

County of Maui

Department of Environmental Management

- Solid Waste and Wastewater Reclamation Divisions FY24 Budget Presentation
- Prepared for the Water and Infrastructure Committee
- February 22, 2024

SOLID WASTE DIVISION FY24 BUDGET OVERVIEW

COUNTY COUNCIL WAI COMMITTEE MEETING 2/22/2024

SOLID WASTE DIVISION MISSION:

*“To provide Public Health, Safety and Environmental Protection of Maui County’s Air, Land and Water
Through Effective and Sustainable Solid Waste Management Practices, Resources and Dedicated Team”*

DIVISION MANAGEMENT PRIORITIES

1) SAFETY

Employee safety
Public and Environmental safety
Facility, Equipment & Infrastructure safety

2) REGULATORY COMPLIANCE ENVIRONMENTAL PROTECTION

Meet all State, Federal & County regulatory requirements, permits, mandates, & procedures to maintain compliance

3) RESOURCE MANAGEMENT

Meet resource management needs for personnel, budget, equipment & Infrastructure to build & maintain: Reliability, Sustainability & Efficiency

4) NON-SAFETY, NON-COMPLIANT RELATED SERVICES / PROGRAMS

Expansion of community services, landfill diversion programs, refuse collections on non-County roads, beautification, grounds keeping, non-critical programs



FY24 MID-YEAR BUDGET HIGHLIGHTS

SOLID WASTE DIVISION FY24 BUDGET TO ACTUAL YTD					
PROGRAM	APPROVED BUDGET	EXPENSES	ANTICIPATED EXPENSES	PROJECTED END OF YEAR BALANCE*	EOY % of BUDGET
SWD Admin A	\$1,222,264	(\$512,620)	(\$512,620)	\$197,024	16.12%
SWD Admin B	\$327,750	(\$140,169)	(\$128,280)	\$59,301	18.09%
SWD Admin C	\$76,809	(\$1,800)	(\$72,968)	\$2,041	2.66%
SWD Admin Fringe & OH	\$16,679,063	(\$7,659,251)	(\$7,998,357)	\$1,021,456	6.12%
SWD Ops A	\$6,641,980	(\$3,153,436)	(\$3,153,435)	\$335,109	5.05%
SWD Ops B	\$8,800,513	(\$2,864,407)	(\$5,439,132)	\$496,974	5.65%
SWD Ops C	\$5,463,828	(\$543,183)	(\$4,912,240)	\$8,405	0.15%
SWD LF INTERFUND	\$50,000	(\$941)	(\$1,317)	\$47,742	95.48%
SWD REF COLL INTERFUND	\$100,000	(\$39,224)	(\$39,224)	\$21,552	21.55%
C & D	\$357,322	(\$58,847)	(\$39,348)	\$259,127	72.52%
TOTAL A, B, C	\$39,719,529	(\$14,973,878)	(\$22,296,921)	\$2,448,730	6.17%

