June 24, 1981

Dr. Richard F. Abe

June 24, 1981

Dear Dr. Abe:

Subject: Your Letter of June 3, 1981
On Testing of Kahuku Seafood Plantation Wells

Thank you for the copies of your report, "Well Drilling and Testing at Kahuku Seafood Plantation, October 1980 to January 1981." The report generally confirms our hydrogeologic evaluation of the caprock aquifer of the Kahuku area. We believe, however, that salinity projections based on short-term tests from individual wells rather than from the total effect of 40+ mgd are inconclusive.

The results of the report do not alter the conditions designated in the well permits issued to Kahuku Seafood Plantation. The conditions were formulated to insure a maximum input of sea water and a minimum use of fresh water from the coraline aquifer. We believe the five-year period specified in Condition No. 2 of the Well Permit will allow a realistic appraisal of the effects of long-term operation of these wells on the coraline aquifer.

The mildly brackish caprock water fed by discharge of basal water to the springs/return irrigation water and the infiltration of rainfall has been historically an important source of agricultural water. Its continued use for agricultural purposes and/or for future domestic consumption depends upon conservation and protection. The specified five-year period will assure an appropriate appraisal of the operation on this resource.
Mr. Kazu Hayashida  
Manager and Chief Engineer  
Board of Water Supply  
City and County of Honolulu

Dear Mr. Hayashida:

Results of Well Drilling and Testing  
Kahuku Seafood Plantation

We are pleased to submit two copies of "Well Drilling and Testing at Kahuku Seafood Plantation, October 1980 to January 1981." The report presents significant new information on the coralline aquifer which is relevant to your concern for the basalt (confined) aquifer which exists below the coralline formation. Allow me to point out the most important new results.

First, profiles of the vertical distribution of salinity within the coralline aquifer (on Figure 2, p. 4 in the report) show that fresher water exists at the top and more saline water occurs at depth. Further, the curve of increasing salinity has the sigmoid-shape characteristic of a freshwater lens in hydraulic continuity with the adjacent ocean. A sigmoid-shaped salinity curve in the coralline formation was also measured at the nearby Marine Culture Enterprises well and at the IKKO Company well some distance inland. These curves show that the source of the freshwater component in the coralline aquifer is at the surface. This source is comprised of rainfall recharge, surface runoff for mauka areas, and flow from springs located along the inland margin of the coralline formation. Upward leakage from the basalt aquifer, which would result in a relatively uniform salinity profile, was not evident. It is apparent that the weathered surface of the basalt, compacted and rendered impermeable by the weight of the overlying coral, prevented such leakage in the vicinity of the three wells cited above.

Second, a significant rise in the level of groundwater in the coralline aquifer in response to rainfall recharge was measured (see p. 25 of the report). This response underscores the importance of rainfall as a source of the freshwater component in the coralline formation. It is an oversight that systematic salinity measurements of water pumped from the existing wells has not been done. We know that the salinity has fluctuated between 19 and 25 parts per thousand ("ppt"). We suspect that the variation of local recharge is responsible. In the future, the monitoring program that Kahuku Seafood Plantation plans to conduct will be able to demonstrate this relationship. (Incidentally, I erroneously stated that well water salinity was 28 ppt in my July 23rd and September 3, 1980 letters to you.)


Brief Manager when he returns.  

June 3, 1981  
81AC-868
Third, based on a computer-aided analysis, the report presents the effect that maximum pumping and injection rates are likely to have on the coralline aquifer (refer to pp. 25 to 29). Expectedly, the surface of the aquifer is greatly changed in the vicinity of the wells. Large amounts of water will be recycled from injection to pumping wells and large amounts will be both drawn from and moved toward the adjacent ocean (see Figure 15 on p. 29 in particular). Importantly, these substantial charges in groundwater gradients and movement will be local in nature. They will not extend to the aquifer's inland margin where Punamano, Punahoolapa, and other springs are located and thus will not influence the discharge rate of these springs.

This information establishes that operation of the new wells will not draw water from the underlying basalt aquifer. In view of this, we ask for a revision of the conditional approval of the wells described in your letter of November 6, 1980 to Mr. O.K. Stender of Campbell Estate. Your Condition 2 states that if salinity of any well is less than 26.5 ppt (more than 25 percent freshwater), that well will be sealed and all five production wells moved seaward. Water pumped from the existing wells in their five years of operation has never been that saline. Water from the new wells is not that saline either; it averages 24.5 ppt (Table 6, p. 24 of the report). Therefore, moving the new wells seaward to be in line with the existing wells and an equivalent distance from the shoreline will not appreciably change the salinity or have any different effect on the basalt aquifer at depth. On the other hand, it would add appreciably to the capital and operating costs of the oyster farm.

It is the intention of Kahuku Seafood Plantation to monitor pumping volume, salinity, temperature, and other parameters which will portray the effect of the farm's operation. Copies of this data will be regularly submitted to you. We feel that this will satisfy your valid concerns for the integrity of the basalt aquifer and hope you concur. We would be happy to discuss any aspect of this at your convenience.

Respectfully,

Richard S. Abe

RSA:al

cc: Taylor A. Pryor
Well Drilling and Testing at
Kahuku Seafood Plantation,
October 1980 to January 1981

by:
Tom Nance
Belt, Collins & Associates

April 1981

Belt, Collins & Associates

Engineers · Planners · Landscape Architects · Architects
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INTRODUCTION

From November 1980 through January 1981, nine wells were drilled, cased, and tested as part of the substantial expansion of Kahuku Seafood Plantation ("KSP") facilities. The primary purpose of this report is to summarize information pertaining to wells and groundwater developed during this period. This includes drilling logs, performance of the wells during pumping and injection tests, chemistry of the water pumped, levels of the groundwater, and interpretations of groundwater flow.

There are two additional purposes in preparing this report. One is to assemble and organize data on the five previously existing wells. This had not been done before and the information was in danger of being irretrievably lost. The second is to provide information which will aid the Honolulu Board of Water Supply ("BWS") to judge the effect that KSP's proposed pumpage is likely to have on the region's groundwater resources.

REGIONAL HYDROLOGY

The KSP facility is located near the shoreline at Kahuku Point on Oahu (see Figure 1). This portion of the coastal plain, for a distance of almost one mile inland, is formed by materials of marine origin. These include loose calcareous sands and gravels, soft yellow and hard white coral, and limestone. Depth of this material is on the order of 135 to 200 feet in the vicinity of KSP. Underlying this marine material is the weathered surface of the basement volcanic formation. Logs of drilled wells indicate that the weathered surface is comprised of alternating layers of mud, gravel, and hard rock and has a total thickness of 70 to 100 feet (Stearns and Vaksvik, 1938:195). Below this weathered layer are fresh volcanic rocks of the Koolau volcano.

Logs of wells in the region show that the bottom of the marine formation conforms to the ridge and valley topography of the underlying volcanics and that it pinches out inland forming a wedge shape in cross section. At its inland margin near Punahoolapa and Punamano springs, the marine material interfingers with terrestrial alluvium. Still further inland across Kamehameha Highway, there are several prominent raised reefs. More detailed descriptions of the region's geology can be found in Stearns and Vaksvik (1935) and Takasaki and Valenciano (1969).

The geologic structure gives rise to two distinct aquifers. The uppermost one lies within the surficial marine formation, has a phreatic water surface standing about one foot above mean sea level, and contains saline to brackish water. The underlying aquifer is contained within the fresh volcanic rocks at depth. It is a confined water body, has a piezometric head 10 to 13 feet above mean sea level, and contains fresh water of potable quality except near the shoreline.

Separation of the two water bodies is accomplished by the layers of mud and weathered rock intervening between the marine foundation and fresh volcanics. The exact nature of this separation is significant to the interpretation of the effect KSP wells will have. If the intervening formation is a poorly permeable aquiclude, then it would allow a generalized upward leakage from the underlying confined aquifer into the overlying phreatic
aquifer. In this case, substantial pumpage from the overlying water body could be expected to locally increase the rate of upward leakage into it. On the other hand, if the intervening mud and weathered rock formation is generally impermeable except at discrete points, then upward leakage would be confined to these points. Substantial pumpage of the overlying aquifer, particularly if distant from any discrete leakage point, would have little effect on the upward leakage rate.

Evidence indicates that, at least in the vicinity of KSP, generalized upward leakage through the weathered volcanic surface into the marine formation aquifer is not occurring. This statement is based on the distribution of salinity with depth in the marine formation. In-place salinity profiling during well drilling has been done twice, first for the Marine Culture Enterprises well adjacent to the KSP facility in July 1980 (Popkin 1980) and then for KSP's Production No. 4 well in November 1980. In both cases, measured salinity was 6 to 7 parts per thousand ("ppt") in the upper part of the formation and increased to 20 to 22 ppt in the lower part of the formation. Resulting salinity profiles are illustrated on Figure 2.

The salinity distributions described above and shown on Figure 2 were developed from samples taken every five feet during drilling, each sample taken from the bottom of the drill hole at that time. Both wells profiled were drilled by cable tool. It causes considerable mixing of water within the well column during drilling which resulted in samples being a composite of this mixing. Fresher water at the top, on being mixed into the more saline water lower in the formation, makes the composite fresher than would be an unmixed sample from depth. In other words, the actual increase of salinity with depth is greater than shown on Figure 2.

The fact that water in the marine formation is fresher on top and more saline at depth shows that the source of fresh water is not a generalized upward leakage from below. Rather, the source is surficial. It consists of recharge from local rainfall, mountain runoff, and appreciable spring flow from Punahoolapa, Punamano, and other discrete points along the inland margin of the marine formation. In a following section of the report, an indication of the aquifer's response to rainfall recharge is given.

LOCATIONS, DIMENSIONS, AND DRILLER'S LOGS OF THE KSP WELLS

Installation of nine new wells by Roscoe Moss Company from October 1980 to January 1981 has brought the total number of KSP wells to 14. Seven of these are or will soon be outfitted with line shaft turbine pumps to supply the feedwater requirements of oyster production; an eighth will serve as a standby production well; and six wells, all located within the ten-acre purge pond, will dispose expended oyster feedwater by gravity injection. Locations of all these wells are shown on Figure 3. Their various depths and casing configurations are summarized on Table 1.

All of the wells, new and old, gravity injection and feedwater production, have a 24-inch (minimum) diameter drill hole and 20-inch diameter casing. The nine new wells have a similar design. It features 100 feet total depth; solid casing of 5/16-inch wall thickness in the uppermost 20 feet; Roscoe Moss "Ful Flo" well screen with 3/16-inch openings and 99.6 square
FIGURE 2. SALINITY IN THE CORAL AND LIMESTONE AQUIFER INCREASES WITH DEPTH. THE TWO SALINITY PROFILES SHOWN ABOVE ARE BASED ON SAMPLES TAKEN DURING DRILLING AND ANALYZED BY REFRACTOMETER. THE MARINE CULTURE ENTERPRISES WELL IS 500 FT. FROM THE SHORELINE; KGP PRODUCTION NO. 4 WELL IS 1300 FT. IN FROM THE SHORELINE. FIGURE 3 SHOWS THEIR LOCATIONS.
Table 1. Summary of Wells, Kahuku Seafood Plantation, January 1981

<table>
<thead>
<tr>
<th>Well Type</th>
<th>Well Name</th>
<th>Date of Installation</th>
<th>Dimensions</th>
<th>Casing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Depth (feet)</td>
<td>Size of Drill Hole (inches)</td>
</tr>
<tr>
<td>Pumping</td>
<td>&quot;B&quot;</td>
<td>April 1976</td>
<td>60</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>&quot;E&quot;</td>
<td>February 1977</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Production No. 1</td>
<td>December 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Production No. 2</td>
<td>November 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Production No. 3</td>
<td>November 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Production No. 4</td>
<td>November 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Production No. 5</td>
<td>October 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td>Injection</td>
<td>Makai Injection Well</td>
<td>prior to April 1976</td>
<td>57*</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Mauka Injection Well</td>
<td>June 1977</td>
<td>71*</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Injection No. 1</td>
<td>December 1980</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Injection No. 2</td>
<td>December 1980</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Injection No. 3</td>
<td>January 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Injection No. 4</td>
<td>January 1981</td>
<td>100</td>
<td>24</td>
</tr>
<tr>
<td>Standby</td>
<td>&quot;C&quot;</td>
<td>August 1976</td>
<td>80</td>
<td>24</td>
</tr>
</tbody>
</table>

*Existing injection wells were sounded by Belt, Collins & Associates in January 1981. Original depths were 80 feet for the Makai Injection Well and 77 feet for the Mauka Injection Well.
WELL A (4258-07)

WELL B (4258-08)

PURGE POND

MUKA INJECTION WELL

INJECTION #1

INJECTION #2

INJECTION #3

WELL C (4258-06)

LEGEND:

SYMBOL | WELL DESCRIPTION
-------|---------------------
1 | ORIGINAL PRODUCTION WELL
2 | ORIGINAL INJECTION WELL
3 | NEW PRODUCTION WELL
4 | NEW INJECTION WELL

SCALE IN FEET

APPROXIMATE SHORELINE

KAHUKU SEAFOOD PLANTATION
LOCATION AND NAMES OF WELLS

BELT, COLLINS & ASSOCIATES JAN '81

FIGURE 3
inches open area per linear foot of screen for the lower 80 feet; gravel pack in the annular space around the well screen; and grout in the annular space around the solid casing.

The five previously existing wells have various casing configurations, each described in Table 1. Of particular note is that both of the injection wells are open hole without well screen below 15 feet of solid casing. Each was originally drilled to the depth at which caving of the hole prevented further progress. However, their current depths reflect some filling during their approximately four years of use since. The Makai Injection Well is now 57 feet deep, a loss of 23 feet from its original depth. The Mauka Injection Well has lost 6 feet of its original 77 feet depth. The difference in loss reflects relative use. Both wells have similar funnel inlets, but the Makai Well's funnel lip is 0.72 feet lower than the Mauka Well. Because of this, the Makai Well has often been the only one injecting water.

Driller's logs of the nine new wells, five for feedwater production and four for gravity injection, are shown on Figures 4 and 5. All material encountered in drilling was of marine origin, characterized by the driller as coral, limestone, or sand. The layering of these shows some consistency in the vicinity of the five production wells, typically limestone in the upper 30 to 50 feet and layers of coral and sand below. Such consistency is not evident among the strata of the new injection wells. Layers do not correlate between adjacent wells and there are more changes in strata. An anomaly was encountered in drilling Injection No. 3 well, one which is not shown in the driller's log reproduced as Figure 5. The driller, L. Moa'ali of Roscoe Moss Company, reports that his tools fell 10 feet through an empty space from 55 to 65 feet depth. This cavity is logged as "sand" on Figure 5.

Logs available of the previously existing wells are summarized on Table 2. These are taken from the original driller's reports filed with the State Division of Water and Land Development. These are very brief and do not employ the same descriptive terminology used for the nine new wells. A report for the Makai Injection Well could not be located at all.

**PERFORMANCE OF PRODUCTION WELLS**

After development pumping each well for 45 minutes to an hour and a half, the length of time depending on clarity of pumped water, a pump test to determine hydraulic performance was made. The test set-up for each well consisted of a line shaft turbine pump, a pair driving diesel engines, and enough 10-inch aluminum pipeline to discharge pumped water to the purge pond or similarly distant disposal point. Flowrate was computed using the horizontal distance for water to drop a specified height. Two heights were used, 4 and 12 inches, and the average of the two computed flowrates was taken as the result. This was the only feasible method to measure flowrate at the high velocities in the discharge line, but its accuracy is considered no better than ±10 percent. Drawdown was measured by electric sounder and periodically checked using steel tape and blue chalk. These are considered accurate to about ±1/4 inch, a reflection of turbulence in the pumped well rather than accuracy of the measuring device. Because tidal fluctuation is significant compared to drawdown (in some cases even substantially greater), corrections to measured drawdown were necessary. These were made using the
FIGURE 4. LOGS OF THE FIVE NEW PRODUCTION WELLS DRILLED BY ROSCOE MOSS COMPANY, OCTOBER TO DECEMBER 1980
FIGURE 5. LOGS OF THE FOUR NEW INJECTION WELLS DRILLED BY ROSCOE MOSS COMPANY, DECEMBER 1980 TO JANUARY 1981
Table 2. Driller's Logs of the Original Kahuku Seafood Plantation Wells*

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Depth (feet)</th>
<th>Rock Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;B&quot;</td>
<td>0 to 2</td>
<td>Coral</td>
</tr>
<tr>
<td></td>
<td>2 to 14</td>
<td>Boulders and clay</td>
</tr>
<tr>
<td></td>
<td>14 to 60</td>
<td>Soft coral</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>0 to 10</td>
<td>Boulders</td>
</tr>
<tr>
<td></td>
<td>10 to 80</td>
<td>Soft coral</td>
</tr>
<tr>
<td>&quot;E&quot;</td>
<td>0 to 8</td>
<td>Soil and boulders</td>
</tr>
<tr>
<td></td>
<td>8 to 100</td>
<td>Soft and hard coral</td>
</tr>
<tr>
<td>Mauka Injection</td>
<td>0 to 10</td>
<td>Rock and boulders</td>
</tr>
<tr>
<td></td>
<td>10 to 77</td>
<td>Soft and hard coral</td>
</tr>
</tbody>
</table>

*The information here has been extracted from the Driller's Report to the State Division of Water and Land Development filed by Roscoe Moss Company. No report could be found for the Makai Injection Well.*
tidal signal monitored in an observation well sufficiently distant to be undisturbed by pumping.

Tests were run as steps of increasing pumping rate. In general, drawdown response occurred in a matter of seconds and remained relatively steady thereafter at each pumping rate. Resulting pumping rate-drawdown relationships, which are plotted on Figure 6, show the great permeability of the marine formation, the existence of local variability, and the adequacy of well design for pumping rates up to 6,000 gallons per minute ("GPM"). Performance of the Production No. 3 well was remarkably good, having less than 0.2 feet drawdown at 5,700 GPM.

The plots on Figure 6 depict individual well performance determined by two- to three-hour pump tests. However, the test of the Production No. 2 well was run for eight hours and employed adjacent wells to measure aquifer response. The results of this test are shown on Figure 7. Using drawdowns in the observation wells and assuming steady state after 200 minutes of pumping, the aquifer's hydraulic conductivity is computed to be 60,000 gallons per day per square foot ("GPD/ft²") and transmissivity to be 5 million gallons per day per foot ("MGD/ft"). If the non-equilibrium response in the pumped well at 5,200 GPM is utilized, conductivity is 90,000 GPD/ft² and transmissivity is 7.5 MGD/ft. These values are only approximations, but they are reasonably consistent with each other, about twice the magnitude computed for a test of the nearby Marine Culture Enterprises well (Popkin, 1980:12), and are considered correct to an order of magnitude. No reliable recovery data were obtained from pumped or observation wells which could serve as a further check on computed aquifer characteristics. The rapid recoveries were obscured by water draining back through the discharge line into the wells.

Available test results on the previously existing production wells, designated "B", "C" and "E", are summarized on Table 3. Well "E", with 100 feet total depth and 80 feet of screen, has performance characteristics comparable to the less efficient of the five new production wells. Wells "B" and "C", which have less screen length and draw water from the upper, less permeable part of the aquifer, do not perform as well.

PERFORMANCE OF INJECTION WELLS

After development pumping, step pump tests were run on each of the four new injection wells. The results, which are presented on Figure 8, show a significant variation in performance. Injection Nos. 1 and 3 had very little drawdown at pumping rates up to 5,000 GPM. On the other hand, Injection Nos. 2 and 4 had significant drawdowns, 13 and 22 feet, respectively, at 5,000 GPM. Variable performance is not surprising in view of the different strata encountered during drilling, but it is not necessarily predictable from the driller's logs and his personal impressions. Only the remarkable performance of Injection No. 3, with its empty cavity between 55 and 65 feet depth, is expectable.

Injection tests were run on three of the four new injection wells and on the previously existing Makai Injection Well. These were done by pumping from an adjacent well. To get water into the well being tested, a chimney-like set-up using a section of 16-inch pipe was fabricated. The original test
FIGURE 6
HYDRAULIC PERFORMANCE OF THE FIVE NEW PRODUCTION WELLS
FIGURE 7. RESULTS OF THE 8-HOUR PUMP TEST OF PRODUCTION NO 2 WELL. THE OBSERVATION WELLS ARE 100 FT. (PRODUCTION NO 1) AND 160 FT. (PRODUCTION NO 3) FROM THE PUMPED WELL.
Table 3. Performance of Production Wells "B", "C" and "E"

<table>
<thead>
<tr>
<th>Production Well</th>
<th>Date of Test</th>
<th>Flow Rate (GPM)</th>
<th>Drawdown (feet)</th>
<th>Source of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;B&quot;</td>
<td>June 16, 1976</td>
<td>3,000</td>
<td>15</td>
<td>November 1976 Driller's Report by Roscoe Moss Company</td>
</tr>
<tr>
<td></td>
<td>March 27, 1979</td>
<td>2,600</td>
<td>9.5</td>
<td>Belt, Collins &amp; Associates pump test report</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>September 1, 1976</td>
<td>5,000</td>
<td>14</td>
<td>November 1976 Driller's Report by Roscoe Moss Company</td>
</tr>
<tr>
<td>&quot;E&quot;</td>
<td>March 16, 1979</td>
<td>4,330</td>
<td>6.0</td>
<td>Belt, Collins &amp; Associates pump test report</td>
</tr>
</tbody>
</table>
FIGURE 8. HYDRAULIC PERFORMANCE OF THE FOUR NEW INJECTION WELLS TESTED AS PUMPING WELLS
set-up, shown on the left side of Figure 9, proved unsatisfactory. It allowed vortexing at its top and a free drop at its bottom, both causing large quantities of air to be pulled down the well and significantly interfere with its performance. The device was modified as shown on the right side of Figure 9. Its top was sealed and a 7-inch diameter orifice plate welded to its bottom. Although this resulted in extremely high velocities through the orifice, it did create a positive head on the influent line which prevented air entrainment.

Owing to the high velocity through the orifice plate being expended in the upper part of the well column, measurements of head build-up were, in some cases, not meaningful. Injection No. 1 and 3 wells, which pump tests showed are extremely efficient, actually had a drawdown of several feet rather than a build-up during injection. On the other hand, less efficient wells showed a positive head build-up. Table 4 summarizes results of the five injection tests that were done.

As an indication of the actual head build-up during injection that was masked by the dynamics of the injection set-up, the recovery portion of the January 19, 1981 test of Injection No. 1 is plotted on Figure 10. It took 30 seconds after injection ceased for the water level to recover from its drawdown. Thereafter, the head built up steadily for the next 45 seconds to 1.8 feet, held steady at 1.8 feet for another 45 seconds, and then dropped back to static level in 3-1/2 minutes. It is believed this demonstrates an aquifer build-up during injection of 2 feet or more, but how much above 2 feet would be conjecture. Based on the pressure readings of the gage on the influent line (see Figure 9), and accounting for losses through the vertical pipe, orifice plate, and dissipation of the energy head in the upper part of the well column, the build-up could not be much above the 2 feet indicated in recovery data.

On the less efficient wells, the positive head build-up measured during injection is believed to be reasonably indicative of the actual build-up. Head build-up and recovery in the test of the Makai Injection Well, Figure 11, demonstrates this. The funnel inlet limited maximum head build-up to 4.8 feet before overflow into the surrounding pond would occur. At the starting injection rate of 1,700 GPM, such overflow occurred after 19 minutes. When the flow was adjusted to the minimum possible with the diesel engine drive, 1,300 GPM, the head build-up was reasonably stable at 4.2 feet. The relatively poor performance of this well is expectable in view of the amount of suspended material it has taken in four years of operation and its loss of 23 feet of its depth in that time.

As an indication of the distribution of injected flow in the well column, a propeller-type current meter was suspended in Injection No. 3 well during its tests. Results are shown on Figure 12. Water moved past the first 20 feet of screen at 4.8 feet per second with virtually none of it moving laterally into the aquifer. In the next 50 feet, essentially all of the 4,700 GPM flow was dissipated laterally. According to measurements, no flow was injected into the bottom five feet of the well.
FIGURE 9. MODIFICATION OF THE ORIGINAL INJECTION TEST SET-UP WAS NECESSARY TO ELIMINATE ENTRAIN AIR. THE ORIFICE PLATE AT THE BOTTOM OF THE VERTICAL PIPE CREATED A POSITIVE PRESSURE IN THE INFLUENT PIPELINE.
Table 4. Summary of Injection Test Results on Three of the New Injection Wells and the Makai Injection Well

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Test Date</th>
<th>Injection Apparatus</th>
<th>Description of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection No. 1</td>
<td>January 15, 1981</td>
<td>Original</td>
<td>Injected at rates up to 4,400 GPM; substantial head build-up of 14+ feet due to entrained air; head build-up largely independent of injection flow rate.</td>
</tr>
<tr>
<td></td>
<td>January 19, 1981</td>
<td>Modified</td>
<td>Injected at rates up to 5,400 GPM with a drawdown of up to 3 feet and generally proportional to flow rate. Recovery results plotted on Figure 10.</td>
</tr>
<tr>
<td>Injection No. 2</td>
<td>January 21, 1981</td>
<td>Modified</td>
<td>Injected at rates up to 4,200 GPM at head build-up of 3.7 feet. Well capable of greater rates but problems with pipeline prevented achieving these in the test.</td>
</tr>
<tr>
<td>Injection No. 3</td>
<td>January 26, 1981</td>
<td>Modified</td>
<td>Injected at rates up to 5,500 GPM with drawdown of up to 3.4 feet and proportional to injection rate.</td>
</tr>
<tr>
<td>Makai Injection</td>
<td>January 19, 1981</td>
<td>Modified</td>
<td>Injected at 1,300 and 1,700 GPM with head build-up of up to 4.8 feet. Results are depicted on Figure 11.</td>
</tr>
</tbody>
</table>
FIGURE 10. RECOVERY OF INJECTION NO. 1 WELL AFTER 30 MINUTES OF INJECTION AT AN AVERAGE OF 4,500 GPM. THROUGHOUT THE INJECTION PERIOD, THERE WAS A DRAWDOWN OF HEAD IN THE WELL.
FIGURE 11. INJECTION AND RECOVERY DATA OF THE TEST OF THE MAKAI INJECTION WELL. TEST SET-UP ALLOWED A MAXIMUM INJECTION HEAD OF 4.8 FT, ESTABLISHING THE UPPER BOUND OF INJECTION RATE. ENGINE IDLE SPEED GOVERNED THE 1300 GPM LOWER RATE.
Figure 12. Velocity measurements in the well column of injection No. 3 show that almost no flow is injected in the first 20 ft. of screen. The entire 4700 gpm is injected in the next 50 ft. of well screen.
PURGE POND DISPOSAL SYSTEM

With the installation of four new injection wells, the 10.1-acre purge pond now has a total of six disposal wells. These could be required to dispose up to 29,900 GPM if all production wells are operated simultaneously (five new production wells at 4,600 GPM each, Well "B" at 2,600 GPM, and Well "E" at 4,300 GPM). Based on a maximum desirable purge pond level of 8.3 feet and a mean static groundwater level of 1.2 feet (see Table 5), there is about 7 feet of injection head to accomplish the disposal.

Because head build-up during injection testing was not definitive, it cannot be stated outright that the six disposal wells are capable of up to 29,900 GPM with the available head. At a given inflow rate to the purge pond, each well will adjust its injection rate to the water level in the pond and to a small interference effect from adjacent wells. After the system is put into operation, measurements of injected flow by each well should be made. This will define capacities under field conditions and indicate what, if any, modifications to the disposal system are required.

To aid this analysis, measurements of leakage loss from the purge pond were made from January 16 to January 19, 1981. During these four days, all injection wells were sealed off, inflow by the sump pumps was monitored, and changes in water level in the pond were measured. It was determined that total loss is approximately 1,000 GPM (see summary below). There is no indication of where this loss may be occurring from nor that it is any concern for the stability of the berms.

- Total loss rate: 1,000± 50 GPM
- Estimated evaporation loss:
  - (0.25± 0.05 inches per day over 10.1 acres): 50± 10 GPM
- Resulting pond seepage: 950± 50 GPM

GROUNDWATER SALINITY, TIDAL FLUCTUATION, AND LEVELS

Chloride contents, salinities, and temperatures measured during pump tests are summarized on Table 6. Some variation in the salinity among the five new production wells was evident, from a low of 22 ppt from Production No. 2 to a high of 28 ppt from Production No. 3. Salinity from the injection wells, owing to their more seaward location, were a more saline 30 ppt. The variation in temperature, from 24.5 to 26°C, correlates with salinity, reflecting the mix of slightly warmer ocean water with cooler fresh water.

Fluctuations of the tide at the shoreline are transmitted through the coralline aquifer beneath KSP with only modest attenuation. Popkin (1980:11-12) compared the level change in the nearby Marine Culture Enterprises well with predicted astronomic tide and found the efficiency of tidal transmission to be 97 percent. This well is 540 feet from the shoreline and the tidal transmission demonstrates exceptional permeability in this location. Using a Stephens Type F level recorder on Production No. 2 well, a similar comparison with predicted astronomic tide was made. As illustrated by
Table 5. Reference Elevations in the Purge Pond

<table>
<thead>
<tr>
<th>Feature</th>
<th>Elevation(^1) (ft. msl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of Purge Pond Berm at the Sump Pumps</td>
<td>9.81</td>
</tr>
<tr>
<td>Maximum Desirable Purge Pond Water Level</td>
<td>8.31(^2)</td>
</tr>
<tr>
<td>Funnel Inlet of Mauka Injection Well</td>
<td>7.23</td>
</tr>
<tr>
<td>Funnel Inlet of Makai Injection Well</td>
<td>6.51</td>
</tr>
<tr>
<td>Funnel Inlet of Injection Nos. 1, 2, 3 and 4 Wells</td>
<td>6.00(^3)</td>
</tr>
<tr>
<td>Mean Static Water Level of Groundwater</td>
<td>1.0 to 1.1(^4)</td>
</tr>
</tbody>
</table>

\(^1\) All elevations are referenced to a benchmark in the airstrip west of the new feedwater ponds. The benchmark is a nail in the asphalt at elevation 5.54 feet (msl). Elevations are considered accurate to within 0.04 feet relative to the benchmark.

\(^2\) Based on providing a minimum of 1.5 feet freeboard in the pond.

\(^3\) Inlet elevations of the new wells specified in a February 6, 1981 letter from Richard Abe of Belt, Collins & Associates to Tom Young of Pacific Construction Company. They have not been completed at the writing of this report, however.

\(^4\) Mean static level varies over the pond slightly and at different times.
Table 6. Summary of Temperature and Salinity Measurements Made During Pump and Injection Tests

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Date of Sampling</th>
<th>Chloride Ion Content by Brewer Analytical Laboratories 1 (mg/l)</th>
<th>Salinity Computed from Chloride Content 2 (parts per thousand)</th>
<th>Salinity by Hand-held Refractometer (parts per thousand)</th>
<th>Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production No. 1</td>
<td>January 2, 1981</td>
<td>12,920</td>
<td>23.3</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>Production No. 2</td>
<td>January 6, 1981</td>
<td>11,950</td>
<td>21.6</td>
<td>24</td>
<td>24.8</td>
</tr>
<tr>
<td>Production No. 3</td>
<td>December 18, 1980</td>
<td>15,640</td>
<td>28.3</td>
<td>26</td>
<td>24.5</td>
</tr>
<tr>
<td>Production No. 4</td>
<td>December 15, 1980</td>
<td>14,150</td>
<td>25.6</td>
<td>26</td>
<td>24.7</td>
</tr>
<tr>
<td>Production No. 5</td>
<td>December 10, 1980</td>
<td>13,070</td>
<td>23.6</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>Injection No. 1</td>
<td>January 9, 1981</td>
<td>16,340</td>
<td>29.5</td>
<td>30</td>
<td>26</td>
</tr>
<tr>
<td>Injection No. 2</td>
<td>January 15, 1981</td>
<td>--</td>
<td>--</td>
<td>30</td>
<td>26</td>
</tr>
</tbody>
</table>

1The average of not less than two and not more than five samples. There was little variation among the samples.

2Computed from Brewer Lab's chloride content as follows: \( S = 1.805(C1) + 0.03 \) where both \( S \) and \( C1 \) are in parts per thousand.
Figure 13, approximately 67 percent of the shoreline fluctuation was transmitted to the well. This well is 1,550 feet from the shoreline, about three times the distance of the Marine Culture Enterprises well.

Figure 13 also shows that the mean groundwater level at Production No. 2 well was between 1.55 and 1.75 feet (msl) for the April 15 to April 19, 1981 level recording period. Similar measurements during the last week in January 1981 showed that the mean level was between 1.00 and 1.05 feet (msl) at that time. The rise of 0.5 to 0.7 feet in two and one-half months was the result of rainfall recharge. The magnitude of it might appear surprisingly large were it not for the fact that clay and fine-grained limestone, both with low specific yield, dominate the several feet above and below sea level in the coralline aquifer. The heavy precipitation rate during this time, though not researched in preparing this report, is evidenced by Pacific Construction's loss of 14 working days to rain in its construction of new facilities at KSP. The groundwater response to rainfall recharge underscores the contribution of this source to the freshwater component of water pumped by KSP wells. In retrospect, it is probably also the reason why pumped water salinity varies by several parts per thousand through the course of a year.

In addition to rainfall recharge, density differences contribute to the higher level of groundwater compared to the adjacent ocean. Comparing the weight of a water column in the aquifer (based on the salinity profiles in Figure 2) with seawater, it is clear that virtually all groundwater elevation above sea level is due to density rather than a flux of water toward the shoreline. There is probably a slight downward gradient toward the shoreline, but the phreatic surface could not be detected as anything but flat during our field work. The gradient is probably on the order of $10^{-4}$ or $10^{-5}$ (based on probable recharge and aquifer transmissivity). This is too flat to detect within the KSP site because ground survey errors are at least 0.01 feet, there is an interference caused by tidal fluctuation which must be analytically removed, and rainfall recharge caused intermittent level and slope changes.

EFFECT OF KSP OPERATION ON THE GROUNDWATER ENVIRONMENT

The KSP facility could ultimately pump up to 29,900 GPM from its seven production wells. Except for seepage from earthen conveyance trenches and from the bottom of the purge pond, all pumped water will be disposed by gravity injection at six wells in the purge pond. These high rates of pumping and injection will substantially alter the currently quite nominal movement of water in the coralline aquifer. An analysis was made to illustrate this effect.

Conditions assumed for the analysis are shown on Figure 14. Irregularities of the shoreline have been smoothed out so that the influence of the ocean as source and sink could be handled analytically. Groundwater level due to density has been eliminated so that groundwater contours reflect the piezometric surface compared to the ocean. Permeability variations between coral, limestone, surficial clay, and sand, though clearly significant, have been removed by the assumption of an isotropic formation with a permeability of 75,000 gallons per day per square foot. The notable difference in
Figure 13. A comparison of level fluctuation in Production No. 2 well and predicted tide at Laie Bay (by the National Oceanic and Atmospheric Administration) shows a tidal transmission of approximately 67 percent. Lag time cannot be derived from the plot above because the time of the tide offshore of KSP is not known.
ASSUMPTIONS FOR ANALYSIS:

1. Groundwater level due to lighter than seawater density is assumed so that the level is 0.0 ft (0 m) at the shoreline and all groundwater level gradient is due to movement.
2. Coraline aquifer is isotropic, 100 ft thick, and has a permeability of 75,000 gpd/ft².
3. Minor shoreline irregularities have been smoothed out as shown on this drawing.
4. Pumping and injection rates are as tabulated below. Surface losses in conveyance trenches and from the purge pond have been ignored.

<table>
<thead>
<tr>
<th>Production Wells</th>
<th>Flowrate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>4600</td>
</tr>
<tr>
<td>E</td>
<td>4600</td>
</tr>
<tr>
<td>1</td>
<td>4600</td>
</tr>
<tr>
<td>2</td>
<td>4600</td>
</tr>
<tr>
<td>3</td>
<td>4600</td>
</tr>
<tr>
<td>4</td>
<td>4600</td>
</tr>
<tr>
<td>5</td>
<td>4600</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Injection Wells</th>
<th>Flowrate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mauka</td>
<td>2000</td>
</tr>
<tr>
<td>Makai</td>
<td>1750</td>
</tr>
<tr>
<td>1</td>
<td>6500</td>
</tr>
<tr>
<td>2</td>
<td>3250</td>
</tr>
<tr>
<td>3</td>
<td>13,150</td>
</tr>
<tr>
<td>4</td>
<td>3250</td>
</tr>
</tbody>
</table>

The natural groundwater surface of the coraline aquifer is shown here with a 10⁻² gradient toward the shoreline. Assumptions made to assess the impact when all wells are in use are listed in the upper left.
performance among injection wells has been retained by employing different injection rates. As tabulated on Figure 14, these vary from a low of 1,750 GPM at the Makai Injection Well to a high of 13,150 GPM at Injection No. 3 well.

The influence of the shoreline is handled analytically using image injection and production wells located offshore and an equal distance from the shoreline from the actual production and injection wells, respectively. In this manner, the shoreline boundary condition of 0.0 feet (msl) is maintained. Assuming a steady-state aquifer response to all wells in service, the resulting groundwater surface is shown on Figure 15. The most obvious effect is that the water surface depression around pumping wells and the mound at the purge pond completely overwhelm the modest natural gradient toward the shoreline. A closer inspection of the resulting piezometric surface also reveals the following:

- Although a large portion of injected water will be drawn back toward the pumping wells and recirculated, the steepest gradient (and greatest flow) of injected groundwater will be toward the shoreline and a direct escape to the ocean.

- There will be an influx of significant amounts of seawater from the shoreline on the Kuilima side of KSP. It will constitute an important source of "new" water to replace that which escapes directly to the sea at the shoreline off the purge pond.

- The depression of the piezometric surface around the production wells will also draw significant amounts of "new" water from the inland portions of the coralline aquifer. This influence will probably be detectable for about 1,500 feet to either side of KSP and about 2,000 feet inland.

The analysis shows that the inland portions of the aquifer will be as important in contributing "new" water as will be the nearby shoreline. This means that the salinity of pumped water would not be expected to change significantly from what it is now. A word of caution is warranted, however. The coralline aquifer is quite heterogeneous. Actual flow occurs preferentially through solution channels and coarse granular material rather than as diffusely as through the isotropic aquifer assumed for the analysis. By the nature of reef building, these most efficient flow paths are more likely to be located on the seaward side of the KSP wells. If this is the case, pumped water could gradually become more saline. A salinity monitoring program when KSP is in full production will be able to detect this.

While operation of KSP will influence groundwater movement over a relatively large area of the coralline aquifer, it should have virtually no impact on the underlying confined aquifer in the Koolau basalts. The locations of upward leakage from basalt into the coralline formation, primarily Punamano and Punahoolapa Springs, are 0.8 to 1.0 mile from the shoreline along the inland margin of the coralline formation. The cone of depression created by the KSP production wells will not extend that far inland and thus will not influence the upward leakage rate there.
Figure 15

Piezometric surface of the carbonate aquifer with KSP in full production.

The computed piezometric surface relative to mean sea level shows:
(1) Direct flow of injected water to sea and back to the production wells,
(2) New water to the production wells from the shoreline to the west, and
(3) New water from the interior of the aquifer.
REFERENCES


INJECTION WELL INLET

Plan

#5 EACH SIDE

CONCRETE PAD

ELEV. G.O

4:1 MAX SLOPE

#5 - 4 SIDES

EXCAVATE TO TOP OF SLAB

20" WELL CASING

calc: ½" = 1'-0"
APPLICATION FOR DRILLING, MODIFYING, REUSING, OR REUSING WELLS

INSTRUCTIONS: Please send 1 copy to Honolulu Board of Water Supply, who will distribute to other agencies concerned. In filling out, refer to "Rules and Regulations Providing for the Protection, Development and Conservation of Water Resources" of the Honolulu Board of Water Supply and applicable rules and regulations of the State Department of Health.

OWNER: Kahuku Farms
(See applicable BWS Rule VI, Section 1a)

ADDRESS: Kahuku, Hawaii

1. APPLICATION FOR WELL:
   Drilling ___ Reusing ___
   Modifying ___ Recasing ___
   Change in use ___

2. WORK TO BE PERFORMED BY: Roscoe Moss Co.
3. USE OF WELL: To provide brackish sea water for commercial aquaculture purposes.

(See applicable BWS Rule VI, Section 1c)

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kahuku, Oahu
   Tax Map Key: 5-6-03:10

B. Land area served: Approximately 5 acres of contiguous salt water ponds. (Attach map showing exact location of well and area served. See applicable BWS Rule VI, Section 1b and 1d)

c. Description of well and appurtenant details: 12" or 16" cased well, cased to a depth of approximately 30 ft. with open hole approximately 30 ft. below casing. Casing will be grouted in place.

Well will have a 2000 gpm vertical turbine pump. Water will be piped from well to nearby ponds.

(See applicable BWS Rule VI, Section 1e)
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Five Thousand Dollars ($5,000.00), said amount of the bond to be set by the Engineer, for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

6. The Owner hereby agrees to the following special conditions for this well:

2/5/76
Date Submitted

Signature of Owner

Roscoe Moss Company by Bill Moore
Name of applicant if other than owner
GROUND LEVEL

TOTAL DEPTH 66 FEET

12" ID x 5/8" WALL
BLANK CASING 30 FEET

PERFORATED CASING 9 FEET

12" DIA OPEN HOLE 36 FEET

WELL No. NOT TO SCALE

Cement Grout 30 FEET

Annular Space to be filled with aggregate

Concrete Plug Minimum

Concrete Block

No. Vert Bars
No. Horiz Bars

Not to Scale
NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of who would be directly and immediately affected by the proposed water use.

GENERAL OBJECTIONS

We reiterate our general objections to current COWRM water use permit application processing and decisionmaking practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93). In its last set of applications, Campbell Estate proposed to continue a total of 16.225 mgd of existing use from the basal aquifer, which climbs to 26.725 mgd with this application. However, the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.725 mgd of proposed use is about 51% of the 1992 revised sustainable yield of 35 mgd for the Koolauloa aquifer. Without better knowledge of existing, foreseeable, and potential competing applications for this yield, it is difficult to assess the propriety of allocating over 50% of aquifer yield to a single applicant. How many more applications have been/will be submitted by Campbell Estate for water from this aquifer? The whole picture should be up front before decision-making begins.
SPECIFIC OBJECTIONS

Wells 4158-12 & 13

The quantity requested seems high for only 18 homes and 3 office buildings. How does this compare with actual use as reported to the Water Commission?

All other wells (saltwater)

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of aquaculture wastewater effluent discharge upon water sources and water uses in the area. These water quality concerns should be listed in the applications as potential restrictions on use.

Mahalo,

David L. Martin
David L. Martin, Water Claims Manager

pc: Campbell Estate
1993 October 29

State of Hawaii
Commission on Water Resource Management

OBJECTIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS
Public Notice dated September 22, 1993
Send written objections by October 29, 1993

NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of who would be directly and immediately affected by the proposed water use.

