February 10, 2012

Mr. Imiola Lindsey, P.E.
Kamehameha Schools
Land Asset Division
78-6831 Alii Drive
Kailua-Kona, HI 96740

Dear Mr. Lindsey:

Commission on Water Resource Management
Meeting: Wednesday, February 15, 2012 (9:00 a.m.)
Review of Water Use Permits
Partial and/or Complete Revocations
Waialua Ground Water Aquifer System Area, Waialua, Oahu

On February 15, 2012, the Commission on Water Resource Management (Commission) will meet and review all water use permits in the Waialua Ground Water System Area. Enclosed is a copy of the staff submittal recommending partial or complete revocation or continuation of existing ground water use permits. Your well is among those which will be reviewed and acted upon.

You are invited to attend and discuss your wells. The meeting is scheduled for 9:00 a.m. in the DLNR Board Room 132, 1151 Punchbowl Street, Honolulu, Hawaii.

This meeting follows a review of all water use permits, information available in the public record, and field visits. Many of the ground water use permits date back to 1981 when the Waialua Ground Water Control Area was designated by the Board of Land Natural Resources. Many wells are old. Much of the water use approved at that time was for plantation agriculture, which has subsequently ceased. Unused allocations need to be revoked to make ground water available for new uses. The Commission will consider wellhead conditions for old wells in order to meet current standards for protecting ground water.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

WILLIAM M. TAM
Deputy Director

Enclosure (Submittal)
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 10, 2012

Mr. Iimiola Lindsey, P.E.
Kamehameha Schools
Land Asset Division
78-6831 Alii Drive
Kailua-Kona, HI 96740

You are invited to attend and discuss your wells. The meeting is scheduled for 9:00 a.m. in the

Commission on Water Resource Management (Commission) will meet on Water Use Permits

the Waialua Ground Water System Area, Waialua, Oahu.

Mr. Iimiola Lindsey, P.E.
Kamehameha Schools
Land Asset Division
78-6831 Alii Drive
Kailua-Kona, HI 96740

Send to
Street, Apt. #, or P.O. Box
City, State, Zip

PS Form 3811, February 2004
PS Form 3811, February 2004

Domestic Return Receipt
102595-02-20-1540

Enclosure (Summary)
September 9, 2011

Mr. Imiola Lindsey, P.E.
Kamehameha Schools LAD
78-6831 Alii Drive, Suite 235
Kailua-Kona, HI 96740

Dear Mr. Lindsey:

Water Use Permits 894 & 895
Well Nos. 3505-01 to -20 ("Pump 3") and 3506-03 ("Pump 8")

Thank you for your letter response sent by email on September 6, 2011, addressing questions we raised in our letter dated August 9, 2011. We appreciate your commitment to agriculture on the North Shore and thank you for your update on activities in support. Thank you also for water use reporting for July and August of this year.

We understand that your current use is not the full amount of the existing water use permits, and accept that the amounts you will need to support future growth of agriculture on these lands will require the full approved allocations of 1.552 and 1.660 mgd. We are inclined to recommend maintaining these amounts.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

WILLIAM M. TAM
Deputy Director

CI:ss
fyi
----- Forwarded by Roy Hardy/DLNR/StateHiUS on 09/06/2011 12:59 PM -----
William M. Tam  
Deputy Director  
CWRM  
PO Box 621  
Honolulu, Hawaii 96809

Dear Mr. Tam:

The following is in response to your letter dated August 9th, 2011, regarding water use permits 894 & 895 (Pumps 3 & 8).

With the recent transfer of the water use permits to Kamehameha Schools (KS), we have contracted a third party to monitor Pumps 3 & 8 per CWRM requirements. Attached are the monthly reports beginning June of this year.

Until recently, Pumps 3 & 8 existed as aging infrastructure from the plantation era. As such, there were complicating issues for monitoring each source, which is the reason for the lag between issuance of the permits and collection of monitoring data. Originally the pumps existed as a battery of underground wells along a common header, so taking the required measurements was impractical. For the most part, such difficulties have been overcome with recent and on-going improvement projects.

KS has made significant financial investments in the water system served by Pumps 3 & 8 as part of a larger decision to support local agriculture, with over $10 million invested over the past 5 years. Additional work is in progress, and the system is planned for substantial completion by 2015.

A significant part of the investment to date, as discussed and approved by CWRM staff, was the improvement of four of the original 20 wells located at Pump 3, by isolating them from the below ground header piping, and extending/grouting the well casings to ground level. Two of these four modernized wells were outfit with well pumps and controls. KS also has near term plans to equip the remaining two wells with pump hardware.

With regard to the entire irrigation system, additional improvements were made to
- minimize transmission loss by replacing aging ditches with pressurized transmission lines
- centrally filter surface water to reduce in-field costs
- improve & decommission reservoirs, per new State regulations

All of the above-mentioned and future improvements were sized with the current water allocations (1.552 & 1.660 mgd) in mind, and the completed system, which will require 6 mgd across 2,765 acres. The majority of this demand will be served by surface water, however, Pumps 3 & 8 will be relied on heavily during periods of low rainfall.

In addition to completing the upgrade of Pump 3, KS has similar near term plans for improving Pump 8. Both sources are essential for the revitalization of agriculture in Haleiwa, as reflected by the recent improvements and the money invested.

Recent monitoring data from Pumps 3 & 8 (attached) is the most accurate accounting of usage to date, and KS is committed to continuing this monitoring per CWRM requirements. It should be noted that for the next 3 years or so, water usage numbers will not reflect true long term demand, as improvement projects continue.
throughout the system. A significant variation in pumpage throughout the year is also anticipated, with dry and wet periods not always occurring during the same months and for the same duration. Furthermore, the usage values are likely to be artificially low for several years until such time that we can complete the upgrades to our comprehensive irrigation system and put the full 2,765 acres to productive agricultural use.

During semi-annual dry periods, Pumps 3 & 8 are the sole source of water for crops on KS Haleiwa land. The wells in question provide vital security to agriculture throughout the year. These allocations are crucial to the support and revival of local agriculture, and it is essential that KS maintains the permitted amounts of 1.552 mgd (Pump 3) and 1.660 mgd (Pump 8).

Please feel free to call me if you have any questions or if you would like to discuss this matter further.

Sincerely,

'Imi ola Lindsey, PE
Kamehameha Schools LAD
INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809. For assistance, please call (808) 587-0265.

**Measurement should be taken while pump is NOT running just prior to a pumping cycle; if measurement is taken while pump is running, please indicate so.**

Other comments or additional information (e.g., date and method of chloride measurement, how pumpage amounts are estimated, etc.):

**Flow meter, electrical consumption, weir or flume, not metered (estimated).**

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Period Begin Date (mm/dd/yy)</th>
<th>Period End Date (mm/dd/yy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Non-Pumping Water Level (ft. above sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5806-02</td>
<td>OPAEULA PUMPS</td>
<td>07/01/11</td>
<td>07/17/11</td>
<td>1,844</td>
<td>FLOW METER</td>
<td>40</td>
<td>73</td>
<td>10.2'</td>
</tr>
<tr>
<td>5806-02</td>
<td>BATTERY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5806-03</td>
<td>OPAEULA PUMP &amp;</td>
<td>07/01/11</td>
<td>07/27/11</td>
<td>209,192,572</td>
<td></td>
<td>85</td>
<td>73</td>
<td>10.3'</td>
</tr>
<tr>
<td>5806-04</td>
<td>BATTERY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submitted by (print): SID KENT 3/1/11

Title: ____________________________

Signature: ____________________________ Date: ____________________________

GWUR-MON FORM (06/10/2004)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
MONTHLY GROUND WATER USE REPORT

Name: ____________________________
Company: ____________________________________________
Address: ____________________________________________

Telephone No.: __________________ Fax No.: __________________
Report Month: __________________ Year: ________________

INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809. For assistance, please call (808) 587-0255.

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Period Begin Date (mm/dd/yyyy)</th>
<th>Period End Date (mm/dd/yyyy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp (°F)</th>
<th>Non-Pumping Water Level (ft. above msl)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>3005-02 &amp; 3005-03 AND 3006-04</td>
<td>OPEHULU PUMP BATTERY</td>
<td>07/27/11</td>
<td>8/31/11</td>
<td>27,484,000</td>
<td>Flowmeter</td>
<td>40</td>
<td>72</td>
<td>10.3</td>
</tr>
<tr>
<td>3006-03</td>
<td>OPEHULU PUMP BATTERY</td>
<td>07/27/11</td>
<td>8/24/11</td>
<td>10,570,000</td>
<td>Flowmeter</td>
<td>90</td>
<td>79</td>
<td>10.3</td>
</tr>
</tbody>
</table>

* Flow meter, electrical consumption, weir or flume, not metered (estimated).
** Measurement should be taken while pump is NOT running just prior to a pumping cycle; if measurement is taken while pump is running, please indicate so.

Other comments or additional information (e.g., date and method of chloride measurement, how pumpage amounts are estimated, etc.):

Submitted by (print): ____________________________ Title: ____________________________
Signature: __________________________________ Date: ____________________________

GWUR-MON FORM (06/10/2004)
Photo 1. Improved Wells “B” & “C”, piping at ground level

Photo 2. Cross country ditch lined with new pipe for efficient transmission of water
Photo 3. Fully functional central filtration station sized for 6 mgd

Photo 4. Improved Opae'ula 1 reservoir, main storage for surface water
KS Haleiwa Ag Irrigation Improvements

- Cross Country Piping
- Central Filtration Station
- Reservoir upgrade
- Pump 8
- Pump 3
- Uphill Piping

Scale: 0 0.25 0.5 1 Miles
Name: 
Company: 
Address: 
Telephone No.: 
Fax No.: 
Report Month: Year: 

INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809. For assistance, please call (808) 587-0265.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start Date</th>
<th>End Date</th>
<th>Water Use</th>
<th>Method</th>
<th>Temperature</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPAEULA PUMP 3 BATTERY</td>
<td>05/24/11</td>
<td>07/01/11</td>
<td>20,852.078</td>
<td>Flow meter</td>
<td>100</td>
<td>70°</td>
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<tr>
<td>OPAEULA PUMP 8 BATTERY</td>
<td>05/20/11</td>
<td>07/01/11</td>
<td>13,623,000</td>
<td>Flow meter</td>
<td>75</td>
<td>70°</td>
</tr>
</tbody>
</table>

* Flow meter, electrical consumption, weir or flume, not metered (estimated).
** Measurement should be taken while pump is NOT running just prior to a pumping cycle; if measurement is taken while pump is running, please indicate so.

Other comments or additional information (e.g., date and method of chloride measurement, how pumpage amounts are estimated, etc.):

Submitted by (print): SID KENT 7/9/11 
Title: 
Signature: 
Date: 

GWUR-MON FORM (06/10/2004)
### Depths of the 20 Wells Which Supply Pump 3

<table>
<thead>
<tr>
<th>Letter Designation</th>
<th>State Well Number</th>
<th>Year Drilled</th>
<th>Depth (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3505-01</td>
<td>1899</td>
<td>428</td>
</tr>
<tr>
<td>B</td>
<td>3505-02</td>
<td>1899</td>
<td>348</td>
</tr>
<tr>
<td>C</td>
<td>-03</td>
<td>1899</td>
<td>350</td>
</tr>
<tr>
<td>D</td>
<td>-04</td>
<td>1899</td>
<td>350</td>
</tr>
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<td>E</td>
<td>-05</td>
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</tr>
<tr>
<td>F</td>
<td>-06</td>
<td>1900</td>
<td>343</td>
</tr>
<tr>
<td>G</td>
<td>-07</td>
<td>1900</td>
<td>338</td>
</tr>
<tr>
<td>H</td>
<td>-08</td>
<td>1900</td>
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<td>I</td>
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<td>1902</td>
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<td>M</td>
<td>13</td>
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<td>17</td>
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<td>18</td>
<td>1913</td>
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</tr>
<tr>
<td>S</td>
<td>19</td>
<td>1913</td>
<td>400</td>
</tr>
<tr>
<td>T</td>
<td>20</td>
<td>1913</td>
<td>400</td>
</tr>
</tbody>
</table>

**Note:**
1. All wells have 12-inch casing but casing depths and length of perforated sections, if any, are not known.
2. The source of information is Stearns & Vaksvik (1938:191-192). The battery of wells is listed as Nos. 331A to T.
3. Well B is presently disconnected from the manifold system. According to plantation personnel, the valve separating the 3A and 3B wells is open so that Pump 3A draws water from all 19 of the other wells in the battery.

