

WASTEWATER RECLAMATION DIVISION

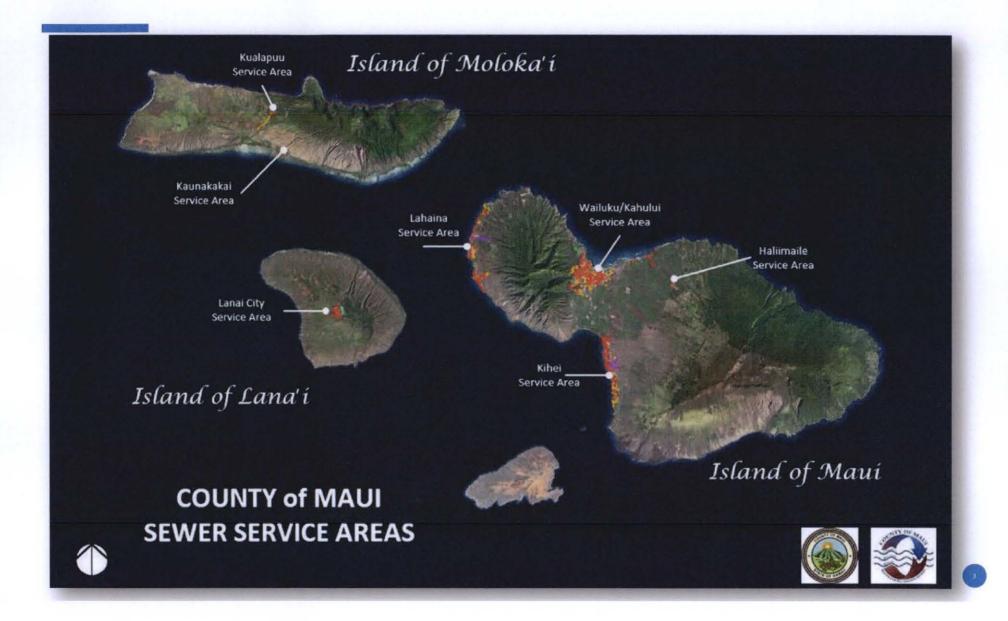
MAUI COUNTY
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

WATER, INFRASTRUCTURE, AND TRANSPORTATION COMMITTEE
MARCH 9, 2020

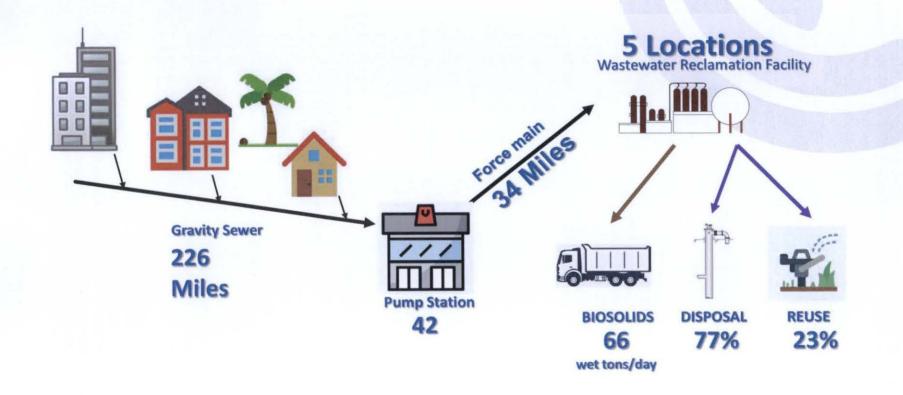
RECEIVED AT WIT MEETING ON 3/9/2020 Scott Rollins

"GLOBAL" PERFORMANCE MEASURES

- Reliability of Existing Facilities Over the Long Term at the Lowest Possible Cost (99.9978%)
- Increase Volume of Reclaimed Water
- Expand Sewer System to Non-Sewered Areas
- Improve Quality of Treated Effluent