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Mahalo,

David L. Martin, Water Claims Manager

pc: Campbell Estate
APPLICATION FOR DRILLING, MODIFYING, RECASING OR REUSING WELLS

INSTRUCTIONS: Please send 1 copy to Honolulu Board of Water Supply, who will distribute to other agencies concerned. In filling out, refer to "Rules and Regulations Providing for the Protection, Development and Conservation of Water Resources" of the Honolulu Board of Water Supply and applicable rules and regulations of the State Department of Health.

OWNER: Kahuku Farms Inc. (Taylor A. Pryor)
(See applicable BWS Rule VI, Section 1a)

ADDRESS: __________________________________________________________________________

1. APPLICATION FOR WELL:
   Drilling ___ Reusing ___
   Modifying ___ Recasing ___
   Change in use ___

2. WORK TO BE PERFORMED BY: Roscoe Moss Company
3. USE OF WELL: To determine the availability of water at this site. If well has good gallonage potential then it will be used to supply water to a clam and oyster farm.

(See applicable BWS Rule VI, Section 1c).

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kahuku Point
   Tax Map Key: 5-6-03:10 por and 5-6-02:9 por

B. Land area served: Kahuku Seafood Plantation Development
   (Attach map showing exact location of well and area served. See applicable BWS Rule VI, Section 1b and 1d)

c. Description of well and appurtenant details: A 24" diameter perforated pipe to 80 foot depth. We will attempt to pump 5,000 gpm from the well. The elevation at the well is 5 feet.

(See applicable BWS Rule VI, Section 1e)
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Five Thousand Dollars ($5,000.00), said amount of the bond to be set by the Engineer, for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

6. The Owner hereby agrees to the following special conditions for this well:

June 17, 1976
Date Submitted

Signature of Owner

Name of applicant if other than owner
<table>
<thead>
<tr>
<th>To:</th>
<th>Initia</th>
<th>Please:</th>
</tr>
</thead>
<tbody>
<tr>
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Wow, can you establish if Bus that they should transmit copy of application along with permit. In all cases we need specs from Dan.
June 23, 1976

Mr. Robert Chuck
Manager and Chief Engineer
Department of Land and Natural Resources
Division of Water and Land Development

Dear Mr. Chuck:

SUBJECT: Well Permit for Kahuku Farms, Inc.

Attached for your information and files is a copy of the well permit issued by the Board of Water Supply on June 22, 1976 to Kahuku Farms, Inc. This is the third brackish water well for the corporation in the Kahuku Point area.

Please call Mr. Chester Lao at [redacted] if you have any questions regarding this permit.

Very truly yours,

James H. Yamauchi, Acting
Assistant Waterworks Chief Engineer

ATTACH.
To: Mr. Taylor A. Pryor
Kahuku Farms Inc.

Your application to drill a third salt water well has been approved under Department Rules and Regulations. A permit is hereby granted to you for the drilling, casing and use of a well as specified and located as described in your application of June 17, 1976.

This permit is approved under the following conditions:

1. The permit shall become valid upon receipt by the Board of Water Supply of a permittee bond of $5,000 as specified in Rule VI, Section 2 of our Rules and Regulations.

2. Work on the well shall not commence until Mr. Chester Lao of the Board of Water Supply has been notified.

3. The well and pump shall conform to the information provided in the permit application. Departure from construction as described in the information submitted shall subject this permit to review.

4. A water meter shall be installed to record well discharge. Total monthly water use data shall be sent to the Board of Water Supply.

5. In accordance with Rule XIV, Section 2, the Board of Water Supply may limit pumpage from your well if your operation adversely degrades water levels or water quality of existing sources in the area.

Date of Permit

6-22-76

For

MANAGER AND CHIEF ENGINEER
Honolulu Board of Water Supply
ROUTE SLIP
DIVISION OF WATER AND LAND DEVELOPMENT

From: [Blank] Date: 5/3 File in: [Blank]

To: [Blank] Initial Please:

____ Robert T. Chuck See Me
____ Walter O. Watson Call me
____ Takeo Fujii Take action by
____ James Yoshimoto Route to your branch
____ Albert Ching Review & comment
____ Hong Fong Chang Draft reply
____ George Morimoto Acknowledge receipt
____ Manabu Tagomori Type final
____ Dan Lum For filing
____ George Matsumoto Xerox ___ copies
____ Harold Sakai Mail
____ Noboru Kaneshiro
____ Jane Sakai
____ Doris Hamada FOR YOUR:
____ Lorraine Nanbu Approval
____ Jean Siaror Signature
____ Elsie Yonamine Information
____ Initials

[Signature]

For record and process for D.R.
April 27, 1976

Mr. Robert Chuck
Manager and Chief Engineer
Department of Land and Natural Resources
Division of Water and Land Development

Dear Mr. Chuck:

SUBJECT: Well Permit for Kahuku Farms, Inc.

Attached for your information and files is a copy of the well permit issued by the Board of Water Supply on April 26, 1976 to Kahuku Farms, Inc.

Please call Mr. George Hiu at [redacted] if you have any questions regarding this permit.

Very truly yours,

HERBERT H. MINAKAMI
Assistant Waterworks Chief Engineer

ATTACH.
To: Mr. Taylor A. Pryor, President
Pryor Corporation, Kahuku Farms, Inc.

Your application of April 19, 1976 has been approved in accordance with our Rules and Regulations for the Protection, Development and Conservation of Water Resources in the City and County of Honolulu.

You are hereby granted a permit to drill a well at Kahuku Point, TMK 5-6-03: 10, in accordance with the well description and location map submitted with your application of April 19, 1976.

This permit is granted subject to the Rules and Regulations of the Board of Water Supply and the following conditions:

1. Mr. George A. Y. Hiu of the Board of Water Supply shall be notified before any work covered by this permit commences.

2. This permit will be valid upon receipt by the Board of Water Supply of a permittee bond in the amount of $5,000.00 in accordance with Rule VI, Sec. 2 of these Rules and Regulations.

3. The Board of Water Supply may limit pumpage from your well if the pumpage results in degradation of water levels or quality of existing sources in surrounding areas as stated in Section 2, Rule XIV.

4. The well and pump shall conform to the information provided in the well application.

5. A water meter shall be installed to measure the total discharge from the well. Monthly pumpage data shall be sent to the Board of Water Supply.

Edward Y. Hirata
Manager and Chief Engineer
Honolulu Board of Water Supply
APPLICATION FOR DRILLING, MODIFYING, RECASING, OR REUSING WELLS

INSTRUCTIONS: Please send 1 copy to Honolulu Board of Water Supply, who will distribute to other agencies concerned. In filling out, refer to "Rules and Regulations Providing for the Protection, Development and Conservation of Water Resources" of the Honolulu Board of Water Supply and applicable rules and regulations of the State Department of Health.

OWNER: Kahuku Farms Inc. (Taylor A. Pryor)  
(See applicable EWS Rule VI, Section 1a)

ADDRESS: 

1. APPLICATION FOR WELL:  
   Drilling ___ x ___ Reusing _____  
   Modifying _____ Recasing _____  
   Change in use _____

2. WORK TO BE PERFORMED BY: Roscoe Moss Company 
   830 Ahua St.  
   Honolulu, Hawaii 96819
3. USE OF WELL: To determine the availability of water at this site. If well has good gallonage potential then it will be used to supply water to a clam and oyster farm.

(See applicable BWS Rule VI, Section 1c)

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kahuku Point
   Tax Map Key: 5-6-03:10 por and 5-6-02:9 por

B. Land area served: Kahuku Seafood Plantation Development
   (Attach map showing exact location of well and area served. See applicable BWS Rule VI, Section 1b and 1d)

c. Description of well and appurtenant details: A 24" diameter hole cased with a 24" diameter pipe to 25 foot depth.
   A 16" diameter open hole from 25 foot to 60 foot depth. We will attempt to pump 5000 gpm from the well.
   Elevation at the well is 5 feet.

(See applicable BWS Rule VI, Section 1e)
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Five Thousand Dollars ($5,000.00), said amount of the bond to be set by the Engineer, for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

6. The Owner hereby agrees to the following special conditions for this well:

April 15, 1976
Date Submitted

Signature of Owner

Name of applicant if other than owner
To: DOWARD

Altn: Mr. Walter Water

INS: WATER SUPPLY

COUNTY OF HONOLULU

RECEIVED

76 SEP 1 10:32

DIV. OF WATER & LAND DEVELOPMENT

DRILLING, MODIFYING, REUSING WELLS

Comments: (Second well)

Well permit dated 4/24/76

OWNI (see applicable DWS Rule VI, Section 1a)

ADDRESS:

1. APPLICATION FOR WELL:

- Drilling [x]
- Reusing [ ]
- Modifying [ ]
- Recasing [ ]
- Change in use [ ]

2. WORK TO BE PERFORMED BY:

Roscoe Moss Company

[ ]
3. USE OF WELL: To determine the availability of water at this site. If well has good gallonage potential then it will be used to supply water to a clam and oyster farm.

(See applicable BWS Rule VI, Section 1c)

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kahuku Point
   Tax Map Key: 5-6-03:10 por and 5-6-02:9 por

B. Land area served: Kahuku Seafood Plantation Development
   (Attach map showing exact location of well and area served. See applicable BWS Rule VI, Section 1b and 1d)

c. Description of well and appurtenant details: A 24" diameter hole cased with a 24" diameter pipe to 25 foot depth. A 16" diameter open hole from 25 foot to 60 foot depth. We will attempt to pump 5000 gpm from the well.

   Elevation at the well is 5 feet.

(See applicable BWS Rule VI, Section 1e)
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Five Thousand Dollars ($5,000.00), said amount of the bond to be set by the Engineer, for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

6. The Owner hereby agrees to the following special conditions for this well:

________________________
Date Submitted

________________________
Signature of Owner

________________________
Name of applicant if other than owner
1993 October 29

State of Hawaii
Commission on Water Resource Management

OBJECTIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS
Public Notice dated September 22, 1993
Send written objections by October 29, 1993

NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of who would be directly and immediately affected by the proposed water use.

GENERAL OBJECTIONS

We reiterate our general objections to current COWRM water use permit application processing and decisionmaking practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93).

In its last set of applications, Campbell Estate proposed to continue a total of 16.225 mgd of existing use from the basal aquifer, which climbs to 26.725 mgd with this application. However, the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.725 mgd of proposed use is about 51% of the 1992 revised sustainable yield of 35 mgd for the Koolauloa aquifer. Without better knowledge of existing, foreseeable, and potential competing applications for this yield, it is difficult to assess the propriety of allocating over 50% of aquifer yield to a single applicant. How many more applications have been/will be submitted by Campbell Estate for water from this aquifer? The whole picture should be up front before decision-making begins.
SPECIFIC OBJECTIONS

Wells 4158-12 & 13

The quantity requested seems high for only 18 homes and 3 office buildings. How does this compare with actual use as reported to the Water Commission?

All other wells (saltwater)

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of aquaculture wastewater effluent discharge upon water sources and water uses in the area. These water quality concerns should be listed in the applications as potential restrictions on use.

Mahalo,

David L. Martin

David L. Martin, Water Claims Manager

pc: Campbell Estate
NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: Kahuku Farms
ISLAND: Oahu

OWNER OF WELL: Taylor A. Pryor
Mailing Address:

DRILLING COMPANY: Roscoe Moss Co.
Mailing Address:

Proposed Construction Date: ____________________________
Proposed Completion Date: ____________________________
Proposed Depth: ____________________________

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Waste Disposal (type)
(f) Soils Invest.
(g) Foundation Invest.
(h) Others (specify)

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY: 5-6-03:10
5-6-02:09

Date Submitted: ____________________________
Signature of Owner: ____________________________
Title (If Applicable): ____________________________

FOR DRILLER'S USE
Job Name: ____________________________
Job No.: ____________________________

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development. [Redacted].


FOR OFFICIAL USE
Latitude: 21°42'28"
Longitude: 157°58'08"
Well No: 258-07
**DESCRIPTION**

Date of report: 4/21/77  
Person filing report: L.H. Runnels

A. OWNER: Kahuku Farms  
NAME: Well #3  
WELL:

B. GENERAL LOCATION: Kahuku Air Strip  
C. DRILLING COMPANY: Roscoe-Moss Company  
D. TYPE OF RIG: Cable Tool  
DRILLING COMPLETED: 2/77  
DRILLER: R. Bourne

E. ELEVATION, msl: Top of drilling platform: 5 ft.  
Bench mark and method used to determine:  
Height of drilling platform above ground surface: 0 ft.  

F. HOLE SIZE:  24 inch dia. to 100 ft. below drilling platform.  
                      19 inch dia. to 100 ft. below drilling platform.  
                      17 inch dia. to 100 ft. below drilling platform.

G. CASING INSTALLED:  
20 in. I.D. x 312 in. wall solid section to 20 ft. below drilling platform.  
20 in. I.D. x 312 in. wall perforated section to 100 ft. below drilling platform.

H. ANNULUS: Grouted  
Drilled: 20 ft. to 100 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:  
- Pump type, make, serial no.  
- Motor type, H.P., voltage, r.p.m.  
- Depth of pump intake setting: 10 ft. below, which elevation is 40 ft.  
- Depth of bottom of airline: 5 ft. below, which elevation is 40 ft.

**HYDROLOGY**

J. INITIAL WATER LEVEL: 5 ft. below drilling platform, Date of measurement: 2/3/77

K. INITIAL CHLORIDE: ppm, total depth of well: 5 ft. below drilling platform

L. PUMPING TESTS:  
- Reference point (R.P.) used: which elevation is 40 ft.  
- Sampling Date:  

M. DRILLER'S LOG:  
- Rock Description & Remarks  
- Water Level:

<table>
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<tr>
<th>Depth, ft.</th>
<th>0 to 8</th>
<th>Soil &amp; boulders</th>
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<td>8 to 100</td>
<td>Coral hard &amp; soft</td>
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<th>Depth, ft.</th>
<th>0 to 8</th>
<th>Soil &amp; boulders</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>8 to 100</td>
<td>Coral hard &amp; soft</td>
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N. REMARKS:
**NOTICE OF INTENT TO DRILL**

<table>
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<tr>
<th>WELL OR PROJECT NAME</th>
<th>Kahuku Farms</th>
<th>ISLAND</th>
<th>Oahu</th>
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<tr>
<td>OWNER OF WELL</td>
<td>Taylor A. Pryor</td>
<td></td>
<td></td>
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<tr>
<td>Mailing Address</td>
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<tr>
<td>DRILLING COMPANY</td>
<td>Roscoe Moss Co.</td>
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<td></td>
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<tr>
<td>Mailing Address</td>
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<td></td>
<td></td>
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<tr>
<td>Proposed Construction Date</td>
<td></td>
<td>Proposed Completion Date</td>
<td>Proposed Depth</td>
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</table>

**PROPOSED USE OF WELL:**

- (a) Domestic
- (b) Irrigation
- (c) Industrial (type)
- (d) Cooling (type)
- (e) Waste Disposal (type)
- (f) Soils Invest.
- (g) Foundation Invest.
- (h) Others (specify)

**LOCATION OF WELL:** (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

**TAX MAP KEY:**

<table>
<thead>
<tr>
<th>Submitted</th>
<th>Signature of Owner</th>
<th>Title (If Applicable)</th>
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</thead>
</table>

**INSTRUCTIONS:** Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.

**REFERENCE:** Chapter 178 entitled "Wells, Generally," Hawaii Revised Statutes, as amended by Act 123, SLH, 1970.

**FOR OFFICIAL USE**

Latitude: 21.42.31
Longitude: 157.58.12
Well No.: 4258-06
<table>
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<tr>
<th>Date of report</th>
<th>11/15/76</th>
<th>Person filing report</th>
<th>L. H. Runnels</th>
</tr>
</thead>
</table>

A. OWNER: Kahuku Farms | WELL NAME: Well #2 | ISLAND: Oahu |
B. GENERAL LOCATION: Kahuku Airstrip |
C. DRILLING COMPANY: Roscoe Moss Co. |
D. TYPE OF RIG: Cable tool | DRILLING COMPLETED: 8/76 | DRILLER: R. Whitney |

E. ELEVATION, msl: Top of drilling platform | 5 ft. | Bench mark and method used to determine |

Height of drilling platform above ground surface | 0 ft. | which elevation is |

F. HOLE SIZE: 24-inch dia. to 80 ft. below drilling platform. |

G. CASING INSTALLED: 20-in. I.D. x 250 in. wall solid section to 50 ft. below drilling platform. |

H. ANNULUS: Grouted | ft. to ft. below drilling platform. |

Gravel packed | ft. to ft. below drilling platform. |

I. PERMANENT PUMP INSTALLATION: |

- Pump type, make, serial no. |

Motor type, H.P., voltage, r.p.m. |

Depth of pump intake setting | ft. below |

Type of perforation |

Hydrology:

INITIAL WATER LEVEL | ft. below drilling platform. Date of measurement. |

INITIAL CHLORIDE: ppm, total depth of well | ft. below drilling platform. |

PUMPING TESTS: |

Reference point (R.P.) used: |

Sampling Date: |

Depth of well | ft. below |

Start water level | ft. below R. P. |

End water level | ft. below R. P. |

Depth of well | ft. below R. P. |

Elapsed Time (hours) | Rate (ppm) | Draw-down (ft.) | C1 (ppm) | Temp. F |

to 2:00 | | | |

to p.m. | 5000 | 14 | salt water well |

to | | | |

to | | | |

to | | | |

Subsurface Formation:

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<th>ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level ft.</th>
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<td>10</td>
<td>Boulders</td>
<td>to</td>
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<td>80</td>
<td>Coral soft</td>
<td>to</td>
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</tbody>
</table>

Instructions: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: KAHUKU FARMS .................................. ISLAND: OAHU

OWNER OF WELL: TAYLOR A. PRYOR (KAHUKU FARMS INC)

DRILLING COMPANY: ROLLOE HOSS CO

Proposed Construction Date ........................................... Proposed Completion Date .................................. Proposed Depth .................................................................

PROPOSED USE OF WELL:
(a) Domestic .................................................................
(b) Irrigation .................................................................
(c) Industrial (type) .......................................................
(d) Cooling (type) ...........................................................
(e) Waste Disposal (type) ................................................
(f) Soils Invest ............................................................
(g) Foundation Invest ....................................................
(h) Others (specify) .......................................................

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY: 5-6-03:10 + 5-6-02:9

FOR OFFICIAL USE
Latitude 21° 42' 27"
Longitude 157° 58' 11"
Well No. 4258-05

FOR DRILLER'S USE
Job Name .................................................................
Job No. .................................................................

INSTRUCTIONS: Send three (3) copies to the Division of Water and Land Development, P. O.
REFERENCE: Chapter 178 entitled "Wells, Statutes, as amended by Act 123, SLH, 1970.

Date Submitted .......................................................... Signature ..........................................................

Title ........................................................................
**DEPARTMENT OF LAND & NATURAL RESOURCES**
**DIVISION OF WATER AND LAND DEVELOPMENT**

**DRILLER’S REPORT**

**DESCRIPTION**

- **Date of report:** 11/15/76
- **Person filing report:** L. H. Runnels

<table>
<thead>
<tr>
<th>A. <strong>OWNER</strong></th>
<th>Kahuku Farms</th>
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<tbody>
<tr>
<td><strong>NAME</strong></td>
<td>Well #1</td>
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<tr>
<td><strong>WELL</strong></td>
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<tr>
<td><strong>ISLAND</strong></td>
<td>Oahu</td>
</tr>
<tr>
<td><strong>GENERAL LOCATION</strong></td>
<td>TMK 5-6-03:10 + 5-6-02:9</td>
</tr>
<tr>
<td><strong>DRILLING COMPANY</strong></td>
<td>Roscoe Moss Co.</td>
</tr>
<tr>
<td><strong>TYPE OF RIG</strong></td>
<td>Cable tool</td>
</tr>
<tr>
<td><strong>DRILLING COMPLETED</strong></td>
<td>4 76</td>
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**ELEVATION:**
- **Top of drilling platform:** 5 ft.
- **Height of drilling platform above ground surface:** 0 ft.
- **Bench mark and method used to determine:**

**HOLE SIZE:**
- **24 inch dia. to 60 ft. below drilling platform.**
- **6 inch dia. to 75 ft. below drilling platform.**

**CASING INSTALLED:**
- **20 in. I.D. x 250 in. wall solid section to 5 ft. below drilling platform.**
- **20 in. I.D. x 250 in. wall perforated section to 60 ft. below drilling platform.**

**ANNULUS:**
- Grouted 0 ft. to 5 ft. below drilling platform.
- Gravel packed 5 ft. to 60 ft. below drilling platform.

**PERMANENT PUMP INSTALLATION:**
- **Pump type, make, serial no.:**
- **Motor type, H.P., voltage, r.p.m.:**
- **Depth of pump intake setting:** ft. below which elevation is ft.
- **Depth of bottom of airline:** ft. below which elevation is ft.

**HYDROLOGY**

| **INITIAL WATER LEVEL** | 4.5 ft. below drilling platform, Date of measurement: 4/22/76 |
| **INITIAL CHLORIDE:** | ppm, total depth of well ft. below drilling platform |

**PUMPING TESTS:**
- **Date:** June 16, 1976
  - **Start water level:** 4.5 ft. below R. P.
  - **End water level:** 4.5 ft. below R. P.
  - **Depth of well:** 60 ft. below R. P.

<table>
<thead>
<tr>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. °F</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. °F</th>
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<tbody>
<tr>
<td>8:00 a.m. to 12:00 p.m.</td>
<td>3000 gpm</td>
<td>15 m</td>
<td>salt water well</td>
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**SUBSURFACE FORMATION**

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<td>0 to 2</td>
<td>Coral</td>
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<td>2 to 14</td>
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<td>14 to 60</td>
<td>Coral soft</td>
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</tr>
</tbody>
</table>

**REFERENCES:**

**FOR OFFICIAL USE**
- **Latitude:** 21.4
- **Longitude:** 157
- **Well No.:** 42
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Water Use Permit Applications
Koolauloa Ground Water Management Area, Oahu

Applicant: Campbell Estate
Landowner: Same

Amor Ikko (4157-09), Amor Pact 1 (4258-12), Amor Pact 2 (4258-13), Amor RCA 1 (4258-08), Amor RCA 2 (4258-14), Haw Mar Ent Clam (4157-10), Haw Mar Ent Ogo (4157-08), Kahuku Airbase (4158-12&13), Kawanakaoa (4056-01), Malaekahana (3956-01), Pacific Sea 2 (4257-01), Pacific Sea 3 (4257-02), Palmer Golf Course (4100-01), Pump 1 (4057-01), Pump 2 (4159-01), Pump 6 (3957-07), Pump 8 (4057-06), Pump 12 (4057-07), Pump 12-A (4057-10), Pump 15 (4157-04), Punalu'u (4159-02), Sugar Mill Pump (4057-11), T. Astro (4258-05), USFW 1 (4157-05), USFW 2 (4157-06), USFW 3 (4157-07)

Honolulu Board of Water Supply
Landowner: Same

Hauula (3655-01), Kahuku Battery (4057-15,16), Kaluanui (3554-04,05), Punalu'u (4153-02), Punalu'u II (3553-03,04,06,07,08), Punalu'u III (3453-06,07), Waialae I (4101-07), Waialae II (4101-08),

Hanohano Enterprises, Inc.
Landowner: Same

(Well No. 3553-01)

George N. Nihipali, Jr.
Landowner: Same

(Well No. 3855-12)

Jacob I. Kaio, Sr.
Landowner: Same

(Well No. 3956-07)
Background

The Commission designated Windward Oahu and its corresponding aquifer systems as water management areas on May 5, 1992. All registered ground water users were notified of the official designation date of July 15, 1992, on which the Commission would begin to accept applications for existing water use permits. All water use permit applications in the Koolauloa Ground Water Management Area submitted to the Commission to date are shown in Exhibit 1. Existing water use permits in the management area are shown in Exhibit 2. Other specific information regarding the source, use, objections, and field investigation(s) are described in Attachment A and the other attached exhibits. Exhibit 5 shows well locations and reported pumpage information indexed by well number.

Analysis & Issues

Overall Koolauloa Ground Water Management Area Conditions

The major issue in the Koolauloa Ground Water Management Area is the apparent overallocation situation given the number of water use permit applications for existing uses (Exhibit 1). The sustainable yield of the Koolauloa Aquifer System is 35 million gallons per day (mgd) but as of November 29, 1993 Exhibit 1 shows a total demand of 67.433 mgd. However, of the total requested amount, 33.256 mgd is a more reasonable estimate of the requested existing demands on the aquifer and is calculated according to Table 1 as follows:

<table>
<thead>
<tr>
<th>TABLE 1.</th>
<th>Calculation for Reasonable Estimate of Existing Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity (mgd)</td>
<td>Description</td>
</tr>
<tr>
<td>67.433</td>
<td>Total applications submitted (Exhibit 1).</td>
</tr>
<tr>
<td>+0.323</td>
<td>Total existing water use permits (Exhibit 2).</td>
</tr>
<tr>
<td>-1.000</td>
<td>Future use for BWS Kipapau Well No. 3655-03.</td>
</tr>
<tr>
<td>-33.500</td>
<td>Applications for salt water wells (limited effect on aquifer).</td>
</tr>
<tr>
<td>33.256</td>
<td>Reasonable estimate of existing aquifer uses from applications.</td>
</tr>
</tbody>
</table>

From this analysis, the overallocation situation does not appear to be factual. The 33.256 mgd estimate is within the area’s estimated sustainable yield of 35 mgd. Additionally, the majority of applicants, Campbell Estate (CE) and Honolulu Board of Water Supply (BWS), have requested pump capacities rather than the actual 12 month moving average (12-MAV). The 1992 draft of the Oahu Water Management Plan (OWMP) estimated 1990 average actual use to be 13.6 mgd which would be well within the system’s sustainable yield. Staff has updated this actual use estimate with the 12-month moving average, as of September 1993, at approximately 67 mgd based on water use reports submitted to the Commission. A significant amount of pumpage is not reported at this time, much of it salt water, but staff is making efforts to have all active well owners comply.

The Native Hawaiian Advisory Council (NHAC) has requested an extended review period for all applications in this water management area and other aquifer systems (see Attachment C). Subsequent to this request, NHAC has submitted objections and declared that they represent at least thirteen (13) individuals throughout the Windward Side of Oahu (See Attachment D). The objections relate to the overall procedures of regulating water use through the existing water use permit process specified under §13-171, HAR. While staff realizes that the rules and code can be interpreted in many ways it will continue to process
the applications in accordance with §13-171, HAR while being cognizant of general policies established through past Commission actions. NHAC has reserved the right to submit specific objections with the list of identified people NHAC represents at a later date. As such, no public hearing seems necessary at this time with regard to this objection.

Given the overall situation of the management area, staff sees no reason to delay action on the existing uses provides the following analysis for applications scheduled for action.

1. CAMPBELL ESTATE (CE) EXISTING USES - There are twenty-six (26) applications from CE in this management area for twenty-eight (28) wells. A number of different entities are using water but CE has come in as the applicant since they are the landowner. Wells which have been field verified as pumping salt water for various uses are listed in Table 2 as follows:

<table>
<thead>
<tr>
<th>Operator</th>
<th>Well No.</th>
<th>Requested mgd</th>
<th>Current 12-MAV mgd</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaiian Marine Enterprises</td>
<td>4157-08</td>
<td>3.000</td>
<td>*0.433</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amorint Ikko</td>
<td>4157-09</td>
<td>7.000</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Hawaiian Marine Enterprises</td>
<td>4157-10</td>
<td>3.000</td>
<td>*0.144</td>
<td>Remove from list</td>
</tr>
<tr>
<td>Pacific Sea Farms</td>
<td>4257-01</td>
<td>5.200</td>
<td>No reports</td>
<td>SWFWD certified</td>
</tr>
<tr>
<td>Pacific Sea Farms</td>
<td>4257-02</td>
<td>3.700</td>
<td>No reports</td>
<td>SWFWD certified</td>
</tr>
<tr>
<td>T. Astro</td>
<td>4258-05</td>
<td>5.000</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amorint RCA 1</td>
<td>4258-08</td>
<td>0.300</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amorint PACT 1</td>
<td>4258-12</td>
<td>3.000</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amorint PACT 2</td>
<td>4258-13</td>
<td>9600 (60')</td>
<td>-0.9600 (60')</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amorint RCA</td>
<td>4258-14</td>
<td>0.300</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
</tbody>
</table>

* Note: Only 1 month of data supplied to Commission but verified through field investigation.

+ Note: based on recommendations of Aquicultural Development Program

The major issue with the salt-water applications listed in Table 2 is that actual use data is effectively nonexistent. The applicant has indicated that they are compiling historic pumpage information but has not submitted any to date which is understandable since none of the wells in Table 2 were found to have any flow meters. Although staff believes that the salt water wells have a very limited effect on the freshwater portions of the aquifer (otherwise they would be brackish) these uses need to be permitted. Although it may be of questionable value to measure seawater pumpage, staff feels that accurate data may prove beneficial in the future. During staff review it became evident that the standard listed in the OWMP for aquaculture (36,000 gpd/acre) would not be appropriate for the uses listed based on acreage, especially since these uses are large scale. Additionally, the concern of discharge of the effluent is under review, but is being monitored by the Department of Health (DOH). Staff has been consulting with the State Aquacultural Development Program (ADP) as they are more experienced with aquaculture of this magnitude. ADP will be making recommendations to staff prior to the Commission meeting about reasonable amounts of salt water needed for these applications and the necessary measures taken to manage effluent discharges.
Additionally, the Mayor commented that the well(s) for Hawaiian Marine Enterprises (4157-10) and Pacific Sea Farms (4257-01&02) have been determined to reside in Special Management Areas (SMA), which would require SMA permitting. The Mayor asked that these applications be deferred until a SMA determination from DLU is completed.

Field verified wells for CE pumping non-salt water for various uses are listed in Table 3 as follows:

<table>
<thead>
<tr>
<th>Operator</th>
<th>Well No.</th>
<th>Requested mgd</th>
<th>Current 12-MAV mgd</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaekahana Domestic System</td>
<td>3956-01</td>
<td>0.100</td>
<td>0.042</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Gunstock &amp; Puu Paina Ranch</td>
<td>3957-07</td>
<td>0.100</td>
<td>0.500</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Kawanananakoa Ranch</td>
<td>4056-01</td>
<td>1.000</td>
<td>+ 0.576</td>
<td>Approve 400,000 gpd est.</td>
</tr>
<tr>
<td>Kahuku Farmers Assoc.</td>
<td>4057-01</td>
<td>1.500</td>
<td>0.307</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Turf Farm &amp; Kahuku School</td>
<td>4057-06</td>
<td>0.500</td>
<td>0.450</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Soukaseum &amp; Matsuda</td>
<td>4057-07</td>
<td>2.000</td>
<td>0.190</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Kahuku Prawn Farm</td>
<td>4057-10</td>
<td>1.500</td>
<td>+ 0.800</td>
<td>Approve 800,000 gpd est.</td>
</tr>
<tr>
<td>Sugar Mill Pump</td>
<td>4057-11</td>
<td>0.500</td>
<td>0.28</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Palmer Golf Course</td>
<td>4100-01</td>
<td>0.800</td>
<td>0.28</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Amorient &amp; US Army</td>
<td>4157-04</td>
<td>1.530</td>
<td>+ 1.517</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-05</td>
<td>0.082</td>
<td>0.082</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-06</td>
<td>0.106</td>
<td>0.106</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-07</td>
<td>0.107</td>
<td>0.107</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Army, Airbase</td>
<td>4158-12&amp;13</td>
<td>0.500</td>
<td>0.103</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Vietnamese Farmers</td>
<td>4159-01</td>
<td>3.000</td>
<td>0.814</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Army</td>
<td>4159-02</td>
<td>1.500</td>
<td>0.001</td>
<td>Approve existing 12-MAV</td>
</tr>
</tbody>
</table>

Note: unmetered estimate by applicant. + + Note: unmetered estimate by staff of existing use on 5/21/93.

The non-salt water requests and their specific issues are as follows (refer to Exhibit 5 for location and use information):

a. MALAEKAHANA DOMESTIC SYSTEM (Well No. 3956-01) - The well site was inspected and verified on May 21, 1993. It is designated by the DOH as "Community Water System 316" and is monitored monthly for quality by DOH. The system services approximately 100 individuals; for the Malaekahana State Park 33 homes, and potable needs of Kawanananakoa's Ranch.

The first issue is that there are possibly six (6) active well users within a mile radius of this well. Only one (1) is downgradient and is also owned by the applicant, but no water use permit application has been submitted. The other five (5) have applied for water use permits and are pending in this submittal. Considering the applicant's well has been in use...
since 1975 and are so near to the ocean, any adverse impacts would already be in evidence. No downgradient user or other has filed an objection to this application.

The second issue is that the applicant's request for 0.100 mgd is more than the existing use. The source is metered and the current 12-MAV is approximately 0.042 mgd based on almost two (2) years worth of data (See Exhibit 5). Additionally, 0.042 mgd seems rather high for the domestic needs based on county standards that 33 homes would require approximately 16,500 gpd plus the need of the transient people at the park and the ranchs potable needs. One explanation is that the transient number of people using the park varies greatly. Finally, the OWMP estimated 1990 average use at 0.50 mgd. Staff is unsure why this amount is so high compared to figures provided directly to the Commission but prefers to use the lower reported values.

b. GUNSTOCK AND PUU PA'I'NA RANCHES (Well No. 3957-07) - The well site was inspected and verified on May 21 and October 28, 1993.

The first issue is that there are possibly three (3) active wells within a mile radius of this well. One is a privately owned source which has not come in for a water use permit and two (2) others are also owned by the applicant, both of which have water use permit applications pending in this submittal. Considering the applicant’s well has been in use since 1937 and the use is small (approximately 6,200 gpd), any adverse impacts would already be in evidence. No downgradient user has filed an objection to this application.

The second issue is that the applicant’s request for 0.100 mgd is more than the existing use. The source is metered and the current 12-MAV is approximately 6,200 gpd based on a year’s worth of data (See Exhibit 5). Apparently, this is enough to satisfy the applicant’s irrigation needs for 110 acres of pasture and about 240 head of livestock. From the OWMP, 110 acres of pasture would normally require an estimate of 0.044 mgd but the area is in a wet area of the island. The OWMP did not estimate the use from this well.

c. KAWANANAKOA RANCH (Well No. 4056-01) - The well site was inspected and verified on October 8, 1990. Telephone contact on October 5, 1993 verified that the only change in use was a decrease from 80 to 64 livestock.

The first issue is that there are possibly five (5) active wells users within a mile radius of this well. None of these wells are downgradient. Four (4) out of the five (5) wells have submitted water use permit applications which are pending and addressed in this submittal. The other well is a privately owned source which has not come in for a water use permit. Considering the applicant’s well is so close to the ocean, any adverse impacts would already be in evidence. No objections have been filed for this application.

The second issue is that the requested amount of 1.000 mgd is in excess of verified existing use. The field investigation verified use for 30-35 acres of pasture, 64 livestock, and 1/4 acre taro and watercress. Existing 12-MAV reported at 0.576 mgd but is not metered. The OWMP did not estimate use for this well. According to the OWMP the pasture and taro together would require approximately 0.141 mgd. Livestock and watercress are not mentioned in the OWMP but assuming 100 gpd/head of livestock and 1 mgd gpd/acre of watercress, this would boost the reasonable requirement to approximately 0.400 mgd. Considering that this is a wet area of the island, this estimated need should be more than adequate. The applicant has indicated that they will be increasing pasture acreage by 15 acres (0.060 mgd). The applicant may modify their permit when these additional fields are put into production.

d. PUMP 1 (Well No. 4057-01) - The well site was inspected and verified on October 8, 1990 and again on October 15, 1993. The first issue with this application is that neither the applicant nor staff can determine if the well is a single or battery of wells connected underground. Well nos. 4057-01, 02, 08, 13 & 14 have been registered by the Kahuku Farmers Association (KFA) but staff could not find any of them except this main source. It is suspected that the other wells are below the ground surface and may connect in battery the single well head found in the field. NHAC commented that these other wells in battery should be included in the application. Staff will continue to investigate the locations of the other wells under the registration program and amend the water use permit if necessary.
The second issue is that there are possibly five (5) active wells users within a mile radius of this well. None of these wells are downgradient. Four (4) out of the five (5) wells have submitted water use permit applications which are pending and addressed in this submittal. The other is a privately owned source which has not come in for a water use permit. Considering the applicant’s well is so close to the ocean and has been in use for some time, adverse impacts, if any, would already be in evidence. No objections have been filed for this application but NHAC has commented that the use affects Ki‘i National Wildlife Refuge, an unnamed stream, and water rights. This would be more appropriately addressed if future increases in use are requested since these may bring about new impacts.

The third issue is that the requested amount of 1,500 mgd is in excess of verified existing use. The field investigation verified well the is used by KFA. The Association consists of 8 farmers to irrigate 215 acres of bananas, papayas, corn, etc., which is basically diversified agriculture. According to the OWMP diversified agriculture for 215 acres would require approximately 1,700 mgd. However, the metered average use over the past two years has been consistent and the current 12-MAV is 0.307 mgd as of 9/93. Also, the OWMP estimated use from the KFA at 0.32 mgd in 1990. The mayor had commented that the existing use may be overstated and the actual metered use confirms this. NHAC commented that the applicant should also show infeasibility of using non-potable water sources. Although the Commission encourages the use of non-potable water for irrigation staff’s position is that this existing use is reasonable and within the area’s sustainable yield. Additionally, the type of non-potable water use over the basal source may put the potable quality of the area at risk.

A fourth issue is that a new State Ag Park use is not included in this figure but is a very near future use (early 1994). The State DOA is planning to open an additional 212 acres which will use an estimated 2 mgd for diversified agriculture. Pumps from the well to this project have already been tested but are not metered. Staff recommends that this future use come in with its own water use permit application.

e. PUMP 8 (Well No. 4057-06) - The well site was inspected on May 28, 1993.

The first issue is that there are possibly six (6) active wells within a mile radius of this well. Two (2) of the wells are offset but probably downgradient of well. Five (5) out of the six (6) wells have applied for water use permit. One is owned by a private individual who has not applied for water use permit. DAR had concerns about dewatering Malaekahana Stream with future increases but no objections were filed to this application.

The second issue is that the requested amount of 0.500 mgd is in excess of verified existing use. The Mayor commented that this application may be an overstated request. The field investigation found use by Southern Turf Nurseries for approximately 12 acres of turf. The source is metered and has a current 12-MAV of 0.030 mgd. The OWMP estimated 1990 use at 0.040 mgd and the OWMP estimates the need for 12 acres of turf to be 0.048 mgd. Therefore, actual metered use is lower than projected but reasonable considering use is on the wet windward side of the island.

The third issue is that Campbell Estate has an agreement with Kahuku High School to supply 0.100 mgd for irrigation. Currently, the State Department of Accounting and General Services (DAGS) is presently undergoing negotiations with CE for a water agreement. The well source is for Dags convert the high school irrigation to this non-potable source. The school’s lawns have been irrigated by BWS service up to this point. The problem is that this use will increase pumpage from the aquifer, which qualifies it as a new use from the aquifer’s perspective. Given the concerns of DAR the Commission may wish to defer action on the future portion rather than deny this use at this time given the reasonableness of the new use for non-potable irrigation of a school lawn.

f. PUMP 12 (Well No. 4057-07) - The well site was inspected on March 15, 1991 and May 21, 1993.

The first issue is that there are possibly seven (7) active wells within a mile radius of this well. Five (5) out of the seven (7) have applied for a water use permit and one is a private owner who has not applied for a permit. The other is a well owned by the applicant. Four (4) of these wells are downgradient but all are owned by the applicant. No objections
by other ground water users have been filed. DAR had concerns about dewatering of Malaekahana Stream but no other comments.

The second issue is that the requested amount of 2,000 mgd is in excess of verified existing use. The Mayor commented that this application may be an overstated request. The inspection found two major users: 1) a co-op under Mr. U. Soukaseum which is 210 acres of bananas, papayas, beans, etc. and 2) 65 acres for Melvin Matsuda for watermelons. Metered 12-MAV as of September 1993 is 0.109 mgd. The OWMP estimated 1990 use at 0.040 mgd. According to the OWMP the specified uses should require about 1.4 mgd if fully developed. Therefore, the applicant’s request is too high.

The third issue is that NHAC commented that the applicant should show infeasibility of non-potable sources. Use will affect unnamed spring, unnamed stream, and water rights. Although the Commission encourages the use of non-potable water for irrigation, staff’s position is that this existing use is reasonable and within the area’s sustainable yield. Additionally, the type of non-potable water use over the basal source may be put the potable quality of the area at risk.

g. PUMP 12-A (Well No. 4057-10) - The well site was inspected on May 21, 1993. This well resides in the same location as Well No. 4057-07.

The first issue is that there are possibly seven (7) active wells within a mile radius of this well. Five (5) out of the seven (7) have applied for a water use permit, one is a private owner who has not applied for a permit, and the other is owned by the applicant. Four (4) of these wells are downgradient but all are owned by the applicant. No objections by other ground water users have been filed. DAR had concerns about dewatering of Malaekahana Stream but no other comments.

The second issue is that the requested amount of 1,500 mgd may be in excess of the verified existing use. The Mayor commented that this application may be an overstated request. The field investigation found that the user, Kahuku Prawn Co., cultivates 25 acres of freshwater prawns and had recently signed a lease for an additional 23 acres. User was in the process of clearing the land for the future ponds. The well is not metered and reports are not submitted to the Commission. The applicant had indicated that they are asking the user to submit water use reports but they are not complying. The OWMP did not estimate 1990 use. According to the OWMP the existing 25 acres of aquaculture would require 0.900 mgd is the input at the time of inspection. A total of 48 acres would require about 1.728 mgd for aquaculture. Given the facts that the user and applicant have known about the water reporting requirements, have chosen not to comply, and had actively pursued, by construction, increasing a significant portion of use during the establishment of existing uses, staff feels that this use should be considered a future use. As such, staff recommends the applicant submits another application for the 23 acres of aquaculture under future use.

h. SUGAR MILL PUMP (Well No. 4057-11) - The well site was inspected on May 21 & October 28, 1993.

The first issue with this application is that the well number assigned by the applicant is in error. There are five (5) wells within close proximity of each other and the original number assigned by the applicant was 4057-04. In staff’s judgement, the well identified by the applicant is 4057-11. Investigation verified 60 acres of truck farm use by Vietnamese tenants. Additionally, Well No. 4057-03 is used for 3 acres of turf irrigation and has not been applied for. The other three (3) wells in the area are not in use although one used to be for fire protection. NHAC commented that other wells in the sugar mill pump battery should be combined in application and put out for public notice. Staff’s field investigation shows that the applicants original application is only in well no. error and that the Well No. 4057-03 should also come in with a water use permit application separately or amend this original application.

The second issue is that there are possibly six (6) active wells users within a mile radius of this well. None of these wells are downgradient. Five (5) out of the six (6) wells have submitted water use permit applications which are pending and addressed in this submittal. The other well is a privately owned source which has not come in for a water use report. The user was a
permit. Considering the applicant's wells are close to the ocean, adverse impacts, if any, would already be in evidence. No objections have been filed for this application.