---

**Exhibit 3**

*Layout of Well Nos. 3505-01 to -20 and WSCO Pumps 3A and 3B*

John Duarte, July 22, 1920
August 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Kaeo Duarte
Kamehameha Schools
567 South King Street, Suite 200
Honolulu, HI 96813

Dear Mr. Duarte:

20-Year Water Use Permit Review and Current Water Use Reporting

Your Water Use Permit Nos. 894 & 895 for the amounts of 1.552 mgd and 1.660 mgd, respectively, from "Pump 3" battery (Well Nos. 3505-01 to -18) and "Pump 8" (Well No. 3506-03) were approved as transfers from Waialua Sugar Company by the Commission on Water Resource Management (Commission) on July 7, 2010. As part of our recent 20-year review of water use permits, required by the State Water Code, we note that there is no reporting of water use from these wells, as required by your permit.

Unused water that has been previously allocated is subject to revocation in accordance with Hawaii Revised Statutes §174C-58(4) and standard water use permit condition #15:

After a hearing, the commission may suspend or revoke a permit for:
Partial or total nonuse, for reasons other than conservation, of the water allowed by the permit for a period of four continuous years or more.

Please transmit water use reports for the period under your control, and indicate if you are willing to voluntarily relinquish any of your 4-year unused amount. If you are not willing to voluntarily relinquish any amount, please explain why any unused amount should not be revoked by the Commission (after a hearing).

Please respond in writing no later than 30 days from the date of this letter.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

WILLIAM M. TAM
Deputy Director

CI:ss
July 7, 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Imiola Lindsey
Kamehameha Schools
78-6831 Alii Drive, Suite 235
Kailua-Kona, HI 96740

Dear Mr. Lindsey:

Transfer of Water Use Permit (WUP No. 054 to WUP No. 895) for Well No. 3506-03 & -04
Waialua Ground-Water Management Area, Oahu

We have received your Request to Transfer Water Use Permit for the subject well. Please note that as part of the transfer process, we have assigned a new Water Use Permit Number for this well. This is for record keeping purposes only and voids and supercedes the previous Water Use Permit Number listed above. As provided by law, your notice of transfer simply notifies us of the transfer of the permit does not create any new rights and liabilities in favor of or against the transferee.

This letter transmits your water use permit for Pump 8 Battery Well (Well Nos. 3506-03 & -04) for use of 1,660 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 June 2, 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.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form
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 Waialua 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 Charley Ice of the Commission staff at 587-0218.

Sincerely,

LAURA H. THIELEN
Chairperson

Attachments: WUR Form

c: Honolulu BWS
GROUND-WATER USE PERMIT
WUP NO. 895

PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Address</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kamehameha Schools</td>
<td>Kamehameha Schools</td>
</tr>
<tr>
<td>Kailua-Kona, HI 96740</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>North</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>Waialua</td>
</tr>
<tr>
<td>Aquifer System</td>
<td></td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>25</td>
</tr>
<tr>
<td>Well Name</td>
<td>Pump 8 Battery</td>
</tr>
<tr>
<td>State Well No.</td>
<td>3506-03 &amp; -04</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>1.660 mgd</td>
</tr>
<tr>
<td>Location of water use</td>
<td></td>
</tr>
<tr>
<td>TMK #</td>
<td>(1) 6-2-006:007</td>
</tr>
<tr>
<td>State land use classification</td>
<td>AG</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>Ag</td>
</tr>
</tbody>
</table>

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 June 2, 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) 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).
11. This permit shall be subject to the Commission's periodic review of the Waialua 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 Waialua 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 Waialua 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.

__ LAURA H. THIELEN, Chairperson
Commission on Water Resource Management

Attachment
We are trying to complete your request to transfer water use permits 137 for Opaekaʻula Pump 3 Battery and WUP #54 for Pump 8. Because of multiple sources and changing uses, our need to make proper accounting of water use now requires establishing a footprint for each source's uses. While we have TMK maps showing vast swaths of agricultural land as "use" areas, nothing identifies the specific areas to be irrigated by these sources. Please provide a simple map showing the areas to be irrigated by these sources. It is understood that some areas to be considered eligible for use under these permits may be fallow at any one time. The information needed is the acreage to be irrigated and the boundaries within which irrigation will occur. Areas outside the boundaries may still fall within the same TMK tract, but not be the subject of this permit. Water use reporting to follow should indicate acreage irrigation and acreage fallowed, understanding that these numbers will change through the tenure of these permits.

Charley Ice
Hydrologist
Hawaii Water Commission
1151 Punchbowl 227 Kalanimoku
P.O. Box 621, Honolulu 96809
(808) 587-0218
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** CHARLEY

**DATE:** 20-May-10

**TO:** KUNIMURA, I.

**INIT:** NAKIMURA, I.

**TO:** UYENO, D.

**INIT:** YODA, K.

**TO:** YOSHINAGA, M.

**INIT:** IMATA, R.

**INIT:** KAWAHARA, K.

**DATE:** 27-May-10

**SUSPENSE DATE:**

**PLEASE:**

1 Approval

2 Signature

3 Information

4 See Me

1 Review & Comment

2 Type Final, label file folder, update People.db

3 Take Action

4 Xerox copies

**WELL NUMBER** 3506-03&04 **WELL NAME** Pump 8

**WUP Number** Old=054/New=895

**ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>TRANS. LETTER</td>
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<tr>
<td>2</td>
<td>PERMIT PROCESS TABLE</td>
</tr>
<tr>
<td>3</td>
<td>CWRM MAPS</td>
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<td>APPL. FORM (11 COPIES)</td>
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<tr>
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<td>9</td>
<td>ALL INFO FILLED IN</td>
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<td>BACKGROUND CHECK</td>
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<td>11</td>
<td>$25 FEE DEPOSIT SLIP</td>
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<td>12</td>
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- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

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**WELL NAME** Pump 8

**WUP Number** Old=054/New=895

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</tbody>
</table>
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
REQUEST TO TRANSFER WATER USE PERMIT
☒ Groundwater or ☐ Surface Water

Instructions: Please print in ink or type and send completed application to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwm.

CURRENT PERMIT HOLDER:
1. (a) PERMITTEE
   Firm/Name: Waialua Sugar Co
   Contact Person: Henry X. Nui
   Address: 2160 Uwini Road, Waialua, HI
   Phone: 808-621-3500
   E-mail: henxnu106@comcast.net

   Signature: [Signature]
   Date: 5/19/10

(b) LANDOWNER OF SOURCE
   Firm/Name: Kamehameha Schools
   Contact Person: Imiola Lindsey
   Address: 567 South King Street, Suite 200, Honolulu HI 96813
   Phone: (808) 523-6200
   E-mail: imilindse@ksbe.edu

   Signature: [Signature]
   Date: 5/19/10

PERMIT TO BE TRANSFERRED (CHECK ONE ONLY) ☒ IN ENTIRETY or ☐ IN PART BY GPD TO:
2. (a) PERMITTEE
   Firm/Name: Kamehameha Schools
   Contact Person: Imiola Lindsey
   Address: 567 South King Street, Suite 200, Honolulu HI 96813
   Phone: (808) 523-6200
   E-mail: imilindse@ksbe.edu

   Signature: [Signature]
   Date: 5/19/10

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   Firm/Name: Kamehameha Schools
   Contact Person: Imiola Lindsey
   Address: 567 South King Street, Suite 200, Honolulu HI 96813
   Phone: (808) 523-6200
   E-mail: imilindse@ksbe.edu

   Signature: [Signature]
   Date: 5/19/10

WATER USE PERMIT TRANSFER INFORMATION
3. WATER USE PERMIT NO.: 54
4. WELL/STREAM DIVERSION NAME AND STATE NUMBER: Pump 8 (State # 3506-003 and 004)
5. T.M.K. AT SOURCE 6-2-006:007
6. END USE T.M.K. 6-2-006:007

WUP TRANSFER REQUEST FORM (10/21)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
REQUEST TO TRANSFER WATER USE PERMIT

Instructions: Please print in ink or type and send completed application to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawai.gov/dlrn/cwrm.

CURRENT PERMIT HOLDER:
1. (a) PERMITTEE
   Firm/Name  Walilua Sugar Co
   Contact Person  Darrell X. Nii
   Address  1116 Whitney Avenue Wahiawa
   Phone  (808) 621-8000  Fax  (808) 621-7410
   E-mail  cww@walilua.com

   Signature
   Date  5/17/10

   (b) LANDOWNER OF SOURCE
   Firm/Name  Kamehameha Schools
   Contact Person  Imiola Lindsey
   Address  567 South King Street, Suite 200, Honolulu HI 96813
   Phone  (808) 523-6200  Fax  (808) 541-5305
   E-mail  jmlindsey@ksbe.edu

   Signature
   Date  5/19/10

PERMIT TO BE TRANSFERRED (CHECK ONE ONLY) ☑ IN ENTIRETY or ☐ IN PART BY GPD

TO:
2. (a) PERMITTEE
   Firm/Name  Kamehameha Schools
   Contact Person  Imiola Lindsey
   Address  567 South King Street, Suite 200, Honolulu HI 96813
   Phone  (808) 523-6200  Fax  (808) 541-5305
   E-mail  jmlindsey@ksbe.edu

   Signature
   Date  5/19/10

   (b) LANDOWNER OF SOURCE
   Firm/Name  Kamehameha Schools
   Contact Person  Imiola Lindsey
   Address  567 South King Street, Suite 200, Honolulu HI 96813
   Phone  (808) 523-6200  Fax  (808) 541-5305
   E-mail  jmlindsey@ksbe.edu

   Signature
   Date  5/19/10

WATER USE PERMIT TRANSFER INFORMATION

3. WATER USE PERMIT NO.: 137
   EFFECTIVE DATE OF TRANSFER: 4/1/99

4. WELL/STREAM DIVERSION NAME AND STATE NUMBER: Opaeula Pump 3 Battery (State # 3505-001 to 020)

5. T.M.K. AT SOURCE  6-2-010:001

6. END USE T.M.K.  6-2-010:001

WUP TRANSFER REQUEST FORM (10/21/2008)
Mr. Imiola Lindsey  
Kamehameha Schools  
567 South King Street, Suite 200  
Honolulu, HI 96813

Dear Mr. Lindsey:

Current Use of Ground Water from Waialua Aquifer System  
Water Use Permits Issued to Waialua Sugar Company

We understand that ownership of wells formerly operated by Waialua Sugar Company have been transferred to Kamehameha Schools. There is also a need to transfer the water use permits (WUP) associated with these wells. At a meeting with Roy Hardy of our staff on September 24, 2009 regarding modification details of the Pump 3 battery, it was mentioned that WUP transfers would be required. We have not received any such transfer request to date.

