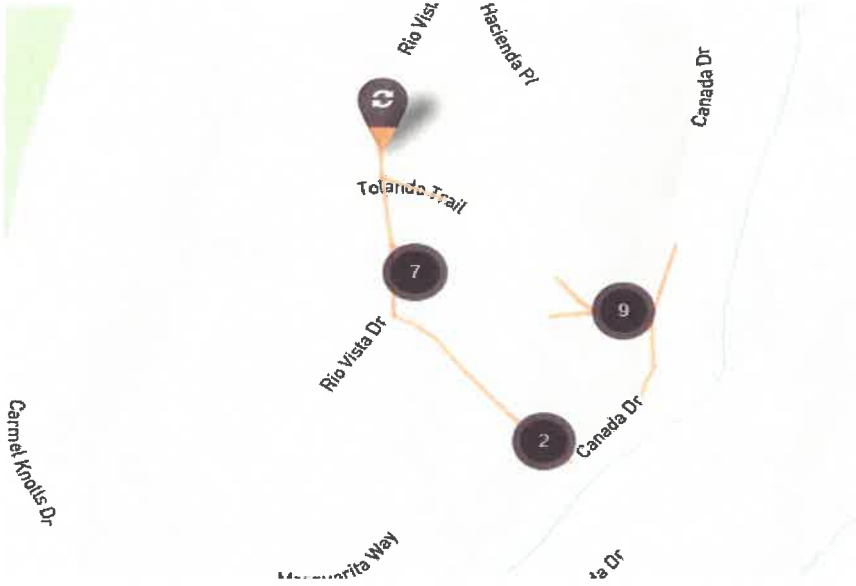
Project Name: Canada/Segundo/Rio Vista Area Sewer Replacement
Dept.: Collections

Asset Type: N/A
Pipe Material: Vitrified Clay
Pipe Diameter: 6 inch
Year Built: 1967
Asset Condition Rating: PACP Defect=5
Structural Index>4
Carry Forward: No

5 yr. Cap Projection: \$ 1,370,610.00
CY Budget \$ -
GL Account:

Asset Description

Replace approximately 3,600 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Construction						\$ 1,070,610	\$	\$ 1,070,610
Engineering					\$ 300,000		\$	\$ 300,000
Other							\$	\$ -
Total		\$ -	\$ -	\$ -	\$ 300,000	\$ 1,070,610	\$ -	\$ 1,370,610

13 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Rio Road Pipeline replacement/Taylor/Ladera
Dept.: Collections

5 yr. Cap Projection: #####
CY Budget \$ -
GL Account:

Contact: Lather
Area Sewer Lines
Asset Type: N/A
Pipe Material Vitrified Clay
Pipe Diameter 6 inch
Year Built: 1950
Asset Condition Rating: PACP Defect=5
Structural Index>4
Carry Forward: No

Asset Description

Replace approximately 3,400 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other		Prior Yr.	23-24	24-25	25-26	26-27	27-28	Unscheduled	Total
Construction							1000000	\$	1,000,000
Engineering						\$200,000		\$	200,000
Other								\$	-
Total			\$ -	\$ -	\$ -	\$ -	1,000,000	\$ -	\$ 1,200,000

14 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: 11th Ave from Junipero to Rio Road
 Dept.: Collections

5 yr. Cap Projection: \$ 949,860.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Pipe Material Vitrified Clay
 Pipe Diameter 6 inch
 Year Built: 1950
 Asset Condition Rating: PACP Defect=4
 Structural Index>3
 Carry Forward: No

Asset Description

Replace approximately 2,640 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are also in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	24-25	25-26	26-27	27-28	Unscheduled	Total
Construction					\$ 791,550		\$ 791,550
Engineering				\$ 158,310			\$ 158,310
Other							\$ -
Total		\$ -	\$ -	\$ 158,310	\$ 791,550	\$ -	\$ 949,860

15 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Pipe Material Vitrified Clay

Pipe Diameter 6 inch

Year Built: 1966

Asset Condition Rating: PACP Defect=5

Structural Index>5

Carry Forward:

Project Name: Del Mesa Sewer Rehab #2

Dept.: Collections

Project Number

Total Cap Projection: \$ 1,748,376.00

CY Budget

GL Account:

Asset Description

Replace approximately 4,857 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	26-27	27-28	28-29	29-30	30-31	Unscheduled	Total
Construction				\$ 1,456,980			\$	1,456,980
Engineering			\$291,396				\$	291,396
							\$	-
							\$	-
							\$	-
							\$	-
Total	\$ -	\$ 291,396	\$ 1,456,980	\$ -	\$ -	\$ -	\$ -	1,748,376

16 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material vcp
 Pipe Diameter 6" to 10"
 Year Built: 1945
 Asset Condition Rating: PACP Defect=5
 Structural Index>4.5
 Carry Forward: Yes

Project Name: Junipero School Area Sewer Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,788,585.00
 CY Budget
 GL Account:

Asset Description
 Replace approximately 5,527 linear feet of existing clay pipe with a new High-Density Polyethylene (HDPE) , including manhole rehabilitation



Justification
 Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are in fair to poor condition.

Funding Source

Primary	Capital Reserves	Secondary							Total
Budget Impact/Other	Prior Yr.	26-27	27-28	28-29	29-30	30-31	Unscheduled	Total	
Construction				\$ 1,456,980				\$ 1,456,980	
Engineering			\$ 331,605					\$ 331,605	
								\$ -	
								\$ -	
								\$ -	
								\$ -	
Total		\$ -	\$ 331,605	\$ 1,456,980	\$ -	\$ -	\$ -	\$ 1,788,585	

17 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6" & 10"
 Year Built: 1951
 Asset Condition Rating: PACP Defect=5
 Structural Index>3.5
 Carry Forward: Yes

Project Name: Mission Fields Area Pipe Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 2,871,270.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 7,976 linear feet of existing 6 and 10-inch clay pipe with a new High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in fair to poor condition.

Funding Source

Primary	Capital Reserves	Secondary						Total
Budget Impact/Other	Prior Yr.	26-27	27-28	28-29	29-30	30-31	Unscheduled	Total
Construction					\$ 2,392,770		\$	2,392,770
Engineering			\$200,000	278,500			\$	478,500
Other							\$	-
Total		\$ -	\$ 200,000	\$ 278,500	\$ 2,392,770	\$ -	\$ -	\$ 2,871,270

FY 2022-23 Budget
 Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6",10" & 12"
 Year Built: 1949
 Asset Condition Rating: PACP Defect=5
 Structural Index>3
 Carry Forward: Yes

Project Name: Monte Verde Pump Station and Sewer Rehab
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 2,350,480.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 4,376 linear feet of existing 6, 10 and 12-inch clay pipe with a new High-Density Polyethylene (HDPE). Includes manhole rehabilitation. Replace and repair portions of pump station as needed.



Justification

Pipeline was observed to be in fair to poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	26-27	27-28	28-29	29-30	30-31	Unschedule	Total
Labor					\$ 2,050,480		\$	2,050,480
Engineering			\$ 300,000				\$	300,000
Other							\$	-
Total		\$ -	\$ -	\$ 300,000	\$ 2,050,480	\$ -	\$ -	2,350,480

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1950
 Asset Condition Rating: PACP Defect=4
 Structural Index>3
 Carry Forward: Yes

Project Name: Taylor Road Area Sewer Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 2,815,780.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 7,822 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are in fair to poor condition.

Funding Source

Primary	Capital Reserves	Secondary						Total
Budget Impact/Other	Prior Yr.	27-28	28-29	29-30	30-31	31-32	32-33	Total
Construction					\$ 2,346,480			\$ 2,346,480
Engineering			\$200,000	\$269,300				\$ 469,300
Total	\$ -	\$ 200,000	\$ 269,300	\$ 2,346,480	\$ -	\$ -	\$ -	\$ 2,815,780

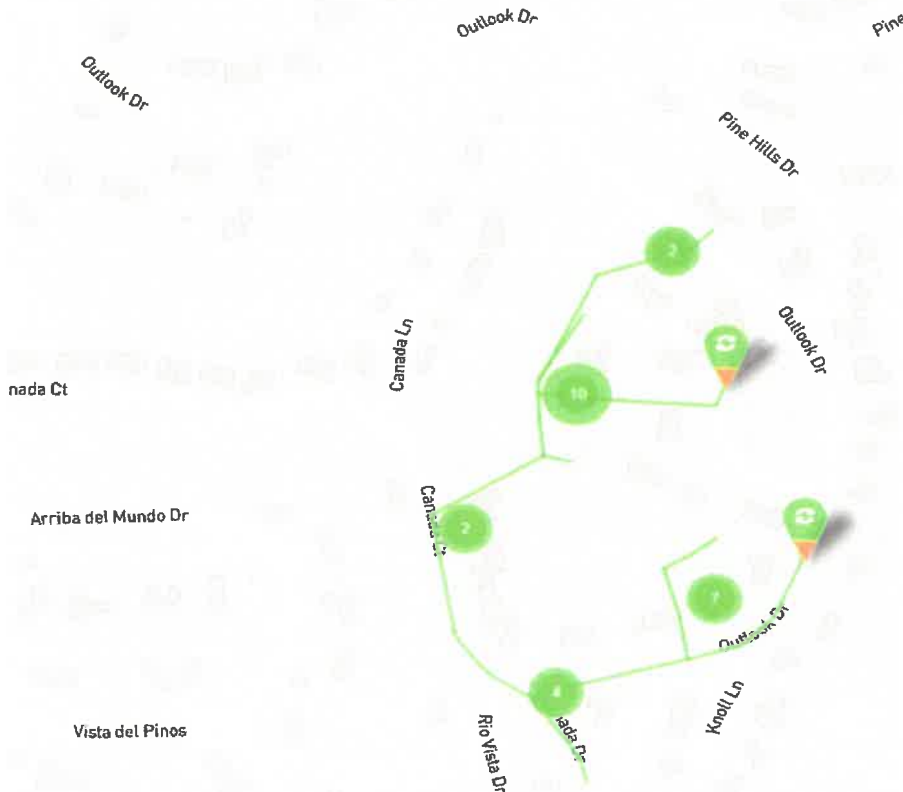
20 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6" & 8"
 Year Built: 1967
 Asset Condition Rating: PACP Defect=4
 Structural Index>3
 Carry Forward: No

Project Name: Upper Canada Ct/Outlook Sewer Rehab
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,393,812.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 3,871 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	26-27	27-28	28-29	29-30	30-31	31-32	Total
Construction							\$ 1,161,510	\$ 1,161,510
Engineering						\$ 232,302		\$ 232,302
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ 232,302	\$ 1,161,510	\$ 1,393,812

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 inch

Year Built: 1940

Asset Condition Rating: PACP Defect=4

Structural Index>4

Carry Forward: No

Project Name: Upper/Lower Trail Pipe Rehab

Dept.: Collections

Project Number

Total Cap Projection: \$ 1,471,464.00

CY Budget

GL Account:

Asset Description

Replace approximately 4,087 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are in fair to poor condition.

