TO: Honorable Patrick Onishi, Director  
Department of Land Utilization  

FROM: Rae M. Loui, Deputy Director  
Commission on Water Resource Management  

SUBJECT: Special Management Area Determination  

Thank you for your letter of January 10, 1996, responding to our request for clarification on Special Management Area (SMA) permit requirements for water use.  

Through telephone communication with Joan Takane of your staff on January 23, 1996, we have confirmed that the statements made in your January 10, 1996 letter applies to all four wells (Well Nos. 4157-10, 4157-11, 4257-01, & 4257-02) referenced in our September 20, 1995 letter request. We will forward your comments on this matter to the applicant for these water use permits.  

If you have any questions, please contact Lenore Nakama at [REDACTED]  

LN:ss
Ms. Donna Goth  
The Estate of James Campbell

Dear Ms. Goth:

Special Management Area Determination  
Water Use Permit Applications for  
Well Nos. 4157-10, 4157-11, 4257-01, and 4257-02

This is in regards to your applications for water use permits for Well Nos. 4157-10, 4257-01, and 4257-02, which were deferred by the Commission on Water Resource Management (Commission) on December 8, 1993 pending a determination from the Department of Land Utilization (DLU) on Special Management Area (SMA) permit requirements.

We received a copy of the SMA determination, dated April 7, 1980, which found that the property on which the subject wells are located (TMK 5-6-02:Par. 9) were not within the SMA. Because of the inconsistent statements from the DLU, we forwarded a copy of the April 7, 1980 SMA review to DLU with a request that DLU confirm or retract the statements made in their letter of November 17, 1993. Please find attached a copy of the response from DLU. Through a telephone communication with DLU staff on January 23, 1996, we have confirmed that DLU's January 10, 1996 response to our request for clarification applies to all four subject wells.

With regard to Well No. 4157-11, the water use permit application for this source was denied without prejudice on October 13, 1993 because there was no existing use. Please be advised that a new water use permit application must be submitted and approved by the Commission prior to any commercial use of the source.

Your water use permit application for Well No. 4157-08 was deferred on October 13, 1993 due to SMA concerns that arose because of its proximity to the other wells. However, DLU has not expressed any concerns regarding SMA permitting for this source, and this application will be submitted for Commission action, tentatively, on February 21, 1996.

The other three applications that were deferred on October 13, 1993 (for Well Nos. 4157-10, 4257-01, and 4257-02) will be rescheduled for Commission action when we receive written notification that SMA permitting requirements have been resolved with the DLU.

If you have any questions, please contact Lenore Nakama at [contact information].

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LN:ss
Attachment
Ms. Susan Swanson  
State of Hawaii  
Commission on Water Resource Management  
Department of Land and Natural Resources  
Division of Water Resource Management

Dear Susan:

Please be advised that Kahuku Prawn Company is now being operated by Mr. Dave Bigger. His phone number is.[redacted].

Also Pacific Sea Farms is now leased to Kahuku Shrimp Company operated by Mr. Bruce Smith. His phone number is [redacted].

Hawaii Aquaculture Company, Inc. operates the hatchery Well No. 4258-10. Mr. Spencer Malecha is the operator at phone number [redacted].

If you have any questions, please call me at [redacted].

Sincerely,

James E. Menor  
Administrator, Natural Resources

jk:01040100\K10162
Ms. Donna Goth
The Estate of James Campbell

Dear Ms. Goth:

Notice of Objection(s) to Your Water Use Permit Applications
Koolauloa Ground Water Management Area, Oahu

We have received the attached comments to your pending water use permit applications for the Haw Mar Ent Clam Well and the Pacific Sea 2 & 3 Wells (Well Nos. 4157-10 and 4257-01 & 02). Although not addressed by this letter, these comments should also apply to the Haw Mar Ent Ogo Well (Well No. 4157-08) as this well is in the general area.

On December 8, 1993, the Commission deferred action on these applications so that this matter may be resolved. Please inform our office in writing of the SMA determination by the Division of Land Utilization.

If you have any questions, please contact Lenore Nakama at [redacted].

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

LN: fc

Attach.
November 17, 1993

Mr. Keith Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Ahue,

Subject: Water Use Permit Applications for Campbell Estate's Salt Water Well Nos. 4157-10, 4157-11, 4257-01, and 4257-02

We have additional comments regarding the water use permit applications for Campbell Estate's Salt Water Well Nos. 4157-10, 4157-11, 4257-01, and 4257-02.

The Department of Land Utilization (DLU) has determined that all of the well sites are in the Special Management Area (SMA) and in the vicinity of the Punamano and Kii National Wildlife Refuges which are managed by the U.S. Fish and Wildlife Service. Since a major objective of the City's SMA ordinance is to protect wildlife preserves, we recommend that Campbell Estate meet with DLU as soon as possible for a determination on SMA permitting.

We also recommend that the State Commission on Water Resource Management defer action on the applications until an SMA determination is completed by DLU.

Warm personal regards.

Sincerely,

[Signature]

cc: Jeremy Harris, Managing Director
Donald A. Clegg, Department of Land Utilization
November 17, 1993

Mr. Keith Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Ahue,

Subject: Water Use Permit Applications for Campbell Estate's Salt Water Well Nos. 4157-10, 4157-11, 4257-01, and 4257-02

We have additional comments regarding the water use permit applications for Campbell Estate's Salt Water Well Nos. 4157-10, 4157-11, 4257-01, and 4257-02.

The Department of Land Utilization (DLU) has determined that all of the well sites are in the Special Management Area (SMA) and in the vicinity of the Punamano and Kii National Wildlife Refuges which are managed by the U.S. Fish and Wildlife Service. Since a major objective of the City's SMA ordinance is to protect wildlife preserves, we recommend that Campbell Estate meet with DLU as soon as possible for a determination on SMA permitting.

We also recommend that the State Commission on Water Resource Management defer action on the applications until an SMA determination is completed by DLU.