Additionally, because the Water Code provides that four years of non-use is grounds for revocation of the allocation in the water use permit, we request your assistance in determining the proper disposition of these allocations. These are the WUPs and respective well numbers and names:

<table>
<thead>
<tr>
<th>WUP No.</th>
<th>Well No.</th>
<th>Well Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>054</td>
<td>3506-03 &amp;-04</td>
<td>Pump 8 battery</td>
</tr>
<tr>
<td>137</td>
<td>3505-01 to -20</td>
<td>Pump 3 battery</td>
</tr>
</tbody>
</table>

If you have limited reasonable and beneficial use, please identify the amount and purpose of use, using our water use permit application form. Following the normal review, we will issue you new permits accordingly. We will ask the Commission to revoke allocations with no current or planned use, making them available for other users. Additional amounts that may be required in the future may be applied for at any time using the water use application form.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

KEN C. KAWAHARA, P.E.  
Deputy Director

CI:ss  
Attachment
Waialua Sugar Company
Voluntary Reduction of Permitted Water Use in the
Waialua Aquifer System, Waialua Ground Water Management Area
Waialua, Oahu

Background: Present authorized uses of ground water in the Waialua Aquifer System of the Waialua Ground Water Management Area (GWMA) total 43.114 mgd. The sustainable yield for the Waialua Aquifer System (formerly called the Waialua Subarea) was originally 60 mgd when the Board of Land and Natural Resources adopted the sustainable yield in July 1981. The Commission on Water Resource Management, in October 1991, accepted an updated table of sustainable yields for Oahu. Under the updated table, the sustainable yield for the Waialua Aquifer System was reduced from 60 mgd to 40 mgd. The new sustainable yield was formally adopted by the Commission on March 17, 1993. Authorized uses now exceed the sustainable yield by 3.114 mgd.

The Commission staff has reviewed the authorized uses versus the actual uses in the entire Waialua GWMA. Allocations in the Waialua Aquifer System are as follows:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Waialua Sugar Company</td>
<td>39.940 mgd</td>
</tr>
<tr>
<td>Honolulu BWS</td>
<td>2.730 mgd</td>
</tr>
<tr>
<td>Private Users</td>
<td>0.444 mgd</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>43.114 mgd</strong></td>
</tr>
</tbody>
</table>

Preliminary review of Waialua Sugar Company's pumpage data indicates that they have used less than 30 mgd of their 40 mgd allocation over the last five years (see attached graph). Water use by the Honolulu BWS and private users has not changed significantly.

Waialua Sugar Company calculated their irrigation requirements using the same methodology that Oahu Sugar Company used to determine their irrigation requirements in the Pearl Harbor area. Irrigation requirements were calculated for dry years (1983 - 1986) and wet years (1988 - 1991). Pumping required was calculated to be about 46 to 48 mgd for dry years and about 35 to 36 mgd for wet years.

Waialua Sugar Company has reviewed their water use over the past 20 years and, based on historical water use, conversion to drip irrigation, and other factors, has voluntarily reduced its permitted water use in the Waialua Aquifer System from 39.9 mgd to 36.0 mgd effective June 1, 1993. This voluntary reduction reduces the allocations in the Waialua Aquifer System to 39.174 mgd, which is less than the sustainable yield of 40 mgd, and allows an additional 0.826 mgd to be allocated.

In voluntarily reducing its allocation, Waialua Sugar Company states that they "want to be on record that sugar production is highly dependent upon water; without adequate water, yields will suffer. We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required" (See attached letter).
Chairperson and Members
Commission on Water Resource Management

June 2, 1993

RECOMMENDATION:

That the Commission accept Waialua Sugar Company's voluntary reduction of permitted use in the Waialua Aquifer System, from 39.940 to 36.0 mgd. The 3.94 mgd reduction will be taken from sources in the Waialua Aquifer System presently being determined by Waialua Sugar Company. Staff will be working with them to determine the source-by-source reductions and will bring the results to the Commission for approval.

Respectfully submitted,

[Signature]

RAE M. LOUI
Deputy Director

Attach.

APPROVED FOR SUBMITTAL

[Signature]

KEITH W. AHUE, Chairperson
WAIALUA AQUIFER SYSTEM
WSCO Use Vs. Allocation

WUP = 39.940 mgd
11.418 mgd

--- monthly use --- 12-mon mov ave
May 12, 1993

Ms. Rae Loui
Deputy Director
State Water Commission
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

We have had several meetings over the past months to discuss Waialua Sugar Company's permitted water use from the Waialua aquifer. Waialua Sugar has a permitted use of 39.9 million gallons per day. When you add the permitted use of the City Water Department, you have a combined use which is higher than the sustainable yield.

<table>
<thead>
<tr>
<th>Waialua Sugar Company</th>
<th>39.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Water Supply</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>43.1</td>
</tr>
<tr>
<td>Total Sustainable Yield</td>
<td>40.0</td>
</tr>
<tr>
<td>Over Permitted Use</td>
<td>(3.1)</td>
</tr>
</tbody>
</table>

We have reviewed our water use over the past 20 years and while we have peaked at times over our permitted use, it appears we could reduce the permitted use given recent historical water use, conversion to drip irrigation and other factors.

Before going further, we want to be on record that sugar production is highly dependent upon water; without adequate water, yields will suffer. We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required.

Based on the above discussions and research into this matter, Waialua Sugar Company is voluntarily reducing its permitted water use in the Waialua aquifer from our current 39.9 million gallons per day to 36.0 million gallons per day effective June 1/93.

Sincerely,

Michael F. O'Brien
President
Dole Food Hawaii

cc: M. Agader
    J. A. Russell
    G. Yim
MINUTES OF THE MAY 19, 1993 MEETING

Unanimously approved as submitted (Cox/Nakata).

OLD BUSINESS/REPORTS

Ms. Loui reported on two follow up items:

1) Guidelines for modification of the water use permits
   Staff finds that Administrative Rules 171-23 are clear regarding changes that require modification. Therefore, it was felt that guidelines are not necessary.

2) Guidelines for Emergency permits
   Still being worked on. Eventually, amendments to the Administrative Rules will be made to more clearly address emergency permits.

WAIALUA SUGAR COMPANY, VOLUNTARY REDUCTION OF PERMITTED WATER USE IN THE WAIALUA GROUND WATER MANAGEMENT AREA, WAIALUA, OAHU

Mr. Sakoda submitted amended recommendations for the Commission review and action (see attached).

Mr. Cox had the following questions:

1) Are the statements regarding "dry years and "wet years" correct for that area and time?
   Rainfall data provided by Climate Center was utilized, it was jointly determined that these were wet and dry years based on actual rainfall information.

2) In terms of the water level in the aquifer, what has happened during the periods noted?
   The water level data for the Waialua Aquifer is not that good. No problems have been expressed. USGS is drilling in that area to get more data.

3) What length of time is being discussed in Waialua Sugar Company's (Waialua Sugar) statement: "We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required."
   No specifics have been set, it would be on a case by case basis.

Mr. Nakata asked:

1) Why was there a discrepancy in the amount of pumpage?
   Mr. Sakoda replied that Waialua Sugar was still in the process of converting from furrow to drip. During that time, fields lie fallow longer than normal.

2) What percentage of the acreage was under drip irrigation?
Milton Agadar, Waialua Sugar Irrigation Superintendent stated that approximately 90% is fed by drip irrigation from the Waialua Aquifer.

Mr. Martin provided testimony (see Commission file) urging the Commission to review all data presently available and consider imposing further allocation reductions. He also felt specific quantitative guidelines and protocols for administering dry period extractions need to be part of the State Water Resource Protection Plan and water use permit conditions.

Mr. Cox commented that unless more information was available he would be uncomfortable in trying to set a time for the dry period because it would vary considerably from aquifer to aquifer. Mr. Sakoda agreed that a generalized guideline would be difficult to make because every situation would be different.

In regards to the word "voluntary", Mrs. Black suggested "agreement" because if there is no water, how could it be a "voluntary reduction". Mr. Sakoda stated that it is voluntary because the Water Code provides that a water user can voluntarily give up or reduce their allocation without going through the public hearing process.

Mr. Ing asked how the data was obtained for the graph and if all the active pumps were metered. Mr. Sakoda said data was submitted monthly by Waialua Sugar. Mr. Agadar responded that all the pumps are metered.

Mr. Ing asked why the 12-month moving average of pumping was used and if this was an industry practice. In Hawaii, 12-month moving averages have been used by the water industry.

Unanimously approved as amended (Cox/Nakata).

ITEM 4

HOUSING FINANCE AND DEVELOPMENT CORPORATION,
APPLICATION FOR A WELL CONSTRUCTION PERMIT, KEOPU-HFDC WELl 1 (WELL NO. 3957-03), NORTH KONA, HAWAII

The following items were discussed:

1) The nearby Haseko Well is not being pumped but is proposed to be pumped at 700 gallons per minute.

2) This well would be required to follow the CWRM’s pump test protocol, which is a seven day test. The best data possible will be obtained for input into the Groundwater Model currently being developed jointly by USGS/CWRM.

3) If the HFDC wells interfere with the Haseko well, the Hawaii County BWS would not award the full amount of water commitments to the wells.

4) There have been mixed results of the testing of the high level wells. Some have stabilized quickly while others have not.

Mr. Martin expressed concerns regarding ceded lands, the effects on other wells due to a first come-first serve process, and requirements for a water license.

Mr. Tam said public lands are set aside by executive order for county and other state department uses. Setting aside or transferring water to a sub-agency of the state for public purposes is not a transfer to a private entity. Therefore, the use by the counties of state lands for providing municipal water supply does not require a license under the Land Board or the Commission.

Unanimously approved (Cox/Nakata).
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

September 11, 1981

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Certification of Ground Water Withdrawals and Uses.
Waialua Ground Water Control Area, Oahu

The Waialua Ground Water Control Area was designated by the Board of
Land and Natural Resources on February 27, 1981 under authority of Chapter 177,
HRS, and Chapter 156 of Title 13, Administrative Rules entitled "Rules for the
Control of Ground Water Use in the State of Hawaii". The Department's regulatory
procedures provide for water users to declare their existing water uses within a
nine-day period which ended June 4, 1981 and allows the Board 180 days to
certify the declared uses.

The recommended certification of total annual, average daily, and maximum
daily withdrawals for individual wells and/or well fields is tabulated in the
attachment, "Certification of Ground Water Withdrawals and Uses, Waialua Ground
Water Control Area", for the Waialua, Mokuleia, and Kawailoa Subareas. A com-
parison of the recommended quantity for certification and the sustainable yield
adopted by the Board on July 24, 1981 is tabulated below:

<table>
<thead>
<tr>
<th>Subarea</th>
<th>Sustainable Yield (mgd)</th>
<th>Recommended Certification (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waialua</td>
<td>60</td>
<td>81.812</td>
</tr>
<tr>
<td>Mokuleia</td>
<td>20</td>
<td>7.753</td>
</tr>
<tr>
<td>Kawailoa</td>
<td>10</td>
<td>5.360</td>
</tr>
</tbody>
</table>

The remaining ground water supplies may be withdrawn by obtaining
permits from the Board of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing withdrawals and uses for each well
tabulated on the attached "Certification of Ground Water Withdrawals and Uses,
Waialua Ground Water Control Area" dated September 11, 1981, subject to any
special conditions and applicable laws, rules and regulations.

Respectfully submitted,

Robert T. Cheuck
BOBERT T. CHEUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

Approved by the Board of
Land & Natural Resources
at the meeting held on
9/1/83

ITEM 3-5

C8
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
CERTIFICATION OF GROUND WATER WITHDRAWALS AND USES
Waialua Ground Water Control Area

<table>
<thead>
<tr>
<th>Pump/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Use</th>
<th>Source Capacity (mgd)</th>
<th>5-yr. Ave Withdrawal (mgd)</th>
<th>Source Use</th>
<th>Maximum Daily Withdrawal (mgd)</th>
<th>Total Annual Withdrawal (mgd)</th>
<th>Average Daily Withdrawal (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wai'ulua Subarea</strong></td>
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<tr>
<td><strong>Waialua Sugar Co.</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump 1</td>
<td>3407-04, 05, 06</td>
<td>5</td>
<td>Agr.</td>
<td>6.0</td>
<td>2.33</td>
<td>Agr.</td>
<td>6.0</td>
<td>850.45</td>
<td>2.33</td>
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*For Agr./Dom. uses, specific quantities for each use are to be provided when additional information becomes available.