Funding Source

Primary	Capital Reserves	Secondary							Total
Budget Impact/Other		26-27	27-28	28-29	29-30	30-31	31-32	32-33	
Construction							\$ 1,226,220	\$	1,226,220
Engineering						\$245,244		\$	245,244
Total		\$ -	\$ -	\$ -	\$ -	\$ 245,244	\$ 1,226,220	\$ -	\$ 1,471,464

FY 2022-23 Budget
 Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6"

Year Built: 1922

Asset Condition Rating: PACP Defect=4

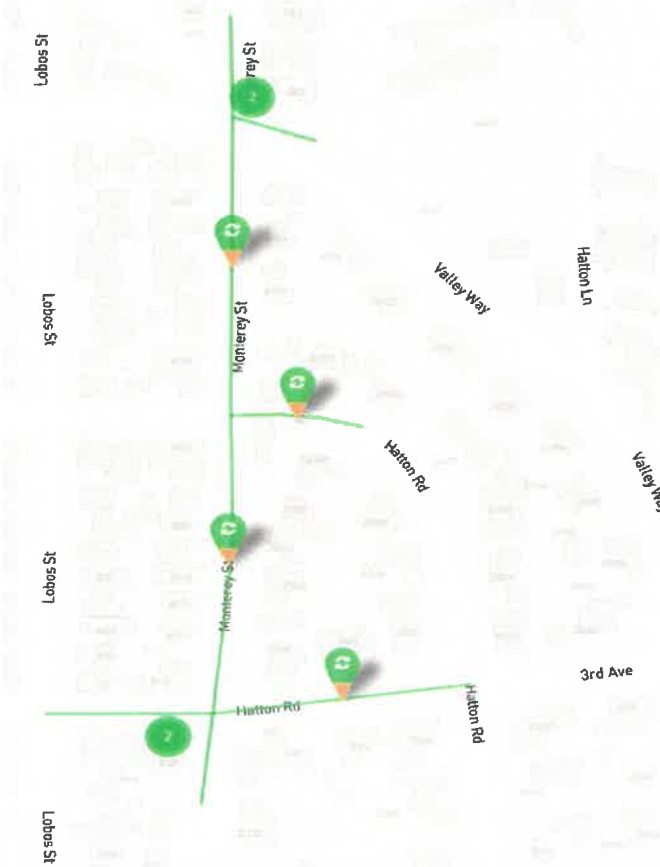
Structural Index>3

Carry Forward: Yes

Project Name: Monterey Street Sewer Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 746,640.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 2,074 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	32-33	Total
Construction					\$ 622,200	\$	622,200
Engineering				\$ 124,440		\$	124,440
Total	\$ -	\$ -	\$ -	\$ 124,440	\$ 622,200	\$ -	746,640

23

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Calle la Cruz Pump Station Relocation
 Dept.: Collections
 Project Number
 5 yr. Cap Projection: \$ 4,500,000.00
 CY Budget
 GL Account:

Asset Type: Pump Station
 Pipe Material
 Pipe Diameter
 Year Built: 1953
 Asset Condition Rating: fair
 Carry Forward: Yes

Asset Description

The pump station is located on the bluff adjacent to Carmel Lagoon. The wet well was lined in 2013 with "sewercoat" which has a 5 year guarantee.

Justification

The pump station is located next to the lagoon and is not designed for by-passing sewage in an emergency. Sea level rise and the Carmel River

Funding Source

Primary	Capital Reserves	Secondary					Total	
Budget Impact/Other								
		27-28	28-29	29-30	30-31	31-32	32-33	Total
	Construction			\$ 3,000,000				\$ 3,000,000
	Engineering	\$ 200,000	\$ 200,000					\$ 400,000
	Environmental	\$ 200,000	\$ 150,000	\$ 150,000				\$ 500,000
	Construction Inspection			\$ 400,000				\$ 400,000
	Other		\$ 200,000					\$ 200,000
	Total	\$ 400,000	\$ 550,000	\$ 3,550,000	\$ -	\$ -	\$ -	\$ 4,500,000

Other=permits, easements, etc.

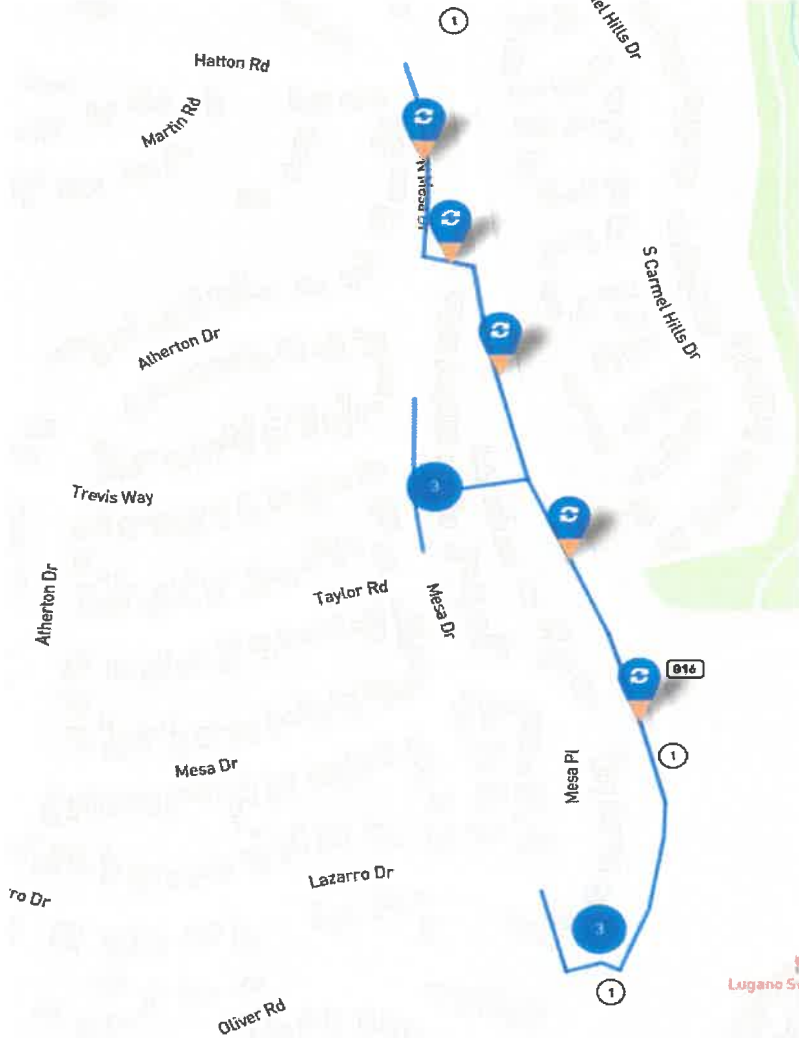
24 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1950
 Asset Condition Rating: PACP Defect=4
 Structural Index>3
 Carry Forward: Yes

Project Name: N Mesa Drive Sewer Replacement
 Dept.: Collections
 Project Number
 Projection: \$1,246,860.00
 CY Budget
 L Account:

Asset Description

Replace approximately 3,464 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole



Justification

Pipeline was observed to be in poor condition during video inspection. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	31-32	32-33	33-34	34-35	35-36	Unscheduled	Total
Construction			\$ 1,039,050				\$	1,039,050
Engineering		\$207,810					\$	207,810
Total		\$ 207,810	\$ 1,039,050	\$ -	\$ -	\$ -	\$ -	1,246,860

25

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Area Pump Station

Asset Type: Collections Force

Pipe Material

Pipe Diameter

Year Built: 2004

Asset Condition Rating:

Carry Forward: No

Project Name: Highlands Inn Pump Station and Forced Main Rehab

Dept.: Collections

Project Number

Total Cap Projection: \$ -

CY Budget

GL Account:

Asset Description

Small pump station located at the Highlands Inn property. High levels of H2S have been produced in the force main to Calle La

Justification

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	29-30	30-31	31-32	32-33	33-34	Unschedule	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

26 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material

Pipe Diameter

Year Built:

Asset Condition Rating:

Project Name: Hacienda Pump Station Rehab

Dept.: Collections

Project Number

Projection: \$ -

CY Budget

GL Account:

Carry Forward: No

Asset Description

Justification

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	29-30	30-31	31-32	32-33	33-34	Unscheduled	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

27 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Project Name: Hatton Road Area Sewer Rehab
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,602,036
 CY Budget
 GL Account:

Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1942
 Asset Condition Rating: PACP Defect=4
 Structural Index>4
 Carry Forward: Yes

Asset Description

Replace approximately 4,450 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are also in poor condition.

Funding Source

Primary	Capital Reserves	Secondary							
Budget Impact/Other		Prior Yr.	30-31	31-32	32-33	33-34	34-35	Unschedule	Total
Construction						\$ 1,335,030			\$ 1,335,030
Engineering				\$ 267,006					\$ 267,006
Total		\$ -	\$ -	\$ 267,006	\$ 1,335,030	\$ -	\$ -	\$ -	\$ 1,602,036

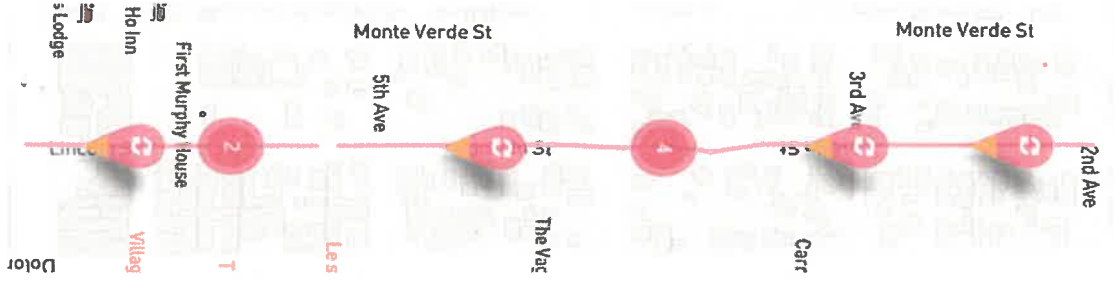
Project Name: Lincoln - 1st Avenue to Ocean
Dept.: Collections

Project Number
Total Cap Projection: \$ 1,985,596.00
CY Budget
GL Account:

Pipe Material Vitrified Clay
Pipe Diameter 6 inch
Year Built: 1921
Asset Condition Rating: PACP Defect=4
Structural Index>4

Asset Description

Approximately 2,000 feet of vitrified clay pipe to be replaced with 8 inch diameter High Density Polyethylene (HDPE) pipe using pipe bursting or open cut methods.



Justification

Poor structural condition observed in sewer video. Holes in Pipe. Manholes in fair to poor condition. In a high traffic street. **City plans to Cape Seal in 2023 and this will be 10 years later.**

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	Unscheduled	Total
Construction			\$ 677,190	\$	\$ 677,190
Engineering		\$150,000		\$	\$ 150,000
				\$	\$ -
				\$	\$ -
Other				\$	\$ -
Total		\$ 150,000	\$ 677,190	\$ -	\$ 827,190