*DATA VALID THROUGH 12/31/23 2023 FE REPORT



FY24 CIP OVERVIEW / UPDATE

CBS No	Project Name	Description	Estimated Cost	Progress
7252	Interim County of Maui Greenwaste and Biosolids Management	The current processing area for greenwaste, biosolids, and fats, oils and grease requires relocation for future landfill development, as well as further evaluating processing options. This project will design and construct an interim area to manage greenwaste and biosolids at the Central Maui Landfill.	\$ 2,000,000.00	Started
6634	CML Phase II/III Interface Development	The new landfill cell built on the floor of Phase III lays back onto the existing closed landfill slope of Phase II. This work design and installs a Department of Health approved liner system at the lay back slope of Phase II allowing for landfill gas collection and leachate collection and drainage, as well as protection of the slope from the placement and compaction of new municipal solid waste placed onto it.	\$ 1,200,000.00	Started
6640	CML Comprehensive EIS	This project complies with the State Land Use Commission Special Permit for Central Maui Landfill which requires the County to apply for a District Boundary Amendment (DBA). An Environmental Impact Statement for the entire proposed district is required for the DBA. This project meets this requirement.	\$ 300,000.00	Started
7867	Partial Closures of Active Landfills	The State of Hawaii Department of Health is requiring a demonstration of closure cap effectiveness prior to closing landfill cells. The proposed project will develop test methodology and conduct testing and reporting to satisfy this requirement. The closure cap construction approved by DOH will be utilized to begin partial closure of active landfills.	\$ 50,000.00	Not Started
7235	CML Kalialinui Gulch Crossing	The purpose of this project is to explore options for improving the Kalialinui Gulch crossing at the Central Maui Landfill. This crossing is the main connection between Phase IV and Phase III. When filled with water, the gulch runs through culverts under an earthen berm. Stormwater from a large event could cause a washout of the existing crossing cutting off access. The crossing is also part of the site's stormwater management system.	\$ 250,000.00	Not Started
3567	CML Land Purchase	The planning phase of this project will provide an appraisal for the acquisition of land to the South of Central Maui Landfill Phase VI. Following future purchase of the land, the property will be permitted and developed to expand the landfill.	\$ 2,000,000.00	In Process
7868	MLF Master Plan	This project proposes to identify new opportunities for additional landfill disposal and solid waste management facility areas at the Molokai Integrated Solid Waste Management Facility.	\$ 250,000.00	Started
3182	Environmental Compliance System Design and Construction	This project will provide design, construction, and related services to address environmental compliance opportunities and operational improvements at all County Solid Waste Management facilities in alignment with state and federal requirements.	\$ 750,000.00	Started
7869	CML LFG Sys Expansion	This project will provide the necessary infrastructure expansion to collect and control landfill gas at Central Maui Landfill in accordance with state and federal regulations.	\$ 450,000.00	Started
			\$ 7,250,000.00	



WILDFIRE DISASTER EFFORTS / EFFECT ON FY24 BUDGET

Solid Waste Division:

- Design, construct, operate, and close a temporary debris site for temporary containment of wildfire debris from parcel owners opting out of the federal debris removal program
- Design, construct, and operate a permanent disposal site for all non-hazardous wildfire debris that could not be recycled
- Assist with environmental monitoring for wildfire related activities
- An estimated 800 refuse carts burned, will need to be replaced
- Decreased refuse accounts resulting in an estimated reduction of \$420K in revenue
- Estimated 5-7% reduction in tip fees collected at Central Maui Landfill since the wildfire, but appears to be recovering in recent months



FY25 PREVIEW

BUDGET SUMMARY:	FY24 APPROVED	FY25 PROPOSED	DIFFERENCE
Proposed A, B	\$32,954,153	\$ 33,325,688	\$ 371,535
C-Budget (Equip/Lease)	\$4,180,390	\$2,323,890	(\$1,856,500)
CIP	<u>\$7,250,000</u>	<u>\$4,600,000</u>	(\$2,650,000)
	\$44,384,543	\$ 40,249,578	(\$4,134,965)

- In anticipation of reduced revenue caused by the Maui Wildfires, no increases are being proposed in the SWD's operating budgets
- The SWD's is pushing out its Asset Replacement Strategy to reduce the SWD's budget equipment request
- No rate or fee increases are being requested





WASTEWATER RECLAMATION DIVISION

COUNTY of MAUI
DEPARTMENT of ENVIRONMENTAL
MANAGEMENT

WATER and INFRASTRUCTURE COMMITTEE

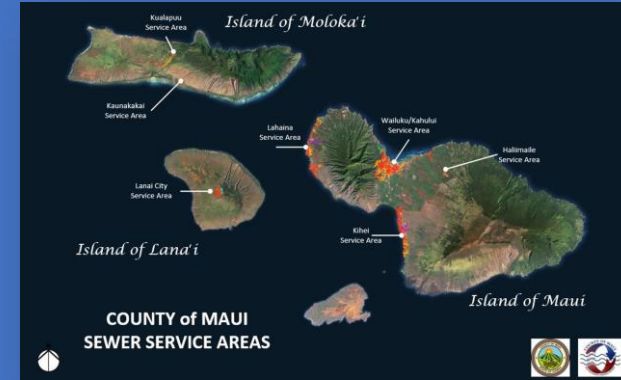
FEBRUARY 22, 2024

WASTEWATER RECLAMATION DIVISION: Provides a Reliable Wastewater Service

- 124 positions – Engineers, Chemists, Equipment Operators, Laborers, etc.
- 5 Treatment Facilities, 42 Pump Stations, 260 miles of underground pipes, Recycled Water System
- Wastewater Administration Program: Accounting Section, Design and Construction Section, Planning and Permitting Section
- Wastewater Operations Program: Collection System, Treatment Facilities, Central Maintenance, Central Laboratory, Trucking Section
- Over 46,000 Residential and 1,700 Non-residential Customers