C9
### Waialua GWCA

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| KAWAIILOA Subarea    |                |             |       |                       |                             |            |                            |                     |                     |
| Waialua Sugar Co.    |                |             |       |                       |                             |            |                            |                     |                     |
| Pump 4               | 3605-02 to 04, 06 to 08, 11 to 13 | 9           | Agr.  | 14.0 | 5.53 | Agr. | 14.0 | 2,018.65 | 5.53 |
| **Private User**     |                |             |       |                       |                             |            |                            |                     |                     |
| Meadow Gold Farm     | 3704-01        | 1           | Ind.  | 0.648 | 0.430 | Ind. | 0.648 | 156.95  | 0.430  |
| **TOTAL - Kawailoa Subarea** | 10            |             |       |                       |                             |            |                            |                     |                     |

*For Agr./Dom. uses, specific quantities for each use are to be prorated when additional information becomes available.*
To Charley Ice/DLNR/StateHiUS@StateHiUS
cc
bcc
Subject Fw: North Shore Ag Acres

--- Forwarded by Roy Hardy/DLNR/StateHiUS on 09/25/2012 01:46 PM ---

From: Katie C Ersbak/DLNR/StateHiUS
To: Moana Hanawahine <mohanawa@ksbe.edu>, William M Tam/DLNR/StateHiUS@StateHiUS
Cc: Katie.C.Ersbak@hawaii.gov
Date: 09/25/2012 09:58 AM
Subject: Re: North Shore Ag Acres

Thank you for the info Moana!

Katie Ersbak

Secretary to Deputy Director, William M. Tam
Commission on Water Resource Management
Department of Land and Natural Resources
Kalanimoku Building
1151 Punchbowl Street, Room 227
Honolulu, HI 96813
Phone: (808) 587-0214
Fax: (808) 587-0219
dlnr.cwrm@hawaii.gov

Moana Hanawahine ---09/25/2012 09:26:40 AM---Aloha, There are 9,000 acres zoned as agriculture on...

From: Moana Hanawahine <mohanawa@hsbe.edu>
To: "Katie.C.Ersbak@hawaii.gov" <Katie.C.Ersbak@hawaii.gov>
Date: 09/25/2012 09:26 AM
Subject: North Shore Ag Acres

Aloha,

There are 9,000 acres zoned as agriculture on KS land on the North Shore. 2,341 of those acres are currently leased for agriculture.

Mahalo,

Moana

Moana Hanawahine
Kamehameha Schools
Administrative Coordinator
Land Assets Division
Office No.: (808) 523-6241
TO
STATE OF HI DEPT OF LAND & NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. Box 621
HONOLULU, HI 96809

WE ARE SENDING YOU   X Attached   □ Under separate cover via __________________________ the following items:

□ Shop drawings  □ Prints  □ Plans  □ Samples  □ Specifications
□ Copy of letter  □ Change order   □ __________________________

COPY TO 1808M / C FILE

SIGNED:

If enclosures are not as noted, kindly notify us at once. For: Bill Moore
Project Manager
PUMP INSTALLATION PERMIT
Pump 8A, Well No. 3506-03

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pump 8A (Well No. 3506-03) at TMK (1) 6-2-006:007, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 1152 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/info_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: May 17, 2012
Expiration Date: May 17, 2014

WILLIAM J. AILA, JR., Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: [Signature] C-57, C-57a, or A License #: AC-21896 Date: 05/31/12
Printed Name: Tonia H.K. Gonsalves Firm or Title: Beylik Drilling and Pump Service, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
PUMP INSTALLATION PERMIT
Pump 8B, Well No. 3506-04

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pump 8B (Well No. 3506-04) at TMK (1) 6-2-006:007, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 1152 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/info_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: May 17, 2012
Expiration Date: May 17, 2014

WILLIAM J. AILA, JR., Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: [Signature] C-57, C-57a, or A License #: AC-21896 Date: 05/31/12
Printed Name: Tonia H.K. Gonsalves Firm or Title: Beylik Drilling and Pump Service, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
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<th>Roy</th>
<th>DATE</th>
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<th>SUSPENSE DATE</th>
<th>TO</th>
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Please cut PIP for date reveal signed app. 5/15/12

8 A dB 3506-03104

loss "replacement" by smaller pump
Ms. Tonia H.K. Gonsalves  
Beylik Drilling and Pump Service, Inc.  
91-259A Olai Street  
Kapolei, HI 96707  

Dear Ms. Gonsalves:

Pump Installation Permit  
Pump 8A (Well No. 3506-03), Haleiwa, Island of Oahu

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 14:

**Special Conditions**

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Charley Ice of the Commission staff at 587-0218.

Sincerely,

[Signature]

WILLIAM J. AILA, JR.
Chairperson

Enclosure

c: Kamehameha Schools
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pump 8A (Well No. 3506-03) at TMK (1) 6-2-006:007, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 1152 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/info_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: May 17, 2012
Expiration Date: May 17, 2014

WILLIAM J. AILA, JR., Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: __________________________ C-57, C-57a, or A License #: C-21896 Date: ________________________

Printed Name: Tonia H.K. Gonsalves Firm or Title: Beylik Drilling and Pump Service, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
Ms. Tonia H.K. Gonsalves
Beylik Drilling and Pump Service, Inc.
91-259A Olai Street
Kapolei, HI 96707

Dear Ms. Gonsalves:

Pump Installation Permit

**Pump 8B (Well No. 3506-04), Haleiwa, Island of Oahu**

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

**Special Conditions**

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

**IMPORTANT -** Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM J. AILA, JR.
Chairperson

Enclosure

c: Kamehameha Schools
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pump 8B (Well No. 3506-04) at TMK (1) 6-2-006:007, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 1152 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/info_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: May 17, 2012
Expiration Date: May 17, 2014

WILLIAM J. AILA, JR., Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: ____________________________ C-57, C-57a, or A License #: C-21896 Date: ____________________________
Printed Name: Tonia H.K. Gonsalves Firm or Title: Beylik Drilling and Pump Service, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

BEYLIK DRILLING, INC.

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TOTAL $50.00

REMARKS:
LINE (1) Pump 8A & 8B
LINE (2)
LINE (3)
LINE (4)
LINE (5)
LINE (6)
LINE (7)
LINE (8)
LINE (9)
LINE (10)
TO
STATE OF HAWAII DLNR
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HI 96809

WE ARE SENDING YOU
☐ Attached
☐ Under separate cover via ________________ the following items:
☐ Shop drawings
☐ Prints
☐ Plans
☐ Samples
☐ Specifications
☐ Copy of letter
☐ Change order
☐ ______________________

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THESE ARE TRANSMITTED as checked below:

☐ For approval                     ☐ Approved as submitted
☒ For your use                      ☐ Approved as noted
☐ As requested                     ☐ Returned for corrections
☐ For review and comment            ☐ Return ______ corrected prints
☐ FOR BIDS DUE                      ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

COPY TO 1808M / C FILE

SIGNED: ____________________________
For: Bill Moore
Project Manager

If enclosures are not as noted, kindly notify us at once.
**WELL LOCATION INFORMATION**

1. STATE WELL NO. (if already assigned): 3-3506-003
2. WELL NAME: Pump 8A
3. ISLAND: O'ahu (3)
4. TMK: 6-2-006-007

The following must be attached before the application is accepted complete:
- A portion of 7.5-Minute Series U.S.G.S. topos map (scale 1:24,000) with well location labeled and the name of the quad map
- Property tax map, showing well location referenced to established property boundaries
- Photograph of the proposed well site

**PROPOSED WELL CONSTRUCTION**

<table>
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<tr>
<th>Proposed Work</th>
<th>Proposed Pump Capacity, gpm (gallons per minute)</th>
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<tr>
<td>New Well</td>
<td>1,152 gpm</td>
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<tr>
<td>Modify Existing Well</td>
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<tr>
<td>Abandon/Seal Well</td>
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</table>

**PROPOSED PUMP INSTALLATION**

10. Proposed Pump Capacity, gpm (gallons per minute):

- 1,152 gpm

11. Proposed Pump, gpm (gallons per day):

- 1,66 mgd

12. Proposed Amount of Withdrawal, gpd (gallons per day):

- 2,052 gpd

13. Method of flow measurement of flowmeter:

- Other (explain)

14. Proposed Survey name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits): To be determined

**LEGAL REQUIREMENTS If required, items 21. and 22. must be obtained before the Commission can legally issue a permit:**

21. Conservation District Use Permit (CDUP)

- Yes
- No

22. Special Management Area Permit (SMAP)

- Yes
- No

**ADDITIONAL REMARKS**

- Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

This proposed well improvement is in support of irrigation, and will offer greater well head protection and an enhanced ability to monitor water level and chloride or CWRM requirements.

**NOTE:**

Signatures below indicate that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 1) the proposed work to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion report/inspection report within 30 days after the completion date of the permitted work; 3) if event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $500/day.

**WATER RESOURCE MANAGEMENT**

For information and updates to this application form, visit [http://www.hawai.gov/dlnr/cwrm](http://www.hawai.gov/dlnr/cwrm).
**PROPOSED WELL SECTION**

*(Please attach schematic if different from diagram provided below)*

See attached schematic

- **Hole Diameter:** ____ in.
- **Elevation at top of casing:** ____ ft., msl*
- **Cement Grout:** ____ ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)
- **Solid Casing:** 0 (± 90% x (Ground Elev.-Water Level Elev))
  - Total Length: __________ ft.
  - Nominal Diameter: __________ in.
  - Wall Thickness: __________ in.
  - Bottom Elevation: ____ ft., msl*
- **Open Casing:** 0
  - Total Length: __________ ft.
  - Nominal Diameter: __________ in.
  - Wall Thickness: __________ in.
  - Bottom Elevation: ____ ft., msl*
- **Open Hole:**
  - Length: __________ ft.
  - Diameter: __________ in.
  - Bottom Elevation: ____ ft., msl*

*The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.*

**Grouting method:**
- □ Positive displacement
- □ Other

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):**
- __________ ft.

**Total Depth:** __________ ft.

**Rock or Gravel Packing:**
- □ Crushed Basalt
- □ Rounded Gravel

**Estimated Water Level Elev.:** __________ ft., msl*

**Ground Elevation:** __________ ft., msl*

**Minimum of 2 Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**

**Solid Casing:** 0 (± 90% x (Ground Elev.-Water Level Elev))
- Total Length: __________ ft.
- Nominal Diameter: __________ in.
- Wall Thickness: __________ in.
- Bottom Elevation: ____ ft., msl*

**Open Casing:** 0
- Total Length: __________ ft.
- Nominal Diameter: __________ in.
- Wall Thickness: __________ in.
- Bottom Elevation: ____ ft., msl*

**Open Hole:**
- Length: __________ ft.
- Diameter: __________ in.
- Bottom Elevation: ____ ft., msl*

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - □ ANSI/AWWA C200
  - □ API Spec. 5L
  - □ ASTM A53
  - □ ASTM A139
  - □ ASTM A242 or A506
  - □ Type E
  - □ Type S
  - □ Grade B
  - □ Other
- Stainless Steel: (check one):
  - □ ASTM A409 (production wells)
  - □ ASTM A312 (monitor wells)
- ABS Plastic conforming to ASTM F480 (production wells):
  - □ Schedule 40
  - □ Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241):
  - □ Schedule 40
  - □ Schedule 80
  - □ Schedule 120
- **Thermoset Plastic:** (check one):
  - □ Fiberglass Pressure Pipe conforming to ASTM D2996
  - □ Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - □ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - □ ANSI/AWWA C200
  - □ API Spec. 5L
  - □ ASTM A53
  - □ ASTM A139
  - □ ASTM A242 or A506
  - □ Type E
  - □ Type S
  - □ Grade B
  - □ Other
- Stainless Steel: (check one):
  - □ ASTM A409 (production wells)
  - □ ASTM A312 (monitor wells)
- ABS Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241):
  - □ Schedule 40
  - □ Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241):
  - □ Schedule 40
  - □ Schedule 80
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  - □ Fiberglass Pressure Pipe conforming to ASTM D2996
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  - □ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Grouting method:**
- □ Positive displacement
- □ Other

**Note:** Neither bentonite nor mud should be used in saturated zone during drilling.

**Example:**

- Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = (Water Elevation - Bottom Elevation) ft.

**PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)**

- **Elevation at top of casing:** ____ ft., msl*

- **Solid Casing:**
  - Total Length: __________ ft.
  - Nominal Diameter: __________ in.
  - Wall Thickness: __________ in.
  - Bottom Elevation: ____ ft., msl*

- **Open Casing:**
  - Total Length: __________ ft.
  - Nominal Diameter: __________ in.
  - Wall Thickness: __________ in.
  - Bottom Elevation: ____ ft., msl*

- **Open Hole:**
  - Length: __________ ft.
  - Diameter: __________ in.
  - Bottom Elevation: ____ ft., msl*

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - □ ANSI/AWWA C200
  - □ API Spec. 5L
  - □ ASTM A53
  - □ ASTM A139
  - □ ASTM A242 or A506
  - □ Type E
  - □ Type S
  - □ Grade B
  - □ Other

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - □ ANSI/AWWA C200
  - □ API Spec. 5L
  - □ ASTM A53
  - □ ASTM A139
  - □ ASTM A242 or A506
  - □ Type E
  - □ Type S
  - □ Grade B
  - □ Other

- **Stainless Steel:** (check one):
  - □ ASTM A409 (production wells)
  - □ ASTM A312 (monitor wells)

- **ABS Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241):**
  - □ Schedule 40
  - □ Schedule 80

- **PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241):**
  - □ Schedule 40
  - □ Schedule 80
  - □ Schedule 120

- **Thermoset Plastic:** (check one):
  - □ Fiberglass Pressure Pipe conforming to ASTM D2996
  - □ Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - □ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Example:**

- Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = (Water Elevation - Bottom Elevation) ft.

**HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS**

To ensure that your as-built is in compliance with applicable standards.

**WCPI Application Form 08/31/2010**
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 90609, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $20.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 887-0228. For further information and updates to this application form, visit http://www.hawaii.gov/lnwr.

WELL LOCATION INFORMATION
1. STATE WELL NO. (if already assigned) 3-3506-004
2. WELL NAME Pump 8 B
3. ISLAND O'ahu (3)
4. TMK 6 - 2 - 006 : 007

The following must be attached before this application is accepted as complete:

- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quadrangle
- Property tax map, showing well location referenced to established property boundaries
- Photograph of the proposed well site
- A schematic diagram showing the well site, access road and proposed well infrastructure
- For dug wells, attach a grading plan with cross section profiles showing existing and finish grades

5. WELL OPERATOR'S NAME/COMPANY Kamuela Schools
6. LANDOWNER'S NAME/COMPANY Kamuela Schools
7. Address
8. Phone 808-322-5322
9. Fax 808-322-9446
10. E-mail

PROPOSED WELL CONSTRUCTION
7. Proposed Well
☐ Construct New Well
☐ Modify Existing Well
☐ Abandon/Seal Well
8. Construction Type
☐ Drilled
☐ Dug
☐ Shaft
☐ Tunnel

PROPOSED PUMP INSTALLATION
10. Proposed Work
☐ Install New Pump
☐ Replace Pump
11. Proposed Pump Capacity, gpm (gallons per minute)
☐ 1,152 gpm

12. Proposed Amount of Withdrawal, gpd (gallons per day)
☐ 1.66 mgd

13. Method of flow measurement
☐ Flowmeter
☐ Other (explain)

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

To be determined

PROPOSED USE
☐ 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
☐ 16. Domestic
☐ 17. Industrial (describe)
☐ 18. Irrigation (describe crop and no. of acres) Approx. 400 acres of diversified ag & seed crops
☐ 19. Military (describe)
☐ 20. Other (describe)

OTHER LEGAL REQUIREMENTS If required, items 21 and 22 must be obtained before the Commission can legally issue a permit:

21. Conservation District Use Permit (CDUP)
☐ Well is in Conservation District
☐ Required, CDUP # date approved
☐ Not Required, attach documentation from CDUP
☐ I have not checked with CDUP about whether or not a CDUP is required.

22. Special Management Area Permit (SMAP)
☐ Required, SMA # date approved
☐ Not Required (attach documentation from applicable County agency)
☐ I have not checked with the County about whether or not an SMA Permit is required.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources
☐ I have consulted with the SHPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPO.
☐ I have not consulted with the SHPD regarding potential impacts of well construction activities on historic sites. Proposal is to improve an existing well

24. Chapter 343
☐ An Environmental Assessment was completed, and
☐ An Environmental Impact Statement was required and has been accepted (attach letter of acceptance). Publication date in The Environmental Notice:

☐ A Finding of No Significant Impact has been determined (attach letter). Publication date in The Environmental Notice: 

This project proposes:
☐ Use of state or county lands, or use of state or county funds
☐ Use within a conservation district
☐ Use within a shoreline setback area
☐ Use within a national or Hawaiian registered historic site
☐ Use within the Waikiki Special District
☐ The construction, expansion or modification of a helicopter facility
☐ A wastewater treatment unit
☐ Waste-to-energy facility
☐ Landfill
☐ Oil refinery
☐ Power-generating facility
☐ None of the above 11 items

25. Water Use Permit No. (if applicable): 895

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

This proposed well improvement is in support of ag irrigation, and will offer greater well head protection and an enhanced ability to monitor water level and chlorides per CWRM requirements.

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion and abandonment report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines up to $500/day.

26. WELL DRILLER (Must be filled out if application is for Well Construction)
Beylik Drilling & Pump SVC, Inc. AC-21896
Licensee business name C-87 License No.
Licensee business name C-87/C-4177A License No.
Signature Date
Address Phone 96809 808-682-5554 808-682-5866
gonsalves@beylik.com
E-mail

27. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
Torda H.K. Gonsalves 05/15/12
Licensee business name C-87/C-4177A License No.
Signature Date
Address Phone 96809 808-682-5554 808-682-5866
gonsalves@beylik.com
E-mail

WPCI Application Form 08/31/2010
PROPOSED WELL SECTION

See attached schematic

Hole Diameter: ___________ in.

Elevation at top of casing: __________ ft., msl*

Minimum of 2' Radius & 4° Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: __________ ft., msl*

Grouting method:
☐ Positive displacement
☐ Other

Annular space between hole and casing (1.5° for positive displacement, 3° for other methods):

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev))

Total Length: ___________ ft.
Nominal Diameter: ___________ in.
Wall Thickness: ___________ in.
Bottom Elevation: __________ ft., msl*

Open Casing:
☐ Perforated
☐ Screen

Total Length: ___________ ft.
Nominal Diameter: ___________ in.
Wall Thickness: ___________ in.
Bottom Elevation: __________ ft., msl*

Open Hole:
Length: ___________ ft.
Diameter: ___________ in.
Bottom Elevation: __________ ft., msl*

**Note: Neither bentonite nor mud should be used in saturated zone during drilling.

Solid Casing Material:
Carbon Steel: compliant with (check one or more):
☐ ANSI/AWWA C200  ☐ API Spec. 5L  ☐ ASTM A53  ☐ ASTM A139
And compliant with (check one or more):
☐ ASTM A242 (or A606)  ☐ Type E  ☐ Type S  ☐ Grade B  ☐ Other

Stainless Steel: (check one):
☐ ASTM A409 (production wells)  ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one):
☐ Schedule 40  ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one):
☐ Schedule 40  ☐ Schedule 80  ☐ Schedule 120

Thermoplastic Plastic: (check one)
☐ Filament Wound Resin Pipe conforming to ASTM D2996
☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more):
☐ ANSI/AWWA C200  ☐ API Spec. 5L  ☐ ASTM A53  ☐ ASTM A139
And compliant with (check one or more):
☐ ASTM A242 (or A606)  ☐ Type E  ☐ Type S  ☐ Grade B  ☐ Other

Stainless Steel: (check one):
☐ ASTM A409 (production wells)  ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one):
☐ Schedule 40  ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one):
☐ Schedule 40  ☐ Schedule 80  ☐ Schedule 120

Thermoplastic Plastic: (check one)
☐ Filament Wound Resin Pipe conforming to ASTM D2996
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☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = (Water Elevation - 4 x (Ground Elev. - Water Level Elev) )
Example: Estimated + 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = (2 - 4 x (0.5 x 2)) = -1.5 ft.

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
MONTHLY GROUND WATER USE REPORT

FEBRUARY, 2012

Name: 
Company: 
Address: 
Telephone No.: 
Fax No.: 
Report Month: 

INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809. For assistance, please call (808) 587-0265.

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Period Begin Date (mm/dd/yy)</th>
<th>Period End Date (mm/dd/yy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Non-Pumping Water Level (ft. above Hl)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>886-03</td>
<td>OPASULA PUMP 3 Battery</td>
<td>1-31-12</td>
<td>2-29-12</td>
<td>15,751,200</td>
<td>Flowmeter</td>
<td>40</td>
<td>72</td>
<td>10.18</td>
</tr>
<tr>
<td>886-03</td>
<td>OPASULA PUMP 8 Battery</td>
<td>1-31-12</td>
<td>2-29-12</td>
<td>8,368,000</td>
<td>Flowmeter</td>
<td>80</td>
<td>80</td>
<td>10.2</td>
</tr>
</tbody>
</table>

* Flow meter, electrical consumption, weir or flume, not metered (estimated).
** Measurement should be taken while pump is NOT running just prior to a pumping cycle; If measurement is taken while pump is running, please indicate so.

Other comments or additional information (e.g., date and method of chloride measurement, how pumpage amounts are estimated, etc.):

Submitted by (print): SUE KENT (3-8-12)  
Title: 
Signature: 
Date:

GWUR-MON FORM (06/10/2004)
March 5, 2012

Mr. Imiola Lindsey
Kamehameha Schools
567 South King Street
Honolulu, HI 96813

Dear Mr. Lindsey:

Letter of Assurance for Well Nos. 3506-03 & 04

We have completed the review process for your Well Construction/Pump Installation Permit application(s) and the permit(s) are ready to be issued. However, in accordance with the State Water Code, §174C-84(a), the permit can only be issued to a licensed contractor and, to date, one has not been identified for your well(s).

Once you have selected a licensed contractor, please have the contractor sign and return to the Commission a copy of the original application, upon which a permit will be immediately issued provided that the following conditions are met:

1. The contractor has no outstanding issues with the Commission.
2. There are no significant changes to the application.
3. There have been no significant changes to applicable laws, rules or regulations since the application date.
4. There have been no significant changes to hydrogeologic conditions since the application date.

Also, attached for your information are copies of comments from reviewing agencies.

If you have any questions, please contact Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM M. TAM
Deputy Director

Enclosure
Wastewater Branch
919 Ala Moana Blvd. Room 309
Honolulu, Hawaii 96814-4920
Phone (808) 586-4294 Fax (808) 586-4300

STATE MESSENGER DELIVERY

Date: Jan 25, 2012

To: Commission on Water Resource Management
   Department of Land & Natural Resources
   State of Hawaii

Attn: charleg ice

From: Marshall Lum, Acting Branch Chief
      Sina Pruder, Acting Branch Chief
Lori Morikami, Planner
Planning & Design Section
Ph 586-4294 Fax 586-4300
Email: lori.morikami@doh.hawaii.gov

Subject: Well Construction/Pump Installation Permit/Water Use Permit for

Well No. 3506 - 03 & 04 pump B AB

Please find enclosed the cover sheet(s) of the above subject project.
January 20, 2012

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Pump 8 A&B (Well No. 3506-03 & 04) TMK (1) 6-2-006:007

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

Cl: ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 30 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year at 15 or more service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant’s information, a source of possible wastewater contamination [] is [] is not located near the proposed well site (information attached).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: Johnny Ong on Calu
Phone: 587-1294

Signed: 1-24-2012

Date: 1-24-2012
Happy Chinese New Year Charley –

Hope you enjoyed some gau or jai . . . if that’s your thing!

And here’s our comments – no comments. Hard copy in the mail via messenger.

Have a great week!