Warm personal regards.

Sincerely,

Frank F. Fasi

cc: Jeremy Harris, Managing Director
    Donald A. Clegg, Department of Land Utilization
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
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 Filtz
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

Staff recommended deletion of Recommendation 1b. regarding DHHL reservation. The applicant's representative asked to submit yearly water use reports.

Unanimously approved as amended to eliminate recommendation 16 and require yearly reporting in Standard Condition 11 (Lewin/Cox).

**ITEM 4**  
WATER USE PERMIT APPLICATIONS, CAMPBELL ESTATE, KULLIMA RESORT CO., R.E. WHITE, WARREN SOH, KOOLAU OA ground WATER MANAGEMENT AREA, OAHU

Staff recommended deletion of Recommendations 3b. and 4d. regarding reservation for DHHL.

Mr. Burkland, representing the applicant R.E. White, objected to the low water use figure recommended by staff. Mr. Hardy stated that the water use recommended allocation was based on water use reports submitted by Mr. White. He explained that this is an interim water use permit, subject to the five-year review and that one of the standard conditions is that a water meter be installed to verify what was reported.

Unanimously approved as amended with the deletion of Recommendations 3b and 4d (Nakata/Cox).

**ITEM 5**  
WATER USE PERMIT APPLICATIONS, POAMOHOL A WELL (WELL NO. 3205-02), NHAC WELL (WELL NO. 3407-02), WAIALUA GROUND WATER MANAGEMENT AREA, OAHU

Mr. Cox recommended that the following amendment be made for Recommendation 2 - NHAC Well:

"...for the reasonable and beneficial agriculture and aquaculture use of 200,000 gallons..."

Ms. Laura Thielen, representing Poamoho Ventures, described how they arrived at the amount of water requested for the Poamoho A Well and how the water would be used. Ms. Thielen also presented their agricultural plan.

Mr. Martin presented written and oral testimony on the NHAC Well (see Commission file) requesting that:

1) The well be named Lopez Well (after the landowner) rather than NHAC Well
2) Approval of the .75 mgd for 4.5 acres requested by NHAC rather than the .2 mgd as recommended by staff
3) Review Waialua Sugar's water use versus its allocated water use and revising their allocations and the water availability for the Waialua aquifer system

Additionally, NHAC questioned the validity of the flow measurements taken by the Honolulu Board of Water Supply in 1983. Although NHAC supports Poamoho Ventures water use request, Mr. Martin felt it unfair that they are granted 100% of its requested allocation (.6 mgd for 150 acres) and NHAC would be granted only 27% of its requested allocation (.2 mgd for 4.5 acres).
Mr. David Taogoshi of Poamoho Venture commented that they made modifications their agricultural plans because of the amount of water available in the aquifer. Therefore, NHAC should also make modifications to their crop selections in consideration of the amount of water available.

Mr. Ing made the following recommendations:

1) Approval of .6 mgd for Poamoho Ventures
2) Approval of .2 mgd for NHAC Well, but after water use information is gathered they may return to the Commission to request additional usage
3) Approval for the NHAC Well to be renamed Lopez Well

Mr. Nakata suggested that staff re-look at the numbers for Waialua Sugar.

Unanimously approved with amendments (Ing/Nakata).

**ITEM 6**
ROYAL HAWAIIAN COUNTRY CLUB, WATER USE PERMIT APPLICATIONS, ROYAL HAWAIIAN 1, 2, 4, & 6 WELLS, WAIMANALO GROUND WATER MANAGEMENT AREAS, OAHU

Application withdrawn by the applicant.

**ITEM 7**
HEARING FOR REVOCATION OF WATER USE PERMIT, CITY & COUNTY OF HONOLULU, HAWAII MEAT CO. WELL, MOANALUA GROUND WATER MANAGEMENT AREA, OAHU

Unanimously approved (Nakata/Cox).

**ADJOURNMENT**
The meeting was adjourned at 3:00 p.m.

Respectfully submitted,

[Signature]
SHARON S. KOKUBUN, Secretary

APPROVED AS SUBMITTED:

[Signature]
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:  
(Various Well, See Exhibit 4).  
Campbell Estate  

Landowner:  
Same

(Well No. 4158-14)  
Kuilima Resort Co.  

Same

(Well No. 3855-05)  
R.E. White Jr.  

Same

(Well No. 3654-05)  
Warren Soh  

Same

Background

Applications for water use permits in the Koolauloa Ground Water Management Area submitted to the Commission to date are shown in Exhibit 1. Exhibit 2 lists those completed applications scheduled for action on October 13, 1993. 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

The major issue in the Koolauloa Ground Water Management Area is the potential 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 October 5, 1993 Exhibit 1 shows a total demand of 98.106 mgd. Of this total, only about 9.011 mgd is a more 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>98.106</td>
<td>Total from Exhibit 1.</td>
</tr>
<tr>
<td>-1.000</td>
<td>Future use for BWS Kaipapau Well No. 3655-03.</td>
</tr>
<tr>
<td>-0.002</td>
<td>CWRM approval of existing use for Well No. 3654-02 on 9/1/93</td>
</tr>
<tr>
<td>-0.052</td>
<td>Returned applications for more information (doubtful use).</td>
</tr>
<tr>
<td>-0.061</td>
<td>Applications withdrawn due to non-use.</td>
</tr>
<tr>
<td>-34.900</td>
<td>Applications field investigated verified with no existing use.</td>
</tr>
<tr>
<td>-53.080</td>
<td>Applications for salt water wells (limited effect on aquifer).</td>
</tr>
<tr>
<td>9.011</td>
<td>Reasonable estimate of existing aquifer uses from applications.</td>
</tr>
</tbody>
</table>

This perspective shows a much more moderate view of the potential for overpumpage as only approximately twenty-six percent (26%) of sustainable yield is directly impacted from present application information. 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 4 the following wells scheduled for action and found not to be in use or a recent discontinued use are: 3957-01 to 06, 4100-02, 4157-11, 4158-01 to 11, 4258-04, and 4258-09. Since these wells have not been pumped and in many cases later 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.