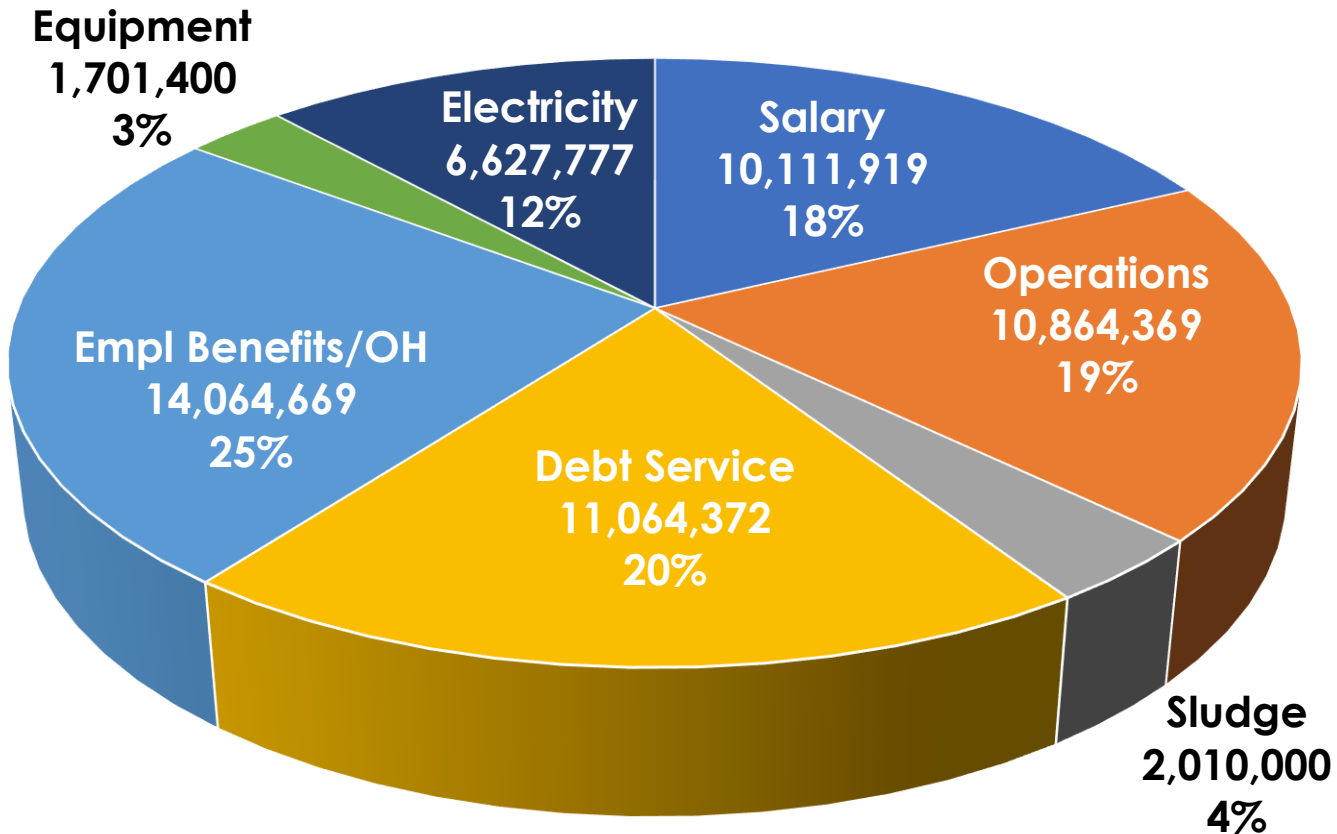


Kihei Wastewater Pump Station No. 1



Fiscal Year	DISPOSAL	REUSE
FY20	70%	30%
FY21	75%	25%
FY22	74%	26%
FY23	70%	30%

Wastewater Reclamation Division Total ABC Accounts FY2024 -\$56,444,506



Revenues:
\$36,995,767 Projected
\$35,351,638 Actual
 (Shortfall of \$2.8M due to fire)

Category	Expended to Date
Salary	51%
Employ/Benefits Admin OH	47%
Debt Service	49%
Operations	36%
Equipment	2%
Electricity	55%
Sludge	46%