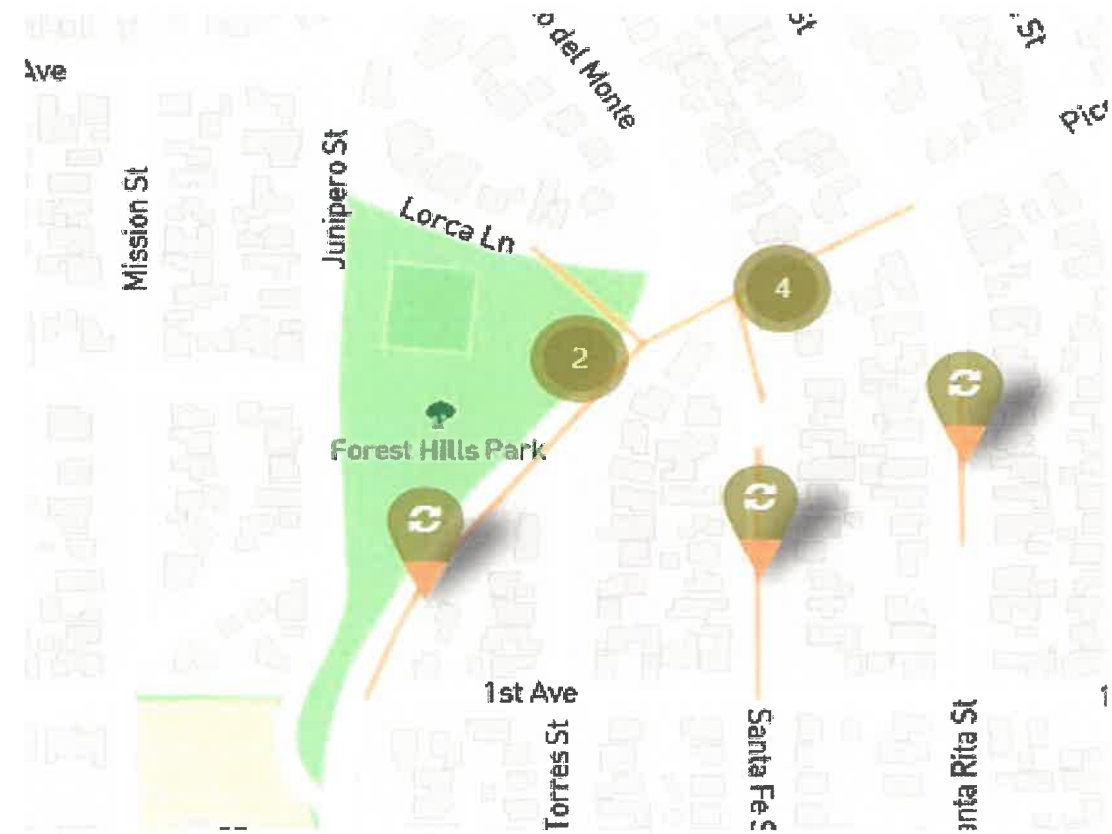
29 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6"
 Year Built: 1921
 Asset Condition Rating: PACP Defect=4
 Structural Index>4
 Carry Forward: Yes

Project Name: Pico/Camino Del Monte/Santa Fe
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 750,000.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 1,971 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	34-35	35-36	36-37	Unscheduled	Total
Construction				\$ 600,000				\$ 600,000
Engineering			\$ 150,000					\$ 150,000
Total	\$ -	\$ -	\$ 150,000	\$ 600,000	\$ -	\$ -	\$ -	\$ 750,000

30 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 Inxh

Year Built: 1966

Asset Condition Rating: PACP Defect=4

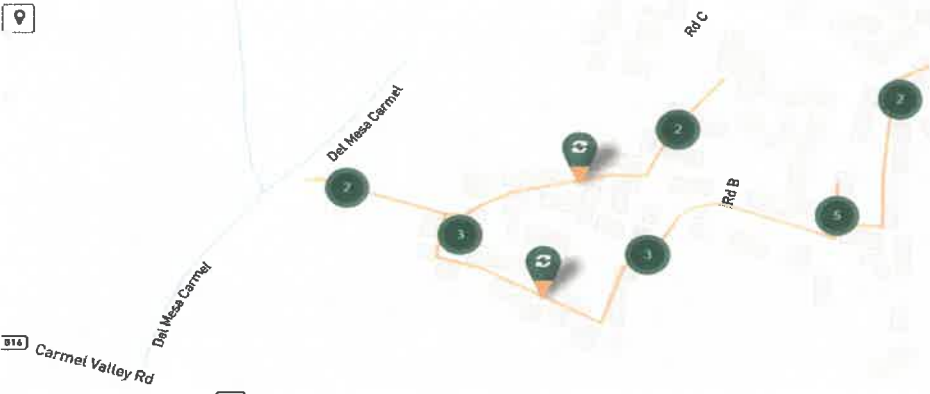
Structural Index>4

Carry Forward: No

Project Name: Del Mesa Sewer Rehab #3
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,386,910.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 3,790 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	34-35	35-36	36-37	Unscheduled	Total
Construction				\$ 1,136,910			\$	1,136,910
Engineering			\$ 250,000				\$	250,000
Total	\$ -	\$ 250,000	\$ 1,136,910	\$ -	\$ -	\$ -	\$ -	\$ 1,386,910

31 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect=4
 Structural Index>3
 Carry Forward: No

Project Name: San Carlos Sewer Replacement
 Dept.: Collections
 Project Number
 Projection: \$ 581,000.00
 CY Budget
 L Account:

Asset Description

Replace approximately 1,520 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

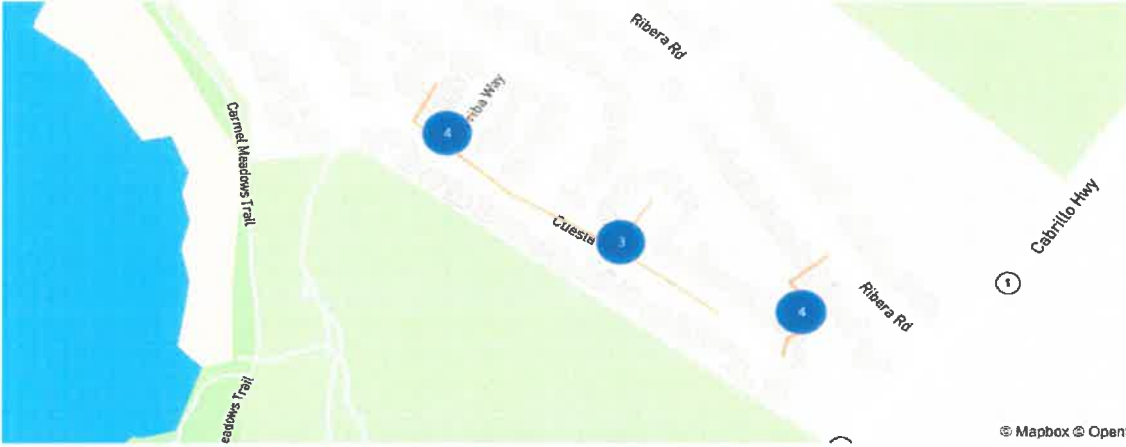
	Prior Yr.	32-33	33-34	34-35	35-36	36-37	Unscheduled	Total
Construction					\$ 456,000			\$ 456,000
Engineering				\$125,000				\$ 125,000
Other								\$ -
Total		\$ -	\$ -	\$ 125,000	\$ 456,000	\$ -	\$ -	\$ 581,000

32 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1962
 Asset Condition Rating: PACP Defect=4
 Structural Index>4
 Carry Forward: Yes

Project Name: Carmel Meadows/Cuesta Way Sewer Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 651,110.00
 CY Budget
 GL Account:

Asset Description
 Replace approximately 1,754 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole



Justification
 Pipeline was observed to be in poor condition during video inspection. Manholes are in fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other		Prior Yr.	32-33	33-34	34-35	35-36	36-37	Unscheduled	Total
Construction						\$ 526,110			\$ 526,110
Engineering				\$ 125,000					\$ 125,000
Total		\$ -	\$ -	\$ 125,000	\$ 526,110	\$ -	\$ -	\$ -	\$ 651,110

33

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Project Name: Upper Carmel Knolls Area Sewer Rehab
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,985,596.00
 CY Budget
 GL Account:

Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1959
 Asset Condition Rating: PACP Defect=
 Overall Structural>4
 Carry Forward: Yes

Asset Description

Replace approximately 3,160 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole



Justification

Pipeline was observed to be in poor condition during video inspection.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	34-35	35-36	36-37	37-38	Total
Construction					\$ 1,685,596			\$ 1,685,596
Engineering				\$300,000				\$ 300,000
Total		\$ -	\$ -	\$ 300,000	\$ 1,685,596	\$ -	\$ -	\$ 1,985,596

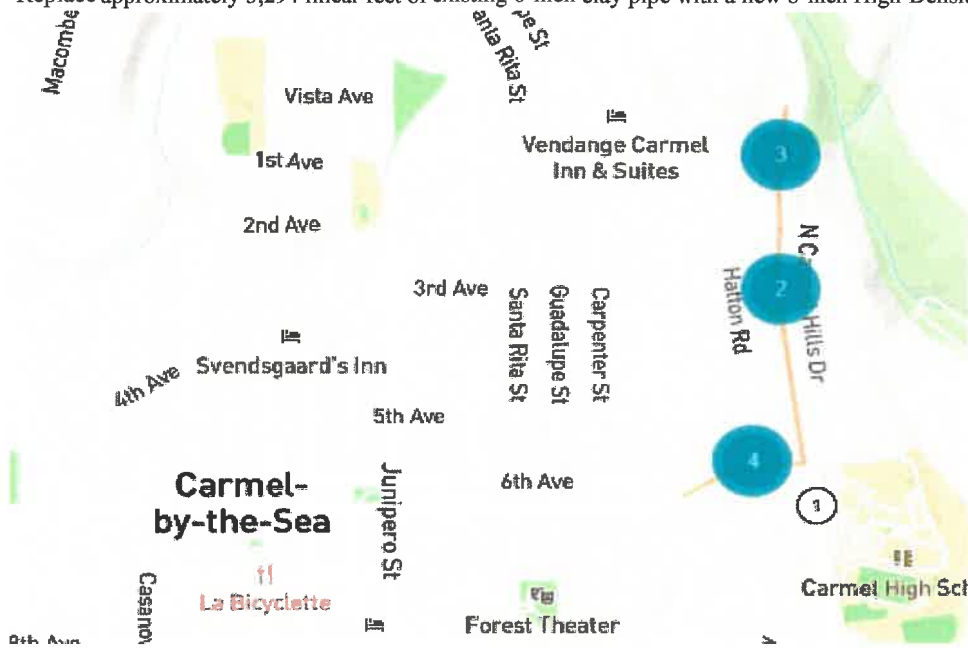
34 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: Collections Gravity
 Pipe Material VCP
 Pipe Diameter 6 inch
 Year Built: 1921
 Asset Condition Rating: PACP Defect>4
 Structural Index>3
 Carry Forward: Yes

Project Name: Cabrillo Hwy/Ocean Avenue Sewer Replacement
 Dept.: Collections
 Project Number
 Total Cap Projection: \$ 1,200,000.00
 CY Budget
 GL Account:

Asset Description

Replace approximately 3,294 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	35.36	36-37	Unscheduled	Total
Construction					\$ 1,000,000		\$ 1,000,000
Engineering				\$200,000			\$ 200,000
Total	\$ -	\$ -	\$ 200,000	\$ 1,000,000	\$ -	\$ -	\$ 1,200,000

35 FY 2022-23 Budget

Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 inch

Year Built: 1959

Asset Condition Rating: PACP Defect>4

Structural Index>3

Carry Forward: Yes

Project Name: Lower Carmel Knolls Sewer Replacement

Dept.: Collections

Project Number

Projection: \$ 1,150,000.00

CY Budget

GL Account:

Asset Description

Replace approximately 3160 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation



Justification

Pipeline was observed to be in poor condition during video inspection. Holes were observed in multiple locations throughout the project area. Manholes are fair to poor condition.