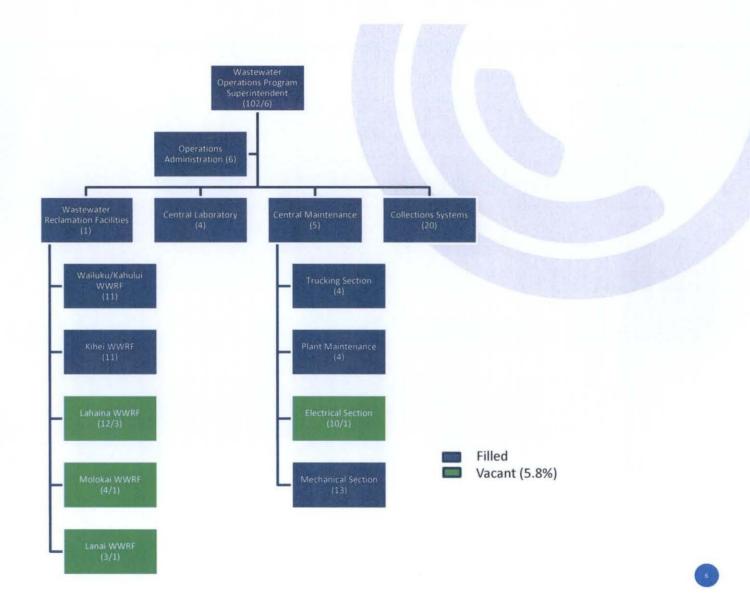


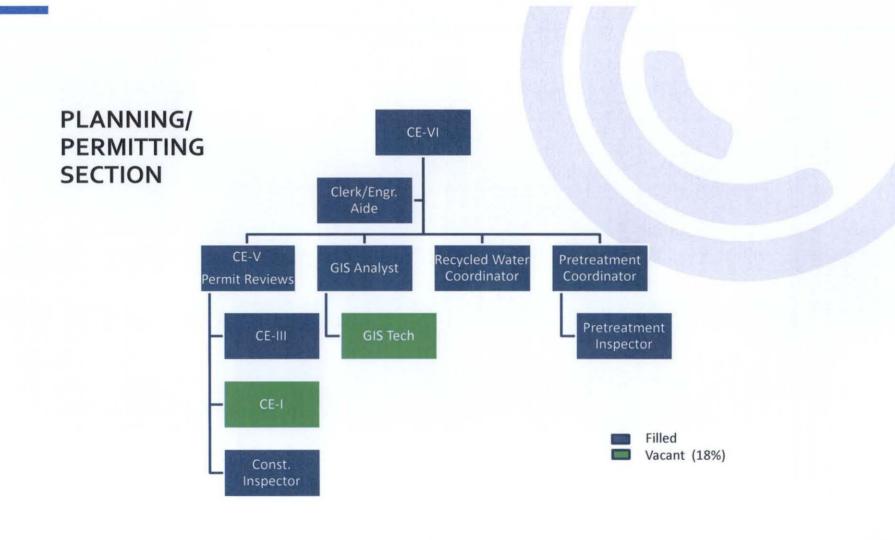
WHERE DOES MY SEWAGE GO?



DIVISION STRUCTURE Chief Office Staff (Secretary/Accounting Planning/Permitting (11/2) Design/Construction Operations (5/2) Filled Vacancies (7.4%) (Positions/Vacancies)

OPERATIONS





DESIGN / CONSTRUCTION SECTION CE-VI CIP Coordinator Recycled CE-II CE-IV CE-I Water Coordinator Filled Vacant (40%)

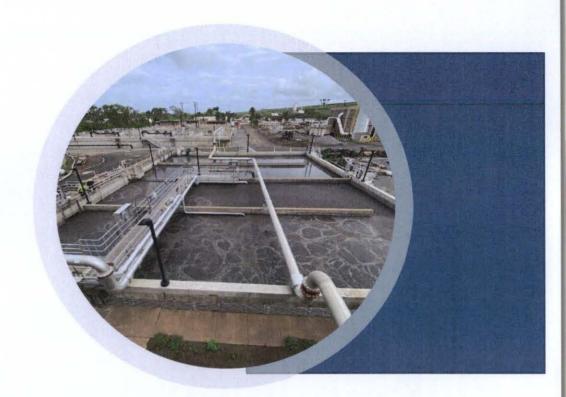
FY2020 CAPITAL IMPROVEMENT PROGRAM

- •18 WWRD projects
- •\$30,550,000
- 2 Added Council projects
- •\$8,500,000



CIP PROJECT TYPES

- Does it Work / Is it Safe ?
 - · 0 projects
- Is it Reliable (end of useful life)?
 - 10 projects budgeted \$10,250,000
- Expansion of Service
 - 2 projects budgeted \$2,900,000
- Recycled Water Projects
 - 6 projects budgeted \$23,550,000
- Increase Quality of Treatment
 - 1 project budgeted \$1,350,000
- Other
 - 1 project budgeted \$1,000,000



Still active from previous years: 23 CIP construction projects 35 CIP Design projects

IS IT RELIABLE (END OF USEFUL LIFE)?