The third issue is that the requested amount is in excess of verified existing use. The Mayor commented that the application may be an overstated request. The current metered 12-MAV reported is 0.028 mgd. The OWMP did not estimate use for this well but the estimated demand for 60 acres of bananas would be 0.181 mgd. Actual usage is much less and may be explained by the higher rainfall on this windward area.

i. PALMER GOLF COURSE (Well No. 4100-01) - This existing source uses non-potable basal water for irrigation of 188 acres of Kuliima Golf Course. The only real issue with this application is the amount of water to be allocated. A field investigation on October 4, 1993 noted that only the front 9 holes of the 18-hole golf course is open to the public. Because of financial constraints, the other nine holes are being maintained at a minimal level. If all 18 holes were to be kept in premium condition, considerably more water than what is currently being used would be required.

The actual 12-month moving average withdrawal is 0.206 mgd as of September 1993. This is considerably less than the requested allocation of 0.800 mgd. Although monthly pumpage has varied, twelve-month moving average withdrawals have been steady at slightly over 0.200 mgd for the last ten months, although slightly declining from about 0.250 mgd as of December 1992. Because average use has been consistent for nearly a year, the current 12-month moving average withdrawal of 0.206 mgd seems to be a good estimate of the irrigation water requirement.

Although there are several other pumped wells within a mile of the well, none of these is located downgradient. The closest stream is Kawela Stream, which is located about half a mile from the well. Aquatic Resources commented that Kawela Stream is intermittent, generally dry, and does not support native freshwater species. Continued use should not result in unacceptable adverse impacts to other local wells, streams, and the aquifer.

The Office of the Mayor and BWS has commented that the amount of water requested may be overstated and should be adjusted based on actual use. These agencies also suggest that an alternative source of lesser quality should be used.

j. PUMP 15 (Well No. 4157-04) - The well site was inspected on April 1991, May 21 & September 1, 1993.

The first issue with this well is that there are possibly three (3) active wells within a mile of the well. Two (2) out of the three have applied for a water use permit. The other is a private owner who has not filed an application.

The second issue is that the requested amount of 1.5 mgd may exceed the actual pumpage. The Mayor commented that the application may be an overstated request. The inspection found that Amorient uses the well for 31 one-acre fresh water prawn ponds continuously supplied all day. Also, the US Army has an additional pump hooked-up to withdraw water for six (6) military offices. Amorient's use is not metered nor do they report. The Army does meter and report their use and their current 12-MAV is 0.017 mgd. Originally the application came in separately, 1.5 mgd for Amorient and 0.030 mgd for the Army. Staff recommended that these applications be combined since CE is the applicant. The OWMP estimated use from this well at 1.80 mgd in 1990. The OWMP estimates a reasonable use of about 1.120 mgd although staff would like to consider comments from ADP on the reasonableness of the use. Amorient estimates they use 1.5 mgd.

A third issue is that NHAC commented that the existing use will affect Ki'j National Wildlife Refuge and water rights. Since the use has been in place for several years impacts have probably already been felt. This should be more appropriately addressed if future increases in use are requested since these may bring about new impacts. Additionally, The Office of Hawaiian Affairs warned of a potential overuse situation in the aquifer system. This has been explained to them as was done at the beginning of this submittal.

k. US FISH & WILDLIFE SERVICE (Well Nos. 4157-05 to 07) - Three separate permit applications were submitted for three existing artesian sources drilled within about a 70-foot radius. The wells, which are located about half a mile inland near Kahuku, use water for habitat maintenance in a designated National Wildlife Refuge for endangered water birds.
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A field investigation on August 27, 1993, verified the applicant's existing use. It was also confirmed that the acreage listed on the permit applications is incorrect; total acreage is 101.936, not 101,936.

The wells flow by artesian flow into a central sump area by opening a valve, no meters or pumps are installed. Water use is estimated using the volumetric method. Use is seasonal, with more water being used during the winter months. Water availability is dependent on the height of the water table.

The total request for the three wells is 294,773 gpd. Monthly water use reports have not been submitted, and there is no means by which to verify the applicant's estimated water needs. Another issue is that there are over thirty (30) wells within a mile of these wells, although no wells are located downgradient. However, the request is for a relatively small amount of water for a use that has been in existence for a number of years. Issuance of an interim water use permit requires that monthly water use be reported, and the allocation is subject to review and refinement based on these data. Also, because the wells are not pumped, other local wells should not be affected. Impacts to surface waters and the aquifer are not anticipated.

1. US ARMY (Well Nos. 4158-12 & 13) - The applicant submitted one permit application requesting use of 0.500 mgd of potable water from these two sources. From the field investigation on May 21, 1993, it was determined that one of these wells, Well No. 4158-13, is capped and is no longer in use. The requested quantity of 500,000 gpd is approximately the capacity of the pump installed in Well No. 4158-12.

The domestic water system, which uses water from the active source, has been in operation since 1941. The source supplies 15 service connections (mixed commercial and domestic users) and serves an estimated population of 75. Water is used for troop's drinking water during maneuvers and domestic use in Kuleana homes. Small amounts of water are used by several aquacultural facilities, and the well also provides one water trough for 65 cattle (the rest of the animals' drinking water needs is supplied by Well No. 4159-01, which has a pending permit application that includes this use).

Water use is metered and is reported on a monthly basis. Reported actual use indicates a 12-month moving average withdrawal of 0.103 mgd as of October 1993. Actual water use is therefore considerably less than the requested quantity of 0.500 mgd. Twelve-month moving average withdrawals have been steady at about 103,000 gpd for the previous five months. Therefore, an allocation of 0.103 mgd appears to be a reasonable amount to satisfy the applicant's existing needs.

Both NHAC and the Office of Hawaiian Affairs (OHA) have commented that Campbell Estate use of water appears excessive. OHA also urges the Commission to halt Campbell's water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code Review.

m. PUMP 2, FARMERS (Well No. 4159-01) - Field investigations conducted on May 21, 1993 and September 1, 1993 verified that non-potable water from this existing artesian source is currently being used by truck farms for drip and sprinkler irrigation of approximately 250 acres of bananas, papayas, and various vegetable crops. Some water is also used to supply drinking water for approximately 65 head of cattle and horses. The pasture in which the animals graze is not irrigated.

One issue concerning this application is the quantity of water to be allocated. The request is for 3 mgd for agricultural irrigation of 250 acres. Reported monthly water use has varied in the last 18 months from an average of 0.185 mgd to 1.269 mgd. The highest monthly water use reported during this period is less than half of the amount requested. Further, at full capacity, the pumps can only withdraw a maximum of 1.857 mgd. Therefore, it appears that the applicant's request is too high. The 12-month moving average withdrawal is estimated to be about 0.814 mgd. This appears to be a more reasonable estimate of actual existing use. The Oahu Water Requirements Forecast for 250 acres of papaya is 1,250,000 gpd, while the forecast for the same number of acres in banana is about 0.750 mgd. The twelve-month moving average withdrawal falls within this range.

A second issue is the presence of springs and other pumped wells in the vicinity of the source; some of these are located downgradient. However, pumpage has decreased from
1992 levels; for the period January 1, 1992 through September 30, 1992, withdrawals averaged 1.84 mgd. Current pumpage is less than half of this. Therefore, interim instream flow standards, effective as of May 4, 1992, should not be affected by current rates of withdrawals. Unacceptable adverse impacts to other local wells and the aquifer are not anticipated. No specific objections have been filed for this application.

n. US ARMY (Well No. 4159-02) - A field investigation, conducted on September 1, 1993, verified that the only existing use of potable water from this existing source is for the domestic needs of two Kuleana homes. The application states that water is requested for use by two administrative facilities at the Punamano Air Force Station and for irrigation of 75 acres of pasture; however, it has been determined that this facility has been abandoned by the Air Force (although water had been used there up until last year). The field investigation also verified that no water is currently being used for irrigation purposes.

The requested amount, 1.5 mgd, greatly exceeds verified existing use. Although water use is not metered, the Army Dept. of Public Works, which operates this source, estimates that average use is about 1,200 gpd. This estimate is in line with the County Domestic Consumption Guidelines, which indicate an average daily demand of 500 gallons per single family residential unit on Oahu. Due to the aridity of the area, actual water use may be slightly higher than that suggested by the guidelines. Therefore, the estimate of 1,200 gpd is considered reasonable. Since this use is so small the applicant can be exempted from reporting month in accordance with the Commission’s September 16, 1992 action.

There are several springs in the vicinity of the source, one of which appears to be downgradient. There are also several wells located nearby. Six (6) of these wells are currently being used. However, because the quantity of water currently being used is very small, and pumpage has decreased in the last few years due to the closing of the air force facility, impacts to surface waters, other wells, and the aquifer are not anticipated.

The Office of the Mayor and the Board of Water Supply have commented that the amount requested in this application may be overstated and should be adjusted based on actual use.

NHAC has expressed their concern over the possible effects on interim instream flow standards and potential impacts on other existing legal uses of water. However, if a permit is granted for only the existing verified use, no impact is anticipated.

2. BWS EXISTING USES - The BWS has nine (9) applications for seventeen (17) wells in the Koolauloa Ground Water Management Area which have existing use. Generally, staff is recommending approval of current reported 12-MAV for each application, as summarized under Table 4. One issue regarding all BWS applications is the NHAC comments listed in Attachments C & D. The NHAC commented that all county zoning for end uses should be described and overall statistics for the windward system should be given. This would be a monumental task for both the applicant and staff to review. Instead, staff proposes that all municipal uses are reasonable and the current and existing 12-MAV for the BWS sources should cover existing municipal uses at this time. Future uses would require project information such as zoning and 4-year commitment to initiate and justify future use requests from BWS. This would be consistent with what has been done in other water management areas including the Pearl Harbor reallocation efforts.
TABLE 4.
BWS Existing Water Wells

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* In same battery of Punaluu III in row directly above.

Other issues regarding each source are as follows (refer to Exhibit 5 for location and use information):

a. PUNALUU III (Well Nos. 3453-06 & 07) - The wells sites were inspected and verified on October 19, 1993.

The first issue is that there are two (2) active wells within a mile radius of these wells. One is for domestic use only and the other was granted a water use permit on September 1, 1993. Considering the applicant's wells have been in use since 1974, adverse impacts have already been made. Neither downgradient user has filed an objection to this application.

The second issue is that the wells may have some impacts on Punaluu Stream. The Division of Aquatic Resources (DAR) did not make any comments on this application, but they did make comments on BWS's Punaluu II well field located further away from the stream. DAR commented that the Punaluu II battery of wells is located between two of the most valuable stream habitats for native biota, Punaluu and Kaluanui Streams. Since wells have been in place since 1969 then impacts have already occurred. Any applications for new wells (or pumpage) in this area should seriously address this issue. Staff is assuming that these comments would also, apply to Punaluu III.

The third issue with this application is that the BWS request for 1.250 mgd seems low compared to the current actual use. The 12-MAV (See Exhibit 5) for the past two (2) years shows that the request would be for the minimum 12-MAV. The current 12-MAV as of September 1993 is 1.339 mgd. This would appear closer to the maximum 12-MAV over the past 2 years for these wells. Also, compared to the OWMP figure of 1.000 mgd, the current 12-MAV seems reasonable.

b. PUNALUU I (Well No. 3553-02) - The well was not field verified. Wrong keys obtained to access.

c. PUNALUU II (Well Nos. 3553-03,04, 06 to 08 & 3554-03) - This major source of wells was investigated and verified on October 19, 1993 with the exception of Well No. 3554-03 (wrong keys to access).

The first issue is there is one major user directly downgradient who has applied for a water use permit (Hanohano Enterprises, Inc.). Another user with an existing water use...
permit (see Exhibit 2) is within a mile of the well field. Since these BWS wells have been used since 1967 negative impacts would have been felt by these users. No objections from either user have been filed with the Commission.

The second issue is that these wells may have some impacts on Punaluu and Kaluanui Streams. DAR commented that the Punaluu II battery of wells is located between two of the most valuable stream habitats for native biota, Punaluu and Kaluanui Streams. Since wells have been in place since 1969, impacts have already occurred. Any applications for new wells (or pumpage) in this area should seriously address this issue.

The third issue is that the BWS request for 6,000 mgd for these wells seems high compared to the current actual use. The 12-MAV (See Exhibit 5) since July 1992 shows that the request would be for the maximum 12-MAV for the past 16 months. The current 12-MAV as of September 1993 is 4.618 mgd. This is also in relative agreement with the OWMP 1990 estimate of 4.51 mgd. Therefore, the current 12-MAV seems reasonable for existing use from this well.

d. KALUANUI (Well Nos. 3554-04 & 05) - The wells were not field verified. Wrong keys obtained to access.

e. HAUULA (Well No. 3655-01) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are three (3) active wells within a mile radius of the well. No objections have been filed by these well owners and one, the most southern, received a water use permit in September 1993. Since the well is so close to the ocean, adverse affects to other wells and streams in the area should be minimal as aquifer leakage into the ocean is primarily affected.

The second issue is that the current 12-MAV deviates significantly from the rather constant trend prior to the summer of 1992 (see Exhibit 5). Also, the OWMP identifies this source as a producer of 0.25 mgd, which is the applicant’s request. Staff has requested reasons for this and BWS may explain reasons for this at the Commission meeting.

f. KAHUKU BATTERY (Well Nos. 4057-15 & 16) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are possibly seven (7) active wells within a mile radius of the wells. Six (6) of these active wells have been filed by Campbell Estate for water use permits and one is to a private individual who has not filed for a water use permit. Since applicant’s wells have been active for over a decade, adverse impacts have already occurred. No objections to this application have been filed by the other well owners.

The second issue is that the BWS request for 1,000 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant since 1990 at roughly 0.55 mgd, which was the estimated use in the OWMP. The current 12-MAV is 0.546 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well.

g. WAIALEE I (Well No. 4101-07) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are possibly two (2) other active wells owned by private individuals within a mile radius of the well. Neither has submitted applications nor objections to this application. One is downgradient of the applicant’s well but since the applicant’s well is near the ocean and has been in use since 1945, adverse impacts have already been felt. The other well has reported use in the OWMP but, again, has not submitted an application. Staff will be following up on this matter.

The second issue is that the BWS request for 0.500 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant only varying between 0.30 and 0.37 mgd since 1988. The OWMP estimated 1990 pumpage as 0.33 mgd and the current 12-MAV is 0.339 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well.
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h. WAIALEE II (Well No. 4101-08) - The well site was inspected and verified on October 19, 1993.

The first issue is the same as the first issue of the previous application since these wells are in close proximity.

The second issue is that the BWS request for 0.750 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant only varying between 0.40 and 0.47 mgd since 1988. The OWMP estimated 1990 pumpage at 0.46 mgd and the current 12-MAV is 0.411 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well although it is unusual that the use is at a low point even though should be near a peak since September is the end of the summer period of weather.

3. HANOHANO ENTERPRISES (Well No. 3553-01) - This application was field verified on October 4, 1993. No significant changes from the original registration field investigation on October 18, 1990 were found.

The first issue with this application is that the existing end use is less than that specified in the application. The application requested both existing and future use for 70 acres of aquaculture and 250 units of future elderly housing. The applicant currently has a total of about 12 acres of active aquaculture; 11.5 acres in aquaculture for mullet and tilapia; and less than 0.5 acres for live food and tropical fish cultivation. Actual use has not been reported to the Commission. Based on the Oahu Water Management Plan 12 acres of aquaculture would use approximately 0.432 mgd. The OWMP estimated the use at 0.70 mgd in 1990. Staff would like to consider comments from ADP in addition to the OWMP to make a better assessment of actual need of the aquaculture. Additionally, the BWS has commented that the requested amount may be in excess of the aquifer’s sustainable yield and that water should be recycled through ponds for more efficient use.

The second issue is that of effects on Punaluu Stream. Discharge from this use flows into Papakoko-Haleaha Stream and since this use has been ongoing for the last 10 years, the impacts have already been felt. DAR has commented that Punaluu Stream is one of the highest quality habitats for native species on Oahu. If requests are for future increases in pumpage then DAR has requested confirmation that flows into Punaluu Stream will not be impacted.

The third and hardest issue to resolve is the future use requested for the 250 unit elderly housing development. Such a development would reasonably require about 0.100 mgd according to county standards (250 x 400 gpd for multi-family low-rise). However, there is no zoning for this project. The applicant has been working with the State Department of Health (DOH) and the County Department of Housing and Community Development (DHCD) in obtaining a 201E exemption to normal zoning requirements for affordable housing. However, the applicant is caught in a catch-22 situation whereby the county has required the applicant to provide evidence that water will be available for this project yet the Commission will not approve future projects without appropriate county zoning. Staff has informed the county of the overall situation of the Koolauloa Aquifer System and that it appears water may be available as early as January 1994 if other existing uses are established by the Commission. The applicant has indicated that they are willing to cutback on their existing aquaculture water use to make water available for their project, if necessary. Since the project is for the beneficial use of the county zoning, the applicant is seeking a special 201E exemption from zoning requirements, comments from DAR and BWS, and the existing use impacts are probably established in the area, staff does not foresee a problem allowing this special case to use a future use within the existing use limits. However, staff also realizes that if the Commission were to approve a permit allowing future use in this manner it may be construed as "water-banking" the ground water by a private entity.

4. NIHIPALI (Well No. 3855-12) - This application requires a field investigation.

5. KAIO (Well No. 3956-07) - This application was originally verified from a field investigation on October 10, 1990. No significant changes in the existing portion of the request were found. However, the applicant does include a future use request.
The first issue with this applicant is that the requested amount of water for the existing use is high. The field investigation found water consumption on a total of 0.5 acre for taro, banana, and ti leaf, livestock, and one (1) tank of tilapia. No reports of water use have been made by the applicant making it difficult to estimate actual use and need. However, the 1990 field investigation measured flow from the artesian source at 12 gpm or 17,280 gpd. Assuming taro to be the most water intensive cultivation, the Oahu Water Management Plan for 0.5 acres of taro would require 3,000 gpd. Additionally, the field investigation found that the tank with tilapia required an additional 3,000 gpd. Assuming the needs of the few livestock does not exceed 1,000 gpd, the justified need under existing conditions would be about 7,000 gpd.

The second issue is that part of the request is for future uses for Kaio Flowers I & II. The total acreage of these future uses will be about another 0.5 acre for various floriculture. Under the Oahu Water Management Plan this future need would require an additional 3,700 gpd. Since this is such a small use, staff does not see a reason to deny the applicant's request but rather suggests deferral on the future use portion until existing uses are established in the area.

RECOMMENDATION

Staff recommends:

1. For all approved water use permits, that the Commission add the special condition that the applicants may continue their existing use of ground water within the limits approved by the Commission, and the actual issuance for the interim permit shall not be a reason to interrupt their existing uses.

2. That the Commission approve the issuance of interim water use permits to the Estate of James Campbell for the reasonable and beneficial existing salt water aquacultural needs according to Table 2 and their corresponding described uses subject to the standard water use permit conditions listed in Attachment B.

3. That the Commission approve the issuance of interim water use permits to the Estate of James Campbell for the reasonable and beneficial existing needs according to Table 3 and their corresponding described uses subject to the standard water use permit conditions listed in Attachment B.

4. That the Commission approve the issuance of interim water use permits to the Honolulu Board of Water Supply for the reasonable and beneficial existing municipal uses according to Table 4, subject to the standard water use permit conditions listed in Attachment B.

5. That the Commission approve the issuance of an interim water use permit to Hanohano Enterprises, Inc. for the reasonable and beneficial use of 432,000 gallons per day of potable water for aquaculture over 12 acres from the Hanohano Well (Well No. 3553-01), subject to the standard water use permit conditions listed in Attachment B and the following special condition:

a. Should the applicant provide written evidence that the County DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption-approved project within the Commission-approved water use permit limits under recommendation 2.
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6. That the Commission defer action on the water use permit application for George N. Nihipali, Jr. for the Nihipali Well (Well No. 3855-12).

7. That the Commission approve the issuance of an interim water use permit to Jacob I. Kaio, Sr. for the reasonable and beneficial use of 2,000 gallons per day of potable water for agricultural irrigation from the Kaio Artesian Well (Well No. 3956-07), subject to the standard water use permit conditions listed in Attachment B and the following special condition:

b. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

Respectfully submitted,

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL:

KEITH W. AHUE, Chairperson
WATER USE PERMIT DETAILED INFORMATION

Source Information

Aquifer:
Sustainable Yield: Koolauloa System, Windward Sector, Oahu
Existing Water Use Permits: 35 mgd
Available Allocation: 0.323 mgd
Total of other pending allocations: 34.677 mgd

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<td>6</td>
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<td>4107-06</td>
<td>USFU 2</td>
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<td>290</td>
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</tr>
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<td>4107-07</td>
<td>USFU 3</td>
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<td>290</td>
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<td>-73</td>
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<td>4157-10</td>
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<td>-73</td>
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<tr>
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<td>60</td>
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<td>4157-13</td>
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<td>1943</td>
<td>252</td>
<td>62</td>
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<td>4159-01</td>
<td>PUMP 2</td>
<td>1976</td>
<td>176</td>
<td>6</td>
</tr>
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<td>4159-02</td>
<td>KAHULU NAPANO (ARMY)</td>
<td>1976</td>
<td>234</td>
<td>6</td>
</tr>
<tr>
<td>4257-01</td>
<td>PACIFIC SEA</td>
<td>1984</td>
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<td>11</td>
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<td>4257-02</td>
<td>PACIFIC SEA</td>
<td>1985</td>
<td>137</td>
<td>10</td>
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<td>4258-05</td>
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<td>1976</td>
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<td>4258-08</td>
<td>AMOR RCA SALT 1</td>
<td>1980</td>
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<td>4258-12</td>
<td>AMOR PACT SALT 1</td>
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<td>4258-14</td>
<td>AMOR RCA SALT 2</td>
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<td>100</td>
<td>-20</td>
</tr>
</tbody>
</table>
Use Information

See Exhibit 3 for individual applications use descriptions.

Nearby Surrounding Wells and Other Registered Ground Water Use

Information from the registration program indicates there are possibly 84 existing wells in the Koolauloa Aquifer System. Several of these wells have been initially field checked but many of the declarants, including the larger users, have not been completely field verified. Several are not in use or are rights claims. However, the Oahu Water Management Plan estimated that the existing withdrawals from the Koolauloa Aquifer System is 13.6 mgd as of 1990.

See attached exhibits as referenced from following table.

Public Notice

See Exhibit 1.

Objections

Specific objections or comments are identified under analysis and issues portion of this submittal. The public notice specifies that an objector meet the following requirements: (1) state property or other interest in the matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; (3) state all grounds for objections to the proposed permits, (4) provide a copy of the objection letter(s) to the applicant, and (5) submit objections meeting the previous requirements to the Commission according to Exhibit 1. General objections from the Native Hawaiian Advisory Council are listed in Attachment C.

Briefs in Support

Responses to objections, or briefs in support, regarding the application are required to be filed with the Commission ten (-10) days after an objection is filed and, presumably, copies are served to the applicant. No briefs in support were filed with the Commission. The following briefs in support are summarized as follows:

Field Investigation

See Exhibit 4.
STANDARD WATER USE PERMIT CONDITIONS

1. The ground water described in the water use permit may only be taken from the location described, used for the reasonable-beneficial use described, and at the location described above and in the attachments. Reasonable-beneficial use means "the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest." (HAR §13-171-2).

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HAR §13-171-13 which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in section §13-171-2;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with state and county general plans and land use designations;
   f. Is consistent with county land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and 174C-101(a), HRS.

4. The ground water use approved must not interfere with surface or ground water rights or reservations.

5. The ground water use approved must not interfere with interim or permanent instream flow standards or policies as determined by the Commission. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use permit is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and staff submittal approved by the Commission at its December 8, 1993 meeting are incorporated into the permit by reference.

8. Any modification of the permit terms, conditions, or uses can only be made with the express written consent of the Commission on Water Resource Management.

9. The water use permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect water sources in quantity, quality, or both;
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June 1987, shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Homes, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.
Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure withdrawals and a monthly record of withdrawals, water-levels, salinity, and temperature must be kept and reported to the Commission on a monthly basis in accordance the Commission’s September 16, 1992 action on reporting requirements;

12. The water use permit shall be subject to the Commission’s periodic review of the applicable aquifer’s sustainable yield. The amount of ground water use authorized by the permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer, is reduced;

13. The water use permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HAR §13-171-25 and the requirements of Chapter 174C, the Commission has the authority to allow the transfer of the permit and the use rights granted by the permit in a manner consistent with HAR §13-171-25. Any such transfer shall only occur with the Commission’s prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

14. The use(s) authorized by law and by the water use permit do not constitute ownership rights.

15. The permittee shall comply with all applicable laws, rules, ordinances, and other agencies’ permits and conditions pertaining to water use or the water resource.

16. The permittee shall prepare and submit a water shortage plan within 30 days of issuance of the permit to assist the Commission in fulfilling HAR §13-171-42(c). The permittee’s water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground Water Management Area.

17. The water use permit granted shall be an interim water use permit, pursuant to HAR §13-171-21. The final determination of the water use quantity shall be made within five years of the filing of the application to continue the existing use.

18. The water use permit shall be issued only after AG review.

19. The water use permit shall be subject to the Commission’s establishment of instream standards and policies to Stream Protection and Management (SPAM), as well as legislative mandates to protect stream resources.
MEMORANDUM

TO: Rae M. Loui, Deputy Director

FROM: David L. Martin, Water Project Manager
       Native Hawaiian Advisory Council


DATE: November 26, 1993

NHAC hereby requests additional information from COWRM and the Board of Water Supply (BWS) explaining various sections of the Board's water use permit applications. These sections include 1(b) Landowner, 8 Quantity of Water Requested, and 15(a) Impact on sustainable yield.

1(b) LANDOWNER - Please provide a list of subject BWS well sites which were obtained from State lands via executive orders including the title status of those State lands.

8 QUANTITY OF WATER REQUESTED - Please provide information showing the amount of water quantity requested in relation to the 12 month moving average and the 5 year average use.

15(a) IMPACT ON SUSTAINABLE YIELD - Please provide information comparing the total existing, planned and proposed uses of water with the sustainable yield of each aquifer.

Please note that I have attached all memoranda forms dated October 27, 1993 covering BWS's permit applications. At this point I am unable to complete a review of these applications without additional information, therefore I am requesting an extended review period. Your immediate attention with this matter is appreciated, I await your response.

ATTACHMENT C
1993 November 26

TO: State of Hawaii Commission on Water Resource Management

SUBJECT: COMMENTS AND OBJECTIONS RE: WATER USE PERMIT APPLICATIONS WAIMANALO, KOOLAUPOKO, KAHANA, AND KOOLAULOA GROUND WATER MANAGEMENT AREAS

Public Notice Undated, Published November 3 & 10, 1993
Send written objections by November 26, 1993

I. COMMENTS

a. Hanchano Well No. 3553-01

4. SOURCE TYPE is not indicated.

10. PROPOSED USE: Irrigation is not indicated.

14. POTENTIAL RESTRICTIONS ON WATER USE:

(e) Other: Since COWRM may only allocate water to projects which have received the necessary land use, county, and community plan approvals, the application form should include a table allowing applicants to illustrate their degree of compliance with these requirements.

15. REMARKS, EXPLANATIONS: A table illustrating the estimated breakdown between quantities of existing and new water use among agriculture, aquaculture, and domestic should be provided.

TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

The final column, "% OF TOTAL TO BE USED OVER NEXT 4 YEARS," should be revised for accuracy.

b. BWS Applications

7.(c) County Zoning is not described.

10. QUALITY OF WATER REQUESTED: Potable is not indicated on some applications.

11. PROPOSED USE: Municipal is not indicated.

12. NUMBER AND TYPE OF UNITS TO BE SERVED: Statistics for the Windward Oahu System should be given.
II. OBJECTIONS

Native Hawaiian Advisory Council, Inc. (NHAC) represents persons with property interests in lands within the hydrologic units of the sources of water supply and/or who will be directly and immediately affected by the proposed water uses. Furthermore, NHAC advocates the enforcement of constitutional, statutory, and common laws which require consideration and accommodation of various appurtenant, riparian, correlative, and Hawaiian water rights, as well as other Hawaiian rights, in the Water Commission's (COWRM) allocation process. Under the public trust doctrine imposed upon Hawaii water law by the State Constitution, common law, and judicial precedent, water resources are owned by the public. Thus all people have property interests in all water sources and may be admitted to any and all proceedings involving their disposition, regulation, and management.

a. The following table identifies selected NHAC clients with property and other interests (distinct from those of the general public) in the subject water management areas on whose behalf subsequent general and specific objections are filed. NHAC reserves the rights to amend this table to later include other affected clients.

<table>
<thead>
<tr>
<th>NAME</th>
<th>TMK#:</th>
<th>WATER SOURCE</th>
<th>WATER USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hashi, David</td>
<td>4-2-035-022</td>
<td>Waimanalo well</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Fuller, William</td>
<td>4-1-010-048</td>
<td>Waimanalo stream</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Kamanu, John</td>
<td>4-2-062-024</td>
<td>Waimanalo basal</td>
<td>Irrigation</td>
</tr>
<tr>
<td>George, Keith</td>
<td>5-5-002-000</td>
<td>Waimanalo well</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Beirne Ohana</td>
<td>5-2-002-001</td>
<td>Kahana stream</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Gorai, Kapiolani</td>
<td>5-2-002-001</td>
<td>Kahana stream</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Wong, Clifford</td>
<td>4-7-027-015</td>
<td>Koolaupoko stream</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Featheran, George and Pearl</td>
<td>4-7-006-003</td>
<td>Koolaupoko stream</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Name</td>
<td>Application Number</td>
<td>Water Use Description</td>
<td>Irrigation Type</td>
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<tr>
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</tr>
<tr>
<td>Kaopua, Ida</td>
<td>4-7-0015-008</td>
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<td>Hall, Rachel</td>
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<td>Irrigation</td>
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<td>Aea, Samuel</td>
<td>4-7-033-010</td>
<td>Koolauloa dike-confined</td>
<td>Irrigation</td>
</tr>
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<td>Koolauloa well, spring</td>
<td>Irrigation</td>
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<tr>
<td>Trevenen, Glennon</td>
<td>5-3-011-006</td>
<td>Koolauloa stream</td>
<td>Irrigation</td>
</tr>
</tbody>
</table>

**b. General Objections to All Permit Applications**

1. **Property or Other Interest in the Matter**
   
   Refer to Table in II.a. above.

2. **Questions to which Objections are Taken**

   (a) **Questions of Procedure**

   NHAC objects to COWRM's apparent plan to process water use permits applications on a first-come, first-served basis. In order to fulfill the legislative intent of water management area designation, a comprehensive view of existing, planned, and proposed water uses and water rights in each hydrologic unit is required. COWRM should merely collect applications during the one year post-designation application period. Then after the application period is closed, and surveys of water rights and reserved water uses are completed, COWRM can assess and evaluate each permit application with regard to competing applications for existing and new uses; reserved, declared, and certified water uses; instream flow standards; water rights; and the overall water situation in each hydrologic unit. Without such a process, COWRM will not be able to meet Water Code requirements for evaluating competing uses within the frameworks of the "reasonable and beneficial" standard, "Public interest," and other legally-imposed constraints.

   In response to COWRM's letter of November 17, 1992, we further studied Hawaii Administrative Rules (HAR) Title 13, Chapter 171 and still find no explicit or implicit language supporting your contention that processing water use permits as we suggest is inconsistent with these rules or would require rulemaking. NHAC attended "... numerous Commission presentations and workshops on existing WMAs and the newly designated WMAs at which we [COWRM]
presented and provided various handouts which show the WUPA processing procedure" (emphasis added). To our knowledge COWRM never formally adopted as policy any of the various procedures it now employs in water use permit application processing. The rules are vague, ambiguous, and incomplete - in this context it seems that COWRM creation of different policies for different WMAs is inappropriate. It seems that hearings are required to discuss clarification and of the rules and unification of the policies.

Two distinct classes of WMAs will emerge if COWRM proceeds on a first-come, first-served basis in some WMAs and with a comprehensive management review of all uses and applications in other WMAs. In the first case, determination of whether competing WUPAs exceed the available supply becomes a second tier of the designation process. NHAC believes such a management regime requires rulemaking. Granting WUPAs on a first-come, first-served basis circumvents a number of the conditions for Water Use Permit issuance, particularly if specific reservations for Hawaiian Homelands beneficiaries are not previously implemented and allocations to county boards of water supply for municipal purposes are not established.

While NHAC recognizes there is a rule that COWRM act upon permit applications within 90 or 180 days [HAR 13-171-19(c)] we do not see this as a constraint to the approach we are suggesting. COWRM records over the last six years shows that "action" includes deferral of decision making until information needs are met, as well as categorization of applications to facilitate future decision making.

(b) Questions of Fact

The permit application information distributed by COWRM for comment should also include the results of COWRM's field verification of declared water uses and should compare the quantity of water requested with the current 12 month moving average and the post-Water Code long-term (about 6 year) average water use. It should also show how total applicant existing, planned, and proposed water uses in the subject WMA compare with overall WMA totals and with sustainable yield. This factual information is critical in comprehensively evaluating reasonable and beneficial use and public interest in the WMA. This information, which is usually not presented by COWRM until the decision-making stage of the process, must be available earlier so that public comment and objection can take it into account.

(c) Questions of Law

COWRM appears not to be in compliance with HAR 13-171-11(b), which implies that COWRM will determine water supply allocated to the county boards of water supply in each water management area. These gross allocations to the counties, as well as gross reservations to
Hawaiian Home Lands (required under Act 325), must be defined prior to any new water use permitting to other parties.

In a previous response to this objection, COWRM (March 3, 1993) stated that "... allocations granted to the county water systems generally allow the county departments of water supply to distribute water within their system and within the limits imposed by allocation. This does not imply that the Commission will or must determine the final and gross water amounts to be allocated to the county water supplies." This reasoning seems confused - if COWRM is the agency responsible for "the limits imposed by allocation," then it should "determine the final and gross water amounts to be allocated to county water supplies."

Further analysis of HAR 13-171 reveals that:

1. Permit applications for existing uses only compete with other permit applications for existing uses [HAR 13-171-14(c)].

2. Competition between permit applications for existing uses is subject to public hearing requirements [HAR 13-171-14(c)], while competition between permit applications for new uses is not (HAR 13-171-16). For existing uses, the allocation between competing applications is determined via the hearing, while for new uses the allocation seems to be subject to dispute resolution and public interest balancing tests. The rules are silent about competition between permit applications for existing uses, new uses, declared uses, certified uses, water reservations, and instream flows.

3. Existing uses are assumed reasonable if less than 25,000 gallons per month. If more than 25,000, it is still reasonable and beneficial if no objections are filed [HAR 13-171-14(b)], but is subject to public hearing if objections are raised. Reasonable and beneficial is only one of the 6 things the applicant must establish under HAR 13-171-13, which all apply equally to existing and new users.

4. There appear to be no guidelines for reasonable and beneficial determinations of new uses, no requirements for public hearing regarding same, and no vehicle for requesting such public hearing. The existing rules do not appear to place any restrictions on simultaneous processing of applications for existing and new ground water uses, along with certification of declared surface water uses. They do not expressly disallow direct consideration of applications for existing ground water uses within the context of new ground water uses and declared surface water uses, even though some different procedures apply. The inclusion of "public interest" consistency requirements [HAR 13-171-13(4)] seems to give COWRM enough latitude for such processing, notwithstanding other intricacies of rule.
(d) Questions of Policy

1. Procedure

We have been repeatedly told by the Attorney General that water management area designation creates a "clean slate" and a "level playing field." As such, from the moment of designation we cannot consider any existing water use to be reasonable and beneficial or in the public interest until such determinations are formally made by the Water Commission.

The procedure being followed in Windward Oahu and Molokai WMA is inconsistent with that employed in Pearl Harbor WMA. This is confirmed in COWRM's letter of March 3, 1993 which explains that "In its February 17, 1993 decision regarding Molokai and Windward water use applications, the Commission on Water Resource Management will defer action on all new water use permit applications until July 1993" (implying that applications for existing uses will be processed first and separately). "In the Pearl Harbor area, the Commission is reviewing all currently filed requests together: existing, planned, and proposed uses." COWRM has not explained why the policies are different in different WMA.

Given the vagueness of the administrative rules governing the process, COWRM should provide a clear explanation for these differing policies. Also note that neither of the two procedures described above considers other issues water rights, water reservation, instream flow, and certification of declared surface water uses discussed on our objections. COWRM has not explained why these issues should not be comprehensively considered in ground water use permit application processing.

On March 3, 1993 COWRM also wrote that "... a survey of all water rights and reservation issues cannot be settled fairly or adequately within such a short time period. Because of this, the Commission plans to include conditions in water use permits which will expressly allow for quantity reduction in permits if and when it may be required."

The resolution of water rights and reservations and other issues must not be held hostage to a perceived need to issue permits for existing water uses. Now is the proper stage in the process for examining trade-offs between existing ground water uses, water rights, water reservations, surface water uses, instream flows, and streamflow restoration. To further postpone such examination merely continues the entrenched water allocation policies that the Water Code seeks to avoid, and unnecessarily multiplies the number of proceedings which must be held in the future to deliberate downsizing of existing uses to accommodate new uses.
2. Public Notice

We question if all water use declarants, water source registrants, and water use permit applicants in the affected areas have been served direct notice of the pending applications and the deadline for filing objections? Without such notice, these persons cannot be expected to have timely knowledge of pending applications, much less file timely objections. The Water Commission, through its Nakata Subcommittee, has acknowledged this reality and recommended implementation of a process for direct notification of affected parties.

In previously responding to similar concerns, Rae M. Loui wrote on August 12, 1993 that "The Nakata subcommittee did not recommend notices be sent to all nearby declarants." We recall that the subcommittee did recommend that registries of declarants placed in various categories be maintained, and reason that a logical cause of the need for such maintenance is to allow the Commission to easily identify declarants using and/or claiming interests in various water sources. Once declarants are identified, it is only fair that they be directly notified of proposed actions potentially affecting their interests.

Mrs. Loui also wrote that "... given the 200+ permits we have pending and the lack of computer programming to easily identify nearby declarants, it would be unmanageable." "These are my thoughts only and do not represent the policy of the Commission."

With regard to the 200+ permits, in many cases numerous permit applications have been filed by a single applicant in a single water management area, so that individual notices for each of these numerous applications could be combined into a single notice. Also, if COWRM would adopt our recommendation for a finite, repeating application window, notification tasks would be more easily accomplished.

COWRM's existing WATRDAT database has the capability to be programmed to easily identify nearby declarants. The major task remaining is to allow sorting and cross-indexing (ground & surface water) of records by water source rather than by declarant name or THK number. NHAC rejects COWRM arguments that the notification requirements we recommend are "unmanageable," and suggest that COWRM place a high priority on implementing the necessary computer programming, preferably of a type which allows integration with the State GIS framework. NHAC is available to assist with this work.
3. Public Comment and Objection

There are persistent ambiguities and inconsistencies concerning the procedures and deadlines for filing comments on and objections to water use permit applications which must be resolved in order to institute a clear and fair process.

a. HAR 13-171-18

(a) "Within ten working days after the last public notice of the pending permit application, a party may file with the commission, written objections to the proposed permit and a brief in support of such objections."

This implies that in order to be valid, objections must be received at COWRM on or before the tenth working day after the last public notice.

"Such party shall serve copies of the objections and brief upon the applicant."

This does not specify when the applicant must be served.

(d) "The support brief shall:
(1) Answer specifically the points of procedure, fact, law, or policy to which objections were taken; and
(2) State the facts and reasons why the permit should be approved."

This conflicts with (a), which implies that briefs are to be written in support of objections, not in support of applications [as suggested in (d)].

b. Public Notice

The standard Public Notice of water use permit applications directs that interested persons "Send written objections by" a specific date (the tenth day after the last public notice) to COWRM and the applicant. This implies that objections should exhibit a postmark or other evidence of being "sent" on or before that date.

c. COWRM Review and Comment Solicitation

The standard memorandum circulated by COWRM with water use permit applications requests ("please") that a form indicating the level of review of the application be returned by a specific date (ten working days after the last public notice), implying that the form should be received at the COWRM office on or before that date. While the form has a space for indicating "no objections,", it has no space for indicating "Objections attached."
This form does not appear to be the subject of any rule, nor does it appear to establish a strict deadline for returning the form. In particular, it allows a reviewer to request additional information and an extended review period for a particular water use permit application. In practice, COWRM could receive a form requesting additional information and an extended review period on the same day that the Public Notice established as the deadline for sending (evidenced by postmark or other evidence of initiating transmittal) objections and that HAR established as the deadline for filing objections at COWRM (evidenced by receipt at COWRM). Yet there appear to be no COWRM procedures for responding to requests for extended review, much less for notifying applicants and other interested parties if these requests are indeed granted.

3. Regulatory and Management Coordination

We are increasingly concerned about the lack of clear guidelines for timing, sequencing, and coordinating COWRM permitting processes with environmental review processes conducted under other authorities (including HRS 343, BLNR Conservation District Use permitting, DOH 401 and NPDES, and County grading and drainage ordinances).

(3) Grounds for Objections to Proposed Permits

As evidenced by the above discussions, proposed permits should be deferred until the conclusion of public hearings because:

1. COWRM procedure for processing the permit applications is not in compliance with the Water Code and its Administrative Rules.

2. COWRM has not provided adequate factual background for public review of, comment upon, and objection to the proposed permits.

3. Laws governing permit application processing are vague, contradictory, and incomplete.

4. COWRM policy governing permit application processing is vague, contradictory, inconsistent, incomplete, and excessively informal.

5. Current COWRM policy and procedure does not promote or allow for comprehensive, conjunctive, and concurrent processing of water use permit applications, water use declarations, instream flow standard and sustainable yield concerns, and water rights and water reservation issues.
c. General Objections to BWS Permit Applications

(1) Property or Other Interest in the Matter
Refer to Table in II.a. above.

(2) Questions to which Objections are Taken

(a) Questions of Procedure
Refer to b.(2)(a) above.

The procedure employed in processing this batch of BWS permit applications is inexplicably different from that previously employed in Pearl Harbor GWMA. COWRM has a duty to coordinate ground water use permitting with surface water use certification, instream flow standard and sustainable yield reevaluation, and water rights and water reservation determinations.

(b) Questions of Fact
Refer to b. (2)(b) above.

Permit application line 1.(b) consistently indicates BWS as "LANDOWNER OF SOURCE." It has been common procedure for BWS to acquire well sites through set aside of State lands by executive order. NHAC has requested in a separate letter that additional information on the title history of each well site be provided so that we can determine which well sites occupy ceded lands.

(c) Questions of Law
Refer to b.(2)(c) above.

NHAC alleges that the practice of transferring ceded lands to BWS by executive order subverts and circumvents the water licensing requirements of HRS, in some cases avoiding necessary compensation to the Hawaiian Homes Commission and Office of Hawaiian Affairs for use of ceded lands trust resources.

(d) Questions of Policy
Refer to b. (2)(d) and c. (2)(b) above.

(3) Grounds for Objections to Proposed Permits

1. All of the subject BWS applications indicate on line 15(c) that applicant does not know if its existing uses affect Hawaiian Home Lands uses. Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(5) and will not affect Hawaiian Home Lands uses.
Thus COWRM may not issue permits until public hearings are held to determine what portion, if any, of existing BWS uses should be abandoned in favor of Hawaiian Home Lands uses.