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	32-33	33-34	34-35	35-36	36-37	Unscheduled	Total
Construction						\$ 1,000,000	\$	1,000,000
Engineering					\$ 200,000		\$	200,000
Total		\$ -	\$ -	\$ -	\$ 200,000	\$ 1,000,000	\$ -	\$ 1,200,000

36 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 inch

Year Built: 1976

Asset Condition Rating: PACP Defect=4

Structural Index>3

Carry Forward: Yes

Project Name: Arroyo Carmel Sewer Rehab

Dept.: Collections

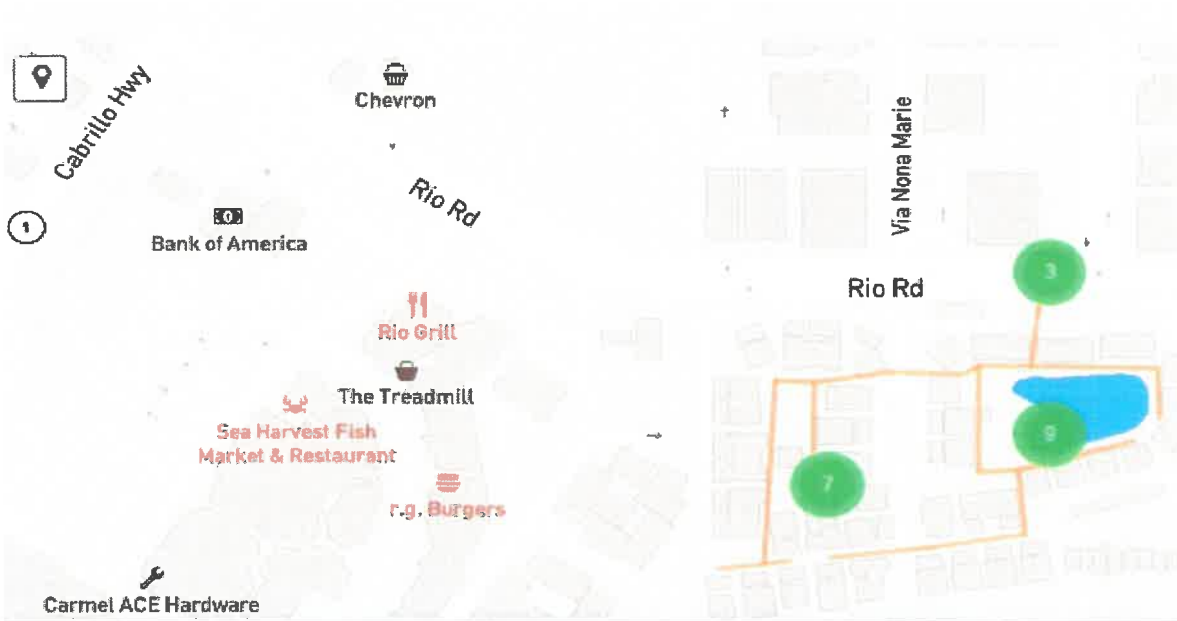
Project Number

Total Cap Projection: \$1,027,000.00

CY Budget

GL Account:

Asset Description



Justification

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	32-33	33-34	34-35	35-36	36-37	37-38	Total
Construction						\$ 777,000	\$ 777,000
Engineering					\$ 250,000		\$ 250,000
Other							\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 777,000	\$ 1,027,000

37

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Pipe Material VCP

Pipe Diameter 6 inch

Year Built: 1950

Asset Condition Rating: PACP Defect=4

Structural Index>3

Carry Forward: Yes

Project Name: Doolittle Trail Sewer Replacement

Dept.: Collections

Project Number

Total Cap Projection: \$ 2,573,460

CY Budget

GL Account:

Asset Description



Justification

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	33-34	34-35	35-36	36-37	37-38	38-39	Total
Construction					\$ 1,223,460	\$	1,223,460
Engineering				\$ 250,000	\$ 100,000	\$	350,000
Environmental				\$ 300,000	\$ 400,000	\$	700,000
Construction Management					\$ 300,000	\$	300,000
Total	\$ -	\$ -	\$ -	\$ 550,000	\$ 2,023,460	\$ -	\$ 2,573,460

**Capital Budget
Treatment & Disposal
Capital Purchases**

CAWD Treatment Dept - Capital Purchases

FY 2022/23 thru 2026/27

Project #	PROJECT	22/23	23/24	24/25	25/26	26/27	Unscheduled
1	Laboratory Ion Chromatograph (90% Reclamation)	\$57,000					
2	Laboratory Autoclave (50% Reclamation)		\$ 16,000				
3	Dewatering Building Poly Blend unit M60-P1AA (Unit 1)				\$ 28,000		
4	Dewatering Building Poly Blend unit M60-P1AA (Unit 2)					\$ 28,000	
5	Laboratory Dishwashers (2) (75% CAWD/25% Reclamation)						\$ 30,000
	TREATMENT & DISPOSAL TOTAL	\$ 57,000	\$ 16,000	\$ -	\$ 28,000	\$ 28,000	\$ 30,000
	RECLAMATION SHARE	\$ 51,300	\$ 8,000	\$ -	\$ -	\$ -	\$ 7,500
	PBCSD SHARE	\$ 1,898	\$ 2,664	\$ -	\$ 9,324	\$ 9,324	\$ 7,493
	CAWD COST	\$ 3,802	\$ 5,336	\$ -	\$ 18,676	\$ 18,676	\$ 15,008

1 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Ion Chromatograph
Dept: Reclamation
Total Cost: \$ 57,000
CY Budget \$ 57,000
GL Account:

Contact: Waggoner
Area: Lab
Asset Type: Support Equipment
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 90%
Category: Capital Equipment
Urgency: 2 = Very Important
Carry Forward: Yes

Asset Description

The Ion Chromatograph (IC) system is a multi-use equipment used for the Pebble Beach Reclamation samples and CAWD MF/RO and Tertiary water. The IC analyzes the Cation and Anion ions and Iron and Manganese in the water samples collected. The IC is used weekly for MF/RO Blend and Reclaim Line samples and on a monthly schedule PBCSD collects water samples at the golf courses and well samples. The data is used by the PBCSD and golf course superintendents for irrigation. The replacement item requested is for the Cation and Iron and Manganese analysis.

The current computer is on Win7 which must be upgarded.

Year Built: 2009
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Rehab unlikely

Justification

The Dionex IC unit is no longer serviceable by manufacture service technicians and parts are limited to what is available no new parts are being made. The unit has been placed on the obsolescence list by the manufacture since 2018. The purchase is for the Cation and T-metal analysis. The anion analysis will be run on a different instrument already being used. CAWD's 10% is for permit analysis of the following weekly paramters, Chloride, Sulfate, Nitrate-N and Flouride. Staff also does analysis on the influent flow as well of the same parameters.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Corrective Maintenance
Non Asset Risk Management

Funding Source

Primary CAWD 10% Secondary Reclamation 90%

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies		\$ 52,000					\$	52,000
Chemicals							\$	-
Utility							\$	-
Other		\$ 5,000					\$	5,000
Total		\$ 57,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,000

2 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Lab
Asset Type: Support Equipment
Avg Useful Life: 20 years
Est Residual Life: 1 year
% Consumed Life: 95%
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Laboratory Autoclave
Dept: Treatment
Total Cost: \$ 16,000
CY Budget \$ -
GL Account:

Asset Description

The autoclave is used for sterilizing bacteriological media used for microbiological analysis of the final effluent, tertiary effluent and ocean receiving samples if needed. The unit is also used to sterilize used positive tests material to be able to discard to the trash or dispose in the drain.

Year Built: 1993
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Rehab unlikely

Justification

Lab staff has been able to keep autoclave operational by changing gaskets so that the unit can maintain the correct sterilization temperature and pounds per square inch (psi). The unit has corrosion building along the base and may not be repairable.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary CAWD 50% Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies			\$ 16,000				\$	16,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ 16,000

3 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: DeWATERING Bldg
Asset Type: Process Equip (Chemical)
Avg Useful Life: 10 years
Est Residual Life: 5 years
% Consumed Life: 50%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: Dewatering Building Poly Blend unit M60-P1AA (Unit 1)
Dept: Treatment
Total Cost: \$ 28,000
CY Budget \$ -
GL Account:

Asset Description

Polymer mixing and injection unit that mixes and adds a coagulant to the flow stream of anaerobic digested sludge prior to the dewatering devices. Either the Screwpress or the Beltpress to enhance liquid separation.

Year Built: 2016
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 5 years
Asset Condition Rating: Good

Justification

The equipment's age is such that the vendor may no longer support or sell/stock replacement parts for the UGSI Polyblend unit in the future. This model was purchased in the Phase 1 project staff continues to update all polymer mixing systems to be the same, to limit the amount of spare parts in inventory.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary CAWD 100% Secondary Capital Budget

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor					\$ 2,000			\$ 2,000
Engineering								\$ -
Parts & Supplies					\$ 24,000			\$ 24,000
Chemicals								\$ -
Utility								\$ -
Other					\$ 2,000			\$ 2,000
Total		\$ -	\$ -	\$ -	\$ 28,000	\$ -	\$ -	\$ 28,000

4 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: DeWatering Bldg
Asset Type: Process Equip (Chemical)
Avg Useful Life: 10 years
Est Residual Life: 5 years
% Consumed Life: 50%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: Dewatering Building Poly Blend unit M60-P1AA (Unit 2)
Dept: Treatment
Total Cost: \$ 28,000
CY Budget \$ -
GL Account:

Asset Description

Polymer mixing and injection unit that mixes and adds a coagulant to the flow stream of anaerobic digested sludge prior to the dewatering devices. Either the Screwpress or the Beltpress to enhance liquid separation.

Year Built: 2016
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 5 years
Asset Condition Rating: Good

Justification

The equipment's age is such that the vendor may no longer support or sell/stock replacement parts for the UGSI Polyblend unit in the future. This model was purchased in the Phase 1 project staff continues to update all polymer mixing systems to be the same, to limit the amount of spare parts in inventory.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

	Primary	CAWD 100%	Secondary	Capital Budget				
Budget Impact/Other	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor						\$ 2,000	\$	2,000
Engineering							\$	-
Parts & Supplies						\$ 24,000	\$	24,000
Chemicals							\$	-
Utility							\$	-
Other						\$ 2,000	\$	2,000
Total		\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ -	\$ 28,000

5 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Lab
Asset Type: Process Equip (Chemical)
Avg Useful Life: 10 years
Est Residual Life: 5 years
% Consumed Life: 50%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: Laboratory Dishwashers (2) (75% CAWD/25% Reclamation)

Dept: Treatment
Total Cost: \$ 28,000
CY Budget \$ -
GL Account:

Asset Description

The laboratory uses two specialized, industrial dishwasher configured for different bottle washing uses. One dishwasher is used for glassware of BOD bottles, beakers and flasks that go through a washing cycle of hot water, soap wash, rinse -tap and DI water, and acid wash. The second dishwasher is used as a universal wash that larger items can be washed and the sample bottles used for sample collection.

Year Built: 2016
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Good

Justification

This is listed as "Unscheduled", the dishwashers are currently working well - no time frame when to replace. These Laboratory dishwashers are Speciality Industrial Units designed to accommodate specifically design laboratory glassware and equipment.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary CAWD 50% Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor					\$ 2,000			\$ 2,000
Engineering								\$ -
Parts & Supplies					\$ 24,000			\$ 24,000
Chemicals								\$ -
Utility								\$ -
Other					\$ 2,000			\$ 2,000
Total		\$ -	\$ -	\$ -	\$ 28,000	\$ -	\$ -	\$ 28,000

**Capital Budget
Treatment & Disposal
Capital Improvement Projects**

CAWD Treatment Dept - CIP

FY 2022/23 thru 2026/27

Project #	PROJECT	22/23	23/24	24/25	25/26	26/27	Unscheduled
1	ATL LIMS System new generation 50% Cawd/50% Recl						\$ 38,790
2							
3							
4							
5							
	TREATMENT & DISPOSAL TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,790
	RECLAMATION SHARE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,395
	PBCSD SHARE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,459
	CAWD COST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,936

Note: Long Term Capital Projects are on Separate Worksheet

1 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Waggoner
Area: Lab
Asset Type: Office Equip
Avg Useful Life: 20 years
Est Residual Life: 15 years
% Consumed Life 25%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: ATL Laboratory Information Management System (LIMS)
Dept: Treatment
Total Cost: \$ 38,790
CY Budget \$ -
GL Account:

Asset Description

The Accelerated Technology Laboratory (ATL) Laboratory Information Management System (LIMS) is used for laboratory data management. All the laboratory data (NPDES and process control) is entered into the LIMS and able to generate reports, and queries from all the different projects and analysis tests.