2. **Kuilima Resort Co.** - The applicant requests an allocation of 800,000 gpd of non-potable water from the Kuilima 1 Well (Well No. 4158-14) for irrigation of a new 160-acre golf course called the "Links at Kuilima". The source and use described in this permit application were registered and declared in May 1989. A field investigation on March 25, 1992 verified the existence of this declared water use and the source. The requested allocation of 800,000 gpd seems high. Using guidelines developed by the County, irrigation of a 160-acre golf course may require up to 640,000 gpd. The water needs are also supplemented with treated effluent from the resort's private treatment plant. Also, based on monthly water use data reported by the applicant, the actual 12-month moving average withdrawal from this source is 302,000 gpd as of July 1993. Finally, the "Turtle Bay Golf Course" located next to this new golf course irrigates 188 acres of turf and their 12-month moving average is 226,000 gpd although only about one-half of the acreage is irrigated intensely since only 9 holes are open for play. No specific objections have been filed but general objections by Native Hawaiian Advisory Council are found in Attachment C.

3. **R.E. White, Jr.** - The applicant requests an allocation of 87,140 gpd of fresh water from the White Well (Well No. 3855-05) for irrigation of nine (9) acres of bananas and the domestic needs of three (3) residences. The source and use
described in this permit application were registered and declared in May of 1989. A field investigation on September 1, 1993 verified the existence of the irrigation water use and also six (6) cottages serviced by the well were located. Of the six cottages, only two (2) are occupied on a regular basis.

The requested allocation of 87,140 gpd for irrigation of nine (9) acres of bananas seems excessive in light of the actual average withdrawal from this source, which is about 13,000 gpd (based on monthly data provided by the applicant for January 1988 through April 1992). Using the Oahu Water Requirements Forecast for Selected Crops, developed by the Department of Agriculture for the Oahu Water Management Plan, the irrigation requirement for nine (9) acres of bananas is estimated to be about 27,200 gpd.

This source is situated less than 2,000 feet inland from the shoreline near Laie Bay. No wells are located downgradient, but there are two other active wells located within one-eighth of a mile from this source. However, these uses have co-existed for a number of years, and the quantity of water required to continue this existing use is relatively small; therefore, these wells should not experience any impacts from continued withdrawals by the applicant. Refer to Attachment A for further discussion of other nearby wells.

Authorization to continue this reasonable and beneficial use of water should not result in unacceptable adverse impacts to other local wells, streams, and the Koolauloa Aquifer System. No specific objections to this application have been filed.

No specific objections have been filed but general objections by Native Hawaiian Advisory Council are found in Attachment C.

4. Warren Soh - This request is for an allocation of 500,000 gallons per day (gpd) from the Soh Well (Well No. 3654-05) for irrigation of one acre of mango, taro, and bananas, which seems excessive. A spring source was registered and use of water for irrigation of one acre of bananas and flowers was declared in May 1989. No wells were registered by the applicant. A field investigation on October 4, 1993 verified that the well has not been in use for some time; also, no agricultural activity was observed on the property. Therefore, it is assumed that this request is for a future, rather than existing, use of water. Because existing uses are still in the process of being established, this request for a permit for a future water use should not be granted at this time.

No specific objections have been filed but general objections by Native Hawaiian Advisory Council are found in Attachment C.

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 2 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 a water use permits to Campbell Estate for Well Nos. 3957-01 to 06, 4100-02, 4157-11, 4158-01 to 11, 4258-04, and 4258-09 and their requested amounts shown in Exhibit 2 since these uses are for future use. The applicant may submit new permit applications once existing uses in the Koolauloa Aquifer System have been established.

3. **Kuilima Resort Co.** - The Commission approve the issuance of an interim water use permit to Kuilima Resort Co. for the reasonable and beneficial use of 302,000 gallons per day of non-potable water for use from the Kuilima 1 Well (Well No. 4158-14) for the irrigation of 160 acres of golf course, subject to the standard water use permit conditions listed in Attachment B and the following special conditions:
a. 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.

b. The issuance of the permit shall be withheld until the reservation of water for the Dept. of Hawaiian Home Lands is set by rule. Until the reservation issue is resolved, the applicant may continue this existing use of water within the limits approved by the Commission.

4. R.E. White, Jr. - The Commission approve the issuance of an interim water use permit to R.E. White, Jr. for the reasonable and beneficial use of 13,000 gallons per day of fresh water for use from the White Well (Well No. 3855-05) for agricultural irrigation of 9 acres, subject to the standard water use permit conditions listed in Attachment B and the following special conditions:

a. 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.

b. The applicant may submit monthly measurements on a yearly basis.

c. 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 allocation 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.

d. The issuance of the permit shall be withheld until the reservation of water for the Dept. of Hawaiian Home Lands is set by rule. Until the reservation issue is resolved, the applicant may continue this existing use of water within the limits approved by the Commission.

5. Warren Soh - The Commission deny without prejudice the issuance of a water use permit to Warren Soh to use 500,000 gallons per day of fresh water for future use from the Soh Well (Well No. 3654-05). The applicant may submit a new permit application once existing uses in the Koolauloa Aquifer System have been established.

Respectfully submitted,

RAE M. LOUI
Deputy Director

Chairperson and Member
Commission on Water Resource Management
October 13, 1993

APPROVED FOR SUBMITTAL:

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: 0.002 mgd
  - Total of other pending allocations: 98.109 mgd

**WELL: Kuilima 1 Well (Well No. 4158-14)**
- Location: Kahuku, Oahu, TMK:5-6-3:44
- **Year Drilled:** 1990
- **Casing Diameter:** 1990 in.
- **Elevations (msl= 0 ft.)**
  - Water Level: 1.0 ft.
  - Ground: 10 ft.
  - Bottom of Solid Casing: -69 ft.
  - Bottom of Perforated: NA ft.
  - Bottom of Open Hole: -125 ft.
- **Total Depth:** 135 ft.
- **Grouted Annulus Depth:** NA ft.