2. All of the subject BWS applications fail to describe potential restrictions on use arising from effects on future legal uses such as planned agricultural uses and activation of uses guaranteed by appurtenant, riparian, and correlative water rights. Therefore applicant has not established that these proposed uses of water conform with HAR 13-171-13 (1), (2), and (4)-(6), and COWRM may not issue permits until public hearings are held to determine what portion, if any, of existing BWS uses should be abandoned in favor of future legal uses.

3. All of the subject BWS applications indicate on Line 15.(a) that "Impact on Sustainable yield" is that of an "Existing use." Existing uses do impact sustainable yield characteristics, notably the lowering of equilibrium head arising from increased sustainable yield. Because of the "clean slate" and "level playing field" effect of designation, COWRM may not issue water use permits until public hearings are held to assess the impacts of changes in sustainable yield upon equilibrium heads and localized water levels, and to determine what portion, if any, of existing BWS uses should be abandoned in favor of lowering sustainable yields.

4. Any number of the subject BWS applications may involve water sources sited on ceded lands that were transferred by executive order from the State to BWS. Wherever this is the case, COWRM may not issue water use permits until public hearings are held concerning the avoidance of water licensing requirements and lack of County compensation to the Hawaiian Homes Commission and OHA for its use and extraction of ceded lands trust resources.

5. None of the subject BWS applications indicate how total existing, planned, and proposed BWS uses compare with other existing, planned, and proposed uses and sustainable yields. Such information is critical to complete and fair assessment of compliance with water use permit conditions set forth in HAR 13-171-13. Thus COWRM may not issue permits until hearings are held to determine the overall water use permit application and planning situation for each aquifer, and to assess what shares of their sustainable yields could be allocated to BWS and other major water users.

d. Specific Objections to Specific Applications

(1) Property or Other Interest in the Matter

Refer to Table in II.a. above.
(2) Questions to which Objections are Taken

(a) Questions of Procedure
Refer to b. and c.(2)(a) above.

(b) Questions of Fact
Refer to b. and c.(2)(b) above.

WAIMANALO TUNNELS

We believe that portions of the tunnels may be situated on and/or underly Hawaiian Home Lands. We are not aware of any agreements between BWS and HHC governing BWS use of the sites and resources.

WAIHEE WELLS

Line 16 of the application states that the well "Has not operated since court mandated flow of 2.7 MGC in Waihee Stream under appeal." This contradicts Line 15(a) of the application and the Public Notice which indicate existing use. When exactly did use of this source cease?

(c) Questions of Law
Refer to b. and c.(2)(c) above.

(d) Questions of Policy
Refer to b. and c.(2)(d) above.

(3) Grounds for Objections to Proposed Permits

1. In Ko'olaupoko GWMA, the following BWS applications indicate on line 15.(b) that BWS existing uses affect instream flow standards:

Luluku Tunnel, Haiku Tunnel, Haiku Well, Kahaluu Tunnel, Waihee Tunnel, Waihee Inclined Wells, Waihee Wells.

Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(4), and COWRM may not issue water use permits until public hearings are held to determine what portions, if any, of existing BWS uses should be restored to instream flows.
2. In Koʻolaupoko GWMA, the following BWS applications indicate on line 15.(d) that BWS existing uses affect other existing legal uses:

Haiku Tunnel, Waihee Tunnel, Waihee Inclined Wells, Waihee Wells.

The following BWS applications indicate on line 15.(d) that applicant does not know if BWS existing uses affect other existing legal uses:

Luluku Tunnel.

Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(4), and COWRM may not issue water use permits until public hearings are held to determine what portions, if any, of existing BWS uses should be abandoned in favor of other existing legal uses.

3. If portions of the Waimanalo tunnels are sited on or underlay Hawaiian Home Lands, and no agreements exist between BWS and HHL concerning site use and resource extraction, then a water use permit should not be issued until public hearings are held and the land use situation is resolved.

4. If Waihee Wells has not been used since the 1989 deadline for filing declarations of water use, a water use permit may not be issued until the application has been reprocessed as an application for a new use.

III. SUMMARY

While COWRM, staff, and the public have participated in discussions about water use permit application processing, there have been no formal declarations of COWRM permit application processing policy, and different procedures are being applied in different WMAs. It appears that COWRM staff and NHAC are advocating different interpretations of the Administrative Rules governing the water use permitting process, and that public hearings are needed to help the Commissioners decide what kind of interpretation best serves the purposes of the Water Code and the public interest.

We therefore state our overall objection to current COWRM procedures and policies regarding water use permit issuance, in a large part because they do not yet exist. We reserve the right to submit additional specific objections to specific permit applications at later dates, since present information about the overall water management context of such permit applications is insufficient for allowing comprehensive, fair assessments.
NHAC requests that COWRM postpone decision-making on all water use permit applications for the subject Water Management Areas until:

1) public hearings about COWRM procedure and policy in processing water use permit applications are concluded and administrative rules governing these processes are revised;

2) necessary assessments of water rights, reserved water uses, surface water uses, and instream flow standards have been completed;

3) these assessments, issuance of water use permits, and certification of declared water uses are woven into an integrated water management decision-making process.

We must implement water use permit application processing methodologies that avoid the continuation of first-come, first-serve permitting. First-come, first-serve water use permit processing contradicts the very heart of the intent of water management area designation. It negates COWRM's effort to involve the community in the water allocation process because it diffuses rather than concentrates the arena of public participation. We cannot have comprehensive water resource management without comprehensive evaluation of water use scenarios.

A finite repeating application period for water management area allocations should be established, after which all applications received in each period can be comprehensively reviewed by a Windward Working Group and COWRM staff for processing recommendations.

NHAC requests that a Windward Working Group be formed similar to the Molokai Working Group in order to recommend reforms to the current piece-meal process of establishing reasonable and beneficial use and resolutions of public interest balancing tests for Windward water.

When existing surface water users have not even been afforded the opportunity to obtain certification, it is extremely unfair for new and existing groundwater uses to have permit applications processed and permits issued (permits which are solid allocations of water and recognition of rights to use that water) when people who have surface and instream uses aren't under designation, are not field verified (so the Commission has no baseline data on what these uses and instream flows might be that they're supposed to protect), and there is no certificate of "reasonable and beneficial" water use. A declaration of water use is an application for certification. One should be able to obtain and use certification in playing off against water use permit applications for groundwater because it is acknowledged in the Code that a certificate does have some meaning and it is something that one should be presenting when getting into a dispute or even a legal battle over water.
At the very least there needs to be some kind of concurrent processing of water use permit applications and declared uses of surface waters. It should be done in a comprehensive way so that everything is on the table at once, even though the specific processes, approvals, and permits are different.

NHAC also supports and concurs with objections filed by Charles Reppun and windward Neighborhood Boards.

Mahalo,

[Signature]

David L. Martin, Water Claims Manager

pc: Honolulu Board of Water Supply
    Kahana Valley State Park
    Kualoa Ranch, Inc.
    Hanohano Enterprises, Inc.
### Water Use Permit Application Notice Status Report 12/01/93

**Island of Oahu**

**Aquifer System: KOOLAUOLA**

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**Note:** The table above lists water use permit application notices for various properties and wells in Oahu, Hawaii, with dates and statuses provided. The entries include well names, existing or proposed status, and notice statuses as of December 1, 1993.
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67 Applications Totaling 67.429

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67 Applications Totaling 67.429
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**Notes:**
- WELL USE: "Y" indicates water use.
- PHONE: Contact phone number.
- CONTACT PERSON: Contact person name.
- AGENDA: Number of days field investigated.
- ACTION & REPORT PAI: Action and report number.

**EXHIBIT 4**

**PENDING WATER USE PERMIT APPLICATIONS FIELD INVESTIGATION STATUS REPORT**

**12/01/93**

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65 Applications
INDEX KEY TO USE (6/93)

FRESH WATER WELLS
- BLUE -- IN USE
- GREEN -- NOT IN USE

SALT WATER WELLS
- PURPLE -- IN USE
- BROWN -- USED AS BACKUP
- YELLOW -- NOT IN USE
BWS PUMPAGE - PUNALUU WELLS III
WELL NOS. 3453-06,07

MONTHLY VALUES -- 12-MAV -- REQUESTED AMOUNT

MONTH (Latest Data 9/93)
Well No. 3553-03,04,06 to 08
BWS PUMPAGE - PUNALUU WELLS II
WELL NOS. 3553-03 TO 08; 3554-03

MONTHLY VALUES
- 12-MAV
+ REQUESTED AMOUNT

MONTH (Latest Data 9/93)
CAMPBELL ESTATE PUMPAGE
MALAEKAHANA WELL (Well No. 3956-01)

MONTHLY VALUES
- 12-MAV
- REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
PUMP 6 (Well No. 3957-07)

Month (Latest Data 10/93)

Pumpage (mgd)

0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

JUL 92
JAN 93
JUL 93

MONTHLY VALUES
12-MAV
REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
KAWANANAKOA (Well No. 4056-01)

MONTHLY VALUES

REQUESTED AMOUNT

Month (Latest Data 8/93)

APR 93  MAY 93  JUN 93  JUL 93  AUG 93  SEP 93

Pumpage (mgd)
CAMPBELL ESTATE PUMPAGE  
PUMP 1 (Well No. 4057-01)
CAMPBELL ESTATE PUMPAGE
PUMP 12 (Well No. 4057-07)

MONTHLY VALUES
- 12-MAV
- REQUESTED AMOUNT

Pumpage (mgd)

JAN 92 JAN 93

Month (Latest Data 8/93)
Well No. 4057-11
CAMPBELL ESTATE PUMPAGE
SUGAR MILL PUMP (Well No. 4057-11)

Month (Latest Data 10/93)

Pumpage (mgd)

0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

JAN 92
JAN 93

MONTHLY VALUES
12-MAV
REQUESTED AMOUNT
BWS PUMPAGE - KAHUKU WELLS
Well Nos. 4057-15,16

[Graph showing monthly pumpage values from January 1988 to January 1993. The graph includes three lines:
- Dotted line labeled "MONTHLY VALUES"
- Solid line labeled "12-MAV"
- Dashed line labeled "REQUESTED AMOUNT"
]
Well No. 4100-01
CAMPBELL ESTATE PUMPAGE
PALMER G.C. WELL (Well No. 4100-01)

MONTHLY VALUES
12-MAV
REQUESTED AMOUNT

Pumpage (mgd)

JAN 92 JAN 93
Month (Latest Data 10/93)
Well No. 4101-07

UNIT
PROJECT AREA

ISLAND OF OAHU
HYDROLOGIC UNITS

PROJECT AREA
Well No. 4159-01
CAMPBELL ESTATE PUMPAGE
PUMP 2 (Well No. 4159-01)

Month (Latest Data 10/93)

Pumpage (mgd)

MONTHLY VALUES — REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
PUNAMANO ARMY (Well No. 4159-02)

MONTHLY VALUES  12-MAV  REQUESTED AMOUNT

0  0.2  0.4  0.6  0.8  1  1.2  1.4  1.6
Pumpage (mgd)

JAN 92  JAN 93
Month (Latest Data 9/93)
1993 October 29

State of Hawaii
Commission on Water Resource Management

OBJECTIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS
Public Notice dated September 22, 1993
Send written objections by October 29, 1993

NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of who would be directly and immediately affected by the proposed water use.

GENERAL OBJECTIONS

We reiterate our general objections to current COWRM water use permit application processing and decisionmaking practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93).

In its last set of applications, Campbell Estate proposed to continue a total of 16.225 mgd of existing use from the basal aquifer, which climbs to 26.725 mgd with this application. However, the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.725 mgd of proposed use is about 51% of the 1992 revised sustainable yield of 35 mgd for the Koolauloa aquifer. Without better knowledge of existing, foreseeable, and potential competing applications for this yield, it is difficult to assess the propriety of allocating over 50% of aquifer yield to a single applicant. How many more applications have been/will be submitted by Campbell Estate for water from this aquifer? The whole picture should be up front before decision-making begins.
SPECIFIC OBJECTIONS

Wells 4158-12 & 13

The quantity requested seems high for only 18 homes and 3 office buildings. How does this compare with actual use as reported to the Water Commission?

All other wells (saltwater)

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of aquaculture wastewater effluent discharge upon water sources and water uses in the area. These water quality concerns should be listed in the applications as potential restrictions on use.

Mahalo,

David L. Martin, Water Claims Manager

pc: Campbell Estate
1993 October 29

State of Hawaii
Commission on Water Resource Management

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Public Notice dated September 22, 1993
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Mahalo,

David L. Martin, Water Claims Manager

pc: Campbell Estate
October 19, 1995

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Wilson:

Water Use and Pump Installation Permit Applications for
The Estate of James Campbell, Well No. 4258-10, Koolauloa, Oahu

Enclosed are comments from the Board of Water Supply (BWS) on the subject application. They were received after we transmitted Planning Department comments to you on October 11, 1995.

Should you have any questions, please call Eugene Takahashi at [redacted]

Sincerely,

CHERYL D. SOON
Chief Planning Officer

CDS:lh

Enclosure

cc: The Honorable Jeremy Harris, Mayor
(Mayor’s Control No. 24264)
October 11, 1995

TO: CHERYL D. SOON, CHIEF PLANNING OFFICER
   PLANNING DEPARTMENT

FROM: RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER
   BOARD OF WATER SUPPLY

SUBJECT: STATE WATER COMMISSION'S LETTER TO MAYOR JEREMY HARRIS
DATED SEPTEMBER 22, 1995 ON CAMPBELL KAHUKU CAPROCK WELL
(4258-10)

Because the well pumps salt water and does not affect fresh water resources, we have
no comments for or against the application.

If you have any questions, please contact Herbert H. Minakami at [redacted].
Mr. Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii

Dear Mr. Wilson:

Subject: Your Letter Dated September 22, 1995 on Campbell Kahuku Caprock Well (4258-10)

Because the well pumps salt water and does not affect fresh water resources, we have no comments for or against the application.

We return the cover memo form marked accordingly.

If you have any questions, please contact Herbert H. Minakami at

Very truly yours,

[Signature]

RAYMOND H. SATO  
Manager and Chief Engineer
TO: Honorable Kali Watson, Chairperson  
Department of Hawaiian Home Lands  
Honorable Lawrence Miike, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. Thomas Arizumi  
Honorable Clayton H. W. Hee, Chairperson  
Office of Hawaiian Affairs  
Honorable Patrick Onishi, Director  
Department of Land Utilization  
Honorable Cheryl D. Soon, Chief Planning Officer  
Planning Department  
Ms. Esther Ueda, Executive Officer  
Land Use Commission  
Mr. Raymond Sato, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT: Applications for Water Use and Pump Installation Permits  
Koolauloa Groundwater Management Area, Oahu

Transmitted for your review and comment are copies of applications for water use and pump installation permits for The Estate of James Campbell for Well No. 4258-10. Public notice of the water use permit application will be published in the Honolulu Star Bulletin issues of October 2, 1995 and October 9, 1995.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, or objectives specific to your organization or department only. Please respond by returning this cover memo form by October 23, 1995.

If you have any questions, require additional information, or would like to request an extension of the review period for these applications, please contact Lenore Nakama at

Attachment(s)

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority & permit  
( ) Comments attached

Contact Person: Herbert H. Minakami  
Phone:

Signed: Raymond Sato  
Date: 10/13/95

RAYMOND H. SATO  
Manager and Chief Engineer
October 11, 1995

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Wilson:

Water Use and Pump Installation Permit Applications for
The Estate of James Campbell, Well No. 4258-10, Koolauloa, Oahu

This is in response to your memorandum dated September 22, 1995. We have reviewed the subject applications and provide the comments below for your consideration.

- The parcel identified as Tax Map Key 5-6-02: 09 is designated Agriculture on the Koolauloa Development Plan Land Use Map. The proposed saltwater aquaculture operation is consistent with this designation.
- We have no objections to the subject applications.

Should you have any questions, please call Eugene Takahashi at [redacted].

Sincerely,

[Signature]

CHERYL D. SOON
Chief Planning Officer

CDS:lh

cc: Honorable Jeremy Harris, Mayor
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

   Dr. John C. Lewin, M.D., Director
   Department of Health

   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
       Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [phone number redacted].

Response: Contact person: [redacted] Phone: [redacted]

1. We have no comments
2. We have no objections
3. Comments attached
4. Additional information requested
5. Extended review period requested

Signed: [redacted] Date: 10/10/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy  

Dear Mr. Ahue:

We have received the following water permit applications. Thank you for the opportunity to review these applications:

<table>
<thead>
<tr>
<th>Applicant Name</th>
<th>Water Mgt.</th>
<th>Area</th>
<th>Amount Requested (gpd)</th>
<th>Tax Map</th>
<th>Well Number</th>
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<tr>
<td>Campbell Estate</td>
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<td>5-6-03:32</td>
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After careful review of the above water permit applications, we see with the gravest concern the recent proliferation of water permit applications. There is a pattern of filing multiple water permit applications which at the end add up to inordinate amounts of water. The above water permit applications filed by Campbell Estate support our concern. On September 24, 1993, Campbell Estate filed five water permit applications for a total of 18.6 mgd. At that time the Water Commission asked us to review these applications and our response was that OHA was truly concerned over the monopoly of a single user over more than one half of the sustainable yield of the Koolauloa aquifer (copy of letter attached). On September 29, 1993, Campbell Estate filed 12 more water permit applications for an additional amount of 26 mgd. So far, our records indicate that during the last five months or so, Campbell Estate has filed water permit applications for a total of 49 mgd. If granted all these water permits, the Campbell’s water withdrawals will: (i) exceed the sustainable yield of the Koolauloa aquifer by 14 mgd, (ii) be 49% of the sustainable yield for all windward aquifers, (iii) be 11% of the sustainable yield for all aquifers in Oahu, and (iv) be 27 times greater than the much publicized water reserves for the Department of Hawaiian Home Lands.

Overall, we foresee several adverse impacts on water availability if the Campbell’s water permits are granted. These are: (i) the sustainable yield of the aquifers in West Oahu will certainly be greatly affected by this sizable withdrawal, (ii) the access and sole use of half of West Oahu’s sustainable yield by one single user will preclude equal usage by other users, particularly native Hawaiians, and (iii) a monopoly on water use will likely lead to wastage and misuse. In view of the above concerns and the lack of regulatory mechanisms for water allocations, OHA strongly urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code.

Sincerely yours,

Clayton H.W. Hae
Chairperson

LM: jl
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
   Department of Health

Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at _______ or Lenore Nakama at _______.

Response: Contact person: Luis A. Menrique Phone: 

( ) We have no comments
( ) We have no objections
X Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: 10/18/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy

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Overall, we foresee several adverse impacts on water availability if the Campbell’s water permits are granted. These are: (i) the sustainable yield of the aquifers in West Oahu will certainly be greatly affected by this sizable withdrawal, (ii) the access and sole use of half of West Oahu’s sustainable yield by one single user will preclude equal usage by other users, particularly native Hawaiians, and (iii) a monopoly on water use will likely lead to wastage and misuse. In view of the above concerns and the lack of regulatory mechanisms for water allocations, OHA strongly urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code.

Sincerely yours,

Clayton H.W. Hae
Chairperson

LM:jl
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
    Department of Health

Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application
        Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [contact information] or Lenore Nakama at [contact information].

Response:

Contact person: [Signature]
Phone: [Phone number]

( ) We have no comments
( ) We have no objections
☑ Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature]
Date: 10/29/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy

Dear Mr. Ahue:

We have received the following water permit applications. Thank you for the opportunity to review these applications:

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Sincerely yours,

[Signature]

Chairperson

LM:jl

enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
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Dr. John C. Lewin, M.D., Director
    Department of Health

Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application
    Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information]

Attachments

Response: Contact person: Luis A. Henriques Phone: [Redacted]

( ) We have no comments
( ) We have no objections
X Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: 10/18/93
The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  
Attn: Ms. Rae Loui, Deputy

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Sincerely yours,

Clayton H.W. Hee
Chairperson

LM:jl
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
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Dr. John C. Lewin, M.D., Director
    Department of Health
Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs
Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application
    Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Redacted] or Lenore Nakama at [Redacted]

Attachments

Response: [Redacted]

Contact person: Luis A. Monrique
Phone: [Redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Redacted]
Date: 10/18/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy  

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Sincerely yours,

Clayton H.W. Hae
Chairperson

LM:jl
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
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Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted] or Lenore Nakama at [redacted]

Response: Contact person: Luis A. Menrique Phone: [redacted]

( ) We have no comments
( ) We have no objections
Q Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [redacted] Date: 10/10/93
October 22, 1993

The Honorable Keith W. Ahue
State of Hawaii
Department of Land and Natural Resources
Commission of Water Resource Management

Attn: Ms. Rae Loui, Deputy

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Hon. Keith W. Ahue  
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Sincerely yours,

[Signature]
Clayton H.W. Hae
Chairperson

LM:jl
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MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director Department of Hawaiian Home Lands
Dr. John C. Lewin, M.D., Director Department of Health
Mr. Clayton H. W. Hee, Chairperson Office of Hawaiian Affairs
Mr. Kazu Hayashida, Manager & Chief Engineer Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson Commission on Water Resource Management

SUBJECT: Water Use Permit Application Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at or Lenore Nakama at

Response: Contact person: Luis A. Mourigue Phone: 

() We have no comments
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() Comments attached
() Additional information requested
() Extended review period requested

Signed: Date: 10/18/93
October 22, 1993

The Honorable Keith W. Ahue
State of Hawaii
Department of Land and Natural Resources
Commission of Water Resource Management

Attn: Ms. Rae Loui, Deputy

Dear Mr. Ahue:

We have received the following water permit applications. Thank you for the opportunity to review these applications:

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Overall, we foresee several adverse impacts on water availability if the Campbell’s water permits are granted. These are: (i) the sustainable yield of the aquifers in West Oahu will certainly be greatly affected by this sizable withdrawal, (ii) the access and sole use of half of West Oahu’s sustainable yield by one single user will preclude equal usage by other users, particularly native Hawaiians, and (iii) a monopoly on water use will likely lead to wastage and misuse. In view of the above concerns and the lack of regulatory mechanisms for water allocations, OHA strongly urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code.

Sincerely yours,

Clayton H.W. Hee
Chairperson

LM:j1
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands
   Dr. John C. Lewin, M.D., Director
   Department of Health
   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs
   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson

SUBJECT: Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit
application for Campbell Estate for Well No. 4258-14. Public notice of this application
will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15,
1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy or Lenore Nakama.

Attachments

Response: Contact person: Luis A. Monique
Phone: _____________________________

( ) We have no comments
( ) We have no objections
X Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Luis O. Ahue Date: 10/18/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  
Attn: Ms. Rae Loui, Deputy

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Sincerely yours,

Clayton H.W. Kei
Chairperson

enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
   Department of Health

Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at 5 or Lenore Nakama at 6.

Attachments

Response: Contact person: Luis A. Marigue
           Phone: 

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Luis A. Marigue  Date: 10/10/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy  

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Hon. Keith W. Ahue  
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Sincerely yours,

Clayton R.W. Hēe  
Chairperson

LM:jl  
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
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   Dr. John C. Lewin, M.D., Director
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   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs
   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit
application for Campbell Estate for Well No. 4258-16. Public notice of this application
will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15,
1993.

We would appreciate your review of the attached application and please return
this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Signed: Date: 10/10/93

Response: Contact person: Phone:

( ) We have no comments
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Sincerely yours,

[Signature]
Chairperson

LM:jl
enclosure
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
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   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____________.

Response: Contact person: Luis A. Henriques Phone: ____________

( ) We have no comments
( ) We have no objections
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Signed: ____________ Date: ____________

LN: ky
Attachments
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<td>500,000</td>
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<td>5-6-03:161</td>
<td>4258-07</td>
</tr>
</tbody>
</table>
After careful review of the above water permit applications, we see with the gravest concern the recent proliferation of water permit applications. There is a pattern of filing multiple water permit applications which at the end add up to inordinate amounts of water. The above water permit applications filed by Campbell Estate support our concern. On September 24, 1993, Campbell Estate filed five water permit applications for a total of 18.6 mgd. At that time the Water Commission asked us to review these applications and our response was that OHA was truly concerned over the monopoly of a single user over more than one half of the sustainable yield of the Koolauloa aquifer (copy of letter attached). On September 29, 1993, Campbell Estate filed 12 more water permit applications for an additional amount of 26 mgd. So far, our records indicate that during the last five months or so, Campbell Estate has filed water permit applications for a total of 49 mgd. If granted all these water permits, the Campbell’s water withdrawals will: (i) exceed the sustainable yield of the Koolauloa aquifer by 14 mgd, (ii) be 49% of the sustainable yield for all windward aquifers, (iii) be 11% of the sustainable yield for all aquifers in Oahu, and (iv) be 27 times greater than the much publicized water reserves for the Department of Hawaiian Home Lands.

Overall, we foresee several adverse impacts on water availability if the Campbell’s water permits are granted. These are: (i) the sustainable yield of the aquifers in West Oahu will certainly be greatly affected by this sizable withdrawal, (ii) the access and sole use of half of West Oahu’s sustainable yield by one single user will preclude equal usage by other users, particularly native Hawaiians, and (iii) a monopoly on water use will likely lead to wastage and misuse. In view of the above concerns and the lack of regulatory mechanisms for water allocations, OHA strongly urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code.

Sincerely yours,

Clayton H.W. Hae
Chairperson

LM:j
enclosure
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

REF: CWRM-SS

SEP 22 1995

TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Milke, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. Thomas Arizumi

Honorable Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Honorable Patrick Onishi, Director
Department of Land Utilization

Honorable Cheryl D. Soon, Chief Planning Officer
Planning Department

Ms. Esther Ueda, Executive Officer
Land Use Commission

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Applications for Water Use and Pump Installation Permits
Koolauloa Groundwater Management Area, Oahu

Transmitted for your review and comment are copies of applications for water use and pump installation permits for The Estate of James Campbell for Well No. 4258-10. Public notice of the water use permit application will be published in the Honolulu Star Bulletin issues of October 2, 1995 and October 9, 1995.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, or objectives specific to your organization or department only. Please respond by returning this cover memo form by October 23, 1995.

If you have any questions, require additional information, or would like to request an extension of the review period for these applications, please contact Lenore Nakama at 521-3070.

Attachment(s)

Response: [Signature]

We have no objections
Not subject to our regulatory authority & permit
Comments attached

Contact Person: Lori N. Kajiwara

Signed: Lori N. Kajiwara

Date: 10-16-95

Approved

Property

File # 2481

No final inspection yet.
IWS DATA PROFILE --- COUNTY OF OAHU

TMK #: 5-06-002:009  FILE #:2484-

OWNER: SPENCER RICK
LOT LOCATION: KAM HWY KAHUKU
REMARK:

********** DATES **********
SUBMIT DATE: 08/09/93        PLAN APPROVAL DATE:  /  /
REVIEWED BY: FU               INSPECTION DATE:  /  /
SYSTEM APP'D DATE:  /  /

***** TECHNICAL DATA *****
TREATMENT TYPE: SEPTIC TANK      DISPOSAL Via: BED
USE FOR: 3 BEDROOMS             DESIGNED BY: NICHOLSON
PERCOLATION: 0 min/in           CAPACITY: 1100 gal.

PRESS ANY KEY TO CONTINUE.
Hawaiian Marine Enterprises Farm Site

LOT AREA = 10.1 ACRES

1/" = 100'-0"

This work was prepared by me or under my supervision.

LUIE ANDREW NICHOLSON
LICENSED PROFESSIONAL ENGINEER
HAWAI'I, U.S.A.

TWS DESIGN FOR: RICK SPENCER
54-1068 HAMEHANEHA HWY KAHUKU, OAHU.

SCALE: 1" = 100'-0"

NICHOLSON BUILDERS
CONSTRUCTION CONTRACTING
CIVIL ENGINEERING
59-603 AWAHINE PL HALEIWA, HI 96712

TMK #: 57-6-2-9-C
DRAWING NUMBER: SHT. S1
The Honorable Keith W. Ahue  
Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O'ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O'ahu and Moloka'i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Herbert H. Minakami Phone:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu Hayashida
Manager and Chief Engineer
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director  
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director  
Department of Health

Mr. Clayton H. W. Hee, Chairperson  
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer  
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson  
Commission on Water Resource Management

SUBJECT: Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Response: Contact person: Herbert H. Minakami  
Phone: [redacted]

( ) We have no comments
(8) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu HAYASHIDA  
Date: 10/19/93

Manager and Chief Engineer
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. John C. Lewin, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at...

Response: Contact person: Herbert H. Minakami
           Phone: ...

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu Hayashida
        Date: 10/14/93

KAZU HAYASHIDA
Manager and Chief Engineer
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. John C. Lewin, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Attachments

Response: Contact person: Herbert H. Minakami

( ) We have no comments

( ) We have no objections

( ) Comments attached

( ) Additional information requested

( ) Extended review period requested

Signed: Kazu Hayashida
Manager and Chief Engineer
MINUTES
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: October 27, 1993
TIME: 9:00 a.m.
PLACE: Board Room
Kalanikou Building

ROLL CALL: Chairperson Ahue called the meeting of the Commission on Water Resource Management to order at 9:06 a.m.

The following were in attendance:

MEMBERS: Mr. Keith Ahue
Mr. Richard Cox
Dr. John L. Lewin
Mr. Robert Nakata
Mr. Guy Fujimura

EXCUSED: Mr. Douglas Ing

STAFF:
Ms. Rae Loui
Mr. Edwin Sakoda
Mr. Roy Hardy
Ms. Lenore Nakama
Ms. Sharon Kokubun

OTHERS:
Cynthia Thielen
Barry Ching
Dave Martin
Sam Keala
Brenda Lumeng
John Mink
John Wei
Martha Black
Jim Anthony
Alwyn Morisako
Tom Nance
Bary Usagawa
Jack Hitchcock
Max Shoura
Neil Hulbert
Andrew Yanoviak
Edsel Yamada

All written testimonies submitted at the meeting are filed in the Commission office and are available for review by interested parties. Some items were taken out of sequence to accommodate requests by applicants or interested parties.

ITEM 1 OLD BUSINESS/ANNOUNCEMENTS
Ms. Loui announced that Agenda 3, Item 5 water use permit for Zions Security, was withdrawn per the applicant’s request.

ITEM 2 POAMOHO VENTURE, L.P., APPLICATION FOR A PUMP INSTALLATION PERMIT. POAMOHO A WELL (WELL NO. 3205-02), WAIALUA, OAHU

Unanimously approved (Nakata/Cox).
ITEM 3  DEFERRAL OF WATER USE PERMIT APPLICATIONS, WINDWARD OAHU GROUND WATER MANAGEMENT AREAS

Unanimously approved (Nakata/Cox).

ITEM 4  DUDLEY W.A. CHANG. APPLICATION FOR WATER USE PERMIT, KAHALUU WELL (WELL NO. 2750-09), KOOLAUPOKO GROUND WATER MANAGEMENT AREA, OAHU

Mr. Cox asked what the timeframe was for the completion of the review of applications for this area. Ms. Nakama said there are still quite a number of outstanding applications (mostly BWS) for which additional information was required and has just been received. These have gone out for public notice and should be scheduled within the next few months.

Discussion followed whereby the applicant explained that the well was dug in 1972 but was never used.

Ms. Nakama explained that because it was not in use at the time of designation, the applicant's request was being treated as a new use. Ms. Loui suggested an interim permit be approved so he can use the water.

Mr. Fujimura agreed that an interim permit could be issued as long as the applicant understands that it is an interim permit and the long term usage will be determined after all the applications have been reviewed and the existing uses are established.

Unanimously approved as amended as an interim permit (Fujimura/Cox).

ITEM 5  WATER USE PERMIT APPLICATIONS, KOOLAULOA GROUND WATER MANAGEMENT AREA, OAHU

Mr. Hardy reconfirmed that the Zions Security submittals were withdrawn per the applicant's request but requested the authority to hire a special master to address the concerns in regards to this applicant and other issues in this area. Ms. Loui added that the special master would be hired for fact-finding in view of the many issues surrounding this application and the need to sort out the facts. She requested two to three months for the fact-finding, after which initiation of a public hearing would be requested.

Dr. Jim Anthony supported the "appointment of a master who need not necessarily be an attorney".

The following was recommended by staff:

1)  **Campbell Estate Fresh and Salt Water Uses** - Action be deferred so for further evaluation of the aquacultural needs.

2)  **Campbell Estate Non-Existing Pumpage** - Deny without prejudice the non-existing uses for Wells Nos. 4258-06, 07, 10, 15, 16, & 17.

Unanimously approved as recommended by staff (Cox/Nakata).
ITEM 6  WELL CONSTRUCTION AND WATER USE PERMIT APPLICATIONS, EWA CAPROCK GROUND WATER MANAGEMENT AREA, OAHU

Mr. Barry Edwards, Vice President for Gentry Hawaii Ltd., noted that the wells were included in the Caprock Water Use Plans submitted to the Commission on May 4, 1990. A permit was secured earlier but was not constructed since they were not needed at that time.

Unanimously approved with the following amendments (Fujimura/Nakata):

1) Include amendments made to the Standard Conditions as approved in Agenda 2, Item 1

2) Deletion of staff Recommendation 2 to deny without prejudice the water use permits being requested.

3) Amended as follows:

"3. That the Commission approve the issuance of a well construction and water use permit until April 28, 1994 for the Geiger Apartment Well (Well No. 2001-04) and the Soda Creek III Well (Well No. 2001-04) for possible future use of irrigation water, ..."

ITEM 7  STATE OF HAWAII, DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF WATER AND LAND DEVELOPMENT, WATER USE PERMITS AND WELL CONSTRUCTION PERMITS APPLICATION, KAWAIHAPAI & MOKULEIA WELLS (WELL NOS. 3309-01 & 02), MOKULEIA GROUND WATER MANAGEMENT AREA, OAHU

Mr. Hardy added Special Condition 2b. requiring the addition of a 1" diameter galvanized pipe.

Unanimously approved as amended (Cox/Nakata).

ADJOURNMENT  The meeting was adjourned at 3:25 p.m.

Respectfully submitted,

SHARON S. KOKUBUN, Secretary

APPROVED AS SUBMITTED:

RAE M. LOUI
Deputy Director
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Water Use Permit Applications
Koolauloa Ground Water Management Area, Oahu

Applicant:
(Well Nos. 4258-06, 07, 10, & 15 to 17).
Campbell Estate

Landowner:
Same

(Zions Security Corp.
Property Reserves, Inc.

(Wells Nos. 3855-06 to 08, and 3956-03)
Laie Water Co.

BYU Hawaii Campus

(Well No. 3855-09)
Polynesian Cultural Center

The Islands Foundation

Background

Completed applications for water use permits in the Koolauloa Ground Water Management Area submitted to the Commission to date are shown in Exhibit 1. Specific information regarding the source, use, notification, objections, and field investigation(s) are described in Attachment A and the attached exhibits.

Analysis & Issues

Overall Koolauloa Ground Water Management Area Conditions

Exhibit 1 provides an update in the Koolauloa Ground Water Management Area for completed applications since the Commission's last action meeting on October 13, 1993 and the concern of an overpumpage situation. The sustainable yield of the Koolauloa Aquifer System is 35 million gallons per day (mgd). As of October 19, 1993 Exhibit 1 shows a total requested demand of 80.265 mgd. Of this total, only about 31.590 mgd is a reasonable estimate of the existing demands on the aquifer and is calculated according to Table 1 as follows:
TABLE 1.
Calculation for Reasonable Estimate of Existing Uses

<table>
<thead>
<tr>
<th>Quantity (mgd)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80.265</td>
<td>Total from Exhibit 1.</td>
</tr>
<tr>
<td>-13.880</td>
<td>Applications field investigated verified with no existing use.</td>
</tr>
<tr>
<td>-34.795</td>
<td>Applications for salt water wells (limited effect on aquifer).</td>
</tr>
<tr>
<td>31.590</td>
<td>Reasonable estimate of existing aquifer uses from applications.</td>
</tr>
</tbody>
</table>

This table updates the previous October 13, 1993 9 mgd estimate for existing uses from the aquifer with little ocean water contribution. A double counting of salt water and non-use salt water wells occurred which led to the lower 9 mgd. Still, this figure is within the aquifer system’s sustainable yield of 35 mgd. Another point worth mentioning is that the active Campbell Estate and Honolulu Board of Water Supply requests are generally for pump capacities rather than the actual average use. Additionally, the 1992 draft of the Oahu Water Management Plan estimated 1990 actual use to be 13.6 mgd which would be well within the system’s sustainable yield which probably incorporates some salt water use. Finally, staff estimates the 12-month moving average, as of August 1993, is 24.289 mgd based on water use reports submitted to the Commission which includes significant salt water pumpage. Therefore, short of a complete field verification and analysis of the potential existing uses and of their reasonable and beneficial use, there does not appear to be an existing overpumpage situation.

Given this status, and the complexity of the salt and fresh water aquaculture uses, staff needs more time to analyze the existing uses from Campbell Estate applications to make reasonable recommendations, but sees no reason to delay action on other smaller users in the management area.

1. **Campbell Estate Non-Existing Pumpage** - From the various field investigations listed in Exhibit 2, the following wells have not been pumped and in many cases were identified by the applicant for future uses. They do not qualify as existing uses and should be denied at this time until all existing uses are accounted. Well Nos. 4238-06, 07, 10, 15, 16, & 17.

2. **Zion's Securities Corp., Laie Water Co., Polynesian Cultural Center** - Originally separate applicants, these requests for existing uses are apparently now under the umbrella of the Hawaii Reserves Inc. Application(s) pending for action under these applicants are: 1) Zion's with nine (9) wells servicing various irrigation needs, Laie Water Co. with four (4) wells servicing a private municipal system, and the Polynesian Cultural Center with one (1) well servicing a commercial tourist attraction. The applicant(s) had requested deferral on the October 13, 1993 meeting. This action was due, in part, by the change in the applicant(s) title to Hawaii Reserves, Inc. Additionally, there are disputes regarding these uses and objections (Attachments B to D) surrounding these particular applications. Staff is attempting to initiate mediation proceedings between the applicants and the objectors concerned with water rights. Under §13-167-83, mediation may be used prior to the initiation of formal proceedings upon the agreement of affected persons.

There are additional concerns from the Division of Aquatic Resources (DAR) for the applicant’s wells near the Kaluanaui, Koloa, Kahawainui, and Wailele Streams which support a variety of native freshwater species. DAR is concerned that proliferation of wells near these streams could detrimentally affect native species. However, DAR states that any existing pumpage impacts on species would have already occurred.

A brief in support has been filed for the Laie Water Co. and the Polynesian Cultural Center in rebuttal of the objection listed in Attachments B to D. A synopsis of this brief in support is that the objections are invalid, as specified in the rules, and that the Commission should act on this particular
application for water use permit. Additionally, the brief states that employment benefits of the cultural center must not be held hostage to invalid objections. Staff agrees with the brief in support as to the objector's deficiency in meeting the rules regarding objections. However, the current rights dispute mentioned by the objectors does relate to an individual who has property interests in the area. Aside from this technicality, the rules do not preclude the Commission from holding a hearing as may be necessary and proper in aid of its jurisdiction consistent with law, as specified in §13-167-3(5).

Given the issues, objections, and changes associated with the applications filed with the Commission, staff feels that it is prudent to take these applications to public hearing. Staff will attempt to initiate mediation processes between agreeable parties so that the concerns regarding these applications can be discussed and perhaps settled before the public hearing.

RECOMMENDATION

Staff recommends:

1. **Campbell Estate Fresh and Salt Water Uses** - The Commission defer action on Campbell Estate actual existing use applications listed in Exhibit 1 and not covered under Recommendation 2 to afford staff more time to make a comprehensive evaluation of the aquacultural needs of the individual operators.

2. **Campbell Estate Non-Existing Pumpage** - That the Commission deny without prejudice the issuance of water use permits to Campbell Estate for Well Nos. 4258-06, 07, 10, 15, 16, & 17 and their requested amounts shown in Exhibit 1 since these uses are not existing. The applicant may submit new permit applications once existing uses in the Koolauloa Aquifer System have been established.

3. **Zion's Securities Corp., Laie Water Co., Polynesian Cultural Center** - That the Commission:
   a. Authorize staff to initiate public hearing proceedings for all applications from these applicants, as specified in Exhibit 1, with the tentative hearing date to be December 8, 1993.
   b. Ask that petitions to be a party in mediation efforts prior to the public hearing for these applications be submitted no later than November 3, 1993.
   c. Allow applicants to continue their existing uses of ground water until final Commission actions on these applications.

Respectfully submitted,

\[Signature\]

for: RAE M. LOUI
Deputy Director

Approved for Submittal:

\[Signature\]

KEITH W. AHUE, Chairperson
WATER USE PERMIT DETAILED INFORMATION

Source Information

AQUIFER: Koolauloa System, Windward Sector, Oahu
Sustainable Yield: 35 mgd
Existing Water Use Permits: 0.002 mgd
Available Allocation: 35 mgd
Total of other pending allocations: 98.109 mgd

WELLS: Refer to well index. When action on wells is to be taken, information from index will be compiled.

Use Information

Current 12-Month Moving Average Withdrawal: 24,289 gpd
(69% of SY)

See Exhibit 3 for individual applications use descriptions.

Nearby Surrounding Wells and Other Registered Ground Water Use

Information from the registration program indicates there are possibly 84 existing wells in the Koolauloa Aquifer System. Several of these wells have been initially field checked but many of the declarants, including the larger users, have not been completely field verified. Several are not in use or are rights claims. However, the Oahu Water Management Plan estimated that the existing withdrawals from the Koolauloa Aquifer System is 13.6 mgd as of 1990.

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Star-Bulletin according to Exhibit 2. Copies of the notice were sent to the Mayor’s office and the Board of Water Supply. Additional notice copies were sent to the County Council and Department of Water Supply. Copies of the completed application were sent to the Department of Health, Department of Hawaiian Home Lands, Office of Hawaiian Affairs, Aquatic Resources & Historic Preservation Divisions of the Department of Land and Natural Resources, and other interested parties for comments. Written comments and objections to the proposed permit were to be submitted according to Exhibit 2.

Objections

The public notice specifies that an objector meet the following requirements: (1) state property or other interest in the matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; (3) state all grounds for objections to the proposed permits, (4) provide a copy of the objection letter(s) to the applicant, and (5) submit objections meeting the previous requirements to the Commission according to Exhibit 2.

To the best of staff’s knowledge there are no objectors who have property interest within the Koolauloa Aquifer System or who will be directly and immediately affected by the applications in this submittal. All objections and/or comments to the application are summarized as follows:

Objecor | Objection
---|---
NHAC | General process of water use permit applications. No specific objections to this application. Concur with kuleana water rights dispute. See
Comparison of actual existing uses to requested amounts should be made.

For Zions Securities Inc., Laie Water Co., and Polynesian Cultural Center wells near the Kaluanui, Koloa, Kahawaiui, and Wailele Streams which support a variety of native freshwater species. Any reduction in streamflow would be environmentally damaging to these species. However, existing uses should have already made their impact.

Hawai'i la'iekawai Assoc., Inc.  
Kuleana water rights dispute. Existing withdrawals decrease flows to Kuleana land owners. See Attachment C.