DESIGN

Kihei No. 3 Force Main
Kihei No. 9 WWPS Upgrade
Napili WWPS No. 3 Modifications
Lahaina Emergency Generator
Replacement
Countywide EPA Compliance
Projects





CONSTRUCTION

Kuau #3 Force Main Replacement Kuau #4 Force Main Replacement Wailuku-Kahului EPA Compliance Sewer Rehabilitation

Countywide EPA Compliance WWRF Renovation Projects

Countywide Wastewater System Modifications

EXPANSION OF SERVICES



DESIGN

Wailuku-Kahului WWRF Facility Plan (Capacity Expansion)







CONSTRUCTION

Lower Main Street Sewer Upgrade

RECYCLED WATER PROJECTS



DESIGN

Lahaina WWRF R-1 Process Expansion

Wailuku-Kahului Recycled Water Pump Station

Wailuku-Kahului Recycled Water Force Main

Kihei-Makena Sewer Expansion





CONSTRUCTION

West Maui Recycled Water Expansion

Kihei Effluent Pump Station Upgrade





INCREASE TREATMENT QUALITY / OTHER



DESIGN

Wailuku-Kahului SAT Basins

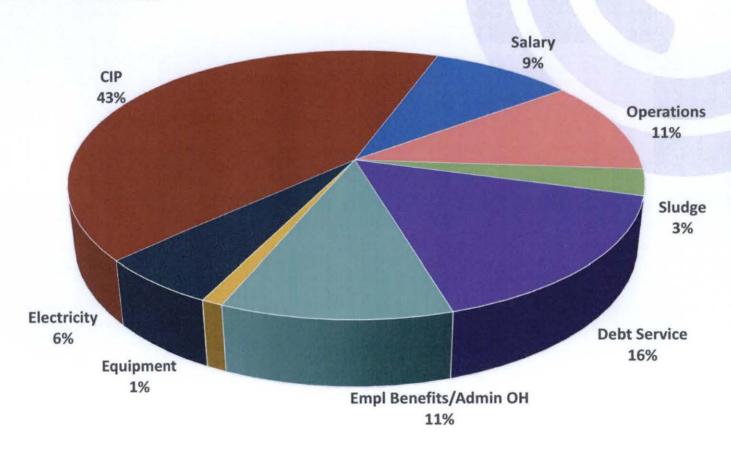




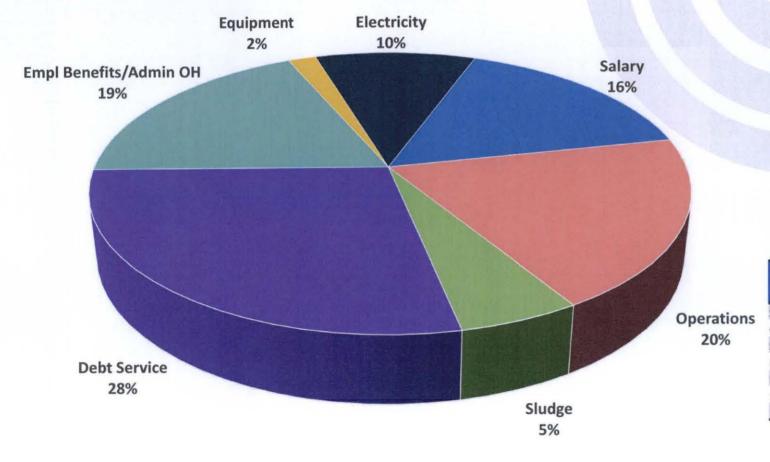
OTHER

Upcountry Sewer System Upgrades

WASTEWATER RECLAMATION DIVISION TOTAL FY2020 -\$92,193,361



WASTEWATER RECLAMATION DIVISION TOTAL ABC ACCOUNTS FY2020 -\$53,143,361



Category	Expended to Date
Salary	53%
Operations	49%
Sludge	49%
Debt Service	52%
Empl/Benefits Admin	57%
Equipment	44%
Electricity	57%

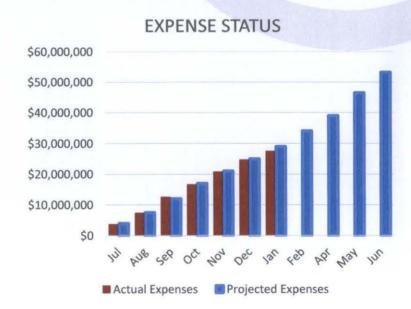
Through Jan 31, 2020 58% of Time

BUDGET STATUS THRU JANUARY 31, 2020

Projected Revenue \$58,395,180 Billed to Date \$35,433,034 (60%) Time Passed - 7 months (58%)

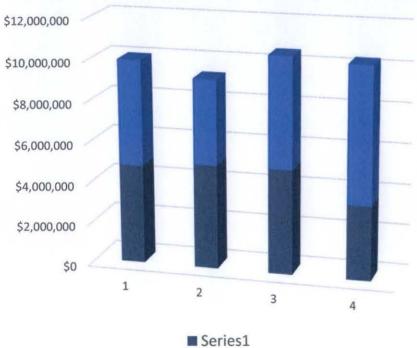


Projected Expenses \$53,143,361 Expended to Date \$27,946,739 (53%) Time Passed - 7 months (58%)