**WELL: White Well (Well No. 3855-05)**
- Location: 55-202 Kam Hwy, Laie, Oahu, TMK:5-5-1:21
- **Year Drilled:** NA
- **Casing Diameter:** 12 in.
- **Elevations (msl= 0 ft.)**
  - Water Level: NA ft.
  - Ground: NA ft.
  - Bottom of Solid Casing: NA ft.
  - Bottom of Perforated: NA ft.
  - Bottom of Open Hole: NA ft.
- **Total Depth:** NA ft.
- **Grouted Annulus Depth:** NA ft.

**WELL: Soh Well (Well No. 3654-05)**
- Location: 53-120 Halai St. Hauula, Oahu, TMK:5-3-15:18
- **Year Drilled:** NA
- **Casing Diameter:** NA in.
- **Elevations (msl= 0 ft.)**
  - Water Level: NA ft.
  - Ground: NA ft.
  - Bottom of Solid Casing: NA ft.
  - Bottom of Perforated: NA ft.
  - Bottom of Open Hole: NA ft.
- **Total Depth:** NA ft.
- **Grouted Annulus Depth:** NA ft.
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.

Specific well sites:

1. KUILIMA 1 Well- There are twenty-three (23) other wells within a mile of the well (see Exhibit 5A). Eighteen (18) of these wells are downgradient. Of these downgradient wells twelve (12) are in use but all are salt water wells which should not experience adverse affects.

2. SOH Well- There are twelve (12) other wells within a mile of the well (see Exhibit 5B). Seven (7) of these wells are currently in use. No wells are located downgradient.

3. WHITE Well - There are twenty-three (23) other wells within a mile of the well (see Exhibit 5C). Eighteen (18) of these wells are currently in use. No wells are located downgradient.

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:

<table>
<thead>
<tr>
<th>Objector</th>
<th>Objection</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHAC</td>
<td>General process of water use permit applications. No specific objections to this application. See Attachment C.</td>
</tr>
<tr>
<td>DHHL</td>
<td>Comparison of actual existing uses to requested amounts should be made.</td>
</tr>
<tr>
<td>DAR</td>
<td>For Well No. 3654-05 &amp; 3855-05 there are the Maakua, Kaipapau, and Kaluanui streams which have native species. Any reduction in streamflow would be environmentally damaging to these species. However, existing uses should have already made their impact.</td>
</tr>
</tbody>
</table>

Field Investigation

Applications were investigated according to 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. 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 October 13, 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.

ATTACHMENT B
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 with 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 request modification of the permit when necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee’s water use.

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.

ATTACHMENT B
1993 September 29

State of Hawaii
Commission on Water Resource Management

OBSERVATIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS
Public Notice dated August 30, 1993
Send written objections by September 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).

Campbell Estate proposes to continue a total of 23.225 mgd of existing uses, 7.0 of which involve seawater. This leaves 16.225 mgd of use from the basal aquifer, yet the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.225 mgd of proposed use is about 46% 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 almost 50% of aquifer yield to a single applicant.

Many of the applications are for combined domestic and agricultural use. Quantification of the breakdown between these uses is essential at this stage of the permit review process so that existing acreage under cultivation, existing agricultural water use, crop water requirements, and future water allocations can be coherently analyzed.
SPECIFIC OBJECTIONS

Well 4057-01

The well site appears to be upgradient from and close to an unnamed spring. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for the spring, existing legal uses of the spring, and inchoate legal uses of the spring as authorized by Native Hawaiian custom and tradition.

The proposed use of potable water for pasture irrigation should be questioned until applicant shows evidence of the infeasibility of using alternative non-potable water sources.

Well 4057-01

While the public notice only lists Well 4057-01 as the well source, the application identifies 4 other wells that serve as sources for the Pump 1 battery. In order to preserve due process of all parties, the public notice for this application should be revised and re-published with a new deadline for written objections to clearly indicate that Wells 4057-02, -08, -13, and -14 are also part of the application.

The well site appears to be upgradient from and close to the Ki'i National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge, existing legal uses of all refuge waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

The proposed use of potable water for agricultural irrigation should be questioned until applicant shows evidence of the infeasibility of using alternative non-potable water sources.

Well 4057-04

While the public notice only lists Well 4057-04 as the well source, the application identifies 3 other wells that serve as sources for the Sugar Mill Pump battery. In order to preserve due process of all parties, the public notice for this application should be revised and re-published with a new deadline for written objections to clearly indicate that Wells 4057-09, -11, and -12 are also part of the application.

The well site appears to be upgradient from and close to the Ki'i National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge, existing legal uses of all refuge waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.
The proposed use of potable water for agricultural irrigation should be questioned until applicant shows evidence of the infeasability of using alternative non-potable water sources.

Well 4057-06

While the public notice lists domestic service as an existing water use, the application shows that only water of non-potable quality is being requested for irrigation and other uses only, not for domestic uses. Which is correct?

Well 4057-07

The proposed use of potable water for agricultural irrigation should be questioned until applicant shows evidence of the infeasability of using alternative non-potable water sources.

The well site appears to be upgradient from and close to an unnamed spring. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for the spring, existing legal uses of the spring, and inchoate legal uses of the spring as authorized by Native Hawaiian custom and tradition.

Well 4057-10

The proposed use of potable water for aquaculture should be questioned until applicant shows evidence of the infeasability of using alternative non-potable water sources.

The well site appears to be upgradient from and close to an unnamed spring. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for the spring, existing legal uses of the spring, and inchoate legal uses of the spring as authorized by Native Hawaiian custom and tradition.

Well 4100-02

The proposed use of potable water for aquaculture should be questioned until applicant shows evidence of the infeasability of using alternative non-potable water sources.