Through Jan 31, 2024 58% of Time

FY2024 CAPITAL IMPROVEMENT PROGRAM

- ▶ 27 WWRD projects
\$36,000,000
- ▶ Encumbered to date
\$4,827,938
- ▶ Contracts processing
\$0
- ▶ Encumbrance Schedule
 - \$15M by April
 - \$23M by June
 - \$31M by October
 - \$36M by December



Still active from previous years:
22 CIP Construction Projects
61 CIP Design/Study Projects

SEWER RATES AND FEES: FY2023 - 3% Rate Increase FY2024 - 2% Rate Increase +\$1,268,100 Revenues

▶ Single Family Residents:

Maximum Charge

FY2023: \$78.00

FY2024: \$80.40 +\$2.40

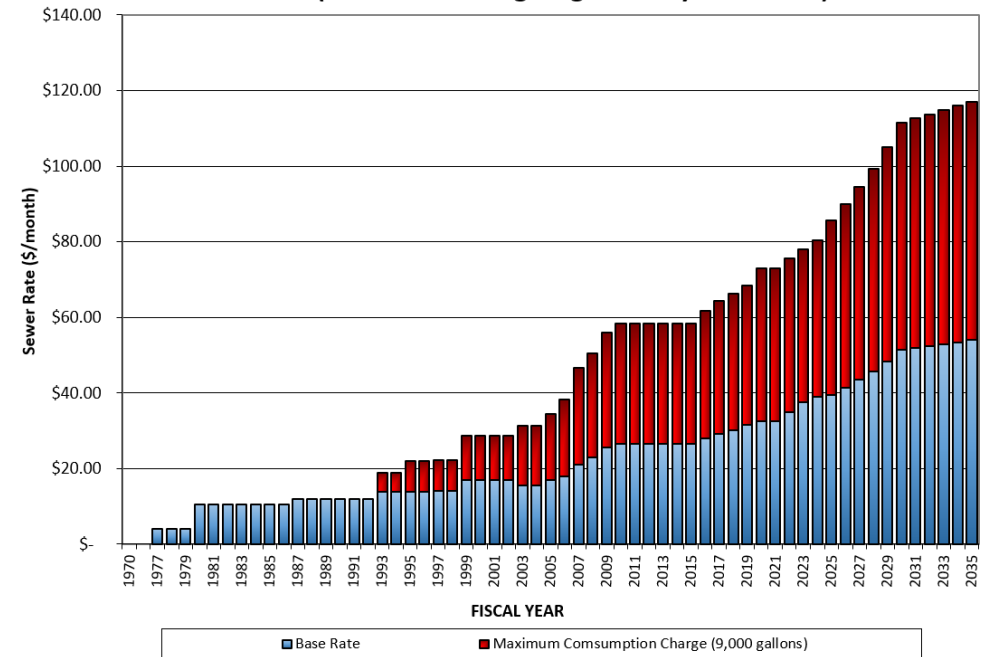
▶ Multi-Family Residents:

Maximum Charge

FY2023: \$64.50

FY2024: \$66.60 +\$2.10

**HISTORY OF MAUI SEWER RATES
(Maximum Billing Single-Family Residence)**



WILDFIRE DISASTER EFFORTS

- ▶ **Effectuated 4 Pump Stations**
“Temp fix”
 - ▶ Rebuild 2 stations
- ▶ **Compromised collection system**
Lots of I&I
 - ▶ CCTV
 - ▶ Contract repairs
- ▶ **Stabilize Plant Process**
Re-establish process
 - ▶ Work with process experts
 - ▶ Prevent non-wastewater dumps



CONTINUING CHALLENGES FACING WWRD



REDUCING ENERGY COSTS

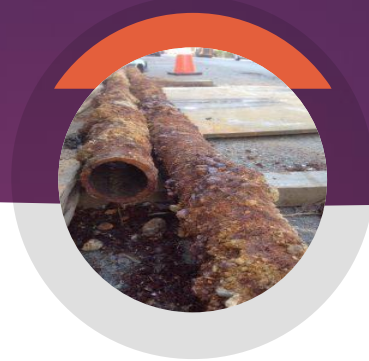
Expected greater energy usage due to additional treatment, facilities and pumping, and cost increases due to rate increases.

Old equipment replaced with higher efficiency models, reducing carbon footprint.