Year Built: 2014
Rehabilitation Date: N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

This is entered into the "Unscheduled" due to uncertainty of when ATL will update the software current version being used. ATL works from the Microsoft programs and when Microsoft makes changes to the operating system some of the ATL features will not work. The ATL representative could not give me any updates on what Microsoft will upgrade. The new version of LIMS are built from different modules that the customer would like to have.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Mgmt Predictive & Preventative Maintenance
Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies						\$	36,000	\$ 36,000
Chemicals							\$	-
Utility							\$	-
Other						\$	2,790	\$ 2,790
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,790	\$ 38,790

Capital Budget
Treatment & Disposal
Long Term Capital Plan

Project Name: WWTP - Elec/Mech Rehab & Sludge Holding Tank Replacement Project

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: N/A
 Category: Capital Improvement
 Urgency: 3 = Important
 Carry Forward: No

Dept.: Treatment
 5 yr. Cap Projection: \$ 4,820,750
 CY Budget \$ 4,820,750

Project Description

This project is a multi-area project at the WWTP aimed at improving reliability of equipment in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged equipment electrical and mechanical work in existing buildings.

Influent Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of 1 Influent pump with 2 smaller pumps.

Headworks Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of existing auger screen with articulating rake screens. Replacement of existing grit tank collector mechanism in kind.

3W/Chlorine Analyzer Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment.

Effluent Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of motors on existing Effluent Pumps.

Sludge Holding Tank - Demolition of three old digesters/sludge holding tanks and replacement with one steel sludge holding tank. Work in this area includes piping demolition for piping associated with old tanks.

Year Built: 1930s, 1950s, 1970s, 1980s

Rehabilitation Date (Extending life of Asset): Various

Rehab Life Extension: Various

Asset Condition Rating: Various

Justification

This project was developed to mitigate business risk based on Kennedy/Jenks Phase 2 asset management risk assessment. The project is highly focused on electrical systems that are well past their useful life and are critical to operations. The sludge holding tank work is to address the fact that the current sludge holding tank was built in the 1930s and is past its useful life. Three existing sludge tanks that no longer meet seismic code will be removed and one new tank will be installed.

Reclamation Share is for the Lab standby power feeder and for the electrical work associated with the brine effluent pump in the Effluent Building.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary
 2.7% Reclamation

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor	\$ 1,922,875	\$ 2,022,875					\$ 2,022,875
Engineering	\$ 1,524,695	\$ 625,000					\$ 625,000
Parts & Supplies	\$ 1,922,875	\$ 2,022,875					\$ 2,022,875
Chemicals							\$ -
Utility							\$ -
Other	\$ 75,000	\$ 150,000					\$ 150,000
							\$ -
Total	\$ 5,445,445	\$ 4,820,750	\$ -	\$ -	\$ -	\$ -	\$ 4,820,750

2 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Treanor
Area Outfall

Project Name: **Carmel River FREE Mitigation Project (Funded by Grants/County, See Below)***

Asset Type: Structure
Avg Useful Life: Over 50 years

Dept.: Treatment
5 yr. Cap Projection: \$0* *Note that cost of project is estimated at approximately \$7
CY Budget \$0* Million. Project is being financed thru grant funds provided by
County of Monterey.

Est Residual Life: N/A
% Consumed Life: N/A
Category: CEQA Mitigation
Urgency: 3 = Important
Carry Forward: No

Project Description

Project to underground CAWD pipelines under the lagoon to mitigate impacts from the Monterey County flood control project (Carmel River FREE). The project will be financed as part of the Carmel River FREE Project. Currently the grant from the Coastal Conservancy is paying all CAWD labor costs during the engineering/environmental/permitting stage.

Year Built: Various
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

Required mitigation for the Monterey County flood control project (Carmel River FREE).

Risk Management Strategy

Capital Improvement Strategy: CEQA Mitigation
Maintenance Strategy:
Non Asset Strategy:

Funding Source

Primary **Monterey County - FEMA/OES Grant** Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$0	\$0	\$0		\$	-
Engineering		\$0	\$0	\$0		\$	-
Parts & Supplies		\$0	\$0	\$0		\$	-
Chemicals		\$0	\$0	\$0		\$	-
Utility		\$0	\$0	\$0		\$	-
Other		\$0	\$0	\$0		\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

3 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area Yard Piping
 Asset Type: Pipe (Misc.)
 Avg Useful Life: Over 50 years
 Est Residual Life: Unknown
 % Consumed Life: Unknown
 Category: Maintenance
 Urgency: 4 = Less Important
 Carry Forward: No

Project Name: Main Potable Water and Gas Main Replacement (5.5% Collections)

Dept.: Treatment

5 yr. Cap Projection: \$ 300,000
 CY Budget \$ 100,000

Project Description

The potable water and natural gas feed into the plant currently go through the existing under river encasement. These pipes are about 40 years old and the condition is unknown. The natural gas pipe is Schedule 80 PVC and is not to current code. The project will begin with an evaluation of alternatives for reinstalling new pipelines either under the river or along the plant road to Hwy 1.

Year Built: 1980s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: Unknown

Justification

The potable water and natural gas utility lines entering the plant are critical to the day to day operations at the WWTP. The natural gas line is used as a supplemental heat source for digester thermophilic heating, and the potable water is used for hand washing which is a critical part of employee health and safety. If either pipe were to fail under or adjacent to the river it would be extremely difficult to repair in a timely manner, and most likely new lines would need to be installed.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy:

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$	100,000			\$	100,000
Engineering & Environmental	\$	100,000	\$	30,000		\$	130,000
Parts & Supplies		\$	70,000			\$	70,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
						\$	-
Total	\$ -	\$ 100,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 300,000

4 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area Misc. Structures

Project Name: **Perimeter Fencing**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 275,000
 CY Budget \$ 275,000

Asset Type: Structure
 Avg Useful Life: 40 years
 Est Residual Life: 0 years
 % Consumed Life: 100%
 Category: Maintenance
 Urgency: 4 = Less Important
 Carry Forward: No

Project Description

Fencing around the Treatment Plant facility has deteriorated and is failing in multiple locations. This project would replace the fencing around the entire perimeter of the Treatment Plant with 8' chain link.

Year Built: 1970s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 8

Justification

This work is necessary to maintain security of the WWTP site.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy: Corrective Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$ 50,000				\$ 50,000	\$ 50,000
Engineering & Environmental		\$ 75,000				\$ 75,000	\$ 75,000
Parts & Supplies	\$ 3,000	\$ 150,000				\$ 150,000	\$ 150,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ 3,000	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 275,000

5 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area River Crossing

Project Name: **Fish Passage on CAWD Sewer Crossing on the Carmel River**
 Dept.: Treatment

Asset Type: Pipe (Misc.)
 Avg Useful Life: Over 50 years
 Est Residual Life:
 % Consumed Life: 0%
 Category: Capital Improvement
 Urgency: 3 = Important
 Carry Forward: No

5 yr. Cap Projection: \$ 30,000
 CY Budget \$ 30,000

Project Description

To improve adult upstream steelhead migration opportunities by installing a 6 - 12 inch curb at the downstream face of the concrete crossing to increase flow depth over the slab. Flow depth is the most significant obstacle to adult upstream passage and also contributes to predation of adults and juvenile. One or more narrow openings would be left between segments of curb to concentrate flow and attract fish at the location with the lowest jump height. This option would slightly increase the required jump height but would still be passable under most flow conditions. It also addresses velocity and depth criteria.

Year Built: n/a
 Rehabilitation Date (Extending life of Asset): n/a
 Rehab Life Extension: 30
 Asset Condition Rating: 1 New or Excellent Condition

Justification

Waterways Consulting performed an assessment of fish passage conditions over the Carmel River sewer pipeline crossing. The crossing was identified by Trout Unlimited as a potential temporal barrier to upstream fish passage due to a hydraulic drop and the shallow flow depth conditions observed at the concrete structure. NOAA (2016) estimates that the typical upstream passage window and spawning season for adult salmonids is from January to April. Year-round passage is assumed to be desired for juveniles and rearing fish within the lower Carmel River system. Passage conditions at the crossing are driven by the relationships between the Carmel River lagoon water surface elevation, the geometry of the sewer crossing, river flow, and physical conditions of the river downstream of the crossing. The crossing pipeline presents a temporal violation of applicable design standards for jump height, velocity and flow depth. The degree of non-compliance varies in magnitude and duration as a function of river and lagoon conditions at different times of the year.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy:
 Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$5,000				\$	5,000
Engineering						\$	-
Parts & Supplies		\$25,000				\$	25,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

6 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Sewer Lines

Project Name: **Vector Truck Unloading Station (100% Collections)**

Dept.: Treatment

5 yr. Cap Projection: \$ 350,000

CY Budget \$ 100,000

Asset Type: Structure
 Avg Useful Life: Over 50 years
 Est Residual Life:
 % Consumed Life: 0%
 Category: Capital Improvement
 Urgency: 3 = Important
 Carry Forward: No

Project Description

Construction of a dedicated vector unloading station at the WWTP. The station would be a washout bay with drainage where the District could unload vector waste and remove liquid residuals prior to disposal at the landfill.

Year Built: N/A

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: Various

Justification

The Collections Department uses their Vector Truck to clean sewer lines. The Vector Truck vacuums the solids removed during cleaning. The solids are ultimately disposed of at the landfill but first they are transported to the WWTP and transferred into a dumpster for disposal. There is currently not a dedicated and engineered station for the waste transferring to occur.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy:

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor			\$ 125,000			\$	\$ 125,000
Engineering		\$100,000				\$	\$ 100,000
Parts & Supplies			\$ 125,000			\$	\$ 125,000
Chemicals						\$	\$ -
Utility						\$	\$ -
Other						\$	\$ -
Total	\$ -	\$ 100,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 350,000

FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor

Area

Asset Type: N/A

Avg Useful Life: N/A

Est Residual Life: N/A

% Consumed Life: N/A

Category: Capital Improvement

Urgency: 4 = Less Important

Carry Forward: No

Project Name: **WWTP Perimeter Tree Planting**

Dept.: Treatment

5 yr. Cap Projection: \$ 125,000

CY Budget \$ 75,000

Project Description

Further planning and potential start of implementation of planting new native trees around perimeter of plant in anticipation for potential removal of eucalyptus someday. Costs to implement would include: consultant costs, tree procurement, planting labor, and installation of temporary irrigation.

Year Built: 1970s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: N/A

Justification

The trees surrounding the treatment plant are 40 years old. There is a need to have a long term plan for these trees which could include replacement with native species over the next 20 years to provide an environmental benefit to the surrounding area. Staff currently has a maintenance schedule for trimming the existing eucalyptus which is a costly activity due to the number of trees and the height. Further study is needed to determine best course of action and some early implementation may be warranted. Planning is for salt tolerant trees.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy:

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$ 25,000	\$ 25,000			\$	50,000
Engineering		\$ 15,000				\$	15,000
Parts & Supplies		\$ 35,000	\$ 25,000			\$	60,000
Chemicals						\$	-
Utility						\$	-
Other	\$5,020					\$	-
Total	\$ 5,020	\$ 75,000	\$ 50,000	\$ -	\$ -	\$ -	125,000

8 FY 2022-23 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP
 Asset Type: Landscaping
 Avg Useful Life: 40 years
 Est Residual Life: 0 years
 % Consumed Life: 100%
 Category: Capital Improvement
 Urgency: 4 = Less Important
 Carry Forward: No

Project Name: **Plant Landscaping**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 150,000
 CY Budget \$ -

Project Description

The front entrance area to the Treatment Plant is not landscaped. The entrance to the WWTP could benefit from aesthetic improvements. CAWD gets many visitors who go on tours and it is desirable to provide a positive impression visually at the front of the WWTP. This would be accomplished by improving the landscaping at the front part of the plant where visitors enter.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 8

Justification

Show pride of ownership of the WWTP and increase the positive impression to visitors of the WWTP.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy:
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$	100,000			\$	100,000
Engineering						\$	-
Parts & Supplies		\$	50,000			\$	50,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000

9 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area Misc. Structures
 Asset Type: Electrical
 Avg Useful Life: 25 years
 Est Residual Life: 1 year
 % Consumed Life: 100%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Lunch Room MCC Replace with Panelboard (Collection 6%)

Dept.: Treatment

5 yr. Cap Projection: \$ 140,000

CY Budget \$ -

Project Description

The Lunch Room MCC is an equipment remnant from when the lunch room was used as the chlorination building and also as a lab. This building no longer requires 480V power. This project would replace the existing 480V MCC in the lunch room with a 120V panelboard that would be more suitable for this building.