Aloha, Lori @WWB

<<<File: 3506-03&04.PDF>>>

<<Well3506-03-04-Pump8A&B-ID876.pdf>>
January 20, 2012

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Pump 8 A&B (Well No. 3506-03 & 04) TMK (1) 6-2-006:007

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

CL: ss
Attachment(s)

RESPONSE:
[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval water to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §§11-20-29.
[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 or more service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality (rawwater). However, if future planned use from this source increases to meet the public water system definition than Director of Health approval is required prior to implementation.
[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.
[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.
[ ] For the applicant's information, a source of possible wastewater contamination [ ] is not located near the proposed well site (information attached).
[ ] An NPDES permit is required.
[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.
[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections NO RECORDS

Contact Person: Johnny Ong on Cahu Phone: 586-4294
Signed: Date: 1-21-2012
Per your request.

Michael Miyahira, P.E.
Engineering Section Supervisor
Hawaii Safe Drinking Water Branch
ph: 808-586-4258

3506-03&04.pdf
TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
    Department of Health
    Attention: Acting Chief, Wastewater Branch
    Joanna L. Seto, Chief, Safe Drinking Water Branch
    Alec Wong, Chief, Clean Water Branch
    Dr. Keith Kawaoa, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson

SUBJECT: Well Construction/Pump Installation Permit Application

Pump 8 A&B (Well No. 3506-03 & 04) TMK (16-2-006:007

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

Class: Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 17, Chapter 20, Rules Relating to Potable Water Systems, §§17-20-29.

[1] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical pollutants before initiating such use and routinely monitor the water quality thereafter. However, if future plans exist from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[1] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable pipes with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[1] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[1] For the applicant’s information, a source of possible wastewater contamination [ ] in [ ] is not located near the proposed well site (information attached).

[1] An NPDES permit is required.

[1] Other relevant DOH rules/regulations, information, or recommendations are attached.

[1] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[1] No comments/objections

Contact Person: Michael Miyashita
    Phone: 587-9288

Signed: [Signature]
    Date: 1/24/12
January 20, 2012

TO: Russell Tsuji, Administrator
    Land Division

FROM: William M. Tam, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Pump 8 A&B (Well No. 3506-03 & 04) TMK (1) 6-2-006:007

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

RESPONSE:

[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

[XX] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________________

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[XX] Other comments: Original source of private title is Land Commission Award 7713:33 issued between 1845 and 1855.

Contact Person: Gary Martin Phone: 587-0421

Signed: ________________________________ Date: 1/15/12
Please respond to this email request for comments to charley.f.ice@hawaii.gov

3506-03&04.PDF
Fine to just WUR send to me. FYI - we are in the beta testing stage of our online reporting tool that should be coming out near the beginning of 2012. Would you folks be willing to be one of the test cases we're considering doing before a general roll-out to the public?

Can meet anytime about Pump 8. In fact, the more we know about your timelines and plans the better. As you know, revocations in order for the Waialua ground water management area to bring allocations in line with the reduced sustainable yield are coming. Charley probably informed you already, but as a reminder, we will be having a briefing before the Commission on November 16 about what we know so far and the game plan for the area.

From: Imiola Lindsey <imlindse@ksbe.edu>
To: <Roy.Hardy@hawaii.gov>
Cc: Thomas Kaeo Duarte <kaduarte@ksbe.edu>
Date: 11/07/2011 08:10 AM
Subject: Haleiwa MGWUR

Aloha Roy,

Please find the attached water usage data for Pumps 3 & 8. Is it ok that we are sending this to you, or would you rather have it sent to Charley or Ryan?

I've been meaning to talk to you about some proposed improvements at Pump 8. We are proposing to modify these wells similar to the four Pump 3 wells (add a short length of grouted casing to bring the well head to ground level, a submersible pump and sounding tube). The result would be increased well head protection and an improved ability to monitor water level and water quality. In either case we wanted to run this by you when you had time.

Mahalo, Imi

‘Imi ola Lindsey, PE
Kamehameha Schools LAD

This message is the property of Kamehameha Schools and any attachments are confidential to the intended recipient at the e-mail address to which it has been addressed. If you are not the intended recipient, you may not copy, forward, disclose or use any part of this message or its attachments. If you received this transmission in error please notify the sender immediately by e-mail or contact Kamehameha Schools at 808 523 6200 and then delete this message from your system. [attachment "10_11.pdf" deleted by Roy Hardy/DLNR/StateHiUS]
Hey Roy, thanks for that, you're right, Charley did inform us of the below and I was under the presumption the number was going down again.

From: Roy.Hardy@hawaii.gov [mailto:Roy.Hardy@hawaii.gov]
Sent: Monday, November 07, 2011 9:33 AM
To: Imiola Lindsey
Cc: Charley.F.Ice@hawaii.gov; Thomas Kaeo Duarte
Subject: RE: Haleiwa MGWUR

Just to be clear, the reductions to SY in Waialua from 40 to 25 mgd are from the 2008 water resource protection plan update. There aren’t any further reductions to SY. What has changed is that BWS is looking for more allocation, but we haven't brought the old Waialua sugar allocations based on the 40 mgd in line with the new 2008 SY.

From: Imiola Lindsey <imlindse@ksbe.edu>
To: <Roy.Hardy@hawaii.gov>
Cc: Thomas Kaeo Duarte <kaduarte@ksbe.edu>, <Charley.F.Ice@hawaii.gov>
Date: 11/07/2011 09:18 AM
Subject: RE: Haleiwa MGWUR

Thanks Roy,

Sure, we’d be willing to be a test case for the reporting tool.

This is the first im aware of further reductions in SY for Haleiwa. We’ll get some dates together in order to meet and update you folks on where we are. Our proposed timeline was to begin the Pump 8 work in February 2012, to be completed by June.

From: Roy.Hardy@hawaii.gov [mailto:Roy.Hardy@hawaii.gov]
Sent: Monday, November 07, 2011 8:32 AM
To: Imiola Lindsey
Cc: Thomas Kaeo Duarte; Charley.F.Ice@hawaii.gov
Subject: Re: Haleiwa MGWUR

Hey Imi,
Mr. Imiola Lindsey  
Kamehameha Schools  
567 South King Street  
Honolulu, HI 96813

Dear Mr. Lindsey:

Well Construction/Pump Installation Permit Application for  
Well No. 3506-03 & 04, Haleiwa (Waialua), Island of Oahu

We have received your Well Construction/Pump Installation permit application and filing fee for the Pump 8 A&B (Well No. 3506-03&4). However, pursuant to the State Water Code, HRS §174C-84(a), the Commission on Water Resource Management can only issue well construction and pump installation permits to contractors who hold valid a C-57, C-57a, or A (for pump installation only) license issued by the State of Hawaii, Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division. Because you have not identified a qualifying contractor, your application will not be accepted as complete until a qualifying contractor signs and completes sections 24 & 25 on the application form.

However, we can process your incomplete application for review. If the review warrants the issuance of a permit, we will send such notice to you and give you the option to receive a letter of assurance in lieu of the permit. A letter of assurance, if issued, will state that we will issue the permits after your contractor signs the original application, subject to the following conditions: (a) the contractor has no outstanding issues with the Commission; (b) there have been no significant changes to the application, proposed well site or well construction plan; (c) there have been no significant changes to applicable laws, rules, regulations; and (d) there have been no significant changes to hydrologic conditions at the proposed well site.

The attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that no water may be pumped other than for testing until a certificate of well construction/pump installation completion letter is issued to the well operator and landowner.
The permitted pump capacity described on the pump installation permit may be reduced if the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission determines that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. Thus, you may need to remove the pump and install a smaller pump if the Commission decides a smaller pump is required to protect water resources before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM M. TAM
Deputy Director

CC:ss
Attachment
January 20, 2012

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Pump 8 A&B (Well No. 3506-03 & 04) TMK (1) 6-2-006:007

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: __________________________________________ Phone: _________________________

Signed: ____________________________ Date: _________________________
TO: Russell Tsuji, Administrator  
Land Division  

FROM: William M. Tam, Deputy Director  
Commission on Water Resource Management  

SUBJECT: Well Construction/Pump Installation Permit Application  
Pump 8 A&B (Well No. 3506-03 & 04) TMK (1) 6-2-006:007  

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.  

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by February 21, 2012. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.  

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.  

RESPONSE:  
[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.  

[ ] A water lease/permit is not required of this applicant.  

[ ] A water lease/permit has been obtained by the applicant through lease no.  

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.  

[ ] No objections  

[ ] Other comments:  

Contact Person: _________________________ Phone: _________________________ 

Signed: _________________________ Date: _________________________
TO: Dr. Puaalaokalani Aiu, Administrator
    Historic Preservation
FROM: William M. Tam, Deputy Director
    Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Application

January 20, 2012

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. **Please respond by returning this cover memo form by February 21, 2012.** If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application or request additional review time, please contact Charley Ice of the Commission staff at 587-0218. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

**RESPONSE:**

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.

[ ] We concur that the work described under this permit will not disturb historic sites.

[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for our concurrence:

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
January 20, 2012

Mr. Dean A. Nakano, Acting Manager
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, HI 96843

Dear Mr. Nakano:

Well Construction/Pump Installation Permit Review
Well Construction/Pump Installation Permit Application
Pump 8 A&B (Well No. 3506-03 & 04)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application. If you have any comments on this application, please submit them by February 21, 2012. If we do not receive comments we will assume you have no comments.

If you have any questions about this permit application, please contact Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM J. AILA, JR.
Chairperson

Cl:ss
Attachment
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: CHARLEY
DATE: 11-Jan-12
SUSPENSE DATE: 18-Jan-12

TO: INIT. TO: INIT. FOR: PLEASE:
----- ----- ----- 1 Approval
FUJII, I. 3 KUNIMURA, I. 3 Signature
TAM, W. 3 NAKAMA, L. 3 Information
UYENO, D. 3 YODA, K.

WELL NUMBER 3506-03&04 WELL NAME Pump 8A & B WUP Number current = 895

☐ WELL CONSTRUCTION ☒ PUMP INSTALLATION ☐ WUPA ☐ WUP Transfer ☐ DEC-ADM97-A1 Modification

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated

1. TRANS. LETTER
2. PERMIT PROCESS TABLE
3. CWRM MAPS
4. APPL. FORM (11 COPIES)
5. USGS MAPS (11 COPIES)
6. TAX MAPS (11 COPIES)
7. PARCEL OWNER VERIF.
8. CONTRACTOR VERIF.
9. ALL INFO FILLED IN
10. BACKGROUND CHECK
11. $25 FEE DEPOSIT SLIP
12. DHP/CDUP/SMA pre-screen

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm., or INGRID'S SMA/CD MAP)
(LUC map printout http://luc.state.hLus/luc_maps.htm., or INGRID'S SMA/CD MAP)

13. EA 343 5(a) triggers?

☐ NO

YES - trigger identified is:

(If triggered, exemption analysis memo and/or OEQC Environmental Notice Documents must be attached before accepting)

FOLDER:

☐ MADE NEW FILE FOLDER, ATTACHED
☑ FILE FOLDER ALREADY MADE, IN FILE CABINET

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- check recollection table - think you're still missing 3506-04
- missing 3506-04 application - see Susan's note not missing! Circulation copies, too only one set of attachment for each copy; well into distinct
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Payor: Kamehameha Schools  
P.O. Box 3466  
Honolulu, HI 96801  

Payee: STATE OF HAWAII  

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**TOTAL** $50.00

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Payor: Kamehameha Schools  
P.O. Box 3466  
Honolulu, HI 96801  

Payee: STATE OF HAWAII  

Date: 12/27/2011  
Check No.: 0012834  
Check Amount: 25.00  

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REMARKS:
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- LINE (2) Pump 8B
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WELL LOCATION INFORMATION

1. STATE WELL NO. (If already assigned): 2. WELL NAME: Pump 8-A
3. ISLAND: O'ahu 4. TMK: 6 2 006 007

The following must be attached before this application is accepted as complete:
- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
- Property tax map, showing well location referenced to established property boundaries
- Photograph of the proposed well site
- A schematic diagram showing the well site, access road and proposed well infrastructure
- For dewater wells, attach a grading plan with cross section profiles showing existing and final grades

5. WELL OPERATOR'S NAME/COMPANY: Kamuela Schools
Well Operator's Contact: Imiola Lindsey
6. LANDOWNER'S NAME/COMPANY: Kamuela Schools
Landowner's Contact: Imiola Lindsey
Well Operator's Mailing Address: 567 S. King Street, Honolulu HI 96813
Well Operator's Phone: 808-322-5322
Well Operator's Fax: 808-322-9446
Well Operator's E-mail: imlindsey@ksbe.edu
Landowner's Phone: 808-322-5322
Landowner's Fax: 808-322-9446
Landowner's E-mail: imlindsey@ksbe.edu

PROPOSED WELL CONSTRUCTION

7. Proposed Work
   - Construct New Well
   - Modify Existing Well
   - Abandon/Seal Well

8. Construction Type
   - Dug
   - Drilled

   - Flowmeter

PROPOSED PUMP INSTALLATION

10. Proposed Work
    - Install New Pump
    - Replace Pump

11. Proposed Pump Capacity, gpm (gallons per minute): 2,083 gpm

12. Proposed Amount of Withdrawal, gpd (gallons per day): 1,660 gpd

13. Method of flow measurement
    - Flowmeter

14. Proposed surveyor's name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

PROPOSED USE

- 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
- 16. Domestic
- 17. Industrial (describe)
- 18. Irrigation (describe crop and no. of acres): Approx. 400 acres of diversified ag & seed crops
- 19. Military (describe)
- 20. Other (describe)

OTHER LEGAL REQUIREMENTS

- 21. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources:
  - I have consulted with the SHPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the SHPD
  - I have not consulted with the SHPD regarding potential impacts of well construction activities on historic sites. Proposal is to improve an existing well

- 22. Special Permit Area Permit (SPA)
  - I have not checked with the county about whether or not an SPA is required.