The apparent proximity of the well to a perennial Kawela stream tributary may indicate a potential restriction on use not identified in the application, including possible effects on interim instream flow standards, existing legal uses of the stream, and inchoate legal uses of the stream as authorized by Native Hawaiian custom and tradition.

Well 4157-04

The well site appears to be upgradient from and close to the Ki'i National Wildlife Refuge. Potential restrictions on the proposed
water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge, existing legal uses of all refuge waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

**Well 4157-05 to -07**

Potential restrictions on the proposed water use not identified in the application include possible effects on existing legal uses of all refuge waters and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

**Well 4157-09**

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of 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.

**Wells 4158-01 through -11**

The well sites appear to be upgradient from and close to the Ki'i National Wildlife Refuge, Punamano spring, and Punamano National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuges and for Punamano spring, existing legal uses of all refuge and spring waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

**Well 4158-14**

The well site appears to be upgradient from and close to Punahoolapa springs and Punamano National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge and for Punahoolapa springs, existing legal uses of all refuge and spring waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

**Well 4159-01**

The well site appears to be upgradient from and close to Punahoolapa springs and Punamano National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge and for Punahoolapa springs, existing legal uses of all refuge and spring waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.
Well 4159-02

While the public notice lists domestic service as an existing water use, the application shows that only water of non-potable quality is being requested for irrigation and military uses only, not for domestic uses. Which is correct? Note that the application for adjacent Well 4159-01 is for irrigation use of non-potable water.

The well site appears to be upgradient from and close to Punahoolapa springs and Punamano National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge and for Punahoolapa springs, existing legal uses of all refuge and spring waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

Well 4258-04

The well site appears to be upgradient from and close to Punahoolapa and Punamono springs and Punamono National Wildlife Refuge. Potential restrictions on the proposed water use not identified in the application include possible effects on interim instream flow standards for any springs within the refuge and for Punahoolapa and Punamono springs, existing legal uses of all refuge and spring waters, and inchoate legal uses of these waters as authorized by Native Hawaiian custom and tradition.

Mahalo,

David L. Martin, Water Claims Manager

pc: Campbell Estate
    Kuilima Resort Co.
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Aquifer System: KOOLAULOA

WATER USE PERMIT APPLICATION NOTICE STATUS REPORT 10/05/93

Exhibit 1
## Aquifer System: KOOLAULOA

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### Water Use Permit Application Notice Status Report 10/05/93

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**Page No. 1**
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There are 61 WUPA scheduled for action on 10/13/93

STATEWIDE THERE ARE 61 APPLICATIONS SCHEDULED FOR ACTION
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<th>WAPA NO</th>
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<th>WELL NO</th>
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<th>DESCRIPTION OF USE</th>
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<td>3453-08</td>
<td>BILLY &amp; KANANI CASEY</td>
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<td>SUPPLY 1 HOME</td>
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**Aquifer System: KOOLAULA**

