

POTENTIAL MAUI COUNTY REUSE PROJECTS

Project Name and Potential Water Users	Estimated R-1 Water Demand (GPD)	Potable Water Displaced (gpd)	Gallons of Water Used/Day (gpd)	Estimated Construction Cost (\$)	Estimated % Increase in Reuse	Estimated Cost per 1% Reuse Increase	Capital Cost/ Gallon Reuse/day	Rate Increase Required (1)
PROJECT 1 - KIHEI Developments in progress		599,500	599,500	\$ 2,585,000	4.8%	\$ 543,303	\$ 4.31	0.5% or about \$0.61 per bill
South Maui Community Park	196,500							
Maui Highlands - Nu`u A`ina	12,000							
Maui R & T Park	261,000							
Kihei Multi-Purpose Center	10,000							
Hokulani Golf Villas - Phases 2 and 3	100,000							
Kihei Roundabout	6,000							
Kihei Bikeway	14,000							
PROJECT 2 - KIHEI Planned Projects		16,500	16,500	\$ 275,000	0.1%	\$ 2,100,000	\$ 16.67	0.1% or about \$0.06 per bill
South Maui Police Station	16,500							
PROJECT 3 - KIHEI Waipulani Street Line Extension		200,000	247,000	\$ 1,215,000	2.0%	\$ 619,798	\$ 4.92	0.2% or about \$0.29 per bill
Maui Sunset*	30,000							
Waipulani Condominium	6,000							
Waipulani Park	50,000							
Maui Schooner	30,000							
Luanakai	35,000							
Kauhale Makai*	17,000							
Paradise Gardens	50,000							
Koa Resort	21,000							
Koa Lagoon	8,000							
PROJECT 4 - KIHEI Liloa Drive / Halekuai St.		38,000	38,000	\$ 1,257,000	0.3%	\$ 4,167,947	\$ 33.08	0.3% or about \$0.29 per bill
Maui Gardens Condominium	19,000							
Saint Theresa's Church	19,000							
PROJECT 5 - KIHEI Liloa Drive / Kihei High School		245,000	245,000	\$ 1,135,350	1.9%	\$ 583,894	\$ 4.63	0.2% or about \$0.27 per bill
Kihei High School	230,000							
Kamali'i Alayna Subdivision	15,000							
<i>Project 5 is dependent on school construction schedule</i>								

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PROJECT 6 - KIHEI East Welakahou / Future Collector Rd.		120,165	120,165	\$ 2,411,450	1.0%	\$ 2,528,546	\$ 20.07	0.5% or about \$0.57 per bill
Kalama Heights	24,000							
Maui Vista	10,000							
Maui Coast Hotel	6,315							
World Mark	10,000							
Pacific Shores	2,700							
Ke Ali'i Ocean Villas	4,000							
Kamali'i Elementary School	63,150							
<i>Project 6 requires right of way acquisition and construction of the proposed north south collector road</i>								
PROJECT 7 - KIHEI North Kihei / Ranch Land		499,000	2,899,000	\$ 9,800,000	23.0%	\$ 425,940	\$ 3.38	2.0% or about \$2.30 per bill
Monsanto	499,000							
Haleakala Ranch*	1,280,000	<++ exceeds available						
Ka Ono Ulu Ranch*	1,120,000	<++ exceeds available						
<i>Different alignments choose either Project 7 or Project 8</i>								
PROJECT 8 - KIHEI North Kihei / North South Collector Rd.		553,000	553,000	\$ 3,800,000	4.4%	\$ 865,823	\$ 6.87	0.8% or about \$0.89 per bill
Monsanto	499,000							
Maui Lu Hotel	48,000							
Kenolio Park	6,000							
PROJECT 9 - KIHEI Piilani Hwy. to Wailea Resort		1,196,870	2,196,870	\$ 21,137,500	17.4%	\$ 1,212,327	\$ 9.62	4.2% or about \$4.96 per bill
3400 Wailea Alanui	9,266							
Ulua Beach Park	14,098							
Four Seasons Resort	38,656							
Grand Wailea	192,558							
Kai Malu Wailea	153,869							
Kea Lani Resort	156,098							
Keauhou Homeowners Assoc.	11,246							
Maluhia at Wailea	24,393							
Mariott Hotel	69,016							
One Palauea Bay Comm. Assoc.	30,885							
The Shops at Wailea	44,754							
Wailea Comm. Assoc	181,246							
Wailea Ekolu Village	47,902							
Wailea Elua Village	49,736							
Wailea Fairways	54,230							
Wailea Golf Estates	90,492							
Wailea Hotel & Beach Resort	18,786							
Wailea Town Center	9,639							
Wailea Blue Golf Course*	1,000,000							
<i>Project 9 is probably only feasible if more wastewater is produced by future project development</i>								