Year Built: 1950s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 8

Justification

The existing MCC was installed in the 1950s and is well past its useful life. Furthermore, a 480V MCC is no longer appropriate as electrical equipment for this building.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$	30,000			\$	30,000
Engineering		\$	20,000			\$	20,000
Parts & Supplies		\$	90,000			\$	90,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ 140,000	\$ -	\$ -	\$ -	\$ 140,000

10 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Yard Piping
 Asset Type: Pipe (Process Buried)
 Avg Useful Life: Over 50 years
 Est Residual Life: 25 years
 % Consumed Life: 50%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Outfall Cathodic Protection Anode Bed and Rectifier Replacement**

Dept.: Treatment

5 yr. Cap Projection: \$ 130,000

CY Budget \$ -

Project Description

Replacement of the sacrificial anodes and associated recitifier equipment located at the WWTP Effluent building that currently provides cathodic protection for the WWTP Outfall pipe.

Year Built: 1970s, 1980s, 1990s

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: Unknown

Justification

The anodes that provide the cathodic protection gradually deteriorate over time as they donate electrons to the pipeline to offset corrosion. The anodes and associated rectifier have been in service for 50 years and the anodes could be gone in the next 10 to 15 years. It is difficult to know exactly when the anodes will completely dissolve and the anodes should not be allowed to completely dissappear before replacing them.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				\$ 20,000		\$	20,000
Engineering		\$	30,000	\$ 50,000	\$	-	80,000
Parts & Supplies			\$	30,000		\$	30,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ 30,000	\$ 100,000	\$ -	\$ -	\$ 130,000

11 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
Area N/A

Project Name: **Plant Bridge Retrofit Project**
Dept.: Treatment

Asset Type: Structure
Avg Useful Life: Over 50 years
Est Residual Life: 15 years
% Consumed Life: 75%
Category: Maintenance
Urgency: 5 = Future
Carry Forward: No

5 yr. Cap Projection: \$ 1,300,000
CY Budget \$ -

Project Description

CAWD owns a pedestrian bridge over the Carmel River that continues to be a valuable asset for staff to access the North side of the river where CAWD maintains our natural gas service and also main trunk system lines. The fact that the bridge is intact after almost 90 years of service with essentially no maintenance is an indication of the quality of the construction. However, the bridge was evaluated by a structural design firm in 2011 and was found to have deficiencies during a large seismic event and vulnerable if it is hit by a large tree during an extreme flood event. If this structure could be rehabilitated it could potentially be used in the future as a pedestrian bridge for potential future coastal scenic walking trails connecting the State Park to Carmel-by-the-Sea.

Year Built: 1930s
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:
Asset Condition Rating: 7 Significant Deterioration

Justification

The bridge over the river is currently of value to the District in terms of access to assets on the North side of the river and also for access to the WWTP from the North if the plant access road is flooded. Maintaining this bridge is possible. Also, there may be value to the community in the future for coastal trails if the bridge was improved for use by the general public.

Risk Management Strategy

Capital Improvement Strategy:
Maintenance Strategy: Corrective Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$ 350,000	\$ -	
Engineering			\$150,000	\$150,000	\$ 200,000	\$ 100,000	\$ 500,000
Parts & Supplies					\$ 350,000	\$ -	
Chemicals						\$ -	
Utility						\$ -	
Other						\$ -	
Total	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 200,000	\$ 800,000	\$ 1,300,000

12 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Misc. Structures

Project Name: **Plant Paving and Vault Lids**

Dept.: Treatment

5 yr. Cap Projection: \$ 250,000

CY Budget \$ -

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Maintenance
 Urgency: 4 = Less Important
 Carry Forward: No

Project Description

Repaving inside the treatment plant grounds. Replacement of failing vault lids in various locations.

Year Built: Various

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: Various

Justification

The WWTP paved areas are used for vehicle and equipment movement around the plant, pavement needs to be maintained to provide for safe and efficient movement around the WWTP. There are numerous vault lids in paved and unpaved areas that have broken hinges and therefore are unsafe to open and close to do inspections and operations work.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				\$ 100,000		\$	100,000
Engineering			\$50,000			\$	50,000
Parts & Supplies				\$ 100,000		\$	100,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ 50,000	\$ 200,000	\$ -	\$ -	\$ 250,000

13 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Digesters
 Asset Type: Process Equip (Solid)
 Avg Useful Life: Over 50 years
 Est Residual Life: 25 years
 % Consumed Life: 60%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Digester No. 1 - Rehabilitation**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 910,000
 CY Budget \$ -

Project Description

Digester #1 is one of two digesters which serve the treatment plant. This tank is essential to providing digestion process redundancy. This digester needs maintenance/repairs to the improve the condition of the steel cover and the concrete walls. Furthermore, the electrical and mechanical systems associated with the tank mixing process need to be upgraded with new equipment.

Year Built: 1972
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 7 Significant Deterioration

Justification

The Digester tanks are critical for stabilization of sludge before dewatering to meet Class B biosolids disposal regulations. CAWD has two functional primary digesters that are intended as redundant units so that one unit can be taken offline for maintenance without negative impacts to the sludge treatment process. The concrete walls and steel cover exhibit signs of deterioration and should be repaired to improve the condition. Also, the tank mixing equipment and associated electrical is past its useful life and needs to be replaced to keep this tank in reliable operating condition.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Corrective Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$ 250,000		\$ 250,000
Engineering			\$ 150,000		\$ 100,000		\$ 250,000
Parts & Supplies					\$ 410,000		\$ 410,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ 150,000	\$ 760,000	\$ -	\$ 910,000

14 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Misc. Structures

Project Name: Staff Office Trailer Replacements

Dept.: Treatment

5 yr. Cap Projection: \$ 300,000

CY Budget \$ -

Asset Type: Structure
 Avg Useful Life: 25 years
 Est Residual Life: 5 years
 % Consumed Life: 80%
 Category: Capital Equipment
 Urgency: 5 = Future
 Carry Forward: No

Project Description

Staff currently use four mobile trailers for office space at the WWTP. It is anticipated that in about 8 to 10 years these trailers will need to be replaced or undergo extensive repairs due to age.

Year Purchased: 1999, 2009, 2013, 2019

Note: the trailers were not purchased as "New"

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 5 Moderate Deterioration

Justification

About 7 staff members at the WWTP use office trailers as their daily workspace. These trailers are critical for these staff to do their work and so they need to be maintained or replaced. Conceptually, the intent is to use some type of prefabricated building that could be modular in nature (i.e. mobile home trailers, shipping container buildings, or other types of prefab buildings). CAWD would still need to do site work to prep the area for the new buildings (utilities, grading, stairs, etc.).

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total	
Labor				\$	100,000	\$	100,000	
Engineering				\$50,000	\$	50,000	\$	100,000
Parts & Supplies				\$	100,000	\$	100,000	
Chemicals						\$	-	
Utility						\$	-	
Other						\$	-	
Total	\$ -	\$ -	\$ -	\$ 50,000	\$ 250,000	\$ -	\$ 300,000	

15 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor

Area Blower Bldg.

Asset Type: Process Equip (Gas)

Avg Useful Life: 30 years

Est Residual Life: 10 years

% Consumed Life: 66%

Category: Maintenance

Urgency: 4 = Less Important

Carry Forward: No

Project Name: **Replace Older Turblex Blower**

Dept.: Treatment

5 yr. Cap Projection: \$ 530,000

CY Budget \$ -

Project Description

Continuous air supply is a critical component for aeration processes within wastewater treatment. A reliable low pressure blower system with full redundancy is essential to provide continuous operation of the critical aeration process. This project will include evaluating installation of a smaller blower, or replacement of the Lamson blower that was installed in the 1970's.

Year Built: 1972, 1992

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 5 Moderate Deterioration

Justification

Two blowers are required to meet equipment redundancy requirements for the aeration process. The new turblex blower was installed in 2017 and serves as the lead/duty blower. The old turblex blower installed in 1997 had previously served as the lead/duty blower reliably for 20 years prior to the new blower being installed in 2017. Improvement of reliability is being planned prior to the new blower reaching 10 years in operating service. If it is determined that energy savings could benefit the District during low flow periods, a smaller blower may be proposed.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor						\$ 100,000	\$ 100,000
Engineering						\$ -	\$ -
Parts & Supplies						\$ 430,000	\$ 430,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 530,000	\$ 530,000

16 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Influent Building

Project Name: **Influent Pump Station Wet Well Repairs**

Dept.: Treatment

5 yr. Cap Projection: \$ 150,000

CY Budget \$ -

Asset Type: Structure
 Avg Useful Life: Over 50 years
 Est Residual Life: 30 years
 % Consumed Life: 40%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Description

The influent wet well provides storage during pumping of plant influent to the Headworks. The wet well is subject to corrosive conditions which degrade concrete over time and if left unchecked the corrosion can extend into the rebar which is much more expensive to repair than the outer concrete layer.

Year Built: 1982

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 5 Moderate Deterioration

Justification

The influent wet well is a critical component of the conveyance of the raw wastewater to the treatment system. Repairing the concrete (method will likely be coating) as a preventative maintenance activity avoids degradation of reinforcing steel which would be much more costly to repair and damaging to the structural integrity. This wet well was identified in the asset management risk evaluations as being a candidate for repairs in the near term due to Consequence of Failure and Probability of Failure.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$	50,000	\$ 50,000
Engineering					\$	50,000	\$ 50,000
Parts & Supplies					\$	50,000	\$ 50,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000

17 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Ops Bldg.
Asset Type: Building Mechanical
Avg Useful Life: 25 years
Est Residual Life: 5 years
% Consumed Life: 80%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **Operations Building HVAC and Plumbing Systems Repairs**

Dept.: Treatment

5 yr. Cap Projection: \$ 155,000

CY Budget \$ -

Project Description

The Operations Building contains computer workstations for operators, a conference room that is used frequently for plant meetings, the main computer and SCADA servers for the treatment plant, and the main electrical switchgear. The HVAC system will need to be replaced for this building including heating and air conditioning to maintain equipment to provide good air quality.

Year Built: 1972

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 7 Significant Deterioration

Justification

The Operations Building houses several critical systems of the WWTP including the main electrical switchgear and the main computer and SCADA servers. Keeping the air quality in the building cool and dry will extend the life of these expensive assets. Improving the HVAC systems in this building will improve the indoor air quality and will keep the switchgear and SCADA equipment in good condition.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$ 50,000	\$ 50,000	\$ 50,000
Engineering					\$ 15,000	\$ 15,000	\$ 15,000
Parts & Supplies					\$ 90,000	\$ 90,000	\$ 90,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 155,000	\$ 155,000

18 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various
 Asset Type: Structure
 Avg Useful Life: 25 years
 Est Residual Life: 1 year
 % Consumed Life: 40%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Roofing Repairs**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 200,000
 CY Budget \$ -

Project Description

The Operations Building, Influent Building, and the Headworks control room have concrete roofs with an asphaltic built up roofing system common to commercial buildings. The asphaltic roof system can degrade over time which allows rainwater to leak onto the concrete roof which is not water tight. The concrete structure of the roof will not need to be repaired, just the water barrier on top.