WATER USE PERMIT APPLICATION USE STATUS REPORT 10/05/93
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<td>I - 01</td>
<td>R.E. WHITE JR.</td>
<td>3855-05</td>
<td>IRRIGATION OF 9 ACRES OF BANANA</td>
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<td>IRRIGATION FOR 1.2 ACRES OF VARIOUS CROP &amp; LIVESTOCK</td>
<td>5-3-1:60</td>
<td>56 COUNTRY DIST</td>
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<td>FISH, IRRIGATE MANGO, Taro, BANANA</td>
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<td>WARREN SOHN</td>
<td>3654-03</td>
<td>IRRIGATE 33 ACRES BANANAS, Papayas, Garden Crops</td>
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<td>SUPPLY FOR LIVESTOCK</td>
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<td>SUPPLY 103 ACRES OF PRAWNS</td>
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<td>SUPPLY CHICKEN AND EGG FARM NEEDS</td>
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61 Applications Totaling 52.712
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<td>YES</td>
<td>Malaekahana Dom Sys</td>
<td>Pump 3,17 Battery</td>
<td>YES</td>
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<td>3957-01-06</td>
<td>YES</td>
<td>Pump 6</td>
<td>Max Smith and another rancher</td>
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<td>4056-01</td>
<td>prev</td>
<td>KAHUNA WELLS</td>
<td>A. KANWARAKA RANCH 142 ACRES, ONLY IRRIGATE 30-50 ACRES, 65 HEAD LIVESTOCK</td>
<td>YES (fresh)</td>
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<td>345 A-E prev</td>
<td>KAHU KO FARM ASSOC</td>
<td>YES</td>
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<td>355-A KAHU MILL</td>
<td>YES, well &quot;04&quot; in use</td>
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<td>YES</td>
<td>Pump 12</td>
<td>Southern Surf Nurseries</td>
<td>YES</td>
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<td>YES</td>
<td>Pump 12-2 KAHU MILL PRAWN WELL</td>
<td>KAHU MILKEE CO (Bruce Smith)</td>
<td>YES (fresh)</td>
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<td>YES</td>
<td>PUMMER GOLF (at KULIKA RES)</td>
<td>PUMMER BAND (Clarify 140-200 ACRES)</td>
<td>YES</td>
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<td>Unusual well on Opana Road, overgrown</td>
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<td>Sealed in 1948</td>
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<td>NO</td>
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<td>YES</td>
<td>Pump 15</td>
<td>AMORINT (fresh water well pumped 24 hours/day for 35 prawn ponds, several bldgs)</td>
<td>YES updated</td>
<td>5/7/93</td>
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<td>4157-05,06,07</td>
<td>YES</td>
<td>Fish &amp; Wild 12,3</td>
<td>US FISH &amp; WILDLIFE</td>
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<td>Haw' and Ent 1</td>
<td>HAWAIIAN MARINE ENTERPRISES</td>
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<td>4157-09</td>
<td>YES</td>
<td>Amor IXXO salt</td>
<td>AMORINT SALT WATER WELL (aka &quot;IXXO WELL&quot;)</td>
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<td>4158-01,13</td>
<td>YES</td>
<td>PUMP &amp; 5</td>
<td>SITE BURDEN and unused owner believes the State wants this well</td>
<td>NO-no pumps</td>
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<td>YES</td>
<td>Kahu Airbase Dom</td>
<td>KAHU AIRBASE WELL DOMESTIC SYSTEM, 15 service connections, 75 people</td>
<td>YES (fresh)</td>
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<td>4158-13</td>
<td>YES</td>
<td>Kulima Resort owns</td>
<td>Irrigate new 18 hole golf course mixed treated effluent.</td>
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<td>4159-01</td>
<td>YES</td>
<td>Pump 2</td>
<td>Campbell Estate is operator/truck farmers are users</td>
<td>YES updated use</td>
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<td>YES</td>
<td>PURAMBO WELL</td>
<td>US ARMY operates for Air Force - current users only 2 Kuleana Houses</td>
<td>YES</td>
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<td>YES</td>
<td>Pac Sea Farms 1</td>
<td>PAC SEA FARMS</td>
<td>YES as backup (salt)</td>
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<td>5/28 &amp; 6/8/93</td>
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<tr>
<td>4258-04</td>
<td>YES</td>
<td>Amor RCA Fresh</td>
<td>AMORINT</td>
<td>NO (fresh)</td>
<td>6/4/93</td>
</tr>
<tr>
<td>4258-05</td>
<td>YES</td>
<td>Aurea Marine</td>
<td>Aurea Marine (Terry Astro) well in use</td>
<td>NO</td>
<td>5/28 &amp; 6/4/93</td>
</tr>
<tr>
<td>4258-06</td>
<td>YES</td>
<td>HI Aquaculture</td>
<td>Recently leased to HI Aquaculture Inc. Facilities not built yet.</td>
<td>NO</td>
<td>5/28 &amp; 6/4/93</td>
</tr>
<tr>
<td>4258-07</td>
<td>YES</td>
<td>HI Aquaculture</td>
<td>Recently leased to HI Aquaculture Inc. Facilities not built yet.</td>
<td>NO</td>
<td>5/28 &amp; 6/4/93</td>
</tr>
<tr>
<td>4258-08</td>
<td>YES</td>
<td>Amor RCA salt</td>
<td>AMORINT</td>
<td>NO (salt)</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
<tr>
<td>4258-09</td>
<td>YES</td>
<td>PAC SEA FARMS</td>
<td>NO (salt)</td>
<td>5/28 &amp; 6/8/93</td>
<td></td>
</tr>
<tr>
<td>4258-10</td>
<td>YES</td>
<td>PAC SEA FARMS</td>
<td>NO (salt)</td>
<td>5/28 &amp; 6/8/93</td>
<td></td>
</tr>
<tr>
<td>4258-12</td>
<td>YES</td>
<td>Amor PACT 3</td>
<td>AMORINT</td>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
<tr>
<td>4258-13</td>
<td>YES</td>
<td>Amor PACT 2</td>
<td>AMORINT</td>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
<tr>
<td>4258-15</td>
<td>YES</td>
<td>Amor PACT 3</td>
<td>AMORINT</td>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
<tr>
<td>4258-16</td>
<td>YES</td>
<td>Amor PACT 4</td>
<td>AMORINT</td>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
<tr>
<td>4258-17</td>
<td>YES</td>
<td>Amor PACT 5</td>
<td>AMORINT</td>
<td>NO</td>
<td>5/28 &amp; 6/8/93</td>
</tr>
</tbody>
</table>
SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

LN:ky
Attachments

Response: Contact person: Shigeki Imaizumi Phone: 780-8857

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

Signed: [Signature] Date: 10/12/93
SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

LN:ky
Attachments

Response: Contact person: ___________________________ Phone: _________

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

Signed: MANABU TAGOMORI

Date: 10/12/93
October 11, 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 water use within the Windward groundwater management area:

Kahuku-Campbell: (4157-04, 08, 10, 11;
                             4257-01, 02;
                             4258-09)

Laie/Hauula-Zion: (3554-01, 02;
                       3654-03;
                       3755-04, 06;
                       3855-04;
                       3856-04, 07;
                       3956-05)

These applications for existing wells appear to be for continuing uses; they do not affect Hawaiian home lands and we have no objections.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

Response: Contact person: Herbert H. Minakami

Signatures:
Kazu Hayashida
Manager and Chief Engineer

Phone: [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 on 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

Response: Contact person: ___________________________ Phone: ___________________________

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

Signed: ___________________________ Date: 10/6/93
Mr. Keith Ahue, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  

Dear Mr. Ahue:

Subject: Your Letters of September 21 and 24, 1993 Regarding Water Use Permit Applications for Various Applicants

We have no objections to issuance of water use permits for the following:

1. Department of Land and Natural Resources Exploratory Wells in Mokuleia, Nos. 3309-01 and 3309-02

2. Gentry Caprock Wells, Nos. 2001-04 and 2751-08

3. Casey Well, No. 3453-08

4. Hawaii State Hospital Well, No. 2448-01

5. Montgomery Well, No. 2751-08

We have no objections to issuance of water use permits for these wells.

6. Zions Securities Corporation Wells, Nos. 3554-01 and 02, 3654-03, 3755-04 and 06, 3855-04, 3856-04 and 07, 3956-05

We have no objections to the issuance of permits for existing uses for these wells. We recommend, however, a serious review of the water use from well No. 3755-06 to irrigate 51 acres of grass to determine whether the irrigation's needs can be met with an alternative source such as caprock water.
7. Campbell Estate Kahuku Caprock Wells, Nos. 4157-04, 4157-08, 4157-10, 4157-11, 4257-01 and 4257-02

We have no objections to the issuance of water use permits for these caprock wells used for aquaculture.

We return the forms with appropriate boxes marked.