Hui Malama 'Aina 'O Laie  
Kuleana water rights dispute. Existing withdrawals decrease flows to Kuleana land owners. See Attachment D.

Briefs in Support

Responses to objections, or briefs in support, regarding the application are required to be filed with the Commission ten (10) days after an objection is filed and, presumably, copies are served to the applicant. No briefs in support were filed with the Commission. The following briefs in support are summarized as follows:

<table>
<thead>
<tr>
<th>Supporter</th>
<th>Brief in Support</th>
</tr>
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<tbody>
<tr>
<td>Attorney for Applicant</td>
<td>09/16/93 Brief in support submitted for both Laie Water Co. and Polynesian Cultural Center by Ashford and Wriston (Owen Matsunaga) supporting WUPA. Points are: 1. unknown property owners who are being represented by NHAC and J.A. NHAC and J.A. lack standing. 2. missed deadline for objections. 3. applicant did not receive copies of objections from objectors or other referenced material all of which are deficient. 4. Applicant's use is long standing and beneficial for employment in the north shore area. 5. In light of above, WUP should be granted without hearing. (See Attachment E).</td>
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Field Investigation

Campbell Estate applications were investigated according to Exhibit 4. Other applications are under continued field investigative work.
+

10/19/93

\.lATER USE PERMIT APPLICATION NOTICE STATUS REPORT
\.IUPA
NO

APPLICANT

\.IELL NO \.IElL NAME

EXIST PROPOSED RECEIVED

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PUBLIC 1 PUBLIC 2 OBJECTION
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NOTICE

SUSPENSE

DAYS
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AGENDA

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ISLAND OF OAHU
Aquifer System: KOOLAULOA
KUALOA RANCH, INC.
HONOLULU B\.IS
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HANOHANO ENTERPRISES, INC
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LAIE IoIATER CO., INC.
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LAIE MALoo
TRUCK FARM
\.IElFARE FARM
CAMPUS \.IElL
CERAMICS \.IEll
LIBRARY \.IEll
PCC LAGOON IoIElL
NIHIPALI
QUARRY \.IELL D
PRAIoIN FARM
MAlAEKAHANA
TEMPLE \.IELL
EGG FARM
KAIO ARTESIAN IoIE
PUMP 6
KAIoIANANAKOA
PUMP 1
SUGAR MILL PUMP
PUMP 8
PUMP 12
PUMP 12-A
KAHUKU BATTERY
KAHUKU BATTERY
PALMER G.C.
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PUMP 15 (ARMY)
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68 Applications Totaling 80,265
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<td>4057-03*</td>
<td>YES</td>
<td>KAHUKU MILL WELL</td>
<td>354 Kahuku Mill Campbell Estate not able to locate casing</td>
</tr>
<tr>
<td>4057-04.09.11.12*</td>
<td>YES</td>
<td>Pump 8</td>
<td>Southern Turf Nurseries</td>
</tr>
<tr>
<td>4057-07</td>
<td>YES</td>
<td>Pump 12</td>
<td>361-A, Campbell Estate/Various subleases to truck farmers</td>
</tr>
<tr>
<td>4057-10</td>
<td>YES</td>
<td>Pump 12-A KAHUKU PRAWN WELL</td>
<td>KAHUKU PRAWN CO (Bruce Smith) anticipates using pump 3 later</td>
</tr>
<tr>
<td>4100-01</td>
<td>YES</td>
<td>A PALMER GOLF (at KULILMA RES)--well owned by Campbell--(clarify 160 or 200 acres)</td>
<td></td>
</tr>
<tr>
<td>4100-02</td>
<td>YES</td>
<td>Unused well on Opana Road, overgrown</td>
<td>346 Sealed in 1948</td>
</tr>
<tr>
<td>4157-01</td>
<td>-</td>
<td>Pump 15</td>
<td>YES</td>
</tr>
<tr>
<td>4157-02</td>
<td>-</td>
<td>-</td>
<td>YES</td>
</tr>
<tr>
<td>4157-03</td>
<td>-</td>
<td>-</td>
<td>YES, well &quot;04&quot; in use 5/21/93</td>
</tr>
<tr>
<td>4157-04</td>
<td>YES</td>
<td>Pumpage estimated by Campbell Estate - Meter broken for years-</td>
<td>YES</td>
</tr>
<tr>
<td>4157-05.06.07</td>
<td>YES</td>
<td>Fish &amp; Wild 1,2,3</td>
<td>US FISH &amp; WILDLIFE Three artesian wells, used as necessary</td>
</tr>
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<table>
<thead>
<tr>
<th>IS WELL IN USE?</th>
<th>DATE INSPECTED</th>
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</thead>
<tbody>
<tr>
<td>YES</td>
<td>5/21/93</td>
</tr>
<tr>
<td>YES</td>
<td>5/28/93</td>
</tr>
<tr>
<td>YES</td>
<td>5/21/93</td>
</tr>
<tr>
<td>NO</td>
<td>10/8/90</td>
</tr>
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<td>YES</td>
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</tr>
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<td>YES</td>
<td>5/21/93</td>
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<td>YES</td>
<td>5/21/93</td>
</tr>
<tr>
<td>NO</td>
<td>9/91</td>
</tr>
<tr>
<td>NO</td>
<td>photographed 5/21/93</td>
</tr>
<tr>
<td>NO</td>
<td>inspected 4/91 &amp; 5/21/93</td>
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<td>YES</td>
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<td>4/91 &amp; 5/21/93</td>
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<tr>
<td>YES</td>
<td>9/1/93</td>
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</tr>
<tr>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
</tbody>
</table>

Exhibit 2
October 5, 1993

By Fax Transmission

Department of Land & Natural Resources
Commission on Water Resource Management

Attn: Ms. Rue Loui

re: Zions et al. Water Use Permit Applications

Ladies and Gentlemen:

October 6, 1993 is the apparent deadline for yet another round of water use permit applications being made by Mormon Church controlled entity Zions Securities Corporation, adding to a previous cluster of applications made by other Mormon Church fronts, Property Reserves, Inc., Polynesian Cultural Center and La‘ie Water Company.

On August 30, 1993 I sent your office a memo on behalf of Kuleana landowners in La‘ie signalling the objection to the aforementioned applications. Those objections are incorporated herein by reference and are made a part hereof and apply with equal force to the most recent cluster of applications for water use permits by Zions Securities Corporation.

I draw your attention once again to the fact that we served you formal notice of disputes existing between Kuleana landowners and the aforementioned Mormon Church controlled entities. Until these disputes are settled all water use permit applications made by all Mormon Church fronts in La‘ie should be held in abeyance. There is, as I have repeatedly stated, a direct connection between the disputes I have detailed and the pending applications. See my letter of May 10, 1993, especially paragraphs 5 and 6. Please re-read my letter of September 29, 1993.

If I may, I now turn to your letter of September 29, 1993. There are several points in your letter that require correction:

Paragraph 2:

The dispute goes well beyond concerns expressed by Mrs. Dawn K. Wasson. In separate letters also dated May 10, 1993, two sets of Kuleana landowners totalling 17 persons, joined Mrs. Wasson in notifying you that their water rights have been...
"denied, violated and infringed." The problems go beyond "certain stream channel alterations performed by the Corporation," as you put it in your letter. You seemed to have missed the point: the "taking" of water by Zions has adversely impacted correlative, riparian and appurtenant rights of native Hawaiians. The details on which these charges are based will be made explicit at the proper time.

I have already indicated that we are agreeable to mediation and reiterate that position here.

Aloha,

J. H. Anthony, Ph.D.

Xc: Yoshi Shiroma
    Roy Hardy
    Zions Securities - By Fax and by Certified Mail
Memo to: Mr. Yoshi Shiroma  
From: Dr. Jim Anthony  
Subject: Kuleana Landowners vs. Zions, La'ie Water Company, Polynesian Cultural Center, Property Reserves Incorporated; Water Dispute

Further to our recent telephone conversation concerning the abovementioned matter I wish to confirm that we are agreeable to mediation. Pending the outcome of mediation and the submission of this dispute for resolution according to the provisions of the code, if that becomes necessary, no water use permits ought to be issued to any of the above applicants or even considered.

Our view is that the totality of rights and needs of Kuleana landowners must first be determined before any water use permit is considered, much less issued, to the aforementioned applicants. The term, "totality of rights and needs", here refers to appurtenant, riparian and correlative rights for present and future needs including water needed to grow taro.

This case also involves groundwater/surface water issues, diversion of streams, destruction of auwai and issues related, inter alia, to damages suffered by Kuleana landowners because they have been prevented from growing taro as a result of the activities of some or all of the entities listed above.

Time is moving on: let's determine if the other side will accept mediation. If they do, let us give that a fair try and see whether a settlement can be reached. If mediation fails, or if the other side rejects mediation, let us proceed with speed to a dispute resolution process to which Kuleana landowners are entitled and for which they have long been waiting.


Attachment C
resources. Permitted use of these wells should be restricted to avoid affecting subsurface flows required to maintain the productivity of nearby fishponds and nearshore ecosystems, and to honor the rights of Native Hawaiians to utilize these resources for traditional and customary practices.

Wells 3309-01 & -02

The proposed exploratory well locations appear dangerously close to springs and seeps which irrigate traditional taro lo'i in gulches along the base of the cliffs shown on the maps. These appear to be inappropriate well sites for municipal supply as well as for other water resource management purposes. At the very least, the water use permit application process should be halted until environmental review of the projects under HRS 343 is completed. We also question whether development of these well sites is included in the BWS five-year CIP budget and what water commitments, if any, have been granted for water from the aquifer.

Wells 3856-04, 3554-01 & -02, 3856-07, 3956-05, & 3755-06

NHAC supports the previously-stated objections of Hawai'i-La'ieikawai Association and Hui Malama 'Aina O La'ie to any and all water use permitting for Zion Securities prior to the resolution of pre-existing complaints and disputes in the area.

Applicant has not definitely established within the application that the proposed use of water meets the requirements of HRS 174C-49, particularly conditions 3 and 4. Applicant's proposed uses as requested within this set of permits total 1,146,000. We are presently unable to determine what percentage of total aquifer capacity this request represents when combined with applicant's previous requests.

Well 3856-07 is a source of water for aquacultural operations occurring on properties owned by Albertina K. Roberts, an NHAC client who has also applied for a water use permit for water from this well. COWRM policy appears to be unclear or non-existent concerning issuance of water use permits among source-site owners, source-site operators, on-site users, off-site users of these sources, and associated off-site landowners. Because of this confusion, Ms. Roberts filed her application in order to seek protection for existing and continuing use of groundwater on her properties and to preserve her standing in all water matters pertaining to these properties.

The subject wells may also influence the discharge of groundwater from natural springs throughout this area, as well as the extraction of groundwater by artesian and pumped wells on
privately-owned kuleana lands. Any permitted use of water from the subject sources should be subject to restoration of pre-development natural flows and subsidiary to extractions by Native Hawaiians on kuleana lands.

Mahalo,

David L. Martin, Water Claims Manager

pc: Hawaiian Research Ltd.
    Campbell Estate
    DLNR Dowald
    Zions Securities
    Maui Electric
ASHFORD & WRISTON
Owen H. Matsunaga, Esq.
Attorneys for Petitioners

BEFORE THE COMMISSION ON WATER RESOURCE MANAGEMENT
OF THE STATE OF HAWAII

In the Matter of the Application
of
LAIE WATER COMPANY, INC.
For Water Use Permits pursuant to Section 174C-51, Hawaii Revised Statutes, affecting the Koolauloa System Aquifer, Windward Sector, Oahu, Hawaii

BRIEF IN SUPPORT OF ISSUANCE OF WATER USE PERMITS; CERTIFICATE OF SERVICE.


COVER TO SIMILAR BRIEF FOR LAIE WATER Co. ONLY DIFFERENCE IS THAT BENEFICIAL END USE IS 6,000 RESIDENCE, PUBLIC FACILITIES, AND A SCHOOL.
ASHFORD & WRISTON
Owen H. Matsunaga, Esq.
Alii Place, Suite 1400

Attorneys for Petitioners

BEFORE THE COMMISSION ON WATER RESOURCE MANAGEMENT
OF THE STATE OF HAWAII

In the Matter of the Application
of
POLYNESIAN CULTURAL CENTER
For Water Use Permit pursuant to Section 174C-51, Hawaii Revised Statutes, affecting the Koolauloa System Aquifer, Windward Sector, Oahu, Hawaii

Well No. 3855-09

BRIEF IN SUPPORT OF ISSUANCE OF WATER USE PERMITS; CERTIFICATE OF SERVICE.

BRIEF IN SUPPORT OF ISSUANCE OF WATER USE PERMIT
BY POLYNESIAN CULTURAL CENTER
and CERTIFICATE OF SERVICE

POLYNESIAN CULTURAL CENTER, a Hawaii nonprofit corporation
("Applicant"), hereby files with the Commission on Water Resource Management of the State of Hawaii ("Commission") Applicant’s Brief in Support of Issuance of Water Use Permit pursuant to 13 Hawaii Administrative Rules, Section 13-171-18(c)(1988)(Chapter 171 of 13 Hawaii Administrative Rules is hereinafter referred to as the "Commission’s Water
Management Area Regulations"). Applicant submits that the objections filed on behalf of Native Hawaiian Advisory Council ("NHAC") and the Hui Malama 'Aina 'O La'ie should be disregarded and Applicant's application for a water use permit for Well No. 3855-09 ("Well") should be granted as requested without the need for a hearing. In support whereof, Applicant states as follows:

I.

Background

Applicant filed its application for a water use permit for the Well on June 23, 1993, for use in connection with Applicant's operation of the Polynesian Cultural Center ("Cultural Center") in Laie, Oahu. The average pumpage from the Well is approximately 691,000 gallons per day. Applicant is requesting the continuation of this use.


On August 30, 1993, NHAC filed a request with the Commission to extend the review period for NHAC to Friday, September 3, 1993. Applicant was not informed about any such waiver of the deadline established by the Water Management Area Regulations.

On September 1, 1993, a J.M. Anthony filed a letter ("September 1, 1993 letter") with the Commission purportedly on behalf of Hui Malama 'Aina 'O La'ie stating his opposition to the applications of Applicant and the Cultural Center. (J. M. Anthony and Hui
Malama 'Aina 'O La'ie are herein collectively referred to as "Anthony"). In doing so, Anthony referenced objections he purportedly previously raised with the Commission, on another issue, in his letter of May 10, 1993 with the "LDS Church/Zions Securities".

No reason is given why Anthony's May 10, 1993 complaint against "LDS Church/Zions Securities" is relevant to anything Applicant has ever done, or to Applicant's pending application. Anthony appears simply to have borrowed objections from an earlier claim, filed before Applicant filed its water use applications with the Commission, and to have adopted them as supposed "community" objections against Applicant.

On September 3, 1993, NHAC filed a letter with the Commission stating that it "supports the objections filed by Hui Malama 'Aina 'O La'ie on August 30, 1993." NHAC further objected to "current COWRM [Commission] water use permit application processing and decision making practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93)."

Applicant did not receive copies of Anthony's September 1, 1993 letter or NHAC's letters of August 30, 1993 and September 3, 1993, until Tuesday, September 7, 1993, when the Commission sent such copies to Applicant. Applicant did not receive a copy of Anthony's correspondence dated May 10, 1993, until it was telefaxed to Applicant's attorneys by the Water Commission on Friday, September 10, 1993. Applicant has yet to receive copies of the five additional items of correspondence or memoranda cited by NHAC which apparently form additional bases for NHAC's objections. Applicant to this day has
not seen much of the objecting material supposedly incorporated by reference into the objections of Anthony/NHAC.

Finally, NHAC and Anthony both appear to be acting in representational or advisory capacities to persons unknown, but who are alleged to have the property interest required for such objections. No individuals who actually have such property interests appear to be objecting to Applicant's applications.

II.

Anthony and NHAC Lack Standing to Object

Anthony and NHAC have failed to demonstrate the sort of interest in this proceeding that is required to establish standing under the State Water Code (Chapter 174C, Hawaii Rev. Stat.)("Water Code") or 13 Hawaii Administrative Rules, Chapter 167 (1988)(Chapter 167 of 13 Hawaii Administrative Rules being hereinafter referred to as the "Commission's Rules of Practice").

As provided in § 174C-53(b) of the Water Code, "In acting upon any application, the Commission need consider only those objections filed by a person who has some property interest in any land within the hydrologic unit from which the water sought by the applicant is to be drawn or who will be directly and immediately affected by the water use proposed in the application." Neither Anthony nor NHAC have provided any proof that they have the requisite property interest in this case or that they will be directly and immediately affected by the requested permits.
Section 13-167-54 of the Commission’s Rules of Practice specifies who may be admitted as a party to a proceeding. In addition to the petitioner and relevant government agencies, subsections 13-167-54(a)(3) and (4) of the Commission’s Rules of Practice list the following as the only other persons that may be recognized as parties:

(3) All persons within a hydrologic unit who have some property interest in the land, who lawfully reside on the land, who are adjacent property owners, or who otherwise can demonstrate that they will be so directly and immediately affected by the proposed change that their interest in the proceeding is clearly distinguishable from that of the general public shall be admitted as parties upon timely application.

(4) Other persons who can show a substantial interest in the matter may apply to be a party. The presiding officer or the commission may approve the application only if the applicant’s participation will substantially assist the commission in its decision making.

Subsection (3), above, corresponds to § 174C-53(b) of the Water Code and establishes that a person must have a real property interest or other interest that may be directly and immediately affected by the proposed permits. Anthony and NHAC lack any such direct or real property interest, and have failed to assert any such basis for standing with respect to this proceeding. Additionally, neither Anthony nor NHAC have demonstrated any interest in the proceeding that is even remotely distinguishable from the interests, if any, of the general public.

As to subsection (4), above, neither Anthony nor NHAC has submitted an application as required by section 13-167-54(e) for party status. Indeed, Applicant believes that even if such an application were to be submitted, such application should be denied because the
involvement of Anthony or NHAC in the present case will not "substantially assist the commission in its decision making." Rather than seeking to assist the Commission in its decision making, NHAC states in its letters that it objects to the Commission's decision-making practices altogether. Moreover, Anthony has taken the position that the Commission should not address Applicant's applications at all until his own matters are first considered: that the entire community's water supply should be held up pending resolution of Anthony's private dispute against "LDS Church/Zions Securities". In light of such antagonism to the Commission's decision making authority, the attempted objection by Anthony and NHAC would be disruptive to the Commission's deliberative process and unduly interfere with its legislative mandate to adjudicate such applications.

The lack of adequate grounds for standing by the purported objectors requires that the letters filed by Anthony and NHAC be disregarded in the present proceeding.

III.

The Purported "Written Objections" by Anthony and NHAC were Not Timely

Section 13-171-18 of the Commission's Water Management Area Regulations sets forth the criteria for objections to proposed water use permits. Section 13-171-18(a) states as follows:

Within ten working days after the last public notice of the pending permit application, a party may file with the commission, written objections and a brief in support of such objections. Such party shall serve copies of the objections and brief upon the applicant. [emphasis added]
The last Public Notice in the present case was published in the Honolulu Star Bulletin on August 13, 1993, and stated that written objections had to be filed with the Commission, with a copy to the applicant by "August 30, 1993."

Despite such deadlines for filing, Anthony apparently did not file his letter with the Commission until September 1, 1993, and Anthony has yet to serve a copy of such letter upon Applicant. Similarly, NHAC did not file its "objection" letter until at least September 3, 1993.

Because of the failure of Anthony and NHAC to comply with the provisions of section 13-171-18(a) of the Commission's Water Management Area Regulations, Applicant believes that Anthony's and NHAC's letters should be disregarded by the Commission.

IV.

The Purported "Written Objections" by Anthony and NHAC are Deficient

Section 13-171-18(b) of the Commission's Water Management Area Regulations establishes clear requirements for any written objections filed with the Commission:

(b) The written objection shall:
(1) Set forth questions of procedure, fact, law or policy, to which objections are taken; and
(2) State all grounds for objections to the proposed permit. The grounds not cited or specifically urged are waived.

Neither NHAC nor Anthony specify any questions of procedure, fact, law or policy to which they object with respect to Applicant's requested permits.

NHAC's August 30, 1993 letter merely requests an exception to the Commission's deadlines for filing and states NHAC's general objections to the Commission's water use
permit application processing and decision-making practices. Similarly, NHAC's September 3, 1993 letter merely reiterates its general dissatisfaction with this Commission's processing and decision-making practices. As to specific questions or grounds for objecting to Applicant's present applications, NHAC simply states that it supports Anthony's objections. Given NHAC's glaring lack of any specific basis for objecting to Applicant's applications, NHAC's purported "written objections" should be dismissed by the Commission.

As to Anthony's "objections," he also fails to set forth any questions or grounds for his objections. While he attempts to incorporate by reference his May 10, 1993 letter that he submitted to the Commission in a separate proceeding, such letter is likewise deficient and fails to state any basis for objecting to the present applications. Anthony's May 10, 1993 letter merely chastises the Commission for not resolving Kuleana landowners' water rights in the state.

While Anthony's May 10, 1993 letter cites a Dispute/Complaint Information Request form signed by Dawn K. Wasson ("Wasson"), Wasson is not an objector in the present case. Moreover, Wasson's complaints appear to relate to surface water matters that are not at issue in the present proceeding. The permit requested by Applicant, however, does not include any request for use of surface water for Applicant's system and the Well does not fall within any surface water management area. Finally, any alleged complaint regarding surface waters should not be allowed to delay the issuance of the permits requested in this case for permits of pre-existing, beneficial uses.
If Wasson has any grounds for complaint, which Applicant doubts exist, Wasson could raise such concerns with the Commission through a separate proceeding, in which Wasson clearly would have the burden to prove the interim instream flow standards effects, if any, of Applicant’s use. A continuation permit proceeding is not the proper forum for the type of dispute resolution suggested by Anthony. Neither the Water Code nor the rules and regulations of the Commission permit an outsider to "stay" the permit process on the basis of mere allegations that an unspecified dispute exists as to surface water issues.

The failure by Anthony and NHAC to state any questions or grounds for their objections makes their letters meaningless as written objections.

V.

**Applicant’s Request Covers a Long-Established, Beneficial Use**

Applicant is the current operator of the Cultural Center, which is one of the premier cultural and tourist attractions on the Island of Oahu and arguably within the State of Hawaii. The pending applications in this proceeding are an important aspect of Applicant’s operations at the Cultural Center. The Well in question has been in use for close to a century by Applicant and its predecessors, and is critical to Applicant’s ability to provide the high quality of service currently rendered at the Cultural Center. Should the requested permits be denied, the Cultural Center operations would be seriously and negatively affected. This could result in a major setback to a highly popular tourist attraction and could significantly affect a major source of employment in the North Shore area. Under such circumstances,
the existing use for which Applicant hereby seeks a permit is a reasonable-beneficial use as set forth by section 13-171-14 of the Commission's Water Management Area Regulations.

Also, because of the long-established use of the Well by Applicant, Applicant should be given priority to obtain the requested permits for its continuous water usage levels. This would be analogous to the priority given to continuous reduced water usage users to reobtain their permitted levels of water usage under section 13-171-19(d) of the Commission's Water Management Area Regulations.

VI.
The Commission Should Grant the Permit Without a Hearing

Requiring a hearing is unnecessary and unwarranted in this instance, and would be wasteful of time and money. Under § 174C-53(a) of the Water Code, the Commission is entitled to make a determination that the conditions for a permit have been established by Applicant without a hearing where "no objection to the application is filed by any person having standing to file an objection." As set forth in the preceding sections, the purported objectors in the present case have no standing to file any objections. Furthermore, the letters submitted by such purported objectors should not be deemed as "objections" for purposes of the Commissions rules and regulations because of their failure to provide any basis to challenge Applicant's applications.

VII.

WHEREFORE, Applicant respectfully requests that the objections filed on behalf of by Anthony and the Native Hawaiian Advisory Council be disregarded, and Applicant's
applications for a water use permit for Well No. 3855-09 be granted as requested without hearing.

DATED: Honolulu, Hawaii; September 16, 1993.

Respectfully submitted,

ASHFORD & WRISTON

By: Owen H. Matsunaga
Attorney for Applicant
BEFORE THE COMMISSION ON WATER RESOURCE MANAGEMENT
OF THE STATE OF HAWAII

In the Matter of the Application

of

POLYNESIAN CULTURAL CENTER

For Water Use Permits pursuant to Section 174C-51, Hawaii Revised Statutes, affecting the Koolauloa System Aquifer, Windward Sector, Oahu, Hawaii

Well No. 3855-09

CERTIFICATE OF SERVICE.

I hereby certify that I have caused the foregoing BRIEF IN SUPPORT OF ISSUANCE OF WATER USE PERMIT BY POLYNESIAN CULTURAL CENTER to be served upon the following persons at the following addresses by depositing a copy thereof in the mail, postage prepaid:

J.M. Anthony
Pacific Research, Information and Consultant Services

Native Hawaiian Advisory Council

DATED: Honolulu, Hawaii; September 16, 1993.

OWEN H. MATSUNAGA
Attorney for Applicant
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
   Department of Health

Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Redacted] or Lenore Nakama at [Redacted]

Attachments

Response: Contact person: Herbert H. Minakami

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu Hayashida
   Manager and Chief Engineer

Date: 10/14/93
October 14, 1993

The Honorable Keith W. Ahue
Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO:

Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM:
Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [number] or Lenore Nakama at [number].

Attachments

Response: Contact person: Herbert H. Minakami

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: Kazu Hayashida
Manager and Chief Engineer
Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O'ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O'ahu and Moloka'i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD: BH: ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. John C. Lewin, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Herbert H. Minakami
          Phone:

          () We have no comments
          () We have no objections
          () Comments attached
          () Additional information requested
          () Extended review period requested

Signed: Date:

KAZU HAYASHIDA
Manager and Chief Engineer
October 14, 1993

The Honorable Keith W. Ahue
Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands
    Dr. John C. Lewin, M.D., Director
    Department of Health
    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs
    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at.

Attachments

Response: Contact person: Herbert H. Minakami Phone:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu Hayashida  Date: 10/1/93
Manager and Chief Engineer
October 14, 1993

The Honorable Keith W. Ahue
Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. John C. Lewin, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact information redacted].

Attachments

Response: Contact person: Herbert H. Minakami Phone: [Redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Kazu Hayashida
Manager and Chief Engineer

Date: 10/19/93
October 14, 1993

The Honorable Keith W. Ahue  
Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources

Dear Mr. Ahue:  

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. John C. Lewin, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at.

LN:ky
Attachments

Response: Contact person: Herbert H. Minakami Phone: 808-123-4567

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: Kazu Hayashida
        Manager and Chief Engineer
        Date: 10/19/93
The Honorable Keith W. Ahue  
Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  

Dear Mr. Ahue:  

Withdrawal of Objections  

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.  

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.  

Warmest aloha,  

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission  

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
    Department of Health

Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application
    Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Herbert H. Minakami
           ( ) We have no comments
           ( ) We have no objections
           ( ) Comments attached
           ( ) Additional information requested
           ( ) Extended review period requested

Signed: Kazu Hayashida
        Date: 10/9/93
        KAZU HAYASHIDA
        Manager and Chief Engineer
The Honorable Keith W. Ahue  
Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O‘ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O‘ahu and Moloka‘i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
October 19, 1993

Mr. Keith Ahue, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii

Dear Mr. Ahue:

Subject: Four Letters of September 21, 24, 28 and 29, 1993 Requesting Comments on Water Use Permits for Various Applicants

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Well No.(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ewa Gentry</td>
<td>2001-05</td>
</tr>
<tr>
<td>Dudley Chang</td>
<td>2750-09</td>
</tr>
<tr>
<td>State Housing Finance &amp; Development</td>
<td>2853-04 &amp; 05</td>
</tr>
<tr>
<td>MRTC/HIMB/UH</td>
<td>3051-02</td>
</tr>
<tr>
<td>Campbell Estate</td>
<td>4157-08, 4158-12 &amp; 13, 4258-05 to 08, 4258-10, and 4258-12 to 17</td>
</tr>
</tbody>
</table>

Thank you for the opportunity to comment on these applications for permits for existing water uses. The Board of Water Supply had no objections to the permits. Their comments included a request that the Department of Land and Natural Resources review the total quantity of requested water by Campbell Estate against the estimated sustainable yield of the Kahuku aquifer.

Warm personal regards.

Sincerely,

FFF:rk

cc: Jeremy Harris, Managing Director
October 15, 1993

The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Ahue:

Water Use Permits

Thank you for the opportunity to respond to the following applications for Windward O'ahu water use permits:

- Waihee-Chang (2750-09)
- Waiahole-HFDC (2853-04, 05)
- Hakipuu-MRTC (3052-02, 3051-02)
- Kahuku-Campbell (4158-12, 13, 4258-05, 06, 07, 08, 10, 12, 13, 14, 15, 16, 17)
- Laie-PCC (3855-09)

These applications do not affect Hawaiian home lands; we have no comments.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
MINUTES
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: October 13, 1993
TIME: 9:00 a.m.
PLACE: Board Room
Kalanimoku Building

ROLL CALL: Chairperson Ahue called the meeting of the Commission on Water Resource Management to order at 9:09 a.m.

The following were in attendance:

MEMBERS: Mr. Keith Ahue
Mr. Richard Cox
Dr. John L. Lewin
Mr. Robert Nakata
Mr. J. Douglas Ing

EXCUSED: Mr. Guy Fujimura

STAFF: Ms. Rae Loui
Mr. Edwin Sakoda
Mr. Roy Hardy
Mr. Eric Hirano
Ms. Lenore Nakama
Ms. Sharon Kokubun

COUNSEL: Mr. William Tam

OTHERS:

Winifred Miller
Guy Nakamoto
Creighton Mattoon
Warren Iwasa
Conrad Shiroma
Dave Martin
Wright Hiatt
George Young
Kent Smith
Garrett Goo
Chester Lao
Norman Quon
Edsel Yamada
Reynolds Burkland
Mr. Iida

Kahalaomapuana Wasson
Jim Anthony
Karen Piltz
Barry Ching
Elizabeth Martin
Wayne Akana
Keith Krueger
Laverne Higa
Ruby & Gene Montogomery
Laura Thielen
Ken Ishizaki
Peter Lenhart
David Taogoshi
Keith Haugen

All written testimonies submitted at the meeting are filed in the Commission office and are available for review by interested parties. Some items were taken out of sequence to accommodate requests by applicants or interested parties.

AGENDA 1

ITEM 1 MINUTES OF THE SEPTEMBER 15, 1993 MEETING

Unanimously approved (Cox/Nakata).
Chairperson and Members
Commission on Water Resource Management
November 17, 1993

ITEM 6  BIG ISLAND COUNTRY CLUB ESTATES, APPLICATION FOR A PUMP INSTALLATION PERMIT, BIG ISLAND COUNTY CLUB WELL 1 (WELL NO. 4950-01), PUU ANAHULU, NORTH KONA, HAWAII

Mr. Sakoda added the following to Condition 2:

"The applicant shall coordinate with the Commission and conduct a pumping test in accordance with the protocol established by the Commission."

Unanimously approved as amended (Cox/Nakata).

ITEM 7  CLAYTON HAUMEA, APPLICATION FOR A PUMP INSTALLATION PERMIT, MAULI-TOMITA WELL (WELL NO. 2409-24), MAILE, OAHU

Unanimously approved (Cox/Nakata).

ITEM 8  EXTENSION: NANSAY HAWAII, INC WELL CONSTRUCTION PERMIT, OULI-NANSAY WELL 2 (WELL NO. 6146-01), OULI, SOUTH KOHALA, HAWAII

Mr. Ing was excused from acting on this permit since his law firm represents the company.

Unanimously approved (Lewin/Cox).

ITEM 9  EXECUTIVE SESSION: KOOLAU AGRICULTURAL CO., LTD. VS. THE COMMISSION ON WATER RESOURCE MANAGEMENT.

The Commission adjourned to an executive session to discuss Koolau Agricultural vs. the Commission litigation (Cox/Nakata).

AGENDA 3 The meeting was called to order at 1:11 p.m.

ITEM 1  DEFERRAL OF WATER USE PERMIT APPLICATIONS, OAHU WATER MANAGEMENT AREAS

Unanimously approved (Nakata/Cox).

ITEM 2  RUBY MONTGOMERY, APPLICATION FOR WATER USE PERMIT, RL MONTGOMERY WELL (WELL NO. 2751-06), KOOLAUPOKO GROUND WATER MANAGEMENT AREA, OAHU

Unanimously approved with staff's deletion of Recommendation 1d regarding DHHL reservation (Ing/Lewin).

ITEM 3  KAHALA HILTON, WATER USE PERMIT APPLICATIONS, KAHALA HILTON #1 AND #2 WELLS (WELLS NOS. 1646-05 & 06), WAIALAE-WEST GROUND WATER MANAGEMENT AREA, OAHU

Mr. Ing asked to be excused from acting on this permit since his firm represents the applicant. Standard Condition #11 will be amended to require a yearly submission.
Chairperson and Members  
Commission on Water Resource Management  
State of Hawaii  
Honolulu, Hawaii  

Gentlemen:

Deferral of Water Use Permit Applications  
Oahu Ground Water Management Areas

<table>
<thead>
<tr>
<th>Applicants</th>
<th>Landowner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honolulu Board of Water Supply</td>
<td>Same</td>
</tr>
<tr>
<td>Waiahole Irrigation Co., Ltd.</td>
<td>Same</td>
</tr>
<tr>
<td>State HFDC</td>
<td>Same</td>
</tr>
<tr>
<td>Campbell Estate</td>
<td>Same</td>
</tr>
<tr>
<td>Laie Water Co., Inc.</td>
<td>Same</td>
</tr>
<tr>
<td>Zion's Security, Corp.</td>
<td>Same</td>
</tr>
<tr>
<td>Polynesian Cultural Center</td>
<td>Same</td>
</tr>
<tr>
<td>MRTC/HIMB/UH</td>
<td>Same</td>
</tr>
<tr>
<td>Dudley W.A. Chang</td>
<td>Same</td>
</tr>
<tr>
<td>U.S. Fish and Wildlife Service</td>
<td>U.S. Navy, Pacific Division</td>
</tr>
<tr>
<td>Gentry Development Co.</td>
<td>Same</td>
</tr>
</tbody>
</table>

Background

The Commission designated Windward Oahu and the island of Molokai, with their corresponding aquifer systems as ground water management areas, on May 5, & 13 1992, respectively. All registered ground water users have been sent an initial notification of the official date, July 15, 1992, on which the Commission would begin accepting water use permit applications for existing water use permits.
These applicants require Commission action to satisfy the ninety (90) day requirement for action but for various reasons staff wishes to defer action on the applications listed in Table 1.

### TABLE 1

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Reason for Deferral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honolulu Board of Water Supply Wells</td>
<td>No response to CWRM request for more information on future projects.</td>
</tr>
<tr>
<td>1744-05</td>
<td></td>
</tr>
<tr>
<td>1848-01</td>
<td></td>
</tr>
<tr>
<td>2250-03</td>
<td></td>
</tr>
<tr>
<td>2348-06</td>
<td></td>
</tr>
<tr>
<td>Total 4 WUPAs</td>
<td></td>
</tr>
<tr>
<td>Waiahole Irrigation Co., Ltd. Wells</td>
<td>No response to CWRM request for more information on OSCo. withdrawal impacts on future needs. Field investigation for use not complete.</td>
</tr>
<tr>
<td>2853-01</td>
<td></td>
</tr>
<tr>
<td>2953-01 &amp; 02</td>
<td></td>
</tr>
<tr>
<td>3053-01</td>
<td></td>
</tr>
<tr>
<td>Total 4 WUPAs</td>
<td></td>
</tr>
<tr>
<td>State HFDC Wells</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>2853-04 &amp; 05</td>
<td></td>
</tr>
<tr>
<td>Total 2 WUPAs</td>
<td></td>
</tr>
<tr>
<td>Campbell Estate Wells</td>
<td>Objection deadline is 10/29/93.</td>
</tr>
<tr>
<td>4158-12 &amp; 13</td>
<td></td>
</tr>
<tr>
<td>4258-05 thru 17</td>
<td></td>
</tr>
<tr>
<td>Total 13 WUPAs</td>
<td></td>
</tr>
<tr>
<td>Laie Water Co., Inc. Wells</td>
<td>Request of applicant.</td>
</tr>
<tr>
<td>3855-06 to 08</td>
<td></td>
</tr>
<tr>
<td>3956-03</td>
<td></td>
</tr>
<tr>
<td>Total of 1 WUPA</td>
<td></td>
</tr>
<tr>
<td>Zion’s Security, Corp. Wells</td>
<td>Request of applicant.</td>
</tr>
<tr>
<td>3554-01 &amp; 02</td>
<td></td>
</tr>
<tr>
<td>3654-03</td>
<td></td>
</tr>
<tr>
<td>3755-04 &amp; 06</td>
<td></td>
</tr>
<tr>
<td>3855-04</td>
<td></td>
</tr>
<tr>
<td>3856-04 &amp; 07</td>
<td></td>
</tr>
<tr>
<td>3956-05</td>
<td></td>
</tr>
<tr>
<td>Total 8 WUPAs</td>
<td></td>
</tr>
<tr>
<td>Polynesian Cultural Center Well 3855-09</td>
<td>Request of applicant.</td>
</tr>
<tr>
<td>MRTC/HIMD/UII Well 3051-02</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>Dudley W.A. Chang Well 2750-09</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>U.S. Fish &amp; Wildlife Service Well 2101-14</td>
<td>More staff analysis necessary.</td>
</tr>
<tr>
<td>Gentry Development Co. Well 2001-04 &amp; 05</td>
<td>More staff analysis necessary.</td>
</tr>
</tbody>
</table>
Chairperson and Members
Commission on Water Resource Management

October 13, 1993

RECOMMENDATION:

That the Commission defer action on the applications listed in Table 1.

Respectfully submitted,

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL:

KEITH W. AHUE, Chairperson
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: Steve Pagan
() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: [Signature] Date: 10/13/93

Phone: [Redacted]
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii
SEP 29 1993

REF: WRM-KY

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Steve Tagama
( ) We have no comments
( ) We have no objections
(b) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: 10/12/93

LN: ky
Attachments

Response: Contact person: Steve Tagama
( ) We have no comments
( ) We have no objections
(b) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: 10/12/93

LN: ky
Attachments
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 29, 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky

Attachments

Response: Contact person: Steve Tanaka Phone: [redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: [Redacted]
MEMORANDUM

TO:  
Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM:  Rae M. Loui, Deputy Director

SUBJECT:  Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at (808) 587-4044 or Lenore Nakama at (808) 587-4079.

Response:  
Contact person:  Steve Tepano  
Phone:  

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed:  
Date:  11/13/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
         Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Steve Tong   Phone: __________
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: [10/31/93]
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: Stan Tagawa Phone: 734-3625

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: [signature] Date: 10/13/93
MEMORANDUM

TO: Aquatic Resources
     Forestry and Wildlife
     Historic Preservation
     Land Management
     Natural Area Reserve System
     Office of Conservation and Environmental Affairs
     State Parks
     Water and Land Development
     Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Contact person: Steve Tagamor Phone: 7-0385

Response: () We have no comments  The subject well site is located outside the conservation district
           () We have no objections
           () Comments attached
           () Additional information requested
           () Extended review period requested

Signed: ________________________ Date: 10/13/93
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Signed: [Signature]

Date: [Redacted]
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted]

Response: Contact person: [redacted] Phone: [redacted]
We have no comments
We have no objections
Comments attached
Additional information requested
Extended review period requested

Signed: [redacted] Date: 10/15/93
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 23 1993

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at 587-...

Response: Contact person: Steve Tayama  Phone:...

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed:  Date: 10/13/93

Attachments
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Contact person: [Redacted]

Response: We have no comments
           We have no objections
           Comments attached
           Additional information requested
           Extended review period requested

Signed: [Redacted]  Date: 10/13/93
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
        Water Use Permit Application
        Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: Phone:

1) We have no comments
2) We have no objections
3) Comments attached
4) Additional information requested
5) Extended review period requested

Signatures: MANABU TAGUCHI Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: ___________________________ Phone: ________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ______________________________________________________________________ Date: ___________
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
         Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: ___________________________ Phone: ___________________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources
     Forestry and Wildlife
     Historic Preservation
     Land Management
     Natural Area Reserve System
     Office of Conservation and Environmental Affairs
     State Parks
     Water and Land Development
     Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
         Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________________________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: TAMABU TAGOMOTI
Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments

Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN: ky
Attachments

Response: Contact person: _______________ Phone: ________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: MANABU TAGOMORI Date: 10/12/93

COMMISSIONER-RESERVATION
3:30 CT 12:40
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ________________________.

LN:ky
Attachments

Response: Contact person: ________________________ Phone: ________________________

   ( ) We have no comments
   ( ) We have no objections
   ( ) Comments attached
   ( ) Additional information requested
   ( ) Extended review period requested

Signature: ____________________________________________________________________________ Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____________.

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: HARU TAGOMORI Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at __________.

LN:ko
Attachments

Response: Contact person: _________________ Phone: ________

(☐) We have no comments
(☐) We have no objections
(☐) Comments attached
(☐) Additional information requested
(☐) Extended review period requested

Signed: _________________ Date: 10/12/93

COMMISSIONER
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: ________________ Phone: __________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: [signature]
Date: 10/12/93
MEMORANDUM

TO: Aquatic Resources  
   Forestry and Wildlife  
   Historic Preservation  
   Land Management  
   Natural Area Reserve System  
   Office of Conservation and Environmental Affairs  
   State Parks  
   Water and Land Development  
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
   Water Use Permit Application  
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information].

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________________________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: [Signature]  
Date: 10/12/93
SEP 29 1993

MEMORANDUM

TO: [Check boxes for interests]
- Aquatic Resources
- Forestry and Wildlife
- Historic Preservation
- Land Management
- Natural Area Reserve System
- Office of Conservation and Environmental Affairs
- State Parks
- Water and Land Development
- Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ___.

LN:ky
Attachments

Response: Contact person: Phone: ______
() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: Phone: ______
Date: ______

RECEIVED
MEMORANDUM

TO: 

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments: Water Use Permit Application for Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at __________________.