Year Built: 1990
 Rehabilitation Date (Extending life of Asset):
 Rehab Life Extension:
 Asset Condition Rating: 5 Moderate Deterioration

Justification

During the rainy season water can leak through an old asphaltic roof system resulting in potential water intrusion into buildings with equipment and personnel. Maintaining water tight roofs avoids any damage to equipment or safety issues created by pooling water indoors.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$	100,000	\$ 100,000
Engineering						\$	-
Parts & Supplies					\$	100,000	\$ 100,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

19 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures

Project Name: **Septage Waste Receiving Station**
Dept.: Treatment

Asset Type: Various
Avg Useful Life: Various
Est Residual Life: N/A
% Consumed Life: N/A
Category: Capital Improvement
Urgency: 5 = Future
Carry Forward: No

5 yr. Cap Projection: \$ 150,000
CY Budget \$ -

Project Description

Construction of a new Wet Waste/Septage receiving station to be located adjacent to the new Digester. Station would be able to receive up to 10,000gal/day (2 tankers of ~ 5,000 gal size) of material and would be injected directly into the Digester to avoid increasing the biological load on the aeration system.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

Preliminary design of a septage receiving facility was conducted by Kennedy/Jenks Consultants and it was concluded that the construction of this facility would pay for itself in revenue in about 10 years. Staff feels that this service would be a good source of revenue and will benefit local septic haulers in that they wouldn't have to drive as far to dispose of the waste. Adding a septage receiving facility is not critical to the operation of the treatment plant or to improving reliability. The existing grease receiving station can be utilized for food waste but not for septage. This project can be re-evaluated every couple of years to see if there is merit or desire for CAWD to provide septage receiving.

Risk Management Strategy

Capital Improvement Strategy: N/A
Maintenance Strategy: N/A
Non Asset Strategy: N/A

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					\$	50,000	\$ 50,000
Engineering					\$	50,000	\$ 50,000
Parts & Supplies					\$	50,000	\$ 50,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000

20 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Outfall
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 5 = Future
Carry Forward: No

Project Name: **Lagoon Crossing Rehabilitation**

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

Potential rehabilitation of Lagoon Crossing Structure to maintain condition. Project may include driving a new set of piles in the lagoon to maintain the existing structure.

Year Built: Various

Rehabilitation Date (Extending life of Asset): 2019

Rehab Life Extension: N/A

Asset Condition Rating: 4

Justification

The Outfall Pipeline and Calle La Cruz Forcemain are in acceptable condition. Rehabilitation may be needed in the future and may include driving new piles.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	Total
Labor \$	200,000	\$ 200,000
Engineering \$	50,000	\$ 50,000
Parts & Supplies \$	250,000	\$ 250,000
Chemicals	\$	-
Utility	\$	-
Other	\$	-
	\$	-
Total	\$ 500,000	\$ 500,000

21 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor

Area Outfall

Asset Type: Structure

Avg Useful Life: Over 50 years

Est Residual Life: 20 years

% Consumed Life: 60%

Category: Maintenance

Urgency: 5 = Future

Carry Forward: No

Project Name: **Ocean Outfall Rehabilitation**

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

The outfall pipeline in the ocean was installed in the 1970s and has experienced a break only one time - in 2007. That break in the pipeline cost \$647,504 to repair. The cause of the break remains unknown. Repair to the WWTP outfall in the event annual inspections reveal a defect or emergency repair as a result of storm damage. This item is being scheduled for 29/30 but the actual timeframe will depend on ongoing inspections of the outfall. Underwater inspections this past year found no defects.

Year Built: 1970

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 2

Justification

The ocean outfall is a critical asset to the NPDES permit as the diffusion in the outfall is required by the permit to meet the initial dilution requirements. The design of the outfall appears to be very good in that it is bedded on the granite shelf and the ocean-facing side is concrete encased for protection.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary

Capital Budget

Secondary

Budget Impact/Other

	29-30	Total
Labor \$	300,000	\$ 300,000
Engineering \$	200,000	\$ 200,000
Parts & Supplies \$	500,000	\$ 500,000
Chemicals	\$	-
Utility	\$	-
Other	\$	-
	\$	-
Total	\$ 1,000,000	\$ 1,000,000

22 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various
 Asset Type: SCADA
 Avg Useful Life: 15 years
 Est Residual Life: 15 years
 % Consumed Life: 0%
 Category: Maintenance
 Urgency: 5 = Future
 Carry Forward: No

Project Name: Next Generation PLC/SCADA Upgrades Phase 1

Dept.: Treatment

5 yr. Cap Projection: \$ -
 CY Budget \$ -

Project Description

Upgrades to PLC and SCADA equipment to keep up with obsolescence of technology. Most likely PLC equipment and SCADA software currently installed will be obsolete in 15 years with newer technology providing better service.

Year Built: 1972
 Rehabilitation Date (Extending life of Asset): 2019
 Rehab Life Extension: 25
 Asset Condition Rating: 2

Justification

SCADA software and PLC equipment are critical to the monitoring and operation of the WWTP. These assets can fail and the availability of replacement parts is a driver for replacement as technology changes.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	33-34	Total
Labor	\$ 350,000	\$ 350,000
Engineering	\$ 200,000	\$ 200,000
Parts & Supplies	\$ 450,000	\$ 450,000
Chemicals	\$ -	-
Utility	\$ -	-
Other	\$ -	-
	\$ -	-
Total	\$ 1,000,000	\$ 1,000,000

23 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP

Project Name: **Sea Level Rise Flood Mitigation**

Dept.: Treatment

5 yr. Cap Projection: \$ -
 CY Budget \$ -

Asset Type: Various
 Avg Useful Life: 50 years
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Capital Improvement
 Urgency: 5 = Future
 Carry Forward: No

Project Description

Some future work to mitigate impacts of climate change. CAWD completed a sea level rise study in 2018 that indicates that the treatment plant will be vulnerable to increased riverine flooding in future days resulting from climate change. The plant has been designed to operate during floods, however if the base flood elevation increases above the current level of protection then improvements would need to be made to mitigate higher flood levels.

Year Built: 1970s - 2010s

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension: N/A

Asset Condition Rating:

Justification

Increased riverine flood levels onsite in future extreme sea level rise scenarios could cause NPDES permit violations.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Predictive & Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Unknown	Total
Labor	\$ -	-
Engineering	\$ -	-
Parts & Supplies	\$ -	-
Chemicals	\$ -	-
Utility	\$ -	-
Other	\$ -	-
	\$ -	-
Total	<u>Unknown</u>	<u>Unknown</u>

Contact: Treanor

Area Various

Asset Type: Pipe (Process Buried)

Avg Useful Life: Over 50 years

Est Residual Life: Various

% Consumed Life: Various

Category: Maintenance

Urgency: 3 = Important

Carry Forward: No

Project Name: Misc. Yard Piping Rehab and Maintenance Projects

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

After inspections of select buried piping segments that have a high consequence of failure, it may be found that the buried pipeline should be rehabilitated. An allowance is estimated for rehabilitation of buried piping in the WWTP.

Buried piping with a high consequence of failure and selected for possible rehabilitation include:

#1 Water Distribution Piping, #3 Water Distribution Piping, Natural Gas Piping, Influent Piping, Secondary Clarifier #1 Effluent Piping, Piping between the Headworks and Primary Clarifiers

Year Built: Various

Rehabilitation Date (Extending life of Asset): Various

Rehab Life Extension: 30

Asset Condition Rating: 5 Moderate Deterioration

Justification

Piping level of service to carry fluids, gas or chemicals without leaks or breaks. Leaks and breaks should be proactively mitigated to avoid spills to the environment.

Failure Modes Addressed:

1. Lack of proactive failure mitigation and condition assessment of buried piping.
2. The condition of buried piping is unknown however due to the prevalent corrosion that can occur in wastewater process piping it is likely that condition issues exist in some buried piping.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	Total
Labor	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$ 225,000
Engineering						\$ -
Parts & Supplies	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$ 225,000
Chemicals						\$ -
Utility						\$ -
Other						\$ -
Total	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 450,000

25 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various

Project Name: **Influent/Headworks/Primary Rehab and Maintenance Projects**
 Dept.: Treatment

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

5 yr. Cap Projection: \$ -
 CY Budget \$ -

Project Description

The Influent/Headwork/Primary provides removal provides influent conveyance of wastewater and removal of settleable solids. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
 Rehabilitation Date (Extending life of Asset): Various
 Rehab Life Extension: Various
 Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering					\$	-
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
Total	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

26 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various

Project Name: **EQ/Blowers/Aeration/Secondary Rehab and Maintenance Projects (Partial Reclamation)**

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various

Dept.: Treatment
 5 yr. Cap Projection: \$ -
 CY Budget \$ -

Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Description

The Blowers/Aeration/Secondary processes provide removal of Biological Oxygen Demand and light settleable solids. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
 Rehabilitation Date (Extending life of Asset): Various
 Rehab Life Extension: Various
 Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The Equalization (EQ) system and the nitrification optimization systems which are in this area are associated with Reclamation.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	Total
Labor	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Engineering					\$	-
Parts & Supplies	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
Total	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000

27 FY 2022-23 Budget
Carmel Area Wastewater District

Contact: Treanor
Area: Various

Project Name: Chlorination/Dechlorination/Effluent Rehab and Maintenance Projects (Partial Reclamation)
Dept.: Treatment
5 yr. Cap Projection: \$ -
CY Budget \$ -
GL Account:

Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Description

The Chlorination/Dechlorination/Effluent processes provide disinfection and chlorine residual prior to the Reclamation Microfilters and provide inactivation of viruses and bacteria removal prior to discharge to the environment or to the Reclamation Project. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
Rehabilitation Date (Extending life of Asset): Various
Rehab Life Extension: Various
Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The chlorination systems are interconnected between the Secondary Plant and Reclamation.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy: Predictive & Preventative Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering						\$ -
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals						\$ -
Utility						\$ -
Other						\$ -
Total	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

28 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various

Project Name: **DAFT/Digestion/Dewatering Rehab and Maintenance Projects (Partial Reclamation)**

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various

Dept.: Treatment
 5 yr. Cap Projection: \$ -
 CY Budget \$ -

Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Description

The DAFT/Digestion/Dewatering systems provide treatment of sludge and waste streams and removal of solids from the treatment plant. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
 Rehabilitation Date (Extending life of Asset): Various
 Rehab Life Extension: Various
 Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The DAFT system is used by the Reclamation Project for treatment of MF Backwash and membrane cleaning waste.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	27-28	28-29	29-30	30-31	31-32	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering					\$	-
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
					\$	-
Total	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

29 **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP

Project Name: **Coastal Hazards Monitoring Plan**

Dept.: Treatment

5 yr. Cap Projection: See O&M Budget

CY Budget See O&M Budget

Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Study
 Urgency: 3 = Important
 Carry Forward: No

Project Description

Pending Coastal Commission Direction - The Coastal Hazards Monitoring Plan shall establish the framework and parameters for: 1) regularly monitoring flood and other coastal hazards at the Plant and management responses, 2) identifying how those hazards are impacting and affecting the operations of the Plant, 3) identifying changes necessary to allow continued appropriate and required functioning of the Plant, 4) identifying flood/hazard "triggers" to establish when actions need to be pursued in response to specific flood/hazard events, and 5) evaluating how area and regional projects regarding flood control projects proposed in the vicinity of the WWTP will impact the plant.