Very truly yours,

KAZU HAYASHIDA
Manager and Chief Engineer

Enclosure
SURVEY BRANCH
Commission on Water Resource Management

FROM: Neal
DATE: 3/4/93
FILE IN: 4157

TO: INIT:

G. Matsumoto
F. Ching
E. Hirano
L. Mizuno
G. Bauer
P. Haraguchi
N. Fujii
K. Yoda

R. LOUI
S. Kokubun
E. SAKODA
Y. SHIROMA

PLEASE:

See Me
Call
Review & Comment
Take Action
Investigate & Report
Draft Reply
Acknowledge Receipt
Type Draft
Type Final
Xerox copies

FOR YOUR:

Approval
Signature
Information

I think original has been filed.
copies for file
Dear Mr. Fujii:

Water Use Permit Applications For Wells Listed Below and Status

1. Well 3957-03, Pump 3A
   
   This well is one of six wells located at the old plantation Battery No. 3. Well has not been in use for years, but will be rehabilitated for aquaculture operation to commence in next three to six months.

2. Well 4100-02, Kawela
   
   This well has not operated for a number of years. This well is in the Waialee Aquifer. We plan to rehabilitate this well sometime in 1994 for agriculture operations.

3. Well 4157-04, Pump 15
   
   This well services the Air Force and Amorient Aquaculture prawn ponds. Water use is 1,100,000 gallons per day. Amorient may not have filed reports for last 12 months.

4. Well 4157-05, USFW 1
   Well 4157-06, USFW 2
   Well 4157-07, USFW 3
   
   These wells are operated by U. S. Fish & Wildlife Service for the wildlife refuge at Kahuku. We understand they were filing monthly water use reports.
5. Well 4157-09, IKKO (Lot J)

This well is the primary source for salt water for all of Amorient Aquafarms shrimp ponds makai of Kamahameha Highway at Kahuku. Daily production is 5,000,000 gallons per day. We understood Amorient was filing monthly water use reports on this well.

6. Well 4157-11, Pacific Sea Farms

This well is not in use due to the financial difficulties of Pacific Sea Farms. The well may be rehabilitated if a new aquaculture tenant takes over this operation.

7. Wells 4158-01 to 11, Pump 5

This old plantation pump station has been abandoned for years. The state is taking over this area as part of a condemnation procedure.

8. Well 4159-02, Punamano Pump 2

This is the Air Force operated well using about 1,250 gallon per day. We understood the Air Force was making monthly water use reports.

9. Well 4257-01, Pacific Sea Farms
    Well 4257-02, Pacific Sea Farms

These are the main supply wells for what was the Pacific Sea Farms shrimp operation. Well 4257-01 supplied about 5,000,000 gallons per day and Well 4257-02 is a back-up well. We understood Pacific Sea Farms was making monthly water use reports.

10. Well 4258-04, RCA Building

This well supplies salt water to the Amorient hatchery at the RCA Building at Kahuku. Well is used only when hatchery is in operation and supplies about 130,000 gallons per day at those times. Again we understand monthly water use reports were being made.
11. Well 4258-09, Pacific Sea Farms

This well has not been in use by Pacific Sea Farms. A new aquaculture tenant may want to rehabilitate this well for future aquaculture operations.

Please give me a call if you have any questions at [contact information]

Sincerely,

James E. Menor
Administrator,
Natural Resources
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 Mgmt. Area</th>
<th>Amount Requested (gpd)</th>
<th>Tax Map</th>
<th>Well Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Campbell</td>
<td>Koolauloa</td>
<td>3,000,000</td>
<td>5-6-02:9</td>
<td>4157-08</td>
</tr>
<tr>
<td>James Campbell</td>
<td>Koolauloa</td>
<td>3,000,000</td>
<td>5-6-02:9</td>
<td>4157-10</td>
</tr>
<tr>
<td>James Campbell</td>
<td>Koolauloa</td>
<td>3,700,000</td>
<td>5-6-02:0</td>
<td>4157-11</td>
</tr>
<tr>
<td>James Campbell</td>
<td>Koolauloa</td>
<td>5,200,000</td>
<td>5-6-02:9</td>
<td>4257-01</td>
</tr>
<tr>
<td>James Campbell</td>
<td>Koolauloa</td>
<td>3,700,000</td>
<td>5-6-02:9</td>
<td>4257-02</td>
</tr>
</tbody>
</table>

We have a serious concern regarding five separate water application permits filled by the Estate of James Campbell. The quantities of water requested amount to 18,600,000 gpd, roughly 53 percent of the estimated sustainable yield for the Koolauloa aquifer.

We have no way to know how much water from the Koolauloa aquifer has already been allocated to other users and how the Campbell's water request would impact the remaining sustainable yield. But our basic concern is that the allocation of such large amounts of water to a single user may preclude equal usage by other users.
In granting water permits, the Commission must make provisions to secure water allocations for Native Hawaiian users. As long as these reservations are addressed, we have no objections in granting water permits to the above applicant.

Sincerely yours,

Clayton H.W. Hee
Chairperson

LM:j1
SEP 24 1993

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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

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

Signed: Date: 09/29/93
MEMORANDUM

TO: Rae M. Loui, Deputy Director
Commission on Water Resource Management

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Application for Water Use Permit, Koʻolauloa Ground Water Management Area, Oʻahu
Campbell Estate for Well Nos.: 4157-08,-10,-11; 4257-01,-02
Kahuku, Koʻolauloa, Oʻahu
TMK 5-6-02:009

Thank you for the opportunity to review these projects. The applicant proposes to use water from existing sources. Since an approved permit will not authorize any ground disturbing activities we believe that there will be "no effect" on historic sites.

EJ:jt
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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

Response:

Contact person: ______________________ Phone: __________

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

Signed: __________________________ Date: __________

#2002
SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 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: 9/22/93
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 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: [redacted]
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

DOFAW HAS NO COMMENTS OR OBJECTIONS TO THE PROPOSED REQUEST.