- 23. Special Management Area Permit (SMAP)
  - I have not checked with the county about whether or not a SMAP is required.

- 24. Chapter 343
  - An Environmental Assessment was completed, and
  - An Environmental Impact Statement was required and has been accepted (attach letter of acceptance). Publication date in The Environmental Notice: ___________

- 25. Water Use Permit No: ___________

- 26. WELL DRILLER (Must be filed out if application is for Well Construction)
- 27. PUMP INSTALLER (Must be filed out if application is for Pump Installation)

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

2011 DEC 29 AM 11:24
**PROPOSED WELL SECTION**

See attached schematic

Elevation at top of casing: ___ ft., msl

Cement Grout: ___ ft. (min. 70% of distance from ground elevation to top of water surface or 50 ft., whichever is less.)

Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):

Rock or Gravel Packing: ___ ft.

Material: _____

- Crushed Basalt
- Rounded Gravel

Estimated Water Level Elevation: ___ ft., msl

Solid casing: (30% x [Ground Elev. - Water Level Elevat.])

Total Length: ______ ft.
Nominal Diameter: ______ in.
Wall Thickness: ______ in.
Bottom Elevation: ______ ft., msl

Open casing: ___ Perforated ___ Screen

Total Length: ______ ft.
Nominal Diameter: ______ in.
Wall Thickness: ______ in.
Bottom Elevation: ______ ft., msl

Open Hole:

- Length: ______ ft.
- Diameter: ______ in.
- Bottom Elevation: ______ ft., msl

Grouting method:  ___ Positive displacement  ___ Other

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment report and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - 1/4 x Water Level Elevat.)

Example: Estimated + 2 ft. Water Level Elevat. → Bottom Elevation of Well Limit = (2 - 41 ft.) - 18.5 ft.

**Solid Casing Material:**

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**Open Casing Material:**

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<td>ASTM A53, ASTM A139</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>ASTM A409, ASTM A312</td>
</tr>
<tr>
<td>ABS Plastic</td>
<td>ASTM F480, ASTM D1527</td>
</tr>
<tr>
<td>PVC Plastic</td>
<td>ASTM F480, ASTM D2241</td>
</tr>
<tr>
<td>Thermostatic Plastic</td>
<td>ASTM D2996, ASTM D3517</td>
</tr>
<tr>
<td>Fiberglass Reinforced</td>
<td>AWWA C950</td>
</tr>
<tr>
<td>Fiber Reinforced Resin</td>
<td>AWWA C950</td>
</tr>
<tr>
<td>PTFE Fluorocarbon Tubing</td>
<td>ASTM D3296</td>
</tr>
<tr>
<td>FEP Fluorocarbon Tubing</td>
<td>ASTM D3296</td>
</tr>
</tbody>
</table>

WPCI Application Form 08/31/2010
WELL SECTION - PUMP 8-A

SCALE 1" = 2'

NOTES
(1) 2' X 2' SQUARE, 4" THICK CONCRETE PAD WITH BENCHMARK ELEVATION
(2) CONDUCTOR PIPE, 16" DIAM, TO PROVIDE 3" ANNULUS TO WELL CASING
(3) SOLID CASING, CARBON STEEL, SCHED 40 ASTM A53 GRADE B
(4) GROUT 3" ANNULUS, FULL LENGTH OF SOLID CASING
(5) GROUT SEAL
(6) EXISTING WELL CASING, APPROX 13" DIAM
(7) EXISTING HEADER PIPING, ISOLATED FROM WELL CASING BY GROUT & PACKER

ALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND FOR DISCUSSION PURPOSES ONLY, CONTRACTOR TO VERIFY ALL INFORMATION IN THE FIELD PRIOR TO SUBMITTING THEIR BID
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 821, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/cwr.

WELL LOCATION INFORMATION
1. STATE WELL NO. (If already assigned) 2. WELL NAME 3-3506-004 Pump S B 3. ISLAND O'ahu 4. TMK 6. 2. 006. 007

The following must be attached before this application is accepted:• Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map• Property tax map, showing well location referenced to established property boundaries• Photograph of the proposed well site• A schematic diagram showing the well site, access road and proposed well infrastructure

5. WELL OPERATOR'S NAME/COMPANY Kamakula Schools 6. LANDOWNER'S NAME/COMPANY Kamakula Schools

Well Operator's Contact Imiola Lindsey Landowner's Contact Imiola Lindsey

Well Operator's Mailing Address 567 S. King Street, Honolulu, HI 96813 Landowner's Mailing Address 567 S. King Street, Honolulu, HI 96813

Well Operator's Phone 808-322-5322 Well Operator's Fax 808-322-9446 Well Operator's E-mail imlindse@ksbe.edu Landowner's Phone 808-322-5322 Landowner's Fax 808-322-9446 Landowner's E-mail imlindse@ksbe.edu

PROPOSED WELL CONSTRUCTION
7. Proposed Work
☐ Construct New Well
☐ Modify Existing Well
☐ Abandon/Seal Well
☐ Reinforce or Relining
☐ Other (describe)

8. Construction Type
☐ Drilled
☐ Shaft
☐ Tunnel
☐ Other (describe)

9. Is this well part of a battery of wells? ☐ Yes ☐ No

10. Proposed Well Pump Capacity, gpm (gallons per minute)

11. Proposed Pump Capacity, gpd (gallons per day)

12. Proposed Amount of Withdrawal, gpd (gallons per day)

13. Method of flow measurement
☐ Flowmeter
☐ Other (explain)

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

To be determined

PROPOSED PUMP INSTALLATION

15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
☐ Yes ☐ No

16. Domestic Number of units to be served:

17. Industrial (describe)

18. Irrigation (describe crop and no. of acres) Approx. 400 acres of diversified ag & seed crops

19. Military (describe)

20. Other (describe)

OTHER LEGAL REQUIREMENTS
21. Conservation District Use Permit (CDUP)

☐ Required, CDUP # date approved
☐ Not Required

☐ Required, SMA # date approved
☐ Not Required (attach documentation from OCLU)

☐ I have not checked with OCLU about whether or not a CDU is required.

22. Special Management Area Permit (SMAP)

☐ Required, SMA # date approved
☐ Not Required (attach documentation from applicable County agency)

☐ I have not checked with the county about whether or not an SMA Permit is required.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources

☐ I have consulted with the SHPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the SHPD.

☐ I have not consulted with the SHPD regarding potential impacts of well construction activities on historic sites. Proposal is to improve an existing well

24. Chapter 343

☐ An Environmental Assessment was completed, and

☐ An Environmental Impact Statement was required and has been accepted (attach letter of acceptance) Publication date in The Environmental Notice:

☐ A Finding of No Significant impact has been determined (attach letter) Publication date in The Environmental Notice:

☐ This project proposes:

☐ Use of state or county lands, use of state or county funds
☐ Use within a state conservation district
☐ Use within a shoreline setback area
☐ Use within a national or Hawaii registered historic site
☐ Use within the Wai'anae Special District
☐ The construction, expansion or modification of a heliport facility

☐ A wastewater treatment unit
☐ Waste-to-energy facility
☐ Landfill
☐ Oil refinery
☐ Power-generating facility

☐ None of the above 11 items

25. Water Use Permit No. (If applicable): 895

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

This proposal well improvement is in support of ag irrigation, and will offer greater well yield protection and an enhanced ability to monitor water level and chlorides per CWRM requirements.

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion report within 88 days after the completion date; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

26. WELL DRILLER (Must be filled out if application is for Well Construction)

Licensee business name C-57/57a License No. 27. PUMP INSTALLER (Must be filled out if application is for Pump Installation)

Licensee business name C-57/C-57a License No.

Signature Print Date Signature Print Date

Address Phone Fax E-mail Address Phone Fax E-mail

WCP: Application Form 08/31/2010
**PROPOSED WELL SECTION**

*See attached schematic*

**Hole Diameter:** _______ in.

**Elevation at top of casing:** ft., msl

**Minimum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**

**Ground Elevation:** ft., msl

**Cement Grout:** _______ ft.

(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):**

**Rock or Gravel Packing:** __________ ft.

**Material:**

- [ ] Crushed Basalt
- [ ] Rounded Gravel

**Estimated Water Level Elevation:** ft., msl

**Solid Casing:** (≥ 90% x (Ground Elev.-Water Level Elev.))

- Total Length: _______ ft.
- Nominal Diameter: _______ in.
- Wall Thickness: _______ in.
- Bottom Elevation: _______ ft., msl

**Open Casing:**

- [ ] Perforated
- [ ] Screen

- Total Length: _______ ft.
- Nominal Diameter: _______ in.
- Wall Thickness: _______ in.
- Bottom Elevation: _______ ft., msl

**Open Hole:**

- Length: _______ ft.
- Diameter: _______ in.
- Bottom Elevation: _______ ft., msl

---

**Grouting method:**

- [ ] Positive displacement
- [ ] Other

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):**

**Total Depth:** _______ ft.

**Grouting method:**

- [ ] Positive displacement
- [ ] Other

**Solid Casing:** (≥ 90% x (Ground Elev.-Water Level Elev.))

- Total Length: _______ ft.
- Nominal Diameter: _______ in.
- Wall Thickness: _______ in.
- Bottom Elevation: _______ ft., msl

**Open Casing:**

- [ ] Perforated
- [ ] Screen

- Total Length: _______ ft.
- Nominal Diameter: _______ in.
- Wall Thickness: _______ in.
- Bottom Elevation: _______ ft., msl

**Open Hole:**

- Length: _______ ft.
- Diameter: _______ in.
- Bottom Elevation: _______ ft., msl

---

*The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.*

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = \( \frac{1}{4} \times \text{(water elevation - aquifer thickness)} \)

Example: Estimated + 2 ft. Water Level Elev. ⇒ Bottom Elevation of Well Limit = \( \frac{1}{4} \times (2 - 18.5) = -13.5 \) ft.