Response: Contact person: __________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature]

Date: 10/7/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at _____ __

Response: Contact person: ___________________________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ____________

RECEIVED

93 OCT 8 11:12:23
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Phone:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Henry M. Schrader
Date: 10/7/93

Attachments
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: [Blank] Phone: [Blank]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature] Date: 10/17/93

RECEIVED

3 OCT 8 P12:23
SEP 29 1993

MEMORANDUM

TO: ✓ Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: ____________________________ Phone: ______________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________ Date: 10/7/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
      Water Use Permit Application
      Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit
application for Campbell Estate for Well No. 4258-13. Public notice of this application
will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15,
1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: ______________________ Phone: ______________________

   ( ) We have no comments
   ( ) We have no objections
   ( ) Comments attached
   ( ) Additional information requested
   ( ) Extended review period requested

Signed: ______________________ Date: ______________________

LN:ky
Attachments
MEMORANDUM

TO:  Aquatic Resources  
      Forestry and Wildlife  
      Historic Preservation  
      Land Management  
      Natural Area Reserve System  
      Office of Conservation and Environmental Affairs  
      State Parks  
      Water and Land Development  
      Other Interested Parties

FROM:  Rae M. Loui, Deputy Director

SUBJECT:  Request for Comments  
          Water Use Permit Application  
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response:  Contact person: ___________________________ Phone: ___________________________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: ___________________________ Date: 10/7/93
MEMORANDUM

TO: [Check boxes for relevant departments]

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments - Water Use Permit Application

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature]

Date: 10/27/93
MEMORANDUM

TO:   Aquatic Resources
      Forestry and Wildlife
      Historic Preservation
      Land Management
      Natural Area Reserve System
      Office of Conservation and Environmental Affairs
      State Parks
      Water and Land Development
      Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments
Response: Contact person: __________________________ Phone: __________________________
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: __________________________ Date: __________________________
MEMORANDUM

TO: __________________________

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at __________________________

Attachments

Response: Contact person: __________________________ Phone: __________________________

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: __________________________ Date: 10/17/93
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

ln:ky
Attachments

Response: Contact person: Phone: 1-877-0260
☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: Date: 10/7/93 12:55
MEMORANDUM

TO:       Aquatic Resources
          Forestry and Wildlife
          Historic Preservation
          Land Management
          Natural Area Reserve System
          Office of Conservation and Environmental Affairs
          State Parks
          Water and Land Development
          Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [CONTACT INFORMATION REDACTED].

Response: Contact person: ___________________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ____________
MEMORANDUM

FOR: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Phone:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Date:
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [contact information redacted].

LN:ky
Attachments

Response: Contact person: [Signature]

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: [Signature]  Date: 10/4/93
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
   Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: [Redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Redacted] Date: 10/24/93
MEMORANDUM

TO:    Aquatic Resources
       Forestry and Wildlife
       Historic Preservation
       Land Management
       Natural Area Reserve System
       Office of Conservation and Environmental Affairs
       State Parks
       Water and Land Development
       Other Interested Parties

FROM:  Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
         Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: [redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [redacted]  Phone: [redacted]  Date: [redacted]
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
         Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Response: We have no comments
           We have no objections
           Comments attached
           Additional information requested
           Extended review period requested

Signed: [signature]
Date: 10/4/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
           Water Use Permit Application
           Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Signed: [signature]

Date: 10/4/93
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Phone:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Date:
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: [redacted]
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [redacted]
Date: [redacted]
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

MEMORANDUM

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ky
Attachments

Response: Contact person: [redacted] Phone: [redacted]

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature]
Date: [Redacted]
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response:  Contact person: ____________ Phone: ______
(0) We have no comments
(0) We have no objections
(0) Comments attached
(0) Additional information requested
(0) Extended review period requested

Signed: [Signature]
Administrator

Date: [Signature]

We have no comments
DOFAW has no objections to the proposed request.
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information].

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________
(✓) We have no comments
(✓) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [Signature]

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Date: 10/15/93
State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Commission on Water Resource Management  
Honolulu, Hawaii  
SEP 29 1993  

MEMORANDUM  

TO:  
Aquatic Resources  
Forestry and Wildlife  
Historic Preservation  
Land Management  
Natural Area Reserve System  
Office of Conservation and Environmental Affairs  
State Parks  
Water and Land Development  
Other Interested Parties  

FROM:  
Rae M. Loui, Deputy Director  

SUBJECT:  
Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.  

We would appreciate your review of the attached application and please return this form by October 29, 1993.  

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information].  

LN:ky  
Attachments:  
Response:  
Contact person: ______________________  
Phone: ______________________  

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Signed: [Signature]  
Date: [Date]  

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii
SEP 29 1993

REF: WRM-KY

MEMORANDUM

TO: \Aquatic Resources
\Forestry and Wildlife
\Historic Preservation
\Land Management
\Natural Area Reserve System
\Office of Conservation and Environmental Affairs
\State Parks
\Water and Land Development
\Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauola Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: ____________________________ Phone: __________
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________ Date: __/__/1993
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ________.

LN:ky
Attachments

Response: Contact person: __________________________ Phone: _______________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: __________________________ Date: 10/14/93

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at (phone number redacted).

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST

Signed: ___________________________ Date: __________

Administrator
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response:

Contact person: __________________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________

Phone: ____________________________

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Date: 10/16/93

Administrator
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: __________________________ Phone: __________________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: __________________________
Administrator

Date: __________________________
MEMORANDUM

TO:    Aquatic Resources
       Forestry and Wildlife
       Historic Preservation
       Land Management
       Natural Area Reserve System
       Office of Conservation and Environmental Affairs
       State Parks
       Water and Land Development
       Other Interested Parties

FROM:    Rae M. Loui, Deputy Director

SUBJECT:    Request for Comments
            Water Use Permit Application
            Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information].

LN:ky
Attachments

Response:    Contact person: __________________________    Phone: _________
            ( ) We have no comments
            ( ) We have no objections
            ( ) Comments attached
            ( ) Additional information requested
            ( ) Extended review period requested

Signed:    [Signature]    Date: [Date]
MEMORANDUM

TO:    Aquatic Resources
        Forestry and Wildlife
        Historic Preservation
        Land Management
        Natural Area Reserve System
        Office of Conservation and Environmental Affairs
        State Parks
        Water and Land Development
        Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____________________________.

LN:ky
Attachments

Response: Contact person: ____________________________ Phone: __________

(-) We have no comments
(-) We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: ____________________________ Date: 10/1/93

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: ___________________________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Administrator

Date: 10/16/93
MEMORANDUM

TO: Aquatic Resources  
   Forestry and Wildlife  
   Historic Preservation  
   Land Management  
   Natural Area Reserve System  
   Office of Conservation and Environmental Affairs  
   State Parks  
   Water and Land Development  
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [contact information redacted].

Response: Contact person: ___________________________  Phone: ______

☐ We have no comments  ☐ We have no objections
☐ Comments attached  ☐ Additional information requested
☐ Extended review period requested

Signed: [Signature]  Date: 10/1/93

[Administrator]
MEMORANDUM

TO: ____________________________________________

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at...

Response: Contact person: __________________________ Phone: _____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Signed: __________________________ Date: ________________

Administrator
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
    Water Use Permit Application
    Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ___________.

LN: ky
Attachments

Response: Contact person: __________________ Phone: __________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Signed: __________ Date: __________
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information]

LN: ky
Attachments

Response: Contact person: _________________________ Phone: __________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: [Signature] (Administrator)

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Date: [Date]
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information Hidden].

LN:ko
Attachments

Response: Contact person: ___________________________ Phone: ___________________________
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ___________________________

Administrator
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources  
Forestry and Wildlife  
Historic Preservation  
Land Management  
Natural Area Reserve System  
Office of Conservation and Environmental Affairs  
State Parks  
Water and Land Development  
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

LN:ko
Attachments

Response: Contact person: ___________________________  Phone: __________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: ___________________________  Date: __________

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 22, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____________.

LN:ky
Attachments

Response: Contact person: _______________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: _______________ Date: 10/2/93

DOFAN HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky

Attachments

Response: Contact person: ________________ Phone: __________

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Signed: [Signature]
Date: [Date]

[Administrator]
MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:kjy
Attachments

Response: Contact person: ___________________________ Phone: ____________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Signed: ___________________________ Date: 10/11/93

Administrator
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted]

Response: Contact person: ______________________ Phone: ______________________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: [Signature]
Date: 10/16/93

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.
Mr. Neal Fujii  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management

Dear Mr. Fujii:

Water Use Permit Applications for  
Wells Listed Below and Status

1. Wells 4157-08 and 4157-10

These wells are operated by Hawaiian Marine Industries, for ogo and some clams.  
They report to us pump capacities of 400 gpm or 576,000 gallons per day. They plan to expand their operations.

2. Well 4258-05

This is the main salt water well for Aurea Marine. Since the flood of March 1991, this company has been out-of-business. In the last six months, they have started up a shrimp and talapia operation.

3. Wells 4258-06 and 07

These wells have not been operated for a couple of years due to the flood. A new operator, Hawaii Aquaculture Company, Inc., plans to reactivate these wells in the next few months.

4. Well 4258-08 and 4258-14

These wells are Amorient’s and are used occasionally at their hatchery operation.

5. Well 4258-10

Was Pacific Sea Farms’ well and has not been in use. A new company plans to reactivate this well in the next few months for a shrimp operation.
6. Wells 4258-12, 13, 15, 16 and 17

These wells are used at Amorient's shrimp farm operation. Wells 12 and 13 currently supply 2,800,000 gallons per day each for shrimp ponds.

7. Well 4057-10

This well is operated by Kahuku Prawn Company on a 24-hour basis to supply their prawn ponds. Daily production is about 1,500,000 gallons per day.

Neal, with the exception of Well 4057-10, all of the other wells are salt water wells. We continually request these tenants to submit their Monthly Water Use Reports, but because it is salt water, they don't comply. We are taking steps to get them to file reports in the future.

Give me a call if you have any questions at

Sincerely,

James E. Menor
Administrator,
Natural Resources
Ms. Donna Goth  
Campbell Estate  

Dear Ms. Goth:

Enclosed is a copy of the public notice for your water use permit applications for Well Nos. 4158-12 & 13, 4258-05 to 08, 10 & 12 to 17 which will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

Please be aware that there may be objections to your applications. If objections are made, the objector is required to file such objections with the Commission and is also required to send you a copy of the objections.

You, or any other party, may respond to objections by filing a brief in support of your applications with the Commission within ten (10) days of the filing of an objection. You, or the other party, must also send a copy of the response to the objector.

If you have any questions, please contact Roy Hardy at [redacted] or Lenore Nakama at [redacted].

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ky  
Encl.
PUBLIC NOTICE

Applications for Water Use Permit
Ground Water Management Areas

Applications for the following water use permits have been received and are hereby made public in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas."

Kahuku Airbase Pump (Well Nos. 4158-12 & 13)
Applicant: Campbell Estate
Date Completed Application Received: August 18, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Kahuku Airbase Pump, Well Nos. 4158-12 & 13, at Kahuku, Oahu at Tax Map Key: 5-6-5:7
Quantity Requested: 500,000 gallons per day.
Existing Water Use: Domestic service to 18 homes and 3 aquaculture office buildings
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32, 35, & 160

T. Astro Salt (Well No. 4258-05)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: T. Astro Salt Well, Well No. 4258-05, at Kahuku-RCA Building, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 5,000,000 gallons per day.
Existing/New Water Use: Aquaculture operations for 12 acres of ogo
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26

HI Aquaculture 1 (Well No. 4258-06)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: HI Aquaculture Well, Well No. 4258-06, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32

HI Aquaculture 2 (Well No. 4258-07)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: HI Aquaculture Well, Well No. 4258-07, at Kahuku,
Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32

Amor RCA Salt 1 (Well No. 4258-08)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor RCA Salt 1 Well, Well No. 4258-08, at Kahuku-RCA Building, Oahu at Tax Map Key: 5-6-3:32
Quantity Requested: 300,000 gallons per day.
Existing/New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku-RCA Building at Tax Map Key: 5-6-3:32

Pac Sea Farms 5 (Well No. 4258-10)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Sea Farms 5 Well, Well No. 4258-10, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 5,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:26

Amor Pact Salt 1 (Well No. 4258-12)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 1 Well, Well No. 4258-12, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:26

Amor Pact Salt 2 (Well No. 4258-13)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 2 Well, Well No. 4258-13, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Backup saltwater supply for shrimp aquaculture
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26
Amor RCA Salt 2 (Well No. 4258-14)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor RCA Salt 2 Well, Well No. 4258-14, at Kahuku, Oahu at Tax Map Key: 5-6-3:32
Quantity Requested: 300,000 gallons per day.
Existing/New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku-RCA Building at Tax Map Key: 5-6-3:32

Amor Pact Salt 3 (Well No. 4258-15)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 3 Well, Well No. 4258-15, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 720,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26

Amor Pact Salt 4 (Well No. 4258-16)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 4 Well, Well No. 4258-16, at Kahuku-RCA Building, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 720,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26

Amor Pact Salt 5 (Well No. 4258-17)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 5 Well, Well No. 4258-17, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 1,440,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:26

Written objections or comments on the applications for water use permits may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply, any person who will be directly and immediately affected by the proposed water use, or any other interested person. Written objections shall: (1) state property or other interest in the
matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; and (3) state all grounds for objections to the proposed permits. Send written objections by October 29, 1993 to 1) the Commission on Water Resource Management, P.O. and 2) a copy of the objection letter(s) to the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

KEITH W. AHUE
Chairperson

Dated: SEP 22 1993

Publish in: Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993
REF: WRM-KY

Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-05 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

KEITH W. AHUE

Enc.
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at LN:ky

Response: Contact person: Phone:
() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: Date:
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-05. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Response: Contact person: ________________  Phone: _________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________  Date: ___________
Honorable Frank F. Fasi, Mayor  
City & County of Honolulu  
City Hall

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-06 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]
KEITH W. AHUE
DEPUTY

Enc.
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ___ ___ ___ ___.

LN:ky
Attachments

Response: Contact person: ________________ Phone: ________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ____________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-06. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

L.N:ky
Attachments

Response: Contact person: ______________________ Phone: _________

() We have no comments
() We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: ______________________ Date: ___________
REF: WRM-KY

Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall
Honolulu, [Redacted]

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-07 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]
KEITH W. AHUE

Enc.
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____.

Response: Contact person: ____________ Phone: ________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ______________________ Date: ____________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-07. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at _____________.

Response: Contact person: ______________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ______________________ Date: ____________
REF: WRM-KY

Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall
Honolulu, [redacted]

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-08 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]
KEITH W. AHUE

Enc.
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Contact Information Redacted].

LN:ky
Attachments

Response: Contact person: ________________ Phone: __________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: ____________________________ Date: __________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

   Dr. John C. Lewin, M.D., Director
   Department of Health

   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-08. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted].

Attachments

Response: Contact person: ___________________________ Phone: ___________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ___________

Response: ________ Phone: ________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ___________
Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall
Honolulu, [Redacted]

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-10 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]
KEITH W. AHUE

Enc.
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ________.

LN:ky
Attachments

Response: Contact person: ________________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ________________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director  
Department of Hawaiian Home Lands  

Dr. John C. Lewin, M.D., Director  
Department of Health  

Mr. Clayton H. W. Hee, Chairperson  
Office of Hawaiian Affairs  

Mr. Kazu Hayashida, Manager & Chief Engineer  
Honolulu Board of Water Supply  

FROM: Keith W. Ahue, Chairperson  
Commission on Water Resource Management  

SUBJECT: Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-10. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Attachments

Response: Contact person: ___________________________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: __________
Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-12 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

KEITH W. AHUE
CHAIRPERSON

Enc.
MEMORANDUM

TO:       Aquatic Resources
          Forestry and Wildlife
          Historic Preservation
          Land Management
          Natural Area Reserve System
          Office of Conservation and Environmental Affairs
          State Parks
          Water and Land Development
          Other Interested Parties

FROM:    Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-12. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: ___________________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ____________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

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We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [Phone number]

Attachments

Response: Contact person: _______________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________ Date: ______________

DEPUTY
REF: WRM-KY

Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-13 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]
KEITH W. AHUE
DEPUTY

Enc.
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at...

Response: Contact person: ___________________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ____________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director  
    Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director  
    Department of Health

Mr. Clayton H. W. Hee, Chairperson  
    Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer  
    Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson  
    Commission on Water Resource Management

SUBJECT: Water Use Permit Application  
    Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

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Response: Contact person: ____________________ Phone: _________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: ___________________________ Date: ___________
Honorable Frank F. Fasi, Mayor  
City & County of Honolulu  
City Hall  

Attn: Mr. Jeremy Harris  

Dear Mayor Fasi:  

Notice of an Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu  

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-14 which will be published in the Honolulu Star Bulletin.  

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Very truly yours,  

KEITH W. AHUE  
Chairman  

Enc.
MEMORANDUM

TO: Aquatic Resources  
    Forestry and Wildlife  
    Historic Preservation  
    Land Management  
    Natural Area Reserve System  
    Office of Conservation and Environmental Affairs  
    State Parks  
    Water and Land Development  
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
        Water Use Permit Application  
        Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-14. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [contact information redacted].

LN:ky
Attachments

Response: Contact person: ______________________ Phone: ___________

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed: ______________________ Date: ___________
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TO: Mrs. Hoaliku L. Drake, Director
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Dr. John C. Lewin, M.D., Director
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Mr. Clayton H. W. Hee, Chairperson
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Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

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If you have any questions regarding this application, please contact Roy Hardy at ________ .

Attachments

Response: Contact person: ____________________ Phone: ________

( ) We have no comments

( ) We have no objections

( ) Comments attached

( ) Additional information requested

( ) Extended review period requested

Signed: ____________________ Date: ________
Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-15 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

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KEITH W. AHUE
DEPUTY
MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ________.

 LN:ko
Attachments

Response: Contact person: ____________________________ Phone: ____________

( ) We have no comments
( ) We have no objections
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( ) Additional information requested
( ) Extended review period requested

Signed: ________________________________ Date: ____________
MEMORANDUM

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   Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
Department of Health

Mr. Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Kazu Hayashida, Manager & Chief Engineer
Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-15. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Attachments

Response: Contact person: _______________ Phone: __________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: __________
Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-16 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

KEITH W. AHUE
DEPUTY
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [redacted] or Lenore Nakama at 587-[redacted]

LN:ky
Attachments

Response: Contact person: ______________________ Phone: ____________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ______________________ Date: ____________
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands
   Dr. John C. Lewin, M.D., Director
   Department of Health
   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs
   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
       Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-16. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at __________.

LN:ky
Attachments

Response: Contact person: ___________________ Phone: ________________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________ Date: ________
Honorable Frank F. Fasi, Mayor  
City & County of Honolulu  
City Hall  
Honolulu,  

Attn: Mr. Jeremy Harris  

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu  

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well No. 4258-17 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

KEITH W. AHUE  
Chairperson  

Enc.
MEMORANDUM

TO: Aquatic Resources  
Forestry and Wildlife  
Historic Preservation  
Land Management  
Natural Area Reserve System  
Office of Conservation and Environmental Affairs  
State Parks  
Water and Land Development  
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [contact information redacted].

LN:ky
Attachments

Response: Contact person: ______________________ Phone: ____________

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MEMORANDUM

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   Office of Hawaiian Affairs

   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

FROM: Keith W. Ahue, Chairperson
      Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well No. 4258-17. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ____________.

LN:ky
Attachments

Response: Contact person: ___________________________ Phone: ______________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________________ Date: ______________
Ms. Donna Goth  
Campbell Estate  

Dear Ms. Goth:

Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu

We acknowledge receipt, on June 23, 1993, of your completed water use permit applications for the following wells:

- T. Astro Salt Well (Well No. 4258-05)
- HI Aquaculture 1 Well (Well No. 4258-06)
- HI Aquaculture 2 Well (Well No. 4258-07)
- Amor RCA Salt 1 Well (Well No. 4258-08)
- PAC Sea Farms 5 Well (Well No. 4258-10)
- Amor Pact Salt 1 Well (Well No. 4258-12)
- Amor Pact Salt 2 Well (Well No. 4258-13)
- Amor RCA Salt 2 Well (Well No. 4258-14)
- Amor Pact Salt 3 Well (Well No. 4258-15)
- Amor Pact Salt 4 Well (Well No. 4258-16)
- Amor Pact Salt 5 Well (Well No. 4258-17)

Due to the complexity of your water allocation requests with respect to the numerous lessees and water uses involved, additional time was required to verify and process these requests. We have taken the liberty to name the wells as described above to facilitate identification. We will be sending you a copy of the public notice for your applications and any further information regarding the status of your applications.

Your request for 5,000,000 gallons per day (gpd) from Well No. 4258-05 exceeds the estimated capacity of the pump currently installed by 1,400,000 gpd. Similarly, your requests for 300,000 gpd from each of Well Nos. 4258-08 & 14 could not be met by the one 3-HP pump which is capable of withdrawing, from both wells, a combined amount of 115,200 gpd.
Therefore, we are assuming that the excess requested amounts are for future use, which would require further pump modification permits.

From our field investigation of Well Nos. 4258-06, 07, 10, & 15 to 17, it was determined that these six wells are currently unused. Therefore, these applications will be considered requests for future, rather than existing, water uses. Lastly, although your water use permit application did not indicate as such, from our field investigation of Well No. 4258-13, it was determined that this well is used as a backup supply for Well No. 4258-12.

If you have any questions, please contact Roy Hardy at [redacted] or Lenore Nakama at [redacted].

Sincerely,

RAE M. LOUI
Deputy Director

LN:fc
FIELD INSPECTION CHECKLISTS FOR CAMPBELL ESTATE WELLS OPERATED OR USED BY AMORIENT AS OF JUNE, 1993

Note: Salt Water Wells on Amorient's leased land, Wells # 4258-12, 13, 14, 15, 16, 17 and 4157-09, have been recently added to the State Well map. Until a change in policy, salt water wells were not being recorded on the State well map and were not consistently being assigned state well numbers such as fresh water wells are numbered. The fact that not all wells in the area were clearly identified with well numbers may have contributed to the confusion of the situation when, in 1989, Amorient filed water use declarations and misidentified some of their wells. In essence, they filed for some of the wrong wells.

Dr. Linden Burzell, formerly of Amorient, is no longer with the company. Dr. Burzell assisted field personnel in an inspection in 4/91, but misidentified wells on the declarations and during the field inspections. This report supersede any previous inspections.

Wells in use documented in this report: WELLS 4258-08 & 14, 4258-12 & 13, 4157-09 (IKKO Well), 4157-04 (PUMP 15) -- THOSE WELLS ARE CURRENTLY BEING USED BY AMORIENT. Also included in this report are Wells 4258-04, -15, -16, -17, 4157-03 (buried) which are located on property leased by Amorient but are not currently in use.

Of the above wells, Amorient filed water use declarations for the following: 4258-04, 4258-08, and pump 15 (4157-04). Amorient also filed for Wells 4258-05, 06 & 07 but I think that he just misidentified wells 4258-15, 16 & 17. When Dr. Burzell, in 1991, took staff to inspect the wells he was identifying as 4258-05, 06 & 07, they were shown 4258-15 and other wells.

Under the category "Wells Amorient filed declarations for, that are abandoned or buried" are the following:
1) a well buried under an access road, (4157-03),
and 2) well "4157-05" which evidently was an abandoned salt water dug well, which no longer exists. The number was reassigned in 1987 to a new well drilled for the U.S. Fish & Wildlife.

NOT CONTAINED IN THIS REPORT: File Ref: CAMPBELL EST will contain individual reports on the following wells: (Campbell Estate is the operator of the following wells.) 1) the battery of six wells at Pump 3 (3957-01 to 06) -- no apparent relation with Amorient. This battery of wells has been documented in the File Ref: CAMPBELL EST.
2) Dr. Burzell filed a water use declaration for Pump 5, a battery of abandoned wells that Campbell owns. When Dr. Burzell took staff to inspect what he was calling Pump 5, he actually took them to the Kahuku Airbase Well (4158-12,13). He misidentified the well on the declaration and in person, and also didn't have access to a key to the pumphouse. Amorient's office in the RCA Building is a small end user of water from the Kahuku Airbase well. Campbell Estate operates Well 4158-12 & 13. The operation and use of water from the Kahuku Airbase well will be documented in the File Ref: CAMPBELL EST water use declaration file. Both Pump 5 and the Kahuku Airbase well are reported on under CAMPBELL EST.
3) Pump 2 (4159-01) at one time, was managed but not used by Amorient. Campbell Estate took over the operation of this well. It will be reported on in File Ref: CAMPBELL EST.
FIELD INSPECTION CHECKLISTS FOR CAMPBELL ESTATE WELLS OPERATED OR USED BY AMORIENT AS OF JUNE, 1993

Note: Salt Water Wells on Amorent's leased land, Wells # 4258-12, 13, 14, 15, 16, 17 and 4157-09, have been recently added to the State Well map. Until a change in policy, salt water wells were not being recorded on the State well map and were not consistently being assigned state well numbers such as fresh water wells are numbered. The fact that not all wells in the area were clearly identified with well numbers may have contributed to the confusion of the situation when, in 1989, Amorent filed water use declarations and misidentified some of their wells. In essence, they filed for some of the wrong wells.

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FIELD INSPECTION CHECKLISTS FOR CAMPBELL ESTATE WELLS OPERATED OR USED BY AMORIENT AS OF JUNE, 1993

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2) Dr. Burzell filed a water use declaration for Pump 5, a battery of abandoned wells that Campbell owns. When Dr. Burzell took staff to inspect what he was calling Pump 5, he actually took them to the Kahuku Airbase Well (4158-12,13). He misidentified the well on the declaration and in person, and also didn't have access to a key to the pumphouse. Amorient's office in the RCA Building is a small end user of water from the Kahuku Airbase well. Campbell Estate operates Well 4158-12 & 13. The operation and use of water from the Kahuku Airbase well will be documented in the File Ref: CAMPBELL EST water use declaration file. Both Pump 5 and the Kahuku Airbase well are reported on under CAMPBELL EST.
3) Pump 2 (4159-01) at one time, was managed but not used by Amorient. Campbell Estate took over the operation of this well. It will be reported on in File Ref: CAMPBELL EST.
FIELD INSPECTION CHECKLISTS FOR CAMPBELL ESTATE WELLS OPERATED OR USED BY AMORIENT AS OF JUNE, 1993

Note: Salt Water Wells on Amorent's leased land, Wells # 4258-12, 13, 14, 15, 16, 17 and 4157-09, have been recently added to the State Well map. Until a change in policy, salt water wells were not being recorded on the State well map and were not consistently being assigned state well numbers such as fresh water wells are numbered. The fact that not all wells in the area were clearly identified with well numbers may have contributed to the confusion of the situation when, in 1989, Amorent filed water use declarations and misidentified some of their wells. In essence, they filed for some of the wrong wells.

Dr. Linden Burzell, formerly of Amorent, is no longer with the company. Dr. Burzell assisted field personnel in an inspection in 4/91, but misidentified wells on the declarations and during the field inspections. This report supersedes any previous inspections.

Wells in use documented in this report: WELLS 4258-08 & 14, 4258-12 & 13, 4157-09 (IKKO Well), 4157-04 (PUMP 15) -- THOSE WELLS ARE CURRENTLY BEING USED BY AMORIENT.
Also included in this report are Wells 4258-04, -15, -16, -17, 4157-03 (buried) which are located on property leased by Amorent but are not currently in use.

Of the above wells, Amorent filed water use declarations for the following: 4258-04, 4258-08, and pump 15 (4157-04). Amorent also filed for Wells 4258-05, 06 & 07 but I think that he just misidentified Wells 4258-15, 16 & 17. When Dr. Burzell, in 1991, took staff to inspect the wells he was identifying as 4258-05, 06 & 07, they were shown 4258-15 and other wells.

Under the catagory "Wells Amorent filed declarations for, that are abandonned or buried" are the following:
1) a well buried under an access road, (4157-03),
and 2) well "4157-05" which evidently was an abandoned salt water dug well, which no longer exists. The number was reassigned in 1987 to a new well drilled for the U.S. Fish & Wildlife.

NOT CONTAINED IN THIS REPORT: File Ref: CAMPBELL EST will contain individual reports on the following wells: (Campbell Estate is the operator of the following wells.)
1) the battery of six wells at Pump 3 (3957-01 to 06) -- no apparent relation with Amorent. This battery of wells has been documented in the File Ref: CAMPBELL EST.
2) Dr. Burzell filed a water use declaration for Pump 5, a battery of abandonned wells that Campbell owns. When Dr. Burzell took staff to inspect what he was calling Pump 5, he actually took them to the Kahuku Airbase Well (4158-12,13). He misidentified the well on the declaration and in person, and also didn't have access to a key to the pumphouse. Amorent's office in the RCA Building is a small end user of water from the Kahuku Airbase well. Campbell Estate operates Well 4158-12 & 13. The operation and use of water from the Kahuku Airbase well will be documented in the File Ref: CAMPBELL EST water use declaration file. Both Pump 5 and the Kahuku Airbase well are reported on under CAMPBELL EST.
3) Pump 2 (4159-01) at one time, was managed but not used by Amorent. Campbell Estate took over the operation of this well. It will be reported on in File Ref: CAMPBELL EST.
STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  

FIELD MEMORANDUM

FILE REFS.: CAMPBELL ESTATE and PAC SEA FARMS

Inspected: June 8, 1993

SOURCES: Five salt water wells: 4257-01 with a 75 hp pump (capacity 3500 gpm) used in the cultivation of salt water shrimp, experimental mahimahi and oyster, clam and mollusk cultivation on a 2-1/2 (6 acre) hectare site. Mr. Utne reported that they anticipate having 50% or 3 acres in use in the near future. Well 4257-02 has an 100 hp pump (capacity 4500 gpm) that is used as a backup pump. Wells 4157-11, 4258-09 and 4258-10 are unused wells without pumps installed on them.

PRESENT: Mr. Amund Utne, President, Pacific Sea Farms, Inc.  
Susan Swanson, CWRM

LOCATION: Kahuku, Oahu

FIELD NOTES: I met with Mr. Utne on June 8, 1993 at the Pacific Sea Farms facility. The access road is on the makai side, .1 mile west of Tanaka Store on Kam Hwy, outside of Kahuku. Mr. Utne showed me their five wells and explained how they were using the salt water. I had already inspected unused wells 4258-09 and 10 on May 28 & June 4, 1993. I had been waiting for Mr. Utne to return from a trip so I could inspect Pacific Sea Foods facilities with the other three wells.

This facility expects to utilize 50% of their 2-1/2 hectare or 6 acre facility in the near future. They are experimenting with growing mahimahi, oysters, clams and mullet; all on a small scale.

Pacific Sea Farms uses well 4257-01 as their primary salt water source. The system is automated so they were unsure how much water they were using. Their estimate was 1.5 mgd. Their water use declaration state that the pump on 4257-01 has a capacity of 3,500 gpm. I called Roscoe Moss, Inc. and confirmed that the capacities of these pumps was approximately correct. If the pump were operating 24 hours/day, it could pump 6,480,000 gallons per day. The automated equipment was pumping at 75% capacity during the inspection. Neither of the two pumps had meters. The ID # on well 4257-01 read # 9403332-954. Campbell Estate’s GWMZ permit application requested 5,200,000 gpd of salt water from this well.

The ID # on the 100 hp National pump on well 4257-02 read, "9403334-959. The pump on 4257-02 has a capacity of 4,500 gpm and could pump 5,040,000 gallons per day. This well is used as a backup well as an alternative to the 75 hp pump on 4157-01 and to keep the pump in good maintenance. The motors were US Electric brand. These pumps are exposed to the environment, ie not in a pumphouse. Campbell Estate has requested 3,700,000 gpd from this well.

Well 4157-11 has a 15" diameter casing, no pump, no meter. It was located near the shrimp raceways and is exposed to the environment. Campbell Estate’s GWMZ permit application has requested 3,700,000 gpd from this well.
Wells 4258-09 & 10 are located in pumphouses some distance from the Pacific Sea Farms facility. There are no pumps on these wells and no meters present. Campbell Estate's GWMZ permit application has requested 2,000,000 and 5,000,000 gpd from these wells.

Pacific Sea Farms facility is entirely covered to prevent contamination and loss by birds. The cultivation area is restricted, so I did not enter the covered raceways. There are several other small buildings where they are experimenting with other types of seafood cultivation.

Enclosed is a photo taken by DLNR's Aquaculture Development Branch with several aerial photographs. Also attached are photographs taken during the inspection, a USGS quad map, tax map key and other background information available.
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER

GWMZ Applicant: CAMPBELL ESTATE

Campbell Estate's GWMZ permit application requested 3,700,000 gpd of salt water.

Water Use Decl. File Ref. (If any): PAC SEAFARMS

State Well 4157-11  PAC SEA FARMS #3

1. Tax Map Key where the water is used: no use
   Does the declarant own this land? Campbell Estate owns the land.

2. What is the water used for? no current use.

3. Is the quantity of water use being measured? NO

4. If this person takes from a multi-user pipe or ditch system? NO

PART II: WATER SOURCE  State Well #4157-11  Name: Pacific Sea Farms #3

1. Where does the water come from/what kind of source is this? 15" diameter cased well with no pump present.

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.
   How is the water taken? no use, no pump.
   What is the capacity for taking (gpm)? none
   How often is it taken (used)? n/a

3. Tax Map Key at the source: TMK: 5-6-2:9
   Determine declarant's relation to source.
   Does the declarant:
   1) Operate and maintain the source? Pacific Sea Farms operates the well.
   2) Own the land at the source? Campbell Estate owns the land the source is on.
   3) Use the water from this source? no current use.
   4) Own the land where the water is being used? Campbell Estate owns the land.

4. Does anyone else also use water from this source? NO

Verified by Susan K. Swanson   Inspection Date: June 8, 1993
FIELD MEMORANDUM

FILE REF.: CAMPBELL ESTATE

SOURCES: Salt Water Well # 4258-05, with a 40 hp pump, water used to grow ogo & shrimp
Salt Water Wells # 4258-06 & 4258-07 No current use, future use planned by Hawaii Aquaculture Inc.

Note: These wells are located on TMK: 5-7-26 (Lot 161).

PRESENT: Jim Menor, Admin. Natural Resources, Campbell Estate (5/28/93)
Terry Astro, Aurea Marine (6/4/93)
Susan Swanson, CWRM

LOCATION: Kahuku, Oahu

FIELD NOTES: I visited these three wells during several days of field inspections of Campbell Estate wells in the Kahuku area with Jim Menor, Administrator of Natural Resources, Campbell Estate. During the course of the inspections, at least nine more salt water wells on Campbell Estate land were identified and added to the State Well Map.

Well 4258-05 is currently being used by Aurea Marine. A new lessee (12 acres), Hawaii Aquaculture Inc. plans future use of 4258-06 and 07. Campbell Estate filed GWMZ permit applications requesting for 5 mgd from 4258-05 and 3 mgd each from 4258-06 and 4258-07.

Dr. Linden Burzell of AMORIENT filed water use declarations for 4258-05, 06, 07 listing himself as user and CAMPBELL ESTATE as the owner, but may have been referring to another well with the incorrect well number. Dr. Burzell is no longer at Amorient. Amorient does not use any of these wells, nor does it lease the land the wells are on.

Campbell Estate recently leased wells 4258-06 and 07 to Hawaii Aquaculture Inc. The field report information is being filed under Campbell Estate. In the questions listed in the Field Inspection Checklist for these wells, "declarant" is presumed to be Campbell Estate.

In March 1992, Mr. Astro relayed a verbal complaint (File C-92-3) to our office regarding increased costs of pumping due to lowered water levels. In March and again in May, 1992 several staff members from our office visited Aurea Marine to make observations, take photographs, etc. Mr. Astro submitted bills verifying the increased number of kilowatt hours/day used. General observations from those inspections have been included as background information. Although the complaint investigation mentioned someone using well 4258-06, evidently the use was not authorized by Campbell Estate. In any case, the pump was removed and no use exists currently.
Campbell Estate Wells
Well # 4258-05, 06, 07
Field Inspection Memo
Page Two  June 4, 1993

History of the wells:

The well file for 4258-05,06 & 07, contains a report by Belt, Collins & Assoc., dated 4/81, listing eight wells drilled between 1976 and 1981 for the "Kahuku Seafood Plantation." Background information on wells 4258-05, 06 & 07 is listed in that report with a location sketches, pump test information and information from the driller's log as to depth, etc. Attached are several excerpts from that report.

After Kahuku Seafood Plantation's demise, the parcel was broken up into several different leases. One well (4258-05) was leased by Aurea Marine; the other two wells (4258-06 & 07) were recently leased by Hawaii Aquaculture Inc. Five more wells listed in the Belt Collins & Assoc. report (4258-12,13,15, 16 & 17) are leased by Amorient and reported on with Amorient's field inspection reports.

Attached to this report is a photocopy of an aerial photo with the locations of these three wells noted. After field verification, the locations on the State Well map were corrected (copy attached). A tax map key, copy of the GWMZ permit applications and water use declarations are also attached.

Attachments:

Field Inspection Checklists for wells 4258-05, 06 & 07
Excerpts from the 1981 Belt, Collins & Assoc. Report
Excerpt from Sept/Oct issue, SEAFOOD LEADER
 Photocopy of Aerial Photo
Portion of the USGS Map, Kahuku Quadrangle
 Tax Key Map
GWMZ permit applications
Water use declarations
Photos # 1-15 of well 4258-05
Photos # 1-3 of well 4258-06
Photos # 1-3 of well 4258-07
Photos & sketch from 3/92 field visit
INDEX KEY TO USE (6/93)

FRESH WATER WELLS
- BLUE -- IN USE
- GREEN -- NOT IN USE

SALT WATER WELLS
- PURPLE -- IN USE
- BROWN -- USED AS BACKUP
- YELLOW -- NOT IN USE
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER  
State Well # 4258-05

GWMZ Applicant:  CAMPBELL ESTATE is requesting 5,000,000 gpd of salt water from this well.

Water Use Decl. File Ref. (If any): Linden Burzell of Amorient filed a water use declaration for well 4258-05, listing Campbell Estate as owner but may have been referring to a different well by an incorrect well number. Amorient does not use any water from this well, nor do they lease the land the well is on. In the Field Checklist below, I am using Campbell Estate as "declarant".

Terry Astro has been operating Aurea Marine for the last seven years at this site. He did not file a water use declaration.

1. Tax Map Key where the water is used:  5-6-3:26 (Lot 161)
   Does the declarant (Campbell) own this land? Yes
2. What is the water used for? salt water used for ogo cultivation. Mr. Astro has 15 baskets of ogo, floating in two 24' x 150 oyster trenches. He harvests as much as 500 lbs/week.
3. Is the quantity of water use being measured? NO
4. If this person takes from a multi-user pipe or ditch system? NO

PART II: WATER SOURCE  
Well # 4258-05

1. Where does the water come from/what kind of source is this? 20" cased salt water well, 60' deep, drilled for the now defunct "Kahuku Seafood Plantation." now used by Aurea Marine.
2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? 40 hp electric pump manually turned on when needed to top off the ogo tanks. The water is also used for the shrimp hatchery shown in photos 10 & 11.
3. What is the capacity for taking (gpm)? Mr. Astro estimated the capacity at 2500 gpm. At that rate, operating 24 hours/day, he would pump 3,600,000 gpd. The amount requested is 1,400,000 gpd greater than the estimated capacity of the current pump installed.
   How often is it taken (used)? As needed. Mr. Astro documents the amount of pumpage with electricity bills. He indicated that the pump had used $400 electricity in May, 1993.

3. Tax Map Key at the source:  TMK: 5-6-3:26 (Lot 161)
   Determine declarant's relation to source.
   Does the declarant (Campbell):
   1) Operate and maintain the source? Yes
   2) Own the land at the source? Yes
   3) Use the water from this source? Yes
   4) Own the land where the water is being used? Yes
4. Does any one else also use water from this source? NO

Verified by Susan K. Swanson   Inspection Date: June 4, 1993
Well # 4358-05, Terry Astro, operator of Aurea Marine (See Photos # 1 - 15) grows ogo and is hatching salt water shrimp. Salt water is pumped by a 40 hp pump from this 20" diameter salt water well.

Aurea Marine occupies approx. 4 acres, located at the end of the access road, marked "Pua's" off Marconi Road outside of Kahuku. At the dead end, Amorient's Pact office is to the left; Aurea Marine is to the right. Terry Astro lives on the property, cultivating ogo and an experimental shrimp hatchery with Japanese backing. He met me on the property at 10:00 am on June 4, 1993. Mr. Menor of Campbell Estate did not accompany me due to a legal dispute between Campbell Estate and Aurea Marine.

Terry Astro showed me his 40 hp pump and estimated the pump capacity of 2500 gpm. The Belt, Collins, & Associates report listed the pump installation in April, 1976 with total depth of well at 60', 20" casing, with solid casing to 5'.

Mr. Astro pumps salt water from the well into two 24' x 150' oyster trenches for cultivation of ogo. I observed 15 ogo baskets; Mr. Astro said each basket has the capacity to hold 500 lbs. of ogo. This is currently his primary business, in addition to breeding red tilapia. Mr. Astro indicated that he tops off the ogo tanks, but does not continuously run water into and out of the tanks. He gages his water use by the amount of electricity the pumps use. He had earlier submitted several electrical bills when he filed the complaint last year. In June 1993, he indicated that he had used $400 in electricity in the last month. He also is supplied a small amount of fresh water for domestic use from Campbell Estate's Kahuku Airbase well, 4158-12.

Mr. Astro showed me a large (one acre +) dry and empty concrete-lined salt water reservoir, originally listed as an "Algal pond" in the Belt, Collin & Assoc. report, on the east side of the property that he intends to stock with salt water shrimp. The shrimp are being raised in a hatchery shown in photos # 10 & 11. He expected to move the shrimp to the large pond sometime in the next year. At that time, his water use will increase significantly. Mr. Astro's business was described in the Sept/October 1990 issue of "SEAFOOD LEADER." An excerpt is included in this report.
FIELD MEMORANDUM

FILE REF.: Original report in File Ref: CAMPBELL ESTATE, Photocopies in File Ref: AMORIENT

DATE: May 28, and June 8, 1993

PRESENT: Jim Menor, Admin. Natural Resource, Campbell Estate Nick Carpenter, Manager, and Mitch Smith, Amorient Susan Swanson, CWRM

LOCATION: Kahuku, Oahu

SOURCES: AMORIENT USES WATER IN AND FROM FOUR GENERAL AREAS:

1) RCA Building (salt water shrimp hatchery with RCA Building supplied by 4258-08 & 14),
2) PACT Office (36 - 1/4 acre salt water shrimp's post-larval stage growing area and 12-1/10 acres shrimp ponds (supplied by 4258-12 & 4258-13 —backup),
3) Pump 15 Use Area (4157-04) (supplies 31 one acre fresh water prawn ponds, a roadside shrimp stand with water and six Air Force Buildings with potable water) and
4) IKKO WELL Area (4157-09) (110 one acre salt water shrimp ponds)

UNUSED WELLS OPERATED BY AMORIENT: 4258-04 brackish, 4258-15, 4258-16 & 4258-17 and 4157-03 (casing buried under a roadway).

FIELD NOTES: I met with Jim Menor of Campbell Estate and Amorient, on May 28, 1993 and returned on June 8, 1993 to confirm the coordinates of many of their wells. My inspections were prior to Campbell Estate’s submittal of GWMZ permit applications. It was necessary to make a field inspection to locate and conclusively identify all their wells in the area. As a result, I added eleven Campbell Estate wells to the State Well Registry and State Well Map.

Amorient operates seven of these newly listed wells: Well 4258-14 near the RCA Bldg., Wells 4258-12, 4258-13, 4258-15, 4258-16, 4258-17 at Amorient's PACT Office and 4157-09 (IKKO Well). Other wells operated by Amorient are 4258-04, 4258-08, and 4157-04 aka (Pump 15).

All pumpage reported for Amorient is estimated—most of the wells are unmetered; 4157-04 (Pump 15) has a meter that has been broken for a number of years.