Response: Contact person: ________________ Phone: __________

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

Signed: ____________________________ Date: __________
SEP 24 1993

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 12, 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: __________
Ms. Rae M. Loui
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management

Dear Ms. Loui:

Application for Water Use Permit
Well 4157-08, Wells 4157-10 and 11

Well 4157-08 and Well 4157-10 are operated by Hawaiian Marine Enterprises for their ogo farm and clam operation.

They indicated to us the amount of salt water used in their operations.

Hawaiian Marine has continually been expanding their operations and that is the basis for their request of larger quantities of salt water.

Well 4157-11 was a back-up well for Pacific Sea Farms and has not been used for sometime. However, a new aquaculture tenant may want to rehabilitate this well.

Please give me a call if you have additional questions at [redacted].

Sincerely,

James E. Menor
Administrator,
Natural Resources

sdhg:01045100\K10068
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. 4157-11, 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

LN:ky  
Enc.
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. 4157-08, 10, & 11 and 4257-01 & 02 which will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 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 587-  

Sincerely,  

RAE M. LOUI  
Deputy Director  

LN:fc  
Encl.
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

FILING FEE: WATER USE PERMIT REQUEST #15

6/16/93  25.00  25.00

June 21, 1993  TOTALS  25.00  25.00

PLEASE DETACH BEFORE DEPOSITING CHECK
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."

Haw Mar Ent Ogo (Well No. 4157-08)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Haw Mar Ent Ogo Well, Well No. 4157-08, at Kahuku, Oahu at Tax Map Key: 5-6-2:9
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Saltwater aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-2:9

Haw Mar Ent Clam (Well No. 4157-10)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Haw Mar Ent Clam Well, Well No. 4157-10, at Kahuku, Oahu at Tax Map Key: 5-6-2:9
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Saltwater aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-2:9

Pacific Sea 1 (Well No. 4157-11)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Pacific Sea 1 Well, Well No. 4157-11, at Kahuku, Oahu at Tax Map Key: 5-6-2:9
Quantity Requested: 3,700,000 gallons per day.
New Water Use: Saltwater aquaculture
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-2:9

Pacific Sea 2 (Well No. 4257-01)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Pacific Sea 2 Well, Well No. 4257-01, at Kahuku, Oahu at Tax Map Key: 5-6-2:9
Quantity Requested: 5,200,000 gallons per day.
Existing Water Use: Saltwater aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-2:9

Pacific Sea 3 (Well No. 4257-02)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Pacific Sea 3 Well, Well No. 4257-02, at Kahuku, Oahu at Tax Map Key: 5-6-2:9
Quantity Requested: 3,700,000 gallons per day.
Existing Water Use: Saltwater aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-2:9

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 12, 1993 to 1) the Commission on Water Resource Management, and 2) a copy of the objection letter(s) to the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

RAE M. LOUI for
KEITH W. AHUE
Chairperson

Dated: SEP 17 1993

SEP 21 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. 4157-11. Public notice of this application will be published in the Honolulu Star Bulletin issues of September 21, 1993 and September 28, 1993.

We would appreciate your review of the attached application and please return this form by October 12, 1993.

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

LN:k
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 Well Nos. 4157-08 and 4157-10 & 11. You can expect your applications to be processed within ninety (90) days from the date of receipt unless there are objections to your applications. We will be sending you a copy of the public notice for your applications and any further information regarding the status of your applications.

Our May 28, 1993 field investigation of your proposed source and use sites indicated that the maximum daily pumping capacity at Well No. 4157-08 is 576,000 gallons; please justify your request for an allocation of 3.0 million gallons per day (mgd) from this source. Similarly, the pumping capacity at Well No. 4157-10 is 108,000 gallons per day, yet you are requesting an allocation of 3.0 mgd to supply a 1/3-acre pond. Lastly, an inspection conducted on June 8, 1993 verified that Well No. 4157-11 is not in use and there is no pump in place.

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

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ko
APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT: The Estate of James Campbell
   Firm/Name: The Estate of James Campbell
   Contact Person: Dona Seth

   (b) LANDOWNER: The Estate of James Campbell
   Firm/Name: The Estate of James Campbell
   Contact Person: Dona Seth

2. WATER MANAGEMENT AREA: Windward Oahu/Koolau
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER: Well No. 4157-11
   (well or stream diversion name/number)

4. SOURCE LOCATION: Address: Kahuku
   Tax Map Key: 5-6-02:9
   (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-confined ☐ Perched ☐ Capsrock

6. METHOD OF TAKING WATER (check one): ☐ Artesian Flow ☐ Well & Pump ☐ Diverted Surface Flow ☐ Other (explain)

7. LOCATION OF PROPOSED WATER USE: Address: Kahuku
   (If possible, show on same maps as source location. Otherwise, attach similar maps)
   Tax Map Key: 5-6-02:9
   (a) Address: Kahuku
   (b) Land Use District (check one): ☐ Urban ☐ Agriculture ☐ Conservation ☐ Rural
   (c) County Zoning (describe)

8. QUANTITY OF WATER REQUESTED: 3,700,000 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, non-commercial, 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 (?): ☐ 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:

   (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 uses and Instream Flow Standards, reserved uses as defined by the Commission, and Hawaiian Home Land Trust uses. In addition, applicants understand that, upon permit approval, a water usage plan must be submitted, which the Commission may accept or reject.

Signature (print) The Estate of James Campbell
Date 6/17/43

Signature (print) The Estate of James Campbell
Landowner (print)
Date 6/17/43

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
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

FIELD MEMORANDUM

FILE REFS.:  CAMPBELL ESTATE and PAC SEAFARMS

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 as 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.
FILE REF:  CAMPBELL ESTATE
and PAC SEAFARMS
Field Inspection done 6/8/93

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

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 any one else also use water from this source? NO

Verified by Susan K. Swanson    Inspection Date: June 8, 1993