Year Built: N/A

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: N/A

Justification

This work is being proposed by the California Coastal Commission as part of Coastal Development Permitting

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy:

Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor						\$	-
Engineering		\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$ 375,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

30 **FY 2022-23 Budget**
 Camel Area Wastewater District

Contact: Treanor
 Area WWTP

Project Name: **Coastal Hazards Response Plan**
 Dept.: Treatment
 5 yr. Cap Projection: See O&M Budget
 CY Budget See O&M Budget

Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Study
 Urgency: 3 = Important
 Carry Forward: No

Project Description

Per Coastal Commission - A response plan shall build upon the sea level rise work already completed, and the coastal hazards monitoring. This study shall compare the costs and benefits of maintaining the WWTP in its current location vs relocating the treatment facilities and look at alternatives for relocation.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: N/A

Justification

This work is being proposed by the California Coastal Commission as part of Coastal Development Permitting

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy:
 Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor						\$	-
Engineering		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

31 FY 2022-23 Budget
 Carmel Area Wastewater District

Project Name: **Miscellaneous Technical Studies**
 Dept.: Treatment
 5 yr. Cap Projection: See O&M Budget
 CY Budget See O&M Budget

Contact: Treanor
 Area WWTP
 Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Study
 Urgency: 3 = Important
 Carry Forward: No

Project Description

Technical studies as may be necessary to evaluate technical issues or opportunities at the WWTP.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: N/A

Justification

Being prepared for opportunities or issue mitigations by advance study/review will allow CAWD to be proactive in management and operation of the WWTP.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy:
 Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor						\$ -	
Engineering		\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$ 625,000
Parts & Supplies						\$ -	
Chemicals						\$ -	
Utility						\$ -	
Other						\$ -	
Total	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 625,000

**Capital Budget
Administration Dept.**

1 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Barringer
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 50 years
 Est Residual Life: 50 yrs
 % Consumed Life: 0%
 Category: Administration
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Codification Project
 Dept.: Administration
 5 yr. Cap Projection: \$ 25,000.00
 CY Budget \$ 25,000.00
 GL Account:

Asset Description

Currently the majority of District administrative policies are held in individual Resolutions and Ordinances. There is no consolidated "Administrative Code" manual. In 2021-22 the first phase of this project was initiated. Anticipated conclusion in 2022-23.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

This project will consolidate all District policies into one document or Administrative Code. It will make it easier and clearer for staff, any outside agency, or member of the public to examine District policies in one location.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management:
 Non Asset Risk Management: Regulatory Project

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	27-28	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other	\$25,000	\$ 25,000						\$ 25,000
Total		\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000

2 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Admin Roof
Dept.: Administration
5 yr. Cap Projection: \$ 70,000.00
CY Budget \$ -
GL Account:

Contact: Lather
Area Administration
Asset Type: N/A
Avg Useful Life: 30 years
Est Residual Life: 0 yrs
% Consumed Life: 100%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Asset Description

The roof at the Admin offices is composite shingle. The average lifespan of asphalt shingles ranges from 20 to 40 years.

Year Built: 1990
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

The roof will be 32 years old in 2022. We will continue to monitor its condition but estimate that it may still have some life remaining. At this time the plan is to replace with like roofing.

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary	Capital Reserves	Secondary							
Budget Impact/Other		Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
	Labor							\$	-
	Engineering							\$	-
	Parts & Supplies							\$	-
	Chemicals							\$	-
	Utility							\$	-
	Other							\$ 70,000	\$ 70,000
	Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,000	\$ 70,000

3 **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Administration
Asset Type: N/A
Avg Useful Life: 50 years
Est Residual Life:
% Consumed Life:
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Front Porch Settling - repair
Dept.: Administration
5 yr. Cap Projection: \$ 35,000.00
CY Budget \$ -
GL Account:

Asset Description

The concrete front porch to the Admin Building has settled approximately 1-2 inches since it was initially poured in 1990. Settlement is likely due to improper/non-existent footings/foundations under the porch.

Year Built: 1990
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

The options to solve this problem include: (1) Rip out and build new, (2) Dig underneath and jack it up a bit above where it belongs, pour a new footer below, and then set it back down, and (3) Leave it as is and build something new over the top of it that makes it "disappear". Mudjacking, also referred to as slabjacking, concrete raising or pressure grouting, is the process of raising concrete slabs by hydraulically pumping a grout mixture mixed with cement under the concrete slab. The procedure may provide a solution to the settling experienced on the building front porch. The District will invite contractors experienced in these techniques to the site for analysis of which method will provide the best results.

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							\$ 35,000	\$ 35,000
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000

4 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Replace Administrative Office Carpeting
Dept.: Administration
5 yr. Cap Projection: \$ 27,000.00
CY Budget \$ -
GL Account:

Contact: Lather
Area Administration
Asset Type: N/A
Avg Useful Life: 20 years
Est Residual Life: 0 yrs
% Consumed Life: 100%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Asset Description

It is anticipated that the Administration office building carpeting, which has never been replaced, will need to be replaced within the next 5 years. 500 square yards at \$45/yard. To prolong the carpet life, staff proposes to include a maintenance item to professional clean the carpets each year.

Year Built: 1990
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

The carpets were cleaned in 2021 and were successful in removing large stains; however, the high traffic areas remain badly worn and soiled. Given the age of the carpet it is not surprising that it is showing its age. We tiled the entry way and hallway roughly 5 years ago because of the condition of the carpet. The general recommendation for the life of commercial carpeting is a 10 year lifespan.

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary	Capital Reserves	Secondary						Unscheduled	Total
Budget Impact/Other	Prior Yr.	22-23	23-24	24-25	25-26	26-27			
Labor								\$ -	
Engineering								\$ -	
Parts & Supplies								\$ -	
Chemicals								\$ -	
Utility								\$ -	
Other							\$ 27,000	\$ 27,000	
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,000	\$ 27,000	

5 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Interior Painting
 Dept.: Administration
 5 yr. Cap Projection: \$ 25,000.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 0 yrs
 % Consumed Life: 100%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The District has not had the interior building walls painted since 1990. There has been some "touch up" work over the years, but we have reached the point where there are repairs that need to be done (i.e. cracks, separation at corners, chipping, etc.) and then the entire office repainted. Base boards in the main hallway were painted in 2016 as part of the floor tile project. We would like to keep the "teal" wallpaper in entry and boardroom intact.

Year Built: 1990
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

Normal wear and tear on the building over the past 30 years - it is generally recommended in trade to repaint interior every 5-7 years.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							\$ 25,000	\$ 25,000
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000

6 **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Update bathrooms - new tile & paint
 Dept.: Administration
 5 yr. Cap Projection: \$ 25,000.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 0 years
 % Consumed Life: 100%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The bathrooms in the Admin Offices were tiled and painted in 1990 when the building was completed. After 30 years it is time to update the paint and tile.

Year Built: 1990
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

Bathroom appear dated - when interior walls are painted, restrooms should also be done. Tile should extend up walls for splash purposes.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							\$ 25,000	\$ 25,000
Total		\$	- \$	- \$	- \$	- \$	- \$ 25,000	\$ 25,000

7 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Administration
Asset Type: N/A
Avg Useful Life: 10 years
Est Residual Life: 0 yrs
% Consumed Life: 100%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Replace Administrative Office Furnace
Dept.: Treatment
5 yr. Cap Projection: \$ 6,500.00
CY Budget \$ -
GL Account:

Asset Description

It is anticipated that the Administrative Office building furnaces will need to be replaced at some future date. There are a total of three furnaces in the building. We have had intermittent repairs to the system and replaced two units as they failed - last in 2009. We continue to annually change the filters.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): 1990
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

Because the furnaces are relatively easy to repair/replace we will continue to handle these on a run-to-fail basis.

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary	Operating Reserves						Secondary		Total
	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled		
Budget Impact/Other									
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other							\$ 6,500	\$ 6,500	
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,500	\$ 6,500	

a **FY 2022-23 Budget**
Carmel Area Wastewater District

Contact: Foley
Area Administration
Asset Type: N/A
Avg Useful Life: 5 years
Est Residual Life: 1 year
% Consumed Life: 80%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Server Replacement
Dept.: Administration
5 yr. Cap Projection: \$ 7,000.00
CY Budget \$ 7,000.00
GL Account:

Asset Description

The Dell Optiplex server located in Admin was installed in 2017. It functions as the email server and data server for Admin offices.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

This server was replaced in 2017. We replace servers on a rotating five year basis to ensure reliability and ability to keep up with technology. The older servers become, the less value they produce on the efficiency level. Stretching out the lifespan would mean an increase in business risk as we rely on hardware that is unsupported or that cannot be fixed in a timely manner. There is also a greater chance of losing sensitive data or that the Admin Office ends up offline for an extended period. Because Admin employees spend at least 6 hrs/day on a computer reliability is critical.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Budget Impact/Other	Primary	Capital Reserves		Secondary					Total		
		Prior Yr.	22-23	23-24	24-25	25-26	26-27	27-28			
Labor									\$	-	
Engineering									\$	-	
Parts & Supplies									\$	-	
Chemicals									\$	-	
Utility									\$	-	
Other		\$	7,000						\$	7,000	
Total		\$	7,000	\$	-	\$	-	\$	-	\$	7,000

b **FY 2022-23 Budget**
Carmel Area Wastewater District

Project Name: Admin Copy Machine/Scanner/Fax
 Dept.: Administration
 5 yr. Cap Projection: \$ 10,500.00
 CY Budget \$ -
 GL Account:

Contact: Buikema
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 5 years
 % Consumed Life: 50%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The current machine was purchased in 2019 for \$7,865. The technician, and our own experience, advises that the typical lifespan is 5-7 years. Budget assumes a 4% increase per year from 2019. The cost includes a pedestal and additional paper drawers to accommodate regular, legal, and ledger size paper.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 3 Minor defects only

Justification

The Admin copy machine receives considerable use every working day and is a critical piece of office equipment. While technology will certainly continue to change, based on current average usage we are planning for its replacement with an equivalent machine. This machine carries the largest load of copy and print volume for the District and is the conduit between copy/scan/fax/email of documents in Admin and the rest of the plant. The usage on this machine is heavy due to printing of board packets and other project material. Staff must have the ability to print/scan/fax from the Admin Office to ensure continued work flow without interruption.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Budget Impact/Other	Primary	Capital Reserves		Secondary					Unscheduled	Total			
		Prior Yr.	22-23	23-24	24-25	25-26	26-27						
Labor									\$	-			
Engineering									\$	-			
Parts & Supplies									\$	-			
Chemicals									\$	-			
Utility									\$	-			
Other						\$ 10,500			\$	10,500			
Total		\$	-	\$	-	\$	-	\$	10,500	\$	-	\$	10,500

c **FY 2022-23 Budget**
 Carmel Area Wastewater District

Contact: Foley
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 10+ years
 Est Residual Life: 4 yrs
 % Consumed Life: 60%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: General Manager's Sedan
 Dept.: Administration
 5 yr. Cap Projection: \$ 38,000.00
 CY Budget \$ -
 GL Account:

Asset Description

The current vehicle (Hyundai Santa Fe) was purchased in 2016 and has 21,691 miles on the odometer. We estimate this car will last over 100,00 miles. Replacement is estimated at 10+ years for budget; however we acknowledge that in the absence of any significant mechanical issues this vehicle can last considerably longer.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

This vehicle is used by all staff for daily business meetings, conferences, and training. While it is predominately used by Administration staff, it is available to plant staff or the Board for travel to conference/training. The ability to handle up to four large adults comfortably makes this vehicle quite useful.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehab/Replacement
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							38,000	\$ 38,000
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,000	\$ 38,000