This report supersedes any previous field inspections done. Photographs taken in on May 28 & 6/8/93 are included with this report, as well as any background information available. The following pages describe the Campbell Estate wells operated by Amorient.
FIELD INSPECTION CHECKLISTS FOR CAMPBELL ESTATE WELLS OPERATED OR USED BY AMORIENT AS OF JUNE, 1993

Note: Salt Water Wells on Amorient's leased land, Wells # 4258-12, 13, 14, 15, 16, 17 and 4157-09 have been recently added to the State Well map. Until a change in policy, salt water wells were not being recorded on the State well map and were not consistently being assigned state well numbers such as fresh water wells are numbered. The fact that not all wells in the area were clearly identified with well numbers may have contributed to the confusion of the situation when, in 1989, Amorient filed water use declarations and misidentified some of their wells. In essence, they filed for some of the wrong wells.

Dr. Linden Burzell, formerly of Amorient, is no longer with the company. Dr. Burzell assisted field personnel in an inspection in 4/91, but misidentified wells on the declarations and during the field inspections. This report supercedes any previous inspections.

Wells in use documented in this report: WELLS 4258-08 & 14, 4258-12 & 13, 4157-09 (IKKO Well), 4157-04 (PUMP 15) -- THOSE WELLS ARE CURRENTLY BEING USED BY AMORIENT.

Also included in this report are Wells 4258-04, -15, -16, -17, 4157-03 (buried) which are located on property leased by Amorient but are not currently in use.

Of the above wells, Amorient filed water use declarations for the following: 4258-04, 4258-08, and pump 15 (4157-04). Amorient also filed for Wells 4258-05, 06 & 07 but I think that he just misidentified wells 4258-15, 16 & 17. When Dr. Burzell, in 1991, took staff to inspect the wells he was identifying as 4258-05, 06 & 07, they were shown 4258-15 and other wells.

Under the catagory "Wells Amorient filed declarations for, that are abandoned or buried" are the following:
1) a well buried under an access road, (4157-03), and 2) well "4157-05" which evidently was an abandoned salt water dug well, which no longer exists. The number was reassigned in 1987 to a new well drilled for the U.S. Fish & Wildlife.

NOT CONTAINED IN THIS REPORT: File Ref: CAMPBELL EST will contain individual reports on the following wells: (Campbell Estate is the operator of the following wells.)
1) the battery of six wells at Pump 3 (3957-01 to 06) -- no apparent relation with Amorient. This battery of wells has been documented in the File Ref: CAMPBELL EST.
2) Dr. Burzell filed a water use declaration for Pump 5, a battery of abandoned wells that Campbell owns. When Dr. Burzell took staff to inspect what he was calling Pump 5, he actually took them to the Kahuku Airbase Well (4158-12,13). He misidentified the well on the declaration and in person, and also didn't have access to a key to the pumphouse. Amorient's office in the RCA Building is a small end user of water from the Kahuku Airbase well. Campbell Estate operates Well 4158-12 & 13. The operation and use of water from the Kahuku Airbase well will be documented in the File Ref: CAMPBELL EST water use declaration file. Both Pump 5 and the Kahuku Airbase well are reported on under CAMPBELL EST.
3) Pump 2 (4159-01) at one time, was managed but not used by Amorient. Campbell Estate took over the operation of this well. It will be reported on in File Ref: CAMPBELL EST.
Campbell Estate Wells
Operated by Amorient
Field Inspected 5/28 & 6/8/93

GENERAL USE AREA: RCA BUILDING (HATCHERY) - WELLS # 4258-08 & #4258-14 IN USE, #4258-04 (UNUSED)  See relevant photos for these Well #'s.

Amorient's shrimp hatchery is located in the old RCA Building near the abandoned Kahuku Airstrip at the end of Marconi Road, between Kahuku and Turtle Bay on Oahu. There are three wells at this site; two salt water wells and a old Kahuku Plantation fresh to brackish well.

The salt water wells are 4" diameter pvc, cased salt water wells that have 2" suction intakes. There is a single 3 hp pump, located over 4258-08, that pumps from both wells simultaneously at a combined rate of 80 gpm. The pump operates 24 hours/day supplying salt water to the shrimp hatchery located in the RCA Building. Included in this report is a color photocopy of the inside of the hatchery. This area is restricted from visitors to prevent contamination of the newly hatched shrimp from naturally occurring shrimp viruses.

The third well near this facility is a 12" diameter, well drilled in 1933, # 4258-04 and is currently unused. The well has a 3 hp pump with a 2" output pipe. This well has not been used in several years. The chlorides listed in the well registry for this well range from 156 to 600 mg/l.

Campbell Estate has requested 300,000 gallons per day of brackish water for use in the hatchery from Well # 4258-04. (This well is currently not in use.)

Their GWMZ permit application requested 300,000 gallons per day from each of wells 4258-08 and 4258-14 for shrimp aquaculture at the RCA Building (hatchery). Currently they have one 3 hp pump which withdraws from both wells, a combined amount of 80 gpm. The capacity of the pump is a total of 115,200 gpd.
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER

GWMZ Applicant: Campbell Estate

State Well # WELL 4258-08 (RCA Bldg.)

1. Tax Map Key where the water is used: TMK: 5-6-3:32
   Does the declarant own this land? Campbell owns the land.

2. What is the water used for? Salt water from this well is used in the shrimp hatchery in the RCA Building.

3. Is the quantity of water use being measured? No

4. If this person takes from a multi-user pipe or ditch system? No

PART II: WATER SOURCE

State Well # 4258-08 Name: RCA Bldg Salt # 1

1. Where does the water come from/what kind of source is this? 4" pvc cased salt water well with 2" suction hose into casing.

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.
   How is the water taken? One 3 hp pump withdraws water from both well simultaneously.
   What is the capacity for taking (gpm)? combined capacity of 80 gpm total from both wells.
   How often is it taken (used)? 24 hours/day everyday.

3. Tax Map Key at the source: TMK: 5-6-3:32
   Determine declarant's relation to source.

   Does the declarant:
   1) Operate and maintain the source? Amorent operates this well.
   2) Own the land at the source? Campbell Estate owns the well.
   3) Use the water from this source? Amorent uses the water.
   4) Own the land where the water is being used? Campbell Estate owns the land.

4. Does any one else also use water from this source? No

Verified by Susan K. Swanson Inspection Dates: May 28 & June 8, 1993
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER

GWMZ Applicant: Campbell Estate

State Well # WELL 4258-14 (RCA Bldg.)

1. Tax Map Key where the water is used: TMK: 5-6-3:32
   Does the declarant own this land? Campbell owns the land.

2. What is the water used for? Salt water from this well is used in the shrimp hatchery in the RCA Building.

3. Is the quantity of water use being measured? No

4. If this person takes from a multi-user pipe or ditch system? No

PART II: WATER SOURCE

State Well #4258-14 Name: RCA Bldg Salt # 2

1. Where does the water come from/what kind of source is this? 4" pvc casing with 2" suction in salt water well.

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.
   How is the water taken? The one 3 hp pump is located in a pump house over well 4258-08.
   What is the capacity for taking (gpm)? 80 gpm combined capacity from both wells.
   How often is it taken (used)? 24 hours/day everyday.

3. Tax Map Key at the source: TMK: 5-6-3:32
   Determine declarant's relation to source.

   Does the declarant:
   1) Operate and maintain the source? Amorient operates this well.
   2) Own the land at the source? Campbell Estate owns the well.
   3) Use the water from this source? Amorient uses the water.
   4) Own the land where the water is being used? Campbell Estate owns the land.

4. Does any one else also use water from this source? NO

Verified by Susan K. Swanson Inspection Dates: May 28 & June 8, 1993
FIELD MEMORANDUM

FILE REF.: CAMPBELL ESTATE

SOURCES:  
Salt Water Well # 4258-05, with a 40 hp pump, water used to grow ogo & shrimp
Salt Water Wells # 4258-06 & 4258-07 No current use, future use planned by Hawaii Aquaculture Inc.

Note: These wells are located on TMK: 5-3-6:26 (Lot 161).

PRESENT:  
Jim Menor, Admin. Natural Resources, Campbell Estate (5/28/93)
Terry Astro, Aurea Marine (6/4/93)
Susan Swanson, CWRM

LOCATION:  
Kahuku, Oahu

FIELD NOTES:  
I visited these three wells during several days of field inspections of Campbell Estate wells in the Kahuku area with Jim Menor, Administrator of Natural Resources, Campbell Estate. During the course of the inspections, at least nine more salt water wells on Campbell Estate land were identified and added to the State Well Map.

Well 4258-05 is currently being used by Aurea Marine. A new lessee (12 acres), Hawaii Aquaculture Inc. plans future use of 4258-06 and 07. Campbell Estate filed GWMZ permit applications requesting for 5 mgd from 4258-05 and 3 mgd each from 4258-06 and 4258-07.

Dr. Linden Burzell of AMORIENT filed water use declarations for 4258-05, 06, 07 listing himself as user and CAMPBELL ESTATE as the owner, but may have been referring to another well with the incorrect well number. Dr. Burzell is no longer at Amorient. Amorient does not use any of these wells, nor does it lease the land the wells are on.

Campbell Estate recently leased wells 4258-06 and 07 to Hawaii Aquaculture Inc. The field report information is being filed under Campbell Estate. In the questions listed in the Field Inspection Checklist for these wells, "declarant" is presumed to be Campbell Estate.

In March 1992, Mr. Astro relayed a verbal complaint (File C-92-3) to our office regarding increased costs of pumping due to lowered water levels. In March and again in May, 1992 several staff members from our office visited Aurea Marine to make observations, take photographs, etc. Mr. Astro submitted bills verifying the increased number of kilowatt hours/day used. General observations from those inspections have been included as background information. Although the complaint investigation mentioned someone using well 4258-06, evidently the use was not authorized by Campbell Estate. In any case, the pump was removed and no use exists currently.
History of the wells:

The well file for 4258-05, 06 & 07, contains a report by Belt, Collins & Assoc., dated 4/81, listing eight wells drilled between 1976 and 1981 for the "Kahuku Seafood Plantation." Background information on wells 4258-05, 06 & 07 is listed in that report with a location sketches, pump test information and information from the driller's log as to depth, etc. Attached are several excerpts from that report.

After Kahuku Seafood Plantation's demise, the parcel was broken up into several different leases. One well (4258-05) was leased by Aurea Marine; the other two wells (4258-06 & 07) were recently leased by Hawaii Aquaculture Inc. Five more wells listed in the Belt Collins & Assoc. report (4258-12,13,15, 16 & 17) are leased by Amorient and reported on with Amorient's field inspection reports.

Attached to this report is a photocopy of an aerial photo with the locations of these three wells noted. After field verification, the locations on the State Well map were corrected (copy attached). A tax map key, copy of the GWMZ permit applications and water use declarations are also attached.

Attachments:

Field Inspection Checklists for wells 4258-05, 06 & 07
Excerpts from the 1981 Belt, Collins & Assoc. Report
Excerpt from Sept/Oct issue, SEAFOOD LEADER
Photocopy of Aerial Photo
Portion of the USGS Map, Kahuku Quadrangle
Tax Key Map
GWMZ permit applications
Water use declarations
Photos # 1-15 of well 4258-05
Photos # 1-3 of well 4258-06
Photos # 1-3 of well 4258-07
Photos & sketch from 3/92 field visit
Campbell Estate Wells
Ins & # 4258-06, 07
Field Inspection Memo
June 4, 1993

Inspection of wells 4258-06 & 07 - currently unused.
(Photos # 1-3 for each well.)

Visited the two unused wells, 4258-06 & 07, with Jim Menor, on May 28, 1993 and again on 6/4/93 with Jerry Astro. I took coordinates with the Global Positioning System and photographed each well. Both wells are open 20" casings covered with a board or piece of metal. I measured the depth to water levels from the top of the casings. Neither well currently has a pump. Hawaii Aquaculture Inc. plans to use these sources for their salt water supply after building their facilities. Campbell Estate filed a Ground Water Management Zone permit for these two wells, requesting 3,000,000 gpd for each of these wells.

4258-06

This well was drilled in August of 1976 to a depth of 80'. No pump is installed; the open 20" casing was covered with a board and concrete blocks. I measured the depth to water level from top of casing at 3'11" during the inspection on 6/4/93. This well is located 150' makai from Amorient's fence. This was the well, evidently in some use in March 1992 by Randy Hagood. I inquired at Amorient, Campbell Estate and Aurea Marine regarding Mr. Hagood's use. However, I was unable to get very much information. Mr. Astro told me that the experiment was abandoned due to theft of the seafood being grown. Jim Menor of Campbell Estate told me that they had not authorized anyone to use the well.

4258-07

4258-07 was drilled in February of 1977 to a total depth of 100'. Solid casing was installed to a depth of 20'. The depth from top of casing to water level was 6'1" in well # 4258-07. This well had been enclosed in a wooden pumphouse; however, the pumphouse was no longer standing. The well appeared not to be used in a long time.
FIELD INSPECTION INFORMATION CHECKLIST

I. USE OF WATER

State Well # 4258-06

MZ Applicant: CAMPBELL ESTATE is requesting 3,000,000 gpd of salt water from this well.

Jen Burzell of Amorient filed a water use declaration for well 4258-06, listing Campbell Estate as the declarant but may have been referring to a different well by an incorrect well number. Amorient does not have any water from this well, nor do they lease the land the well is on.

The Field Checklist below, I am using Campbell Estate as "declarant".

Tax Map Key where the water is used: 5-6-3:26 (Lot 161)
Does the declarant (Campbell) own this land? Yes
What is the water used for? No current use..projected future use.
Is the quantity of water use being measured? NO
If this person takes from a multi-user pipe or ditch system? NO

II. WATER SOURCE

State Well # 4258-06

Where does the water come from/what kind of source is this? 20" cased salt water well, 80' deep, drilled for the now defunct "Kahuku Seafood Plantation." Now leased by Hawaii Aquaculture Inc., a new company which has not yet built its facilities. The depth from top of casing to water level was 3'11" on 6/4/93.

Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.

How is the water taken? No current use - no pumps installed.
What is the capacity for taking (gpm)? No pumps installed.
How often is it taken (used)? No current use.

Tax Map Key at the source: TMK: 5-6-3:26 (Lot 161)
Latitude: 21-42-20; longitude 157-58-12
Determine declarant's relation to source.
Does the declarant (Campbell):
1) Operate and maintain the source? Yes
2) Own the land at the source? Yes
3) Use the water from this source? No
4) Own the land where the water is being used? No current use.

Does anyone else also use water from this source? NO

Verified by Susan K. Swanson    Inspection Date: June 4, 1993
FIELD INSPECTION INFORMATION CHECKLIST

I. USE OF WATER  

State Well # 4258-07

'MZ Applicant:  CAMPBELL ESTATE is requesting 3,000,000 gpd of salt water from this well.

Water Use Decl. File Ref. (If any): Linden Burzell of Amorient filed a water use declaration for well 4258-4291, listing Campbell Estate as owner but may have been referring to a different well by an incorrect well number. Amorient does not use any water from this well, not do they lease the land the well is on.

Tax Map Key where the water is used:  5-6-3:26 (Lot 161)
Does the declarant (Campbell) own this land?  Yes
What is the water used for? No current use..projected future use.
Is the quantity of water use being measured?  NO
If this person takes from a multi-user pipe or ditch system?  NO

II. WATER SOURCE  

Well # 4258-07

Where does the water come from/what kind of source is this?  20" cased salt water well, 100' deep, drilled for the now defunct "Kahuku Seafood Plantation." Now leased by Hawaii Aquaculture Inc., a new company which has not yet built its facilities. The depth from top of casing to water level was 6'1" on 6/4/93.

Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.
How is the water taken?  No current use - no pumps installed.
What is the capacity for taking (gpm)?  No pumps installed.
How often is it taken (used)?  No current use.

3. Tax Map Key at the source:  TMK: 5-6-3:26 (Lot 161)
Latitude: 21-42-28; longitude 157-58-10
Determine declarant's relation to source.
Does the declarant (Campbell):
1)  Operate and maintain the source?  Yes
2)  Own the land at the source?  Yes
3)  Use the water from this source?  No
4)  Own the land where the water is being used?  No current use.

4. Does any one else also use water from this source?  NO

Verified by Susan K. Swanson  Inspection Date:  June 4, 1993
FIELD INSPECTION INFORMATION CHECKLIST

I I: USE OF WATER

Applicant: Campbell Estate

State Well # WELL 4258-12 (PACT Office Wells)

Tax Map Key where the water is used: TMK: 5-6-3:26

Does the declarant own this land? Campbell owns the land.

What is the water used for? Salt water for 36 1/4 acres ponds and 4-1/10 ac broodstock ponds. They are trying to grow their own virus free brood stock at this facility. The ponds in this area are covered with netting to prevent birds from spreading naturally occurring viruses to the broodstock. Evidently, it is important to keep the shrimp virus free in the early stages of their life cycle. The virus drastically limits the shrimp growth rate.

Is the quantity of water use being measured? No

If this person takes from a multi-user pipe or ditch system? No

ART II: WATER SOURCE

State Well # 4258-12  Name: Amor PACT Office # 1

Where does the water come from/what kind of source is this? Cased salt water well

Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.

How is the water taken? 50 hp Peerless pump with a GE Electric motor

What is the capacity for taking (gpm)? 4000 gpm

How often is it taken (used)? 4 hours to 6 hours per day

Tax Map Key at the source: TMK: 5-6-3:26

Determine declarant's relation to source.

Does the declarant:

1) Operate and maintain the source? Amoriente operates this well.

2) Own the land at the source? Campbell Estate owns the well.

3) Use the water from this source? Amoriente uses the water.

4) Own the land where the water is being used? Campbell Estate owns the land.

Does any one else also use water from this source? No

Verified by Susan K. Swanson  Inspection Dates: May 28 & June 8, 1993
FIELD INSPECTION INFORMATION CHECKLIST

I. USE OF WATER

Applicant: Campbell Estate

Well #: WELL 4258-13 (PACT Office Wells)

Tax Map Key where the water is used: TMK: 5-6-3:26
Does the declarant own this land? Campbell owns the land.

What is the water used for? This well is used for the backup supply of salt water for 36 1/4 ac broodstock shrimp ponds and 4-1/10 acre ponds.

Is the quantity of water use being measured? No

If this person takes from a multi-user pipe or ditch system? No

II. WATER SOURCE

State Well #: 4258-13 Name: Amor Pact Office # 2

Where does the water come from/what kind of source is this? 20" cased salt water well drilled in 1981 to a depth of 100' for the Kahuku Seafood Plantation.

Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.

How is the water taken? 50 hp peerless pump with GE motor.

What is the capacity for taking (gpm)? 4000 gpm

How often is it taken (used)? backup supply for well 4258-12. Pump operated to maintain pump in good running condition.

1. Tax Map Key at the source: TMK 5-6-3:26
Determine declarant's relation to source.

Does the declarant:
1) Operate and maintain the source? Amorient operates this well.
2) Own the land at the source? Campbell Estate owns the well.
3) Use the water from this source? Amorient uses the water.
4) Own the land where the water is being used? Campbell Estate owns the land.

4. Does anyone else also use water from this source? NO

Verified by Susan K. Swanson Inspection Dates: May 28 & June 8, 1993
FIELD INSPECTION INFORMATION CHECKLIST

Applicant: Campbell Estate

Te Well # 4258-15, -16, -17 (No current use from these wells.)

T I: USE OF WATER

Tax Map Key where the water is used: No current use.
Does the declarant own this land? Campbell owns the land.

What is the water used for? n/a

Is the quantity of water use being measured? n/a

If this person takes from a multi-user pipe or ditch system? No

RT II: WATER SOURCE

State Well #'s 4258-15, -16 & -17

Name: AMORIENT PACT WELLS

Where does the water come from/what kind of source is this? cased 20" diameter salt water well drilled to a depth of 100' in 1981.

Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.

How is the water taken? No pumps present, no current use.
What is the capacity for taking (gpm)? none
How often is it taken (used)? No current use.

Tax Map Key at the source: TMK: 5-6-3:26
Determine declarant's relation to source.

Does the declarant:
1) Operate and maintain the source? Amorient operates these wells.
2) Own the land at the source? Campbell Estate owns these wells.
3) Use the water from this source? No current use.
4) Own the land where the water is being used? No current use.

4. Does any one else also use water from this source? NO

Verified by Susan K. Swanson
Inspection Dates: May 28 & June 8, 1993
Bank of Hawaii

ESTATE OF JAMES CAMPBELL

DATE: JUN 21, 93
CHECK NO.
AMOUNT: $25.00

Department of Land & Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Bank of Hawaii

STATE OF JAMES CAMPBELL

DATE: JUN 21, 93
CHECK NO.
AMOUNT: $25.00

Department of Land & Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Bank of Hawaii

ESTATE OF JAMES CAMPBELL

DATE: JUN 21, 93
CHECK NO.
AMOUNT: $25.00

Department of Land & Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

TD Field 7/4/93
Bank of Hawaii
ESTATE OF JAMES CAMPBELL
AMPHRELL BUILDING • SUITE 500
1 STREET MALL • HONOLULU, HAWAII 96813-4380

DATE: JUN 21, 93
CHECK NO. 
AMOUNT: $25.00

To Department of Land & Natural Resources
Commission on Water Resources Management
P.O. Box 621
Honolulu, HI 96809

TO KAY 7/14/93

Bank of Hawaii
ESTATE OF JAMES CAMPBELL
AMPHRELL BUILDING • SUITE 500
1 STREET MALL • HONOLULU, HAWAII 96813-4380

DATE: JUN 21, 93
CHECK NO. 
AMOUNT: $25.00

To Department of Land & Natural Resources
Commission on Water Resources Management
P.O. Box 621
Honolulu, HI 96809

TO KAY 7/14/93
Mr. Roy Hardy  
State of Hawaii  
Commission on Water Resource Management  
Department of Land and Natural Resources

Dear Mr. Hardy:

Application for Water Use Permits  
Salt Water

Enclosed are 18 applications for water use permits for the following wells, along with a $25 filing fee for each application.

Well 4258-08  
Well 4258-14  
Well 4258-12  
Well 4258-13  
Well 4258-15  
Well 4258-16  
Well 4258-17  
Well 4157-09

Well 4258-05  
Well 4258-06  
Well 4258-07  
Well 4157-08  
Well 4157-10  
Well 4257-01  
Well 4257-02  
Well 4157-11  
Well 4258-10

If you need additional information, please give me a call at [redacted].

Sincerely,

[Signature]

James E. Menor  
Administrator,  
Natural Resources
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT
   The Estate of James Campbell

   (b) LANDOWNER
   The Estate of James Campbell

2. WATER MANAGEMENT AREA: Windward Oahu/Ko'olaua
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
   (well or stream diversion name/number)

   (b) PROPOSED (NEW) SOURCE NAME:

4. SOURCE LOCATION: Address
   Kahuku
   Tax Map Key: S-4-3:24

5. SOURCE TYPE (check one):
   Stream  ☐  Dike-overflow  ☐  Perched  ☐  Caprock

6. METHOD OF TAKING WATER (check one):
   Artesian Flow  ☐  Well & Pump  ☐  Diverted Surface Flow  Other (explain)

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same map as source location. Otherwise, attach separate map)
   (a) Address: Kahuku
   (b) Land Use District: Urban, Agriculture, Conservation, Rural
   (c) County Zoning (describe)

8. QUANTITY OF WATER REQUESTED: 5,000,000 gallons per day

9. METHOD OF MEASUREMENT: Flowmeter ☐  Open-pipe ☐  Weir ☐  Office ☐ Other (explain)

10. QUALITY OF WATER REQUESTED: Fresh ☐  Brackish ☐  Salt ☐  Potable ☐ Non-Potable

11. PROPOSED USE: ☐  Municipal (including hotels, stores, etc.) ☐  Domestic (individual, noncommercial, etc.) ☐  Irrigation
    ☐  Industrial ☐  Military ☐  Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
    12 acres 100% Aquaculture

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day (indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
   (a) Impact on Sustainable yield (?): None
   (b) Permanant or Interim Instream Flow Standards affected (?): None
   (c) Hawaiian Home Land uses affected (?): None
   (d) Other existing legal uses affected (?): None
   (e) Other:

16. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back side)

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and Instream Flow Standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, application under those parts pertaining to surface water use shall be submitted along with the application require one.

Applicant (print) The Estate of James Campbell
Signature
Date 6/17/93

Landowner (print) The Estate of James Campbell
Signature
Date 6/17/93

For Official Use Only:
Date Received
Date Accepted

Hydrologic Unit No.
Diversion Wells No.
State Well No.

Notice Dates:
Public Mayor SWS Mail List Bulletin Public Hearing
**APPLICATION FOR WATER USE PERMIT**

- **Ground Water** or  **Surface Water**

**INSTRUCTIONS:** Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, State of Hawaii, 665 South King Street, Honolulu, Hawaii 96813. Application must be accompanied by a non-refundable filing fee of $50.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at (808) 587-8476.

1. **(a) APPLICANT**
   - **Name:** The Estate of James Campbell
   - **Address:**
   - **Contact Person:** Donna Goth
   - **Phone:**

2. **WATER MANAGEMENT AREA**
   - **Area:** Windward Oahu/Ko'olua
   - **ISLAND:** Oahu
   - **Tax Map Key:** 5-6-03:61
   - **Well No.:** 4258-06

3. **(b) PROPOSED (NEW) SOURCE NAME:**

4. **SOURCE LOCATION**
   - **Address:** Kahuku
   - **Tax Map Key:** 5-6-03:61

5. **SOURCE TYPE**
   - **Stream**
   - **Basin**
   - **Dike-confined**
   - **Perched**
   - **Cape Brock**

6. **METHOD OF TAKING WATER**
   - **Asian Flow**
   - **Well & Pump**
   - **Diverted Surface Flow**
   - **Other (explain)**

7. **LOCATION OF PROPOSED WATER USE:**
   - **Address:**
   - **Land Use District:** Urban-Agric.
   - **County Zoning (describe):**

8. **QUANTITY OF WATER REQUESTED:** 3,000,000 gallons per day

9. **METHOD OF MEASUREMENT**
   - **Flowmeter**
   - **Open-pipe**
   - **Water**
   - **Orifice**
   - **Other (explain)**

10. **QUALITY OF WATER REQUESTED**
    - **Fresh**
    - **Brackish**
    - **Salt**
    - **Potable**
    - **Non-Potable**

11. **PROPOSED USE**
    - **Municipal** (including hotels, stores, etc.)
    - **Domestic** (individual, noncommercial, etc.)
    - **Irrigation**
    - **Industrial**
    - **Military**
    - **Other (explain)**

12. **NUMBER AND TYPE OF UNITS TO BE SERVED**
    - **Aquaculture**

13. **TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:**
    - **n/a**
    - **Shrimp**
    - **(acres)**
    - **(crop)**

14. **PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:**
    - 24 hours per day

15. **APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:**
    - **Impact on Sustainable yield (1):** None
    - **Permanent or Intermittent Instream Flow Standards affected (1):** None
    - **Hawaiian Home Land uses affected (1):** None
    - **Other existing legal uses affected (1):** None
    - **Other:**

16. **REMARKS, EXPLANATIONS:**

**NOTE:** Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and in-stream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Land uses. In addition, applicants understand that, upon permit or a temporary shortage plan must be submitted prior to the Commission requiring any.
# Application for Water Use Permit

**Ground Water** or **Surface Water**

### 1. Applicant and Landowner
- **Applicant**: The Estate of James Campbell
- **Landowner**: The Estate of James Campbell
- **Contact Person**: Donna Goth
- **Address**: Kahuku
- **Tax Map Key**: S-6-03/161
- **Water Source Name and State Number**: Well No. 4255-07

### 2. Water Management Area
- **Island**: Oahu
- **Watershed**: Windward Oahu/Koolau

### 3. Proposed New Source Name
- **Proposed Source Name**: (blank)

### 4. Source Location
- **Address**: Kahuku
- **Source Type**: Stream
- **Method of Taking Water**: Artesian Flow
- **Location of Proposed Water Use**: Residence

### 5. Quantity of Water Requested
- **Quantity**: 3,000,000 gallons per day

### 6. Method of Measurement
- **Flowmeter**

### 7. Quality of Water Requested
- **Type**: Fresh

### 8. Proposed Use
- **Proposed Use**: Agriculture

### 9. Number and Type of Units to Be Served
- **Number**: n/a

### 10. Total Acres Proposed for Irrigation and Type of Crop
- **Acres**: n/a
- **Crop**: shrimp

### 11. Proposed Time of Water Withdrawal or Diversion
- **Time**: 24 hours per day

### 12. Potential Restrictions on Use
- **Impact on Sustainable Yield**: None
- **Instream Flow Standards Affected**: None
- **Hawaiian Home Lands Use Affected**: None
- **Other Existing Legal Uses Affected**: None

### 13. Remarks, Explanations
- **Remarks**: (blank)

---

**Note**: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands Act uses. In addition, applicant understands that upon permit approval, a water shortage plan must be submitted and approved by the Commission before any use.

**Applicant** (print): The Estate of James Campbell
**Signature**: [Signature]
**Date**: 6/17/13

**Landowner** (print): The Estate of James Campbell
**Signature**: [Signature]
**Date**: 6/17/13

**For Official Use Only**
- **Date Received**
- **Date Accepted**

**Notice Dated**: Public Mayor EWS Mail List Bulletin Public Hearing

**For Commission Use Only**
- **Hydrologic Unit No.**
- **Diversion Works No.**
- **State Well No.**
APPLICATION FOR WATER USE PERMIT

[Page Details]

1. (a) APPLICANT: The Estate of James Campbell
   (b) LANDOWNER: The Estate of James Campbell
   Contact Person: Donna Goth

2. WATER MANAGEMENT AREA: Windward Oahu/Koolauola
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER: Well No. 4258-08
   (b) PROPOSED (NEW) SOURCE NAME: __________________________

4. SOURCE LOCATION: Address: Kahuku - RCA Building
   Tax Map Key: 5-6-03:32
   (Attach a USGS map, scale 1"=2000', and a property tax map showing source location referenced to established property boundaries.)

5. SOURCE TYPE (check one): [ ] Stream [ ] Dike-continued [ ] Perched [ ] Caprock

6. METHOD OF TAKING WATER (check one): [ ] Artesian Flow [ ] Well & Pump [ ] Diverted Surface Flow [ ] Other (explain)

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Address: Kahuku- RCA Building
   Tax Map Key: 5-6-03:32
   (b) Land Use District (check one): [ ] Urban [ ] Agriculture [ ] Conservation [ ] Residential [ ] Commercial [ ] Industrial [ ] Military [ ] Rural
   (c) County Zoning (describe): __________________________

8. QUANTITY OF WATER REQUESTED: 300,000 gallons per day

9. METHOD OF MEASUREMENT: [ ] Flowmeter [ ] Open-pipe [ ] Weir [ ] Orifice [ ] Other (explain)

10. QUALITY OF WATER REQUESTED: [ ] Fresh [ ] Brackish [ ] Salt [ ] Potable [ ] Non-Potable

11. PROPOSED USE: [ ] Municipal (including hotels, stores, etc.) [ ] Domestic (individual, noncommercial, etc.) [ ] Irrigation [ ] Industrial [ ] Military [ ] Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain): __________________________

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP: __________________________
    (acre) __________________________
    (crop) __________________________

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
    (indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?): __________________________
        Unknown
    (b) Permanant or Interim Instream Flow Standards affected (?): __________________________
        None
    (c) Hawaiian Home Land uses affected (?): __________________________
        None
    (d) Other existing legal uses affected (?): __________________________
        None
    (e) Other: __________________________

16. REMARKS, EXPLANATIONS: __________________________

(FIORD space is needed, continue on back side)

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, it is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands water uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

Applicant (print): The Estate of James Campbell
Signature __________________________
Date 6/17/93

Landowner (print): The Estate of James Campbell
Signature __________________________
Date 6/17/93

For Official Use Only:
Notice Date: __________________________
Notice Date: __________________________
Notice Date: __________________________

For Official Use Only:
Date Received: __________________________
Date Approved: __________________________
Date: __________________________

For Official Use Only:
Hydrologic Unit No.: __________________________
Diversion Works No.: __________________________
State Well No.: __________________________

For Official Use Only:
Public: __________________________
Mayor: __________________________
SWS: __________________________
Notice: __________________________

For Official Use Only:
Mail List: __________________________
Bulletin: __________________________
Public Hearing: __________________________
APPLICATION FOR WATER USE PERMIT

Ground Water or Surface Water

1. (a) APPLICANT: The Estate of James Campbell
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Goth

(b) LANDOWNER: The Estate of James Campbell
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Goth

2. WATER MANAGEMENT AREA: Windward Oahu/Ko'olauo
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER: 
   (well or stream diversion name/number)
   (b) PROPOSED (NEW) SOURCE NAME: 

4. SOURCE LOCATION: Address: Kahuku
   Tax Map Key: 5-6-03:161
   (Attach a USGS map, scale "*<000", and a property tax map showing source location referenced to established property boundaries.)

5. SOURCE TYPE (check one): Stream
   Dike-confined
   Perched
   Caprock

6. METHOD OF TAKING WATER (check one): Artesian Flow
   Well & Pump
   Diverted Surface Flow
   Other (explain)

7. LOCATION OF PROPOSED WATER USE: 
   (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Address: Kahuku
   Tax Map Key: 5-6-03:161
   (b) Land Use District (check one): Urban
   Agriculture
   Conservation
   Rural
   (c) County Zoning (describe): AS-2

8. QUANTITY OF WATER REQUESTED: 5,000,000 gallons per day

9. METHOD OF MEASUREMENT: Flowmeter
   Open-pipe
   Well
   Office
   Other (explain)

10. QUALITY OF WATER REQUESTED: Fresh
    Brackish
    Salt
    Potable
    Non-Potable

11. PROPOSED USE: 
    - Municipal (including hotels, stores, etc.)
    - Domestic (individual, noncommercial, etc.)
    - Irrigation
    - Industrial
    - Military
    - Other (explain)
    - Aquaculture

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain): n/a
    Shrimp

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP: n/a
    Shrimp

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
    (Indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?): Unknown
    (b) Permanent or Interim
        Instream Flow Standards affected (?): None
        Hawaiian Home Land uses affected (?): None
        Other existing legal uses affected (?): None
        Other:

16. REMARKS, EXPLANATIONS:

(If more space is needed, continue on back side)

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands Water Units. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted along with the completed permit.

Applicant (print): The Estate of James Campbell
Signature: 6/17/13
Date: 6/17/13

Landowner (print): The Estate of James Campbell
Signature: 6/17/13
Date: 6/17/13

For Official Use Only:
Date Received: __________________________
Date Approved: _______________________
Notice Dates: _________________________
Public Hearing: _______________________

Hydrologic Unit No.: 
Diversion Works No.: 
State Well No.: 

SWS: 
Mail List: 
Bulletin: 

APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT

   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Soth
   Address: Windward Oahu/Ko'olau

(b) LANDOWNER

   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Soth

2. WATER MANAGEMENT AREA: Windward Oahu/Ko'olau
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:

   (well or stream diversion name/number)

(b) PROPOSED (NEW) SOURCE NAME: _______________________

4. SOURCE LOCATION: Address: Kahuku
   Tax Map Key: 5-6-03:161
   (Attach a USGS map, scale 1"=2000', and a property tax map showing source location referenced to established property boundaries.)

5. SOURCE TYPE (check one): □ Stream □ Dike-continued □ Perched □ Caprock

6. METHOD OF TAKING WATER (check one): □ Artesian Flow □ Well & Pump □ Diverted Surface Flow □ Other (explain)

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same map as source location. Otherwise, attach similar maps)
   (a) Address: Kahuku
   (b) Land Use District (check one): □ Urban □ Agriculture □ Conservation □ Rural
   (c) County Zoning (describe) _______________________

8. QUANTITY OF WATER REQUESTED: 3,000,000 gallons per day

9. METHOD OF MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Orifice □ Other (explain)

10. QUALITY OF WATER REQUESTED: □ Fresh □ Brackish □ Salt □ Potable □ Non-Potable

11. PROPOSED USE: □ Municipal (Including hotels, stores, etc.) □ Domestic (Individual, noncommercial, etc.) □ Irrigation
    □ Industrial □ Military □ Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain): Aquaculture

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP: n/a shrimp
    (acres) (crop)

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
    (Indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?): Unknown
    (b) Permanent or Interim Instream Flow Standards affected (?): None
    (c) Hawaiian Home Land used affected (?): None
    (d) Other existing legal uses affected (?): None
    (e) Other: None

16. REMARKS, EXPLANATIONS: _______________________

   (If more space is needed, continue on back side)

   NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicants understand that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

   Applicant (print): The Estate of James Campbell
   Landowner (print): The Estate of James Campbell
   Signature: _______________________
   Date: 6/17/93

   For Official Use Only:
   Case Number: _______________________
   Hearing Date: _______________________
   Decision Date: _______________________
   Hydrologic Unit No. _______________________
   Diversion Works No. _______________________
   State Well No. _______________________
   Notice Dates: _______________________
   Public Hearing _______________________
   Mayor _______________________
   BWS _______________________
   Mail List _______________________
   Bulletin _______________________
   Public Hearing _______________________

   State of Hawaii
   COMMISSION ON WATER RESOURCE MANAGEMENT
   Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT: The Estate of James Campbell
   (b) LANDOWNER: The Estate of James Campbell

2. WATER MANAGEMENT AREA: Windward Oahu/Ko'olau
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
   (b) PROPOSED (NEW) SOURCE NAME: ____________

4. SOURCE LOCATION: Address: Kahuku
   Tax Map Key: 5-6-03:161

5. SOURCE TYPE (check one): C Stream [] Base
   Dike-confined C Perched C Caprock

6. METHOD OF TAKING WATER (check one): C Artesian Flow
   [] Well & Pump C Diverted Surface Flow C Other (explain)

7. LOCATION OF PROPOSED WATER USE: (if possible, show on same maps as source location.
   Otherwise, attach simpler maps)
   (a) Address: Kahuku
   Tax Map Key: 5-6-03:161
   (b) Land Use District (check one): C Urban C Agriculture C Conservation C Rural
   (c) County Zoning (describe) ____________

8. QUANTITY OF WATER REQUESTED: 3,000,000 gallons per day

9. METHOD OF MEASUREMENT: C Flowmeter C Open-pipe C Weir C Office C Other (explain)

10. QUALITY OF WATER REQUESTED: C Fresh C Brackish C Salt C Potable C Non-Potable

11. PROPOSED USE: C Municipal (including hotels, stores, etc.)
    C Domestic (individual, noncommercial, etc.) C Irrigation
    C Industrial C Military C Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain): Aquaculture

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP: n/a shrimp

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?): Unknown
    (b) Permanant or Interim Instream Flow Standards affected (?): None
    (c) Hawaiian Home Land uses affected (?): None
    (d) Other existing legal uses affected (?): None
    (e) Other: None

16. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back side)

   NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted
   by the Commission on Water Resource Management, a permit is subject
   to prior existing permitted uses, changes in sustainable and instream flow standards, reserved uses as defined by
   the Commission, and Hawaiian Home Lands Water uses. In addition to the above, the Department of
   Land and Natural Resources must be notified of the water use permit application.

   Applicant (print) The Estate of James Campbell
   Signature 6/11/93
   Date 6/11/93

   Landowner (print) The Estate of James Campbell
   Signature 6/11/93
   Date 6/11/93

   For Official Use Only:
   Date Received ________
   Date Accepted ________
   Hydrologic Unit No. ________
   Diversion Works No. ________
   State Well No. ________

   Notice Dates: Public ________ Mayor ________ BWS ________ Mail List ________ Bulletin ________ Public Hearing ________
**APPLICATION FOR WATER USE PERMIT**

**State of Hawaii**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**Department of Land and Natural Resources**

---

### 1. (a) APPLICANT
- **Name:** The Estate of James Campbell  
- **Contact Person:** Donna Goth

### 2. WATER MANAGEMENT AREA:
- **Area:** Windward Oahu/Koolauloa  
- **Island:** Oahu

### 3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
- **Name:** Kahuku (RCA Building)  
- **Number:** Well No. 4258-14

(b) PROPOSED (NEW) SOURCE NAME: ________________________________

### 4. SOURCE LOCATION:
- **Address:** Kahuku (RCA Building)  
- **Tax Map Key:** 5-6-03:32

(Attach a USGS map, scale 1"=2000', and a property tax map showing source location referenced to established property boundaries.)

### 5. SOURCE TYPE (check one):
- Stream  
- Dike-conflined  
- Perched  
- Caprock

### 6. METHOD OF TAKING WATER (check one):
- Artesian Flow  
- Well & Pump  
- Diverted Surface Flow  
- Other (explain)

### 7. QUANTITY OF WATER REQUESTED:
- **Gallons per day:** 300,000

### 8. METHOD OF MEASUREMENT:
- Flowmeter  
- Open-pipe  
- Well  
- On-site  
- Other (explain)

### 9. QUALITY OF WATER REQUESTED:
- Fresh  
- Brackish  
- Salt  
- Potable  
- Non-Potable

### 10. PROPOSED USE:
- **Municipal (including hotels, stores, etc.)**  
- **Domestic (individual, noncommercial, etc.)**  
- **Irrigation**  
- **Industrial**  
- **Military**  
- **Other (explain)**

### 11. LOCATION OF PROPOSED WATER USE:
- **Address:** Kahuku (RCA Building)  
- **Tax Map Key:** 5-6-03:32

(If possible, show on same map as source location. Otherwise, attach similar map)

### 12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):
- **Type:** Aquaculture

### 13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
- **Acres:** n/a  
- **Crop:** Shrimp

### 14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:
- **24 hours per day**

### 15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
(a) Impact on Sustainable yield (?):
- **Unknown**

(b) Instream Flow Standards affected (?):
- **None**

(c) Hawaiian Home Lands affected (?):
- **None**

(d) Other existing legal uses affected (?):
- **None**

(e) Other: ________________________________

### 16. REMARKS, EXPLANATIONS:

(If more space is needed, continue on back side)

---

**For Official Use Only:**
- **Date Received:** ________________________________  
- **Date Accepted:** ________________________________  
- **Hydrologic Unit No.:** ________________________________  
- **Diversion Works No.:** ________________________________  
- **State Well No.:** ________________________________

**Notice Dates:**
- **Public:** ________________________________  
- **Mayor:** ________________________________  
- **SWS:** ________________________________  
- **Mail List:** ________________________________  
- **Bulletin:** ________________________________  
- **Public Hearing:** ________________________________
APPLICATION FOR WATER USE PERMIT

Ground Water or Surface Water

State of Hawaii
Commission on Water Resource Management
Department of Land and Natural Resources

1. (a) APPLICANT
   - Firm/Name: The Estate of James Campbell
   - Contact Person: Donna Goo

(b) LANDOWNER
   - Firm/Name: The Estate of James Campbell
   - Contact Person: Donna Goo

2. WATER MANAGEMENT AREA: Windward Oahu/Koolauloa
   - ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER: Well No. 4258-15
   - (Well or stream diversion name/number)

(b) PROPOSED (NEW) SOURCE NAME: __________________________

4. SOURCE LOCATION: Address: Kahuku
   - Tax Map Key: __________________________
   - (Attach a USGS map, scale 1:2,000, and a property tax map showing source location referenced to established property boundaries)

5. SOURCE TYPE: ________________________
   - (check one):
     - Stream
     - Dike-confined
     - Perched
     - Caprock

6. METHOD OF TAKING WATER: ________________________
   - (check one):
     - Artesian Flow
     - Well & Pump
     - Diverted Surface Flow
     - Other (explain)

7. LOCATION OF PROPOSED WATER USE:
   - Address: Kahuku
   - Tax Map Key: 3-8-03161
   - (Attach USGS map, scale 1:2,000, and a property tax map showing source location referenced to established property boundaries)

8. QUANTITY OF WATER REQUESTED: 720,000 gallons per day

9. METHOD OF MEASUREMENT:
   - Open-pipe
   - Other (explain)

10. QUALITY OF WATER REQUESTED:
    - Fresh
    - Other (explain)

11. PROPOSED USE:
    - Municipal (including hotels, stores, etc.)
    - Domestic (individual, non-commercial, etc.)
    - Irrigation
    - Industrial
    - Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):__________________________

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP: n/a
    - shrub
    - (acres)
    - (crop)

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
    - (Indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    - (a) Impact on Sustainable yield (?): None
    - (b) Permanent or Interim
      - Instream Flow Standards affected (?): None
      - Hawaiian Home Land uses affected (?): None
      - Other existing legal uses affected (?): None

16. REMARKS, EXPLANATIONS:
    __________________________

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resources Management, a period is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Land Acts uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted, should the Commission require one.