MANPOWER

Replacing retiring employees is problematic and time consuming. Fewer people are applying for County positions. Many applying have little to no experience.



AGING INFRASTRUCTURE AND EQUIPMENT

Everything ages and everything has a useful life.

Gravity Sewer, Manholes, Pump Stations, Force Mains, Pumps, Blowers, Generators, Reuse Lines, Meters, Tanks, Basins, UV Equipment, Filters, Buildings, Vehicles, Trucks, Maintenance Vehicles etc.

Treatment plant and infrastructure capacity issues.



STRICTER REGULATORY REQUIREMENTS

New UIC permitting requirements, NPDES permit requirements, sludge disposal issues.

Expansion of pretreatment regulation



CIP vs. SEWER RATES vs. DEBT

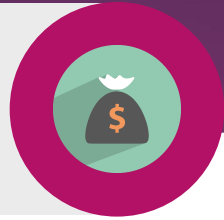
SRF Loans and GO Bonds to accomplish County goals.

SRF Loan Amounts limited, Bond Rates are increasing.

Debt is rising

THINGS THAT WILL HELP WWRD

LEGISLATION



FUNDING

- Bonds Payed by the General Fund Instead of by Sewer Customers
- Money from the General Fund to Pay for Reuse Projects.
- County Finance/Grant Section to obtain funding?

- Property Owners Need to CCTV Private Sewer Lines to VERIFY Adequate Water tight Condition, if not Repair/Replace



LEGISLATION

MAHALO

WAI Committee

From: Robert Schmidt <Robert.Schmidt@co.maui.hi.us>
Sent: Wednesday, February 21, 2024 11:36 AM
To: WAI Committee
Cc: Nadine Orikasa; Shayne Agawa; Ana L. Lillis; Jarret P. Pascual
Subject: RE: DEM's Presentation WAI Committee Feb 22 Meeting at 9AM
Attachments: 2024.02.22 WAI Budget Status.pptx

You don't often get email from robert.schmidt@co.maui.hi.us. [Learn why this is important](#)

Sorry, this time attached.

Bob

>>> Robert Schmidt 2/21/2024 11:08 AM >>>

Please see the attached DEM Powerpoint presentation.

Thank you

Bob

>>> "Jarret P. Pascual" <Jarret.Pascual@mauicounty.us> 2/21/2024 11:04 AM >>>

Mahalo Deputy Director Schmidt!

Of course, we can assist with screensharing. Please let us know when to move forward in the presentation slides.

Would it be possible to send your presentation to the WAI.Committee@mauicounty.us email as well?

Much appreciated,
Jarret Pascual

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Jarret P. Pascual

Legislative Analyst

County of Maui | Office of Council Services

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Office: (808) 270-7141 | Cell: (808) 793-9257

From: Robert Schmidt <Robert.Schmidt@co.maui.hi.us>
Sent: Wednesday, February 21, 2024 10:51 AM
To: Jarret P. Pascual <Jarret.Pascual@mauicounty.us>
Cc: Nadine Orikasa <Nadine.Orikasa@co.maui.hi.us>; Shayne Agawa <Shayne.Agawa@co.maui.hi.us>; Ana L. Lillis <Ana.Lillis@mauicounty.us>
Subject: Re: DEM's Presentation WAI Committee Feb 22 Meeting at 9AM

You don't often get email from robert.schmidt@co.maui.hi.us. [Learn why this is important](#)

Hi Jarret

Please see the attached Powerpoint presentation. Would ask that staff screenshare the presentation.

Thank you

Bob

>>> "Jarret P. Pascual" <Jarret.Pascual@mauicounty.us> 2/20/2024 2:58 PM >>>

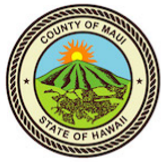
Aloha Director Agawa,

Thank you for joining WAI's February 22 meeting. As mentioned before, the WAI committee will discuss DEM's operational and budgetary review. I should have also mentioned that excluded from this discussion is the Environmental Protection and Sustainability Division, which is under the ADEPT Committee's jurisdiction. Ideally, this presentation would be around 10 minutes or less.

Will your presentation be transmitted to the WAI Committee email prior to the meeting? Please let us know if you would like staff to screenshare your presentation or if you prefer to screenshare from your device.

Mahalo,
Jarret Pascual

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Jarret P. Pascual

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