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PROJECT 10 - LAHAINA Pressurized System Expansion		364,300	407,300	\$ 8,780,000	3.2%	\$ 2,716,131	\$ 21.56	1.8%
Maui Kaanapali Villas	1,500							or about
Royal Lahaina Resort	56,000							\$2.06
International Colony Club	5,200							per bill
Outrigger Maui Eldorado	16,100							
Kaanapali Ocean Resort (North Beach Lot 1)	45,000							
Kaanapali Ocean Resort (North Beach Lot 2)	35,000							
Starwood (North Beach Lot 3)	43,000							
Honua Kai (North Beach Lot 4)	185,000							
Kaanapali Royal	19,200							
County of Maui, Parks Dept. Shoreline Access	1,300							
<i>Project 10 required before other Lahaina projects</i>								
PROJECT 11 - LAHAINA Kaanapali Parkway Expansion		340,000	640,000	\$ 6,560,000	5.1%	\$ 1,291,500	\$ 10.25	1.3%
Hyatt	93,000							or about
Kaanapali Ali'i	60,000							\$1.54
Kaanapali Beach Hotel	36,000							per bill
Maui Marriott	36,000							
Westin Maui	60,000							
Whalers Village	5,000							
Whaler	20,000							
Sheraton	30,000							
Expand golf course Irrigation (final 9 holes)	300,000							
PROJECT 12 - LAHAINA Lower Hoonapiilani Road Ext.		94,000	94,000	\$ 2,180,000	0.7%	\$ 2,922,128	\$ 23.19	0.4%
Papakea Resort	30,000							or about
Resort Quest Kaanapali Shores	20,000							\$0.51
Kaanapali Beach Vacation Resort	25,000							per bill
Maui Kai	5,000							
Mahana	10,000							
Honokowai Shopping Center	4,000							
PROJECT 13 - LAHAINA Upper Kaanapali Condominium Ext.		163,000	163,000	\$ 10,690,000	1.3%	\$ 8,263,436	\$ 65.58	2.1%
Kaanapali Plantation	63,000							or about
Kaanapali Hillside	50,000							\$2.51
The Vintage	50,000							per bill

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PROJECT 14 - KAHULUI Kahumanu Avenue Expansion		176,000	2,003,560	\$ 24,052,000	15.9%	\$ 1,512,584	\$ 12.00	4.8% or about \$5.64 per bill
Ho`aloha Park	12,630							
First Hawaiian Bank	4,000							
Bank of Hawaii	4,000							
Maui Seaside Hotel	15,800							
Maui Beach Hotel	19,850							
Maui UH College	94,725							
Boys & Girls Club of Maui	32,500							
Maui Botanical Gardens	18,945							
War Memorial Complex	63,150							
Ke`Opuhane Park	360,000							
Baldwin High School	20,000							
Maui Lani Golf Course	1,100,000							
Maui Lani Park & Common Areas	170,500							
Kaahumanu Avenue Median	25,260							
Kaahumanu Center	44,200							
Kaiser Wailuku Clinic	6,000							
Wailuku Police Station	6,000							
Kaiser Maui Lani Clinic	6,000							
PROJECT 15 - KAHULUI Airport Expansion		224,900	224,900	\$ 3,972,000	1.8%	\$ 2,225,309	\$ 17.66	0.8% or about \$0.95 per bill
Kanaha Beach Park	157,900							
Kahului Airport & Access Road	67,000							
PROJECT 16 - KAHULUI HC&S Expansion		0	2,000,000	\$ 1,350,000	15.9%	\$ 85,050	\$ 0.68	0.3% or about \$0.32 per bill
HC&S Seed Cane	2,000,000							
<i>Estimates pending further information and discussions with HC&S</i>								

- NOTES:
- a. Costs are for CIP construction only, no operational/maintenance/finance costs are included *non-potable
 - b. Operational/Maintenance costs will most likely double the rate increase required by construction
 - c. Gallons of potable water displaced are peak values
 - d. The current peak R-1 demand in Kihei is approximately 1.75 mgd
 - e. The current R-1 supply in Kihei is approximately 3.4 mgd
 - f. Project 10 is required before 11, 12, or 13
 - g. Project 14 is required before 16
 - h. Individual property connections will require system modifications and testing
 - i. Estimated rate increase required for life of financing (typ. 20 years)
 - j. Some projected users dependent on development occurring
 - k. All costs assumed incurred by WWRD and repaid via sewer fees

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