Applicant (print): The Estate of James Campbell
Signature __________________________ Date 6/17/03

Landowner (print): The Estate of James Campbell
Signature __________________________ Date 6/17/03

For Official Use Only:
Date Received __________________________
Date Approved __________________________
Hydrologic Unit No. __________________________
Diversion Works No. __________________________
State Well No. __________________________
Notice Dates: Public __________________________ Mayor __________________________
SWS __________________________ Mail List __________________________ Bulletin __________________________
Public Hearing __________________________
APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT
   The Estate of James Campbell
   Firm/Name
   Contact Person Donna Goth

2. WATER MANAGEMENT AREA: Windward Oahu/Koapuaoa
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
   (b) PROPOSED (NEW) SOURCE NAME:

4. SOURCE LOCATION: Address
   Tax Map Key

5. SOURCE TYPE (check one):
   - Stream
   - Dike-confined
   - Perched
   - Caprock

6. METHOD OF TAKING WATER (check one):
   - Artesian Flow
   - Well & Pump
   - Diverted Surface Flow

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Address
   (b) Land Use District (check one):
     - Urban
     - Agriculture
     - Conservation
     - Rural
   (c) County Zoning (describe)

8. QUANTITY OF WATER REQUESTED: 720,000 gallons per day

9. METHOD OF MEASUREMENT:
   - Flowmeter
   - Open-pipe

10. QUALITY OF WATER REQUESTED:
    - Fresh
    - Salt
    - Potable
    - Non-Potable

11. PROPOSED USE:
    - Municipal (including hotels, stores, etc.)
    - Domestic (individual, noncommercial, etc.)
    - Irrigation
    - Industrial
    - Military
    - Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):
    - Aquaculture

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
    - n/a
    - shrimp

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:
    - 24 hours per day

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) impact on Sustainable yield (?): None
    (b) Permanant or Interim
    (c) Instream Flow Standards affected (?): None
    (d) Hawaiian Home Land uses affected (?): None
    (e) Other existing legal uses affected (?): None
    (f) Other:

16. REMARKS, EXPLANATIONS:

(If more space is needed, continue on back side)

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and increase flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission so require.

Applicant (print) The Estate of James Campbell
Signature
Date

Landowner (print) The Estate of James Campbell
Signature
Date

For Official Use Only:
Date Received
Date Approved
Notice Dates:
Public Mayor BWS Mail List Bulletin Public Hearing
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT
   The Estate of James Campbell
   Firm/Name
   Donna Gath
   Contact Person
   Donna Gath

2. WATER MANAGEMENT AREA: Windward Oahu/Koolauloa
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
   Well No. 4258-17
   (well or stream diversion name/number)

4. SOURCE LOCATION: Address
   Kahuku
   Tax Map Key 5-6-03:161
   (Attach a USGS map, scale 1"=2000', and a property tax map showing source location referenced to established property boundaries.)

5. SOURCE TYPE (check one):
   Stream
   Basal
   Dike-confined
   Perched
   Caprock

6. METHOD OF TAKING WATER (check one):
   Artesian Flow
   Well & Pump
   Diverted Surface Flow
   Other (explain)

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Address
      Kahuku
   Tax Map Key 5-6-03:161
   (b) Land Use District (check one):
      Urban
      Agriculture
      Conservation
      Rural
   (c) County Zoning (describe)

8. QUANTITY OF WATER REQUESTED: 1,440,000 gallons per day

9. METHOD OF MEASUREMENT:
   Flowmeter
   Open-pipe
   Weir
   Office
   Other (explain)

10. QUALITY OF WATER REQUESTED:
    Fresh
    Brackish
    Salt
    Potable
    Non-Potable

11. PROPOSED USE:
    Municipal (Including hospitals, stores, etc.)
    Domestic (Individual, noncommercial, etc.)
    Irrigation
    Industrial
    Military
    Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):
    Aquaculture

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
    n/a

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:
    24 hours per day (indicator of hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?):
        None
    (b) Permanent or Interim
        Instream Flow Standards affected (?):
        None
    (c) Hawaiian Home Land uses affected (?):
        None
    (d) Other existing legal uses affected (?):
        None
    (e) Other:

16. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission and Hawaiian Home Lands Water Users. In addition, applicants understand that upon permit's approval, a water shortage plan must be submitted should the Commission require one.
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<th>FILING FEE-WATER USE PERMIT REQUEST #8</th>
<th>6/16/93</th>
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June 21, 1993  

TOTALS  

25.00  

25.00  

THE ESTATE OF JAMES CAMPBELL  
HONOLULU, HAWAII  

PLEASE DETACH BEFORE DEPOSITING CHECK
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June 21, 1993

The Estate of James Campbell
Honolulu, Hawaii

Please detach before depositing check.
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

June 21, 1993

#17

FILING FEE-NOTER USE PERMIT REQUEST

6/16/93

25.00

25.00

TOTALS

25.00

25.00

PLEASE DETACH BEFORE DEPOSITING CHECK
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

JUNE 21, 1993

TOTALS

25.00

PLEASE DETACH BEFORE DEPOSITING CHECK
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

June 21, 1993
TOTA LS
25.00
25.00

PLEASE DETACH BEFORE DEPOSITING CHECK
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**THE ESTATE OF JAMES CAMPBELL**  
HONOLULU, HAWAII  

June 21, 1993  
TOTAALS  
25.00  
25.00  

PLEASE DETACH BEFORE DEPOSITING CHECK
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**The Estate of James Campbell**
Honolulu, Hawaii

*Please detach before depositing check*
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

JUNE 21, 1993

TODAY'S DATE

FILING FEE-WATER USE PERMIT REQUEST #5

6/16/93

25.00

25.00

TOTALS

25.00

25.00

PLEASE DETACH BEFORE DEPOSITING CHECK
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June 21, 1993  TOTALS  25.00  25.00

THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

PLEASE DETACH BEFORE DEPOSITING CHECK
WATER USE PERMIT NO. 249

This report has been prepared in accordance with 13-171-22(b) of the Hawaii Revised Statutes requiring a 20-year review of issued water use permits to determine permit compliance. Following is a summary of permit information, site characteristics, methodology, findings, and recommendations for this State permit file.

**Permit Information**

<table>
<thead>
<tr>
<th>Water User:</th>
<th>Onomea Bay LLC</th>
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<tbody>
<tr>
<td>Landowner of Source:</td>
<td>Onomea Bay LLC</td>
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<tr>
<td>Permitted Withdrawal Rate:</td>
<td>3.00 mgd (Based upon a 12-month moving average)</td>
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<td>Water Management Area:</td>
<td>Koolauloa</td>
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<td>Island:</td>
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<td>Aquifer Sector/System:</td>
<td>Windward/Koolauloa</td>
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<td>System Sustainable Yield:</td>
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<td>Water Type:</td>
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<td>Original CWRM Date:</td>
<td>December 8th, 1993</td>
</tr>
<tr>
<td>Standard Conditions:</td>
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<td>Special Conditions:</td>
<td>1-2, 20</td>
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**Water Source**

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<tr>
<th>State Well Number(s):</th>
<th>4258-05</th>
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<tr>
<td>Well Name:</td>
<td>T. Astro Salt</td>
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<tr>
<td>Water Source TMK Number(s):</td>
<td>1st Division, 5-6-003:026</td>
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<tr>
<td>State Land Use Classification(s):</td>
<td>Agriculture/Conservation</td>
</tr>
<tr>
<td>County Zoning Classification(s):</td>
<td>AG-2</td>
</tr>
<tr>
<td>Geographical Coordinates:</td>
<td>N/A</td>
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**End Use**

<table>
<thead>
<tr>
<th>End Use TMK Number(s):</th>
<th>1st Division, 5-6-003:026</th>
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<td>State Land Use Classification(s):</td>
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<td>County Zoning Classification(s):</td>
<td>AG-2</td>
</tr>
<tr>
<td>Beneficial Use Explanation:</td>
<td>Use for one acre of OGO and one acre of shrimp</td>
</tr>
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</table>
Background Information

State Well No. 4258-05 is currently being governed by Water Use Permit 249, which is issued to Campbell Estate (now James Campbell Co., LLC) in 1993. However, after contacting James Campbell Co. to set up a field investigation to inspect this well, Brown and Caldwell was informed that the property on which the well sits has been sold. Further investigation has revealed that the current property owner is Onomea Bay LLC. A permit transfer should be completed to update the permit to reflect the current landowner and permittee.

Water Use Permit 249 was approved during the December 8th, 1993 Commission on Water Resource Management meeting. There are no monthly water use or salinity records on file for State Well No. 4258-05. Standard conditions 1-19 and special conditions 1-2 & 20 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the permit file.

Field Investigation Information

No field investigation was conducted for Water Use Permit 249. Brown and Caldwell attempted to contact the permittee on three different occasions via standard mail. A cover letter accompanied by a survey form was sent out on November 21st, 2007 to Campbell Estate at 1001 Kamokila Boulevard, Kapolei, HI 96707. The James Campbell Company, LLC (formerly Campbell Estate) returned the survey form to Brown and Caldwell and indicated that this property has been sold and that they no longer have access to or are users of State Well No. 4258-05. A second round of letters was sent out on February 20th, 2008. However, since Brown and Caldwell was attempting to gather new contact information at the time, this particular permit was not included in that mailing.

The CWRM obtained an up-to-date land owner address for the TMK parcel on which the well sits and sent out another letter during a comprehensive third round mailing to Onomea Bay LLC (who is the current registered land owner) at 110 W. El Portal Road, San Clemente, CA 92672. Since no response was received by the end of the field investigation phase of this project, Brown and Caldwell was not able to verify any of the information listed in this report. Reference the permit file for supporting documentation relevant to this contact process.
Summary of Findings for Water Use Permit No. 249

Although no field investigation was completed for this Water Use Permit, information pertinent to permit compliance was gathered during the research phase of this project.

The following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(10) An approved flowmeter must be installed to measure monthly withdrawals and a month record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis.

Since no water use or salinity reports are being submitted for State Well No. 4258-05, the permittee is found to be in violation of Standard Condition (10).

(12) A permit may be transferred, in whole or in part, from the permittee to another, if:

a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

It appears that the property on which the well sits has been sold. If the current permittee/landowner is indeed using water from State Well No. 4258-05 without having transferred the permit, then a violation of Standard Condition (12) has occurred.

Recommendations

• Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  o Permittee and landowner names and addresses
  o Remove current permittee contact (out-of-date)
  o State land use and county zoning classifications.

• Address violation of Standard Condition (10) regarding non-reporting of water use and salinity levels

• Determine if current landowner is using water from State Well No. 4258-05. If so, address violation of Standard Condition (12). If not, recommend that the landowner transfer the WUP to maintain permit compliance should the source be used in the future.

• Address issue of lack of response in regards to the Commission’s attempt to contact the permittee during this permit review process.
Standard Conditions List

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization, which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its <Insert Date> meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

Variations of Standard Condition (8) are as follows:
   i. Modification of any permit condition shall be approved by the Commission. Modification of any permit condition without notification may result in the revocation of the water use permit.
9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State’s and the Commission’s police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

Variations of Standard Condition (10) are as follows:
   i. The applicant shall keep monthly pumpage estimates to be submitted annually to the Commission.
   ii. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a yearly basis (attached).
   iii. An approved flowmeter(s) must be installed to measure withdrawals and a monthly record of withdrawals, water-levels, salinity, and temperature must be kept and reported to the Commission on a monthly basis in accordance with the Commission’s September 16, 1992 action on reporting requirements.
   iv. Approved flowmeters must be installed to measure monthly withdrawals and a monthly record of withdrawals must be kept and reported to the Commission on Water Resource Management on a monthly basis.
   v. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a quarterly/yearly basis (attached).
   vi. An approved flowmeter shall be installed to measure water withdrawals
   vii. An approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of
Although not stated as a condition of the permit §13-168-7 HAR requires you to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form.

An approved flowmeter shall be installed and the withdrawal from Well 1851-73 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the well.

The withdrawals from these wells shall be recorded and reported to the DLNR on a monthly basis by the BWS.

The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission along with water level and salinity measurements.

11. This permit shall be subject to the Commission’s periodic review of the <Aquifer> Aquifer System’s sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the <Aquifer> Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The uses(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee’s water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter
into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the <Aquifer>Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter or attached exhibits are incorporated herein by reference.

20. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

Variations of Standard Condition (20) are as follows:
   i. The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within two years from the date of permit issuance.

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission's prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
Special Conditions List

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff's review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kaluakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health's Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.'s application for uses in excess of those uses existing on July 15, 1992 will be considered "new" uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant's staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant's request as opposed to staff's calculations.
   c. The Commission's enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, &-04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiala Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfered substantially and materially with existing individual household uses and existing uses.

54. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

55. This permit may be suspended or revoked, in accordance with Chapter 166.

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to in form the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH's requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as “DO NOT DRINK, NON-POTABLE” to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked.

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac±) and the associated TMK's for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to buy and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission’s sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission's sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health's Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at 808-586-4258 (Honolulu).

101. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

102. The water to be withdrawn under this permit shall be a total of 0.03 mgd (0.02 mgd preserved plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use.

103. Existing well 1851-09 shall be properly sealed by a licensed drilling contractor. A well modification permit application, enclosed, shall be submitted to the Department for approval of the well sealing. A filing fee for sealing the well will not be required.
104. The permittee is required to test the source using a certified private laboratory and submit the test results to the Commission within three (3) months. The Commission will then forward the results to the Department of Health for their review. The Department of Health recommends that the well be routinely tested for microbiological and chemical parameters thereafter.

105. The permittee is required to submit a completed Registration of Well and Declaration of Water use by <Insert Date>.

106. The permittee shall contact the Department of Health for a written determination on the status of their water system and comply with any Department of Health requirements for monitoring and testing.

107. In the event that the original spring source decontaminates, the new well authorized will be shut down.

108. That within each aquifer the total permitted use shall not exceed the sustainable yield.

109. That any water available for allocation shall be for in-district use.

110. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an Osco lease or sub-lease, whichever occurs later.

111. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

112. That the permit shall be an interim permit for a new use which is afforded to existing users as specified in §13-171-20.

113. That the original allocation of 0.200 mgd shall be taken to hearing for possible revocation at a later date to complete the transfer of the water use permit entirely to Well No. 3407-02. This revocation would reduce the current allocation afforded to the Kunihiro Well (Well No. 3406-06) to zero.

114. This allocation incorporates the unspecified domestic needs of the applicant and therefore necessitates a single meter be installed at the well.

115. Should any impacts to nearby wells or streams be established by the use of this well, the applicant shall address these issues to the satisfaction of the Commission.

116. If an economically feasible nonpotable source is identified, the applicant shall convert to the alternative nonpotable source.

117. The permit shall be subject to the Chairperson’s approval of a water use plan recommending possible measures to prevent or minimize saltwater contamination and establish courses of action to follow should the aquifer become to saline to use.
118. Permittee shall provide the necessary end-use information on the 10th residence to allow regulation of the use under Chapter 174C.

119. Standard Conditions 10 & 18 shall not apply.

120. Standard Condition 10 is modified to exempt the permittee from the requirement to install a flowmeter. Salt water withdrawals may instead be estimated based on pumping capacity and run time.

121. The applicant shall review the existing year long period of pumpage and streamflow data and provide analysis on ground and surface water interaction. Deadline is January 25, 1994.

122. The water use permit for Well Nos. 2301-27 to -32 for 0.75 mgd (WUP No. 419) shall be revoked upon issuance of a pump installation permit for the well.

123. The permittee shall use mulching to decrease evaporative losses and manage irrigation scheduling to minimize water demand.

124. The permittee shall submit a detailed agricultural plan to support any future water use permit application for increased agricultural use at this parcel.

125. If not already obtained, the permittee shall seek and obtain any necessary permits from the Department of Health for the proposed discharge to Malaekahana Stream.

126. Standard Condition 10 is modified to waive the requirement for installing a water meter on Well Nos. 2358-21, 22, and 29. The permittee shall install a water meter on Well No. 2358-26 to measure total monthly flow through the discharge line. This quantity should then be assumed to be the rate of natural flow from the other three wells for monthly reporting purposes.

127. The permit shall be effective upon submittal of documentation by Navy that it has met the DOH requirements for a public system.

128. This WUP shall be subject to Army's application for a WUP to reduce the permitted use of the Army's Schofield Shaft (2901-02 to 04, 10) by 0.208 mgd to a new total of 5.648 mgd. The Army's application shall be submitted within 60 days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the CWRM prior to use of Well No. 3100-02 and issuance of this WUP.

129. Navy shall submit an after-the-fact PIPA, and approval of the permit shall be obtained prior to use of the well.

130. The well shall not be used for drinking water purposes unless it is properly tested and treated.
131. This permit is approved subject to reclaimed water becoming a practical alternative and provided that the Department of Health approves the reuse application.

132. Should any opae ula be recovered in the well water, the permittee shall notify the Division of Aquatic Resources and provide specimens to the Division of Aquatic Resources for analysis.

133. If a single meter at the well is used, the Commission shall allow an additional 1,000 gallons per day to the water use permit amount for the domestic needs of two residences, although a permit for individual domestic consumption is not required. Otherwise, the applicant must provide a meter to separately measure the irrigation consumption.

134. This permit is approved under the requirement that conversion to either: 1) treated wastewater becoming available for reuse as an alternative supply source, provided that Department of Health concerns over the use of treated effluent over the potable water aquifer have been addressed; and/or 2) other nonpotable source becoming available will occur in a timely manner.

135. These permits shall be subject to a review of actual use within four years for possible modification of the permitted amount.

136. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

137. The allocation is based on the projects listed in Exhibit 5 (of Item 10 of the May 20, 1998 Staff Submittal), except for the Queen’s Beach GC (TMK 139-11-2,3), Lot 9 (TMK 139-17-51), and Varsity Place (TMK 128-24-35).

138. Kamehameha Schools Bishop Estate/Honolulu Board of Water Supply shall transfer the water use permit within ninety (90) days of the effective date of the transfer of the pump station to the Honolulu Board of Water Supply, pursuant to §174C-59 Hawaii Revised Statutes.

139. The permittee shall ensure that the water is recycled by either directing it into the Waiahole Ditch for use by downstream farmers (subject to the approval of the Agribusiness Development Corporation’s Board) or into Waikele Farm’s existing irrigation system.

140. The permittee shall file a completed application to modify WUP No. 758 to reduce the allocation by 0.100 mgd within 60 days. If a completed water use permit modification application is not received within 60 days from this submittal’s date, then the subject water use permit application (WUPA No. 767) shall be deemed denied without prejudice without the need for another hearing.

141. The water withdrawn shall be for municipal use. No improvements to the existing sources are required as the existing source capacities are greater than the increase.
142. Water license must be determined through LM.

143. Proposed other uses will be considered at a later date.
November 21st, 2007

Donna Goth
Campbell Estate

Subject: WUP 249

Water Use Permit Review

In accordance with 13-171-22(b) of the Hawaii Revised Statutes, the Commission on Water Resource Management is required to conduct a 20 year permit review of issued permits to determine permit compliance. As a permit holder, we are contacting you to conduct a review of your water use permit.

As part of the permit review, we must perform field investigations for verification purposes. We have contracted with Brown and Caldwell to conduct such field investigations. Please fill out the enclosed survey form, indicating the best date and time within the time period given, and a representative from Brown and Caldwell will contact you to make further field visit arrangements.

We thank you for your cooperation in promoting beneficial and reasonable use of our ground water while protecting our limited natural supply.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Onomea Bay LLC

Dear Sir or Madam:

3rd Notice of Water Use Permit Permit Review

In accordance with §174C-56 of the Hawaii Revised Statutes and 13-171-22(b), Hawaii Administrative Rules, the Commission on Water Resource Management is required to conduct a 20-year permit review of issued water use permits to determine permit compliance and prepare a formal report to the 2009 legislature for public review. We are notifying you of this statutory requirement as you are a water use permit holder and are asking for your help in the review of your water use permit. For your reference, your Water Use Permit number is Water Use Permit Nos. 249 & 251 (Well Nos. 4258-05, -12 & -13). This notice is our third attempt at contacting you for this statutory review, which must be completed soon to be ready for the beginning of the 2009 legislative session.

As part of the permit review, we must perform field investigations for verification purposes. We have contracted with Brown and Caldwell to conduct such field investigations. Please fill out the enclosed survey form, indicating the best date and time your field investigation can be conducted, and return the form via mail to Brown and Caldwell no later than July 18th, 2008. A representative from Brown and Caldwell will then contact you to make field visit arrangements.

If we cannot conduct a field investigation to verify your water use, we may commence proceedings to revoke your permit. Once your permit is revoked, you will no longer be able to use ground water from your well without applying for and obtaining a new water use permit. Upon revocation, any water use without a valid permit will be subject to fines of up to $5,000 per day. As such, it is in your best interest to return the form to Brown and Caldwell as soon as possible.

We thank you for your cooperation in promoting reasonable and beneficial use and protection of our public trust ground water resources.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Enclosure
DATE: December 20, 2007

TO: Milo Smith

COMPANY: Brown and Caldwell

FAX NUMBER: 5

RE: Water Use Permit Survey

FROM: Peter Gibson

Number of pages (including cover sheet): 9
Hard copy to follow: Yes ☒ No ☐

If you do not receive all of the pages, please call Jenny Okano at ☑ as soon as possible.

Comments:

RECEIVED
DEC 21 2007
BROWN & CALDWELL
HONOLULU

CONFIDENTIALITY: This facsimile may contain material that is confidential, privileged, and/or attorney work product for the sole use of the intended recipient. Any review, reliance or distribution by others or forwarding without express permission is strictly prohibited. If you are not the intended recipient, please contact the sender and destroy all copies.
Water Use Permit Survey

(Please complete one survey form for each WUP)

WUP Number: 249
Well Number(s): 4258-05

Contact Information (of the person who will be present at site visit):
Name: __________________ __________________ __________________ __________________
Phone (for phone interview) __________________ Fax: __________________
Email: __________________
Best time to reach for phone: __________________

Property Information (of the property)
Address: __________________ __________________ __________________ __________________
City: __________________ Zip: __________________
Well Location TMK (list all if more than one present): __________________
Water Use TMK (list all if used on multiple lots): __________________

Water Use/Well Information:
Is the water source currently in use? Yes □ No □
If no, please explain: ____________________________________________________________
What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences"): __________________
Is a flow meter installed and working properly? Yes □ No □
If no, please explain: ____________________________________________________________
Do you submit monthly water use reports to the State? Yes □ No □
If no, please explain: ____________________________________________________________

Field Investigations:
A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (M-F): ____________ Time: 9:00 am □ 12:00 pm □ 3:00 pm □
Option #2 Date (M-F): ____________ Time: 9:00 am □ 12:00 pm □ 3:00 pm □
Option #3 Date (M-F): ____________ Time: 9:00 am □ 12:00 pm □ 3:00 pm □

Once this survey is returned, a Brown and Caldwell representative will be contacting you to conduct a phone interview and finalize the exact date and time of your field investigation. Please fax/mail completed surveys by December 12th, 2007 and direct any questions related to this survey to Mr. Milo Smith of Brown and Caldwell at:
1099 Alakea Street, Suite #2400
Honolulu, HI 96813
Tel: (808) 203-2661
Fax: (808) 533-0226
mcsmith@brncald.com

For Official Use Only
Received: 12/21/07 Information Updated: 12/26/07 Phone Interview Complete: __________________
Notes/Comments: ________________________________________________________________
September 16, 2005

Ms. Donna Goth
The Estate of James Campbell

Dear Ms. Goth:

Approval of Water Use Permit No. 249 for Well No. 4258-05
Koolauloa Ground-Water Management Area, Oahu

This letter transmits your water use permit for T. Astro Salt Well (Well No.4258-05) for use of 3 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on December 8, 1993. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. Standard Condition 16 is waived for salt water wells.

Enclosed with this letter of approval are the following:

1. Your water use permit

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Koolauloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Ryan Imata of the Commission staff at [redacted].

Sincerely,

[Signature]

Peter T. Young
Chairperson

Attachments
Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its December 8, 1993 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).
11. This permit shall be subject to the Commission's periodic review of the Koolauloa Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

Attachment
WATER USE PERMIT NO. 251

This report has been prepared in accordance with 13-171-22(b) of the Hawaii Revised Statutes requiring a 20-year review of issued water use permits to determine permit compliance. Following is a summary of permit information, site characteristics, methodology, findings, and recommendations for this State permit file.

Permit Information

<table>
<thead>
<tr>
<th>Water User:</th>
<th>Onomea Bay LLC</th>
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<tbody>
<tr>
<td>Landowner of Source:</td>
<td>Onomea Bay LLC</td>
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<tr>
<td>Permitted Withdrawal Rate:</td>
<td>6.00 mgd (Based upon a 12-month moving average)</td>
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<td>Water Management Area:</td>
<td>Koolauloa</td>
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<td>Island:</td>
<td>Oahu</td>
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<td>Aquifer Sector/System:</td>
<td>Windward/Koolauloa</td>
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<td>Water Type:</td>
<td>Salt</td>
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<td>Original CWRM Date:</td>
<td>December 8th, 1993</td>
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<tr>
<td>Standard Conditions:</td>
<td>1-19</td>
</tr>
<tr>
<td>Special Conditions:</td>
<td>1-2, 20</td>
</tr>
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</table>

Water Source

| State Well Number(s): | 4258-12, 4258-13 |
| Well Name: | Amor Pact Salt #1-2 |
| Water Source TMK Number(s): | 1st Division, 5-6-003:026 |
| State Land Use Classification(s): | Agriculture/Conservation |
| County Zoning Classification(s): | AG-2 |
| Geographical Coordinates: | N/A |

End Use

| End Use TMK Number(s): | 1st Division, 5-6-003:026 |
| State Land Use Classification(s): | Agriculture/Conservation |
| County Zoning Classification(s): | AG-2 |
| Beneficial Use Explanation: | Use for 10.2 acres of shrimp aquaculture |
Background Information

State Well Nos. 4258-12 and 4258-13 are currently being governed by Water Use Permit 251, which is issued to Campbell Estate (now James Campbell Co., LLC) in 1993. However, after contacting James Campbell Co. to set up a field investigation to inspect these wells, Brown and Caldwell was informed that the property on which the wells sit has been sold. Further investigation has revealed that the current property owner is Onomea Bay LLC. A permit transfer should be completed to update the permit to reflect the current landowner and permittee.

Water Use Permit 251 was approved during the December 8th, 1993 Commission on Water Resource Management meeting. There are no monthly water use or salinity records on file for State Well Nos. 4258-12 or 4258-13. Standard conditions 1-19 and special conditions 1-2 & 20 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the permit file.

Field Investigation Information

No field investigation was conducted for Water Use Permit 251. Brown and Caldwell attempted to contact the permittee on three different occasions via standard mail. A cover letter accompanied by a survey form was sent out on November 21st, 2007 to Campbell Estate at 1001 Kamokila Boulevard, Kapolei, HI 96707. The James Campbell Company, LLC (formerly Campbell Estate) returned the survey form to Brown and Caldwell and indicated that this property has been sold and that they no longer have access to or are users of State Well Nos. 4258-12 and 4258-13. A second round of letters was sent out on February 20th, 2008. However, since Brown and Caldwell was attempting to gather new contact information at the time, this particular permit was not included in that mailing.

The CWRM obtained an up-to-date land owner address for the TMK parcel on which the wells sit and sent out another letter during a comprehensive third round mailing to Onomea Bay LLC (who is the current registered land owner) at 110 W. El Portal Road, San Clemente, CA 92672. Since no response was received by the end of the field investigation phase of this project, Brown and Caldwell was not able to verify any of the information listed in this report. Reference the permit file for supporting documentation relevant to this contact process.
Summary of Findings for Water Use Permit No. 251

Although no field investigation was completed for this Water Use Permit, information pertinent to permit compliance was gathered during the research phase of this project.

The following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(10) An approved flowmeter must be installed to measure monthly withdrawals and a month record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis.

Since no water use or salinity reports are being submitted for State Well Nos. 4258-12 or 4258-13, the permittee is found to be in violation of Standard Condition (10).

(12) A permit may be transferred, in whole or in part, from the permittee to another, if:

   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

It appears that the property on which the well sits has been sold. If the current permittee/landowner is indeed using water from either well without having transferred the permit, then a violation of Standard Condition (12) has occurred.

Recommendations

• Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  o Permittee and landowner names and addresses
  o Remove current permittee contact (out-of-date)
  o State land use and county zoning classifications.
• Address violation of Standard Condition (10) regarding non-reporting of water use and salinity levels
• Determine if current landowner is using water from either well. If so, address violation of Standard Condition (12). If not, recommend that the landowner transfer the WUP to maintain permit compliance should the source be used in the future.
• Address issue of lack of response in regards to the Commission’s attempt to contact the permittee during this permit review process.
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses mean “the use of water in such a quantity as is necessary for economic and efficient utilization, which is both reasonable and consistent with State and County land use plans and the public interest.” (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its <Insert Date> meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

Variations of Standard Condition (8) are as follows:
   i. Modification of any permit condition shall be approved by the Commission. Modification of any permit condition without notification may result in the revocation of the water use permit.
9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

Variations of Standard Condition (10) are as follows:

i. The applicant shall keep monthly pumpage estimates to be submitted annually to the Commission.

ii. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a yearly basis (attached).

iii. An approved flowmeter(s) must be installed to measure withdrawals and a monthly record of withdrawals, water-levels, salinity, and temperature must be kept and reported to the Commission on a monthly basis in accordance with the Commission's September 16, 1992 action on reporting requirements.

iv. Approved flowmeters must be installed to measure monthly withdrawals and a monthly record of withdrawals must be kept and reported to the Commission on Water Resource Management on a monthly basis.

v. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a quarterly/yearly basis (attached).

vi. An approved flowmeter shall be installed to measure water withdrawals.

vii. An approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of
Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, HI 96809, on a monthly basis.

viii. Although not stated as a condition of the permit §13-168-7 HAR requires you to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form.

ix. An approved flowmeter shall be installed and the withdrawal from Well 1851-73 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the well.

x. The withdrawals from these wells shall be recorded and reported to the DLNR on a monthly basis by the BWS.

xi. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting water usage on a monthly basis.

xii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

xiii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission along with water level and salinity measurements.

11. This permit shall be subject to the Commission’s periodic review of the <Aquifer> Aquifer System’s sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the <Aquifer> Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The uses(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee’s water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter
into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the <Aquifer>Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter or attached exhibits are incorporated herein by reference.

20. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

Variations of Standard Condition (20) are as follows:

i. The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within two years from the date of permit issuance.

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission's prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
Special Conditions List

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff’s review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kaluakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health's Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.'s application for uses in excess of those uses existing on July 15, 1992 will be considered "new" uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant's staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant's request as opposed to staff's calculations.
   c. The Commission's enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, &-04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfered substantially and materially with existing individual household uses and existing uses.

54. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

55. This permit may be suspended or revoked, in accordance with Chapter 166.

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to in form the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH's requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as "DO NOT DRINK, NON-POTABLE" to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked.

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac+) and the associated TMK's for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the...
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to buy and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission's sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission’s sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health’s Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at 808-586-4258 (Honolulu).

101. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

102. The water to be withdrawn under this permit shall be a total of 0.03 mgd (0.02 mgd preserved plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use.

103. Existing well 1851-09 shall be properly sealed by a licensed drilling contractor. A well modification permit application, enclosed, shall be submitted to the Department for approval of the well sealing. A filing fee for sealing the well will not be required.
104. The permittee is required to test the source using a certified private laboratory and submit the test results to the Commission within three (3) months. The Commission will then forward the results to the Department of Health for their review. The Department of Health recommends that the well be routinely tested for microbiological and chemical parameters thereafter.

105. The permittee is required to submit a completed Registration of Well and Declaration of Water use by <Insert Date>.

106. The permittee shall contact the Department of Health for a written determination on the status of their water system and comply with any Department of Health requirements for monitoring and testing.

107. In the event that the original spring source decontaminates, the new well authorized will be shut down.

108. That within each aquifer the total permitted use shall not exceed the sustainable yield.

109. That any water available for allocation shall be for in-district use.

110. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an Osco lease or sub-lease, whichever occurs later.

111. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

112. That the permit shall be an interim permit for a new use which is afforded to existing users as specified in §13-171-20.

113. That the original allocation of 0.200 mgd shall be taken to hearing for possible revocation at a later date to complete the transfer of the water use permit entirely to Well No. 3407-02. This revocation would reduce the current allocation afforded to the Kunihiro Well (Well No. 3406-06) to zero.

114. This allocation incorporates the unspecified domestic needs of the applicant and therefore necessitates a single meter be installed at the well.

115. Should any impacts to nearby wells or streams be established by the use of this well, the applicant shall address these issues to the satisfaction of the Commission.

116. If an economically feasible nonpotable source is identified, the applicant shall convert to the alternative nonpotable source.

117. The permit shall be subject to the Chairperson's approval of a water use plan recommending possible measures to prevent or minimize saltwater contamination and establish courses of action to follow should the aquifer become to saline to use.
118. Permittee shall provide the necessary end-use information on the 10th residence to allow regulation of the use under Chapter 174C.

119. Standard Conditions 10 & 18 shall not apply.

120. Standard Condition 10 is modified to exempt the permittee from the requirement to install a flowmeter. Salt water withdrawals may instead be estimated based on pumping capacity and run time.

121. The applicant shall review the existing year long period of pumpage and streamflow data and provide analysis on ground and surface water interaction. Deadline is January 25, 1994.

122. The water use permit for Well Nos. 2301-27 to -32 for 0.75 mgd (WUP No. 419) shall be revoked upon issuance of a pump installation permit for the well.

123. The permittee shall use mulching to decrease evaporative losses and manage irrigation scheduling to minimize water demand.

124. The permittee shall submit a detailed agricultural plan to support any future water use permit application for increased agricultural use at this parcel.

125. If not already obtained, the permittee shall seek and obtain any necessary permits from the Department of Health for the proposed discharge to Malaekahana Stream.

126. Standard Condition 10 is modified to waive the requirement for installing a water meter on Well Nos. 2358-21, 22, and 29. The permittee shall install a water meter on Well No. 2358-26 to measure total monthly flow through the discharge line. This quantity should then be assumed to be the rate of natural flow from the other three wells for monthly reporting purposes.

127. The permit shall be effective upon submittal of documentation by Navy that it has met the DOH requirements for a public system.

128. This WUP shall be subject to Army's application for a WUP to reduce the permitted use of the Army's Schofield Shaft (2901-02 to 04, 10) by 0.208 mgd to a new total of 5.648 mgd. The Army's application shall be submitted within 60 days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the CWRM prior to use of Well No. 3100-02 and issuance of this WUP.

129. Navy shall submit an after-the-fact PIPA, and approval of the permit shall be obtained prior to use of the well.

130. The well shall not be used for drinking water purposes unless it is properly tested and treated.
131. This permit is approved subject to reclaimed water becoming a practical alternative and provided that the Department of Health approves the reuse application.

132. Should any opae ula be recovered in the well water, the permittee shall notify the Division of Aquatic Resources and provide specimens to the Division of Aquatic Resources for analysis.

133. If a single meter at the well is used, the Commission shall allow an additional 1,000 gallons per day to the water use permit amount for the domestic needs of two residences, although a permit for individual domestic consumption is not required. Otherwise, the applicant must provide a meter to separately measure the irrigation consumption.

134. This permit is approved under the requirement that conversion to either: 1) treated wastewater becoming available for reuse as an alternative supply source, provided that Department of Health concerns over the use of treated effluent over the potable water aquifer have been addressed; and/or 2) other nonpotable source becoming available will occur in a timely manner.

135. These permits shall be subject to a review of actual use within four years for possible modification of the permitted amount.

136. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

137. The allocation is based on the projects listed in Exhibit 5 (of Item 10 of the May 20, 1998 Staff Submittal), except for the Queen’s Beach GC (TMK 139-11-2,3), Lot 9 (TMK 139-17-51), and Varsity Place (TMK 128-24-35).

138. Kamehameha Schools Bishop Estate/Honolulu Board of Water Supply shall transfer the water use permit within ninety (90) days of the effective date of the transfer of the pump station to the Honolulu Board of Water Supply, pursuant to §174C-59 Hawaii Revised Statutes.

139. The permittee shall ensure that the water is recycled by either directing it into the Waiahole Ditch for use by downstream farmers (subject to the approval of the Agribusiness Development Corporation’s Board) or into Waikele Farm’s existing irrigation system.

140. The permittee shall file a completed application to modify WUP No. 758 to reduce the allocation by 0.100 mgd within 60 days. If a completed water use permit modification application is not received within 60 days from this submittal’s date, then the subject water use permit application (WUPA No. 767) shall be deemed denied without prejudice without the need for another hearing.

141. The water withdrawn shall be for municipal use. No improvements to the existing sources are required as the existing source capacities are greater than the increase.
142. Water license must be determined through LM.

143. Proposed other uses will be considered at a later date.
November 21st, 2007

Donna Goth
Campbell Estate

Subject: WUP 251

Water Use Permit Review

In accordance with 13-171-22(b) of the Hawaii Revised Statutes, the Commission on Water Resource Management is required to conduct a 20 year permit review of issued permits to determine permit compliance. As a permit holder, we are contacting you to conduct a review of your water use permit.

As part of the permit review, we must perform field investigations for verification purposes. We have contracted with Brown and Caldwell to conduct such field investigations. Please fill out the enclosed survey form, indicating the best date and time within the time period given, and a representative from Brown and Caldwell will contact you to make further field visit arrangements.

We thank you for your cooperation in promoting beneficial and reasonable use of our ground water while protecting our limited natural supply.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Onomea Bay LLC

Dear Sir or Madam:

3rd Notice of Water Use Permit Permit Review

In accordance with §174C-56 of the Hawaii Revised Statutes and 13-171-22(b), Hawaii Administrative Rules, the Commission on Water Resource Management is required to conduct a 20-year permit review of issued water use permits to determine permit compliance and prepare a formal report to the 2009 legislature for public review. We are notifying you of this statutory requirement as you are a water use permit holder and are asking for your help in the review of your water use permit. For your reference, your Water Use Permit number is Water Use Permit Nos. 249 & 251 (Well Nos. 4258-05, -12 & -13). This notice is our third attempt at contacting you for this statutory review, which must be completed soon to be ready for the beginning of the 2009 legislative session.

As part of the permit review, we must perform field investigations for verification purposes. We have contracted with Brown and Caldwell to conduct such field investigations. Please fill out the enclosed survey form, indicating the best date and time your field investigation can be conducted, and return the form via mail to Brown and Caldwell no later than July 18th, 2008. A representative from Brown and Caldwell will then contact you to make field visit arrangements.

If we cannot conduct a field investigation to verify your water use, we may commence proceedings to revoke your permit. Once your permit is revoked, you will no longer be able to use ground water from your well without applying for and obtaining a new water use permit. Upon revocation, any water use without a valid permit will be subject to fines of up to $5,000 per day. As such, it is in your best interest to return the form to Brown and Caldwell as soon as possible.

We thank you for your cooperation in promoting reasonable and beneficial use and protection of our public trust ground water resources.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

Enclosure
DATE: December 20, 2007
TO: Milo Smith
COMPANY: Brown and Caldwell
FAX NUMBER: [Redacted]
RE: Water Use Permit Survey
FROM: Peter Gibson

Number of pages (including cover sheet): 9
Hard copy to follow: Yes ☒ No ☐

If you do not receive all of the pages, please call Jenny Okano at (808) 674-3111 as soon as possible.

Comments:

RECEIVED
DEC 21 2007
BROWN & CALDWELL
HONOLULU
WUP Number: 251
Well Number(s): 4258-12 & 4258-13

Contact Information (of the person who will be present at site visit):
Name:_________________________________________________________________________
Phone (for phone interview):______________________________________ Fax:_____________________
Email:_________________________________________________________________________
Best time to reach for phone interview:_________________________________________________________________________

Property Information (of the water use/well location):
Address:_________________________________________________________________________
City:_________________________ Zip:_____________________
Well Location TMK (list all if multiple wells present):________________________
Water Use TMK (list all if used on multiple lots):________________________

Water Use/Well Information:
Is the water source currently in use? Yes [ ] No [ ]
If no, please explain:_________________________________________________________________________

What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences"):_________________________________________________________________________

Is a flow meter installed and working properly? Yes [ ] No [ ]
If no, please explain:_________________________________________________________________________

Do you submit monthly water use reports to the State? Yes [ ] No [ ]
If no, please explain:_________________________________________________________________________

Field Investigations:
A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (M-F):_________________________ Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]
Option #2 Date (M-F):_________________________ Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]
Option #3 Date (M-F):_________________________ Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]

Once this survey is returned, a Brown and Caldwell representative will be contacting you to conduct a phone interview and finalize the exact date and time of your field investigation. Please fax/mail completed surveys by December 12th, 2007 and direct any questions related to this survey to Mr. Milo Smith of Brown and Caldwell at:
1099 Alakea Street, Suite #2400
Honolulu, HI 96813
Tel: (808) 203-2661
Fax: (808) 533-0226
mcsmith@brwncald.com

Received: [ ] Information Updated: [ ] Phone Interview Complete: ______________________
Notes/Comments:_________________________________________________________________________
Ms. Donna Goth
The Estate of James Campbell

Dear Ms. Goth:

Approval of Water Use Permit No. 251 for Well Nos. 4258-12 & 4258-13
Koolauloa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Amor Pact Salt 1 & 2 Wells (Well No.4258-12 & 4258-13) for use of 6 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on December 8, 1993. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. Standard Condition 16 is waived for salt water wells.

Enclosed with this letter of approval are the following:

1. Your water use permit

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed-report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Koolauloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Ryan Imata of the Commission staff.

Sincerely,

Peter T. Young
Chairperson

Attachments
Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its December 8, 1993 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).
11. This permit shall be subject to the Commission's periodic review of the Koolauloa Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   
a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   
b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of in stream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

W. Roy Saya

Attachment