**Solid Casing Material:**

- Carbon Steel: compliant with (check one or more):
  - [ ] ANSI/AWWA C200
  - [ ] ASTM A53
  - [ ] ASTM A139

- Stainless Steel: (check one or more):
  - [ ] ASTM A403 (production wells)
  - [ ] ASTM A312 (monitor wells)

- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)
  - [ ] Schedule 40
  - [ ] Schedule 80

- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)
  - [ ] Schedule 40
  - [ ] Schedule 80
  - [ ] Schedule 120

- Thermoset Plastic: (check one)
  - [ ] Filament Wound Resin Pipe conforming to ASTM D2996
  - [ ] Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - [ ] Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - [ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - [ ] PTFE Fluorocarbon Tubing conforming to ASTM D3206
  - [ ] FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**

- Carbon Steel: compliant with (check one or more):
  - [ ] ANSI/AWWA C200
  - [ ] ASTM A53
  - [ ] ASTM A139

- Stainless Steel: (check one):
  - [ ] ASTM A403 (production wells)
  - [ ] ASTM A312 (monitor wells)

- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)
  - [ ] Schedule 40
  - [ ] Schedule 80

- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)
  - [ ] Schedule 40
  - [ ] Schedule 80
  - [ ] Schedule 120

- Thermoset Plastic: (check one)
  - [ ] Filament Wound Resin Pipe conforming to ASTM D2996
  - [ ] Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - [ ] Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - [ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - [ ] PTFE Fluorocarbon Tubing conforming to ASTM D3206
  - [ ] FEP Fluorocarbon Tubing conforming to ASTM D3296

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WCPI Application Form 08/31/2010
WELL SECTION – PUMP 8-B
SCALE 1" = 2'

NOTES
(1) 2' X 2' SQUARE, 4" THICK CONCRETE PAD WITH BENCHMARK ELEVATION
(2) CONDUCTOR PIPE, 16" DIAM, TO PROVIDE 3" ANNULUS TO WELL CASING
(3) SOLID CASING, CARBON STEEL, SCHED 40 ASTM A53 GRADE B
(4) GROUT 3" ANNULUS, FULL LENGTH OF SOLID CASING
(5) GROUT SEAL
(6) EXISTING WELL CASING, APPROX 12" DIAM
(7) EXISTING HEADER PIPING, ISOLATED FROM WELL CASING BY GROUT & PACKER

ALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND FOR DISCUSSION PURPOSES ONLY, CONTRACTOR TO VERIFY ALL INFORMATION IN THE FIELD PRIOR TO SUBMITTING THEIR BID
Picture 1. Pump 8A & 8B Well Sites (looking east)
SITE PLAN - PUMP 8A & 8B IMPROVEMENT
SCALE 1" = 25'

ALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND FOR DISCUSSION PURPOSES ONLY. CONTRACTOR TO VERIFY ALL INFORMATION IN THE FIELD PRIOR TO SUBMITTING THEIR BID.
WATER USE PERMIT NO. 054

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

Water User: Kamehameha Schools
Kamehameha School
567 S. King St., Suite 200
Honolulu, HI 96813

Landowner of Source: Kamehameha Schools
Kamehameha School
567 S. King St., Suite 200
Honolulu, HI 96813

Permitted Withdrawal Rate: 1.660 mgd (Based upon a 12-month moving average)

Water Management Area: Waialua

Island: Oahu

Aquifer Sector/System: North/Waialua

System Sustainable Yield: 40 mgd

Water Type: Fresh

Original CWRM Date: June 2nd, 1993

Standard Conditions: N/A

Special Conditions: N/A

Water Source

State Well Number(s): 3506-03, 3506-04

Well Name: Pump #8

Water Source TMK Number(s): 1st Division, 6-2-006:007

State Land Use Classification(s): Agriculture

County Zoning Classification(s): AG-1

Geographical Coordinates: Latitude 21° 35' 00.4" North
Longitude 158° 06' 06.0" West

End Use

End Use TMK Number(s): 1st Division, 6-6-010:001

State Land Use Classification(s): Agriculture

County Zoning Classification(s): AG-1
Beneficial Use Explanation: Use for irrigation of diversified agriculture (asparagus & seed corn)

Background Information

State Well Nos. 3506-03 and 3506-04 were used by Waialua Sugar until operations were ceased in the mid-1990's. The current landowner, Kamehameha Schools (formerly Bishop Estate), is now the entity that maintains and is responsible for the existing water system. However, no permit transfer has been made to reflect this change. As such, the transfer process should be initiated to list Kamehameha Schools as both the current permittee and landowner for Water Use Permit 054.

Water Use Permit 054 was approved during the June 2nd, 1993 Commission on Water Resource Management meeting. There are no water use or salinity records on file for the Pump 8 battery. During the research phase of this project, the file for State Well Nos. 3506-03 and 3506-04 could not be located. As such, certain permit information, including the standard and special conditions associated with WUP 054, are not available. A complete list of all standard and special conditions is given in the permit file.

Field Investigation Information

Contact: Kaeo Duarte
Site Address: Pump #8
Haleiwa, HI 96712

Brown and Caldwell conducted a field investigation on September 5th, 2008 from 9:00 a.m. until 11:00 a.m. with Ms. Kapu Smith, who is an associate of Mr. Kaeo Duarte. During this time, type of water usage was verified, GPS coordinates of well head(s) were recorded, flow meter installation and functionality were documented, and property TMK information was verified. The wellhead, its related appurtenances, and water usage area were visually inspected to assess compliance with permit conditions. Visual inspection of water loss/waste was limited to outdoor areas within the usage boundary. The physical location of this site is Mauka of Joseph Leong Highway, adjacent to the old cane haul road that runs through Haleiwa town. Reference the TMK and GIS maps in the permit file for a visual representation of the site.

Summary of Findings for Water Use Permit No. 054

State Well Nos. 3506-03 and 3506-04 are located on TMK parcel 6-2-006:007 at 21° 35' 00.4" N, 158° 06' 06.0" W, with a real time accuracy of ±15-feet. Water is drawn from the Pump #8 well battery via a horizontally mounted pump motor and metered at the well site. Underground
piping conveys the water from the Mauka side of Joseph Leong Highway to crops on the Makai side, where it is used for irrigation of diversified agriculture on TMK parcel 6-6-010:001. On this end use parcel, there is a junction box that meters individual water use of the two lessees that currently occupy the property. Reference the Appendix for photographs of the previously described system components.

Since no conditions could be located during the research phase of this project, it is difficult to ascertain the extent of permit compliance. However, the following are a list of standard condition(s) that the permittee could 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.

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.

Before any action is taken, conditions for this permit should be located. It is worth noting, however, that regardless of whether or not the permittee is in compliance with their conditions, non-reporting of water use is a direct violation of the reporting requirements set forth in the State Water Code.

Recommendations

- Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  
o Permittee and landowner names and addresses
  
o Change permittee contact to Kaeo Duarte at (808) 534-3866 (kaduarte@ksbe.edu)
  
o TMK parcel information
  
o Beneficial use description
  
o State land use and county zoning classifications.
• Address potential violation of Standard Condition (10) regarding non-reporting of water use and salinity levels.
• Address potential violation of Standard Condition (12) regarding use of water from the Pump #8 well battery without having transferred this water use permit from Waialua Sugar to Kamehameha Schools.
20-Year Water Use Permit Review
Water Use Permit No. 054

APPENDIX

Field Investigation Photographs
Figure 1 - Pump #8 housing

Figure 2 - State Well No. 3506-03
Figure 3 – State Well No. 3506-04

Figure 4 – Well pump and related appurtenances
Figure 5 – System controls

Figure 6 – System flowmeter
Figure 7 – Junction box with individual meters for each water user

Figure 8 – Typical end use location (asparagus)
Figure 9 - Typical end use location (seed corn)
Water Use Permit Survey
(please complete one survey form for each WUP)

WUP Number: 054
Well Number(s): 3506-03, 3-04

Contact Information (of the person who will be present at site visit):
Name: Kaeo Duarte
Phone (for phone interview): 534-3866
Fax: 808-523-6874
Email: kaeoduarte@hesbe.edu
Best time to reach for phone interview: 10 am

Property Information (of the water use/well location):
Address: ____________________________________________________________
City: ____________________ Zip: __________
Well Location TMK (list all if multiple wells present): 6-2-006:007
Water Use TMK (list all if used on multiple lots): 6-6-010:001

Water Use/Well Information:
Is the water source currently in use? Yes ☐ No ☐
If no, please explain: Diversified ag: asparagus, various vegetables, seed corn

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: We are in a state of transition from Dale and are actively working to repair the system.

Do you submit monthly water use reports to the State? Yes ☐ No ☐
If no, please explain: See above

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
mcsmitb@brwncald.com

For Official Use Only
Received: 6/22/08  Information Updated: 6/22/08  Phone Interview Complete: 6/26/08
Notes/Comments: ____________________________________________________
# Phone Interview

<table>
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<tr>
<th>WUP Number:</th>
<th>054</th>
<th>Well Number(s):</th>
<th>3506-03, 3506-041</th>
</tr>
</thead>
</table>

## Contact Information

- **Contact Name:** [Redacted]  
- **Phone Number:** 534-3806

### Attempt #1
- **Date/Time:** 3/26/06 (9:30)  
- **Result:** Reached

### Attempt #2
- **Date/Time:** N/A  
- **Result:** N/A

## Well Location Information

- **TMK(s):** 6-2-006:007

## Water Use Information

- **TMK(s):** 6-6-010:001

## Current Water Source Information

- **City:**  
- **Zip Code:**  
- **Currently using water source?** Yes [X] No [ ]  
- **Notes/Comments:** Use for diversified ag.

### How often is the water source being used?

- **Daily [X] Weekly [ ] Monthly [ ]

### How long have you been using this water source?

- **Notes/Comments:**

## Rezoning Information

- **Has there been any rezoning of the water source/water use properties?** Yes [ ] No [X]  
- **Have you reported the rezoning to the State?** Yes [ ] No [ ] N/A [X]  
- **If no, explain:**

### Scheduled Field Investigation

- **Scheduled field investigation day/time:** 4/5/06 @ 9:00 am

### Special Notes

- **Notes (Special directions, site conditions, potential hazards, general notes, etc.):**

  - Meet w/Kap Smith @ parking lot next to cone haul area.
  - Kap Smith  
  - Cell: 372-2916

## Comments To Make:

- Although we prefer that you do not change your scheduled field investigation time, if you require a reschedule, you must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.
- A representative from Brown & Caldwell will be making a reminder phone call to you sometime during the week prior to your scheduled field investigation.
- It is very important that you provide access to the site at the day and time agreed upon. Due to a very tight schedule, if you fail to provide access at the agreed upon time and/or do not reschedule with at least a five (5) working day notice, a makeup date will not be allowed.
- If for some reason you don’t know where your well head is located, it would be a good idea to locate it prior to your field investigation to help make the visit go quickly and smoothly.

**Interviewed By:**  
**Date:** 6/26/06  
**Time:** 9:30 a.m.
21° 37' 21.9" N
158° 04' 39.1" W
(+16 ft.)
Field Investigation Checklist

WUP Number: 054         Well Number(s): 3506-03-04

Water Source
Well Location TMK(s): 6-2-006:057
Well Head GPS Coordinates: Latitude: 21°35'00.4"N Longitude: 158°06'06.0"W
Well Type: Drilled, Horizontal Pump Meter
Currently using water source? Yes ☑ No ☐
Notes/Comments:

Is there a flow meter installed? Yes ☑ No ☐
Is the flow meter operational? Yes ☑ No ☐
Notes/Comments: No reports available.

Water Use
Water Use TMK(s): 6-6-010:021
What is the water being used for? Use for diversified agriculture (asparagus)
Is the water being used within the permitted boundaries? Yes ☐ No ☑
If no, explain:

N/A - No permitted TMK's listed in database

Is there any observed wasting of water or water loss? Yes ☐ No ☑
If no, explain:

Are the permit conditions being complied with? Yes ☐ No ☑
If no, explain:

N/A - No conditions green/re file found

Other
Photographs of: Water Source ☑ Water Meter ☑ Usage Area ☑ Pump/Motor ☐

General Notes/Comments:

Water is drawn/metered → sent under highway to fields → through central distribution meters, delivered to end user

Investigated By: M S.          Date: 9/5/08          Time: 9:00 a.m.
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
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 implement 1) 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-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 inform 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.