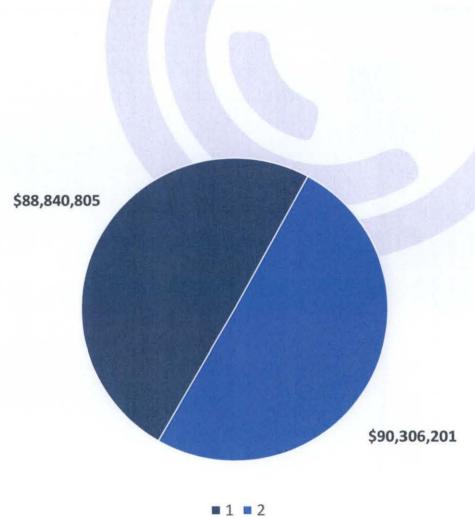


WWRD DEBT SERVICE

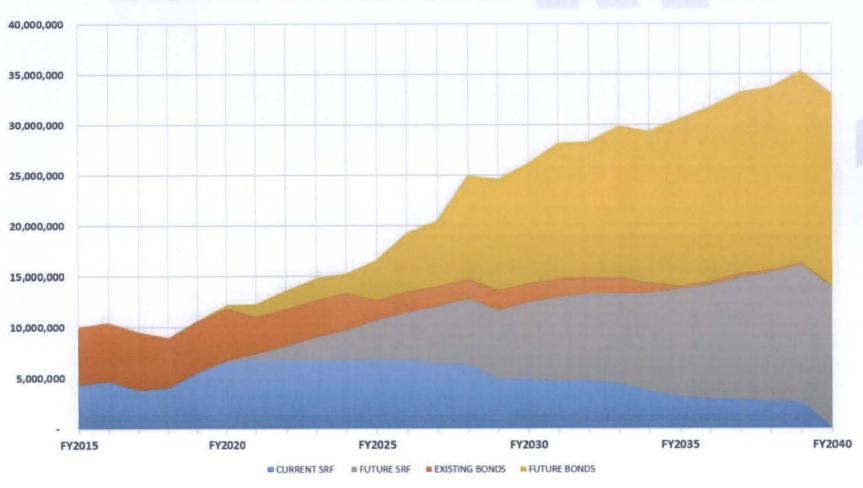
ANNUAL DEBT SERVICE





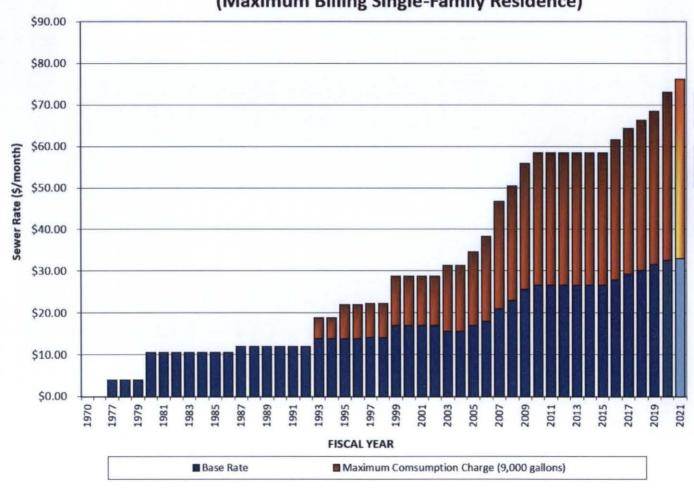


EXISTING & PROPOSED DEBT SERVICE



SEWER RATES

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



FUTURE CHALLENGES FACING WWRD



REDUCING ENERGY COSTS

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

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



CIPVS. SEWER RATES

Balancing the amount of money spent on CIP projects with reasonable increases in sewer rates and debt allocation.



AGING INFRASTRUCTURE AND EQUIPMENT

It keeps getting older 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.



STRICTER REGULATORY REQUIREMENTS

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



INCREASING DEBT

SRF Loans and GO Bonds to accomplish County goals.

SRF Loan Amounts limited, Bond Rates are increasing.

THINGS THAT WILL HELP WWRD

FUNDING



- Bonds payed by the General Fund instead of by sewer customers
- Money from the General Fund to pay for projects

- Property owners need to CCTV private sewer lines to verify adequate condition, if not repair/replace
- Banning flushable wipes





THANK YOU AND QUESTIONS



SCOTT ROLLINS ACTING DIVISION CHIEF

