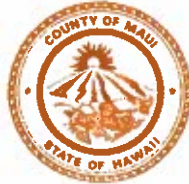


RICHARD T. BISSEN, JR.
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DEPARTMENT OF WATER SUPPLY
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VIA EMAIL
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Dawn N. S. Chang, Chair
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
1151 Punchbowl Street, Board Room 132
Honolulu, Hawaii 96809

SUBJECT:

Well Field Groundwater Use Permit Application (GWUPA) for Kanaha 1 575 (Well #6-5339-003) located on Tax Map Key Parcel (2) 4-6-018:007 and Kanaha 2 576 (Well #6-5339-004) located on Tax Map Key Parcel (2) 4-6-017:012 in Kanaha Valley, Lahaina, Maui

Dear Chair Chang,

The County of Maui Department of Water Supply (MDWS) hereby submits a well field GWUPA for the above-stated wells located in the Launiupoko Aquifer System. . Our existing use application includes the GWUPA Form with appendices and supporting documents. Other pertinent information mentioned in our GWUPA Form includes the following supplemental information:

6. Total Quantity of Use Requested

The Kanaha wells 1 & 2, the Waipuka wells 1 & 2 and the Lahaina Water Treatment Facility (LWTF) all service the Lahaina sub-system. MDWS operates the Kanaha well field to meet system demand while maintaining the integrity, water quality, and chloride levels of each individual well. The two Kanaha well pumps also provide redundancy to each other. Therefore, individual throttling at this well field is essential to balance pumping, maintain acceptable and stable chloride levels, and to maintain reliable water supply. The amount requested is the combined 12-month

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average pumpage for the two wells as of the date of designation. Moreover, our requested amount of 258,789 gpd from the Kanaha well field to meet consumer demand, since the West Maui designation, should maintain acceptable and stable chloride levels at both wells. The volume pumped is higher than the billed consumption as summarized under Item 11. Table 1, box M, to account for water treatment, including distribution system water losses mentioned in the MDWS water audit validated by the Commission on Water Resources Management (CWRM). It should also be pointed out that the water audit only considers treated water, is not exactly within the same time period as the designation time period, unavailable data at the time of data collection, and does not reflect post metering and billing adjustments that occurs after validation.

11. Table 1 Land Use Consistency/Efficiency of Use

Please refer to Appendix B. Table 1 includes the system areas that are supplied by this source under normal operations, as of the date of designation. The MDWS applies for water use under the category MUNICIPAL. However, we identify premise types that compare to the Purpose/Water Use Categories in the GWUPA Form instructions. Please see the table below illustrating MDWS Lahaina service area (Water Use Zone), premise type and total average consumption, which includes water contributions from LWTF.

Premise Type	Average Consumption (GPD)
County Government	53,992
Commercial	321,563
County Park	32,069
High Rise Multifamily	36,598
Hotel	8,955
Hydrant Temporary	619
Industrial	226,103
Low Rise Multifamily	445,889
Church	23,924
Single Family	999,308
State Government	130,158
State School	7,203
Unknown	32,178
TOTAL:	2,318,559

Table 1 in Appendix B notes the Premise Type in Field "A" Purpose/Water Use Category. None of the services are located in the Conservation District but possibly within the Special Management Area (SMA). MDWS

does not verify whether individual end uses require a SMA permit in order to issue a water meter. CDUP and SMA fields are noted as N/A.

Over 85% of MDWS services on this system consist of single family and multi-family customers. In terms of water use efficiency, the average billed water use per service of 495 gpd is significantly lower than the system standard allocation of 600 gpd per unit.

The MDWS conservation program includes demand side and supply side measures for Maui and Molokai. Please refer to Appendix E. Insufficient supply forced MDWS to declare a Stage 1 water shortage for the entire system on June 30, 2022, restricting water for essential use only. Immediately following the CWRM adoption of the instream flow standards (IIFS) for Kanaha Stream on November 20, 2018, MDWS requested design funding for development of additional groundwater sources in the Launiupoko and Honolua Aquifers. Groundwater use permit applications for new use will be sought for two new well fields in the Launiupoko Aquifer System, pending completion of the draft Environmental Assessment (EA).

20. Chapter 343

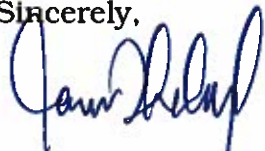
Chapter 343, the statute requiring an EA or Environmental Impact Statements (EIS) was passed in 1974. For Kanaha Well 1, drilled in 1977 and Kanaha Well 2, drilled in 1974, no EA or EIS could be located in MDWS's records nor on the Federal Register or the State's Office of Environmental Quality Control websites. It is also likely that the drilling and construction project lifecycle began before the EA requirement of 1974, in which an EA would have taken at least a year or two to complete.

21. Table 4, 12 Months Average Calculation as of the Date of Designation

Table 4 on the GWUPA Form for 12 months pumpage calculation contains eight rows. Here you will find the daily pumpage at the Kanaha well field, as well as from each individual well pump in Appendix G.

We thank you for your consideration of this request.

Sincerely,



JOHN STUFFLEBEAN, P.E.

Director of Water Supply

APPENDICES

A: Item 8. Map showing location of water use

B: Item 11. Table 1

C: Item 15. Ka Pa`akai Analysis

D: Item 16. Referenced Department of Hawaiian Homelands Plans and Documents

E. Item 18. Maui County Department of Water Supply Conservation Plan

F. Level-1 validated AWWA water loss audit

G. Item 21. Table 4 12-Month Average Calculation As of the Date of Designation for Well Field and Average Daily Pumpage for Each Pump of Well Field

H. Property Tax Map with location of use and photograph of the area of use

I: Photo of well sources, flow meters and end use area.