August 14, 2007

Faxed to: Lenore Nakama at [redacted]

Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96806

RE: Water Shortage Plan

Gentlemen:

Enclosed is a water shortage plan for Well No 2455-92.

Very truly yours,

[Signature]

Stephanie Tom
Ms. Stephanie Tom  
Minami Farm  
P.O. Box 116  
Aiea, HI 96701

June 21, 2007

Dear Ms. Tom:

We are writing to request that you submit a water shortage plan for the Minami Farm Well (Well No. 2455-02), as required under Administrative Rule §13-171-42(c), which states:

"All permittees, unless exempted by the Commission, shall submit a water shortage plan outlining how it will reduce its own water use in case of a shortage. Every water shortage plan shall be subject to approval or modification by the Commission."

Your water shortage plan should identify what you are willing to do should the Commission declare a water shortage situation in the Waimalu Ground-Water Management Area. 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 shall consider and incorporate appropriate provisions set forth within your water shortage plan for implementation. Therefore, your help in submitting a water shortage plan will be beneficial in the Commission's formulation of an overall Water Shortage Plan. At a minimum, we request that you identify the percent reduction (e.g., 5%, 10%, 15%, etc.) in water use that can be sustained indefinitely during a water shortage situation by filling in the table below:

| Minami Farm (2455-02) | Agriculture | 0.158 | 5% |

After you have filled in the last column on the above table, please fax this letter to our office at [redacted], or make a copy of this letter and return it to us at the above address. Please retain the original for your records.

Please respond to this letter within the next fifteen (15) days. If there are any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

KEN C. KAWAHARA, P.E.  
Deputy Director

JLSK:38
Ms. Stephanie Tom
Minami Farm
P.O. Box 116
Aiea, HI 96701

Dear Ms. Tom:

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<table>
<thead>
<tr>
<th>Well Name (Well No.)</th>
<th>Permitted Use</th>
<th>Allocation (mgd)</th>
<th>Percent Reduction in Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minami Farm (2455-02)</td>
<td>Agriculture</td>
<td>0.158</td>
<td></td>
</tr>
</tbody>
</table>

After you have filled in the last column on the above table, please fax this letter to our office at [redacted] or make a copy of this letter and return it to us at the above address. Please retain the original for your records.

Please respond to this letter within the next fifteen (15) days. If there are any questions, please contact Lenore Nakama at [redacted]

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

JLSK:ss
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postage</td>
<td>$2.20</td>
</tr>
<tr>
<td>Certified Fee</td>
<td>$7.75</td>
</tr>
<tr>
<td>Return Receipt Fee (Endorsement Required)</td>
<td></td>
</tr>
<tr>
<td>Restricted Delivery Fee (Endorsement Required)</td>
<td></td>
</tr>
<tr>
<td>Total Postage &amp; Fees</td>
<td>$20.75</td>
</tr>
</tbody>
</table>

Sent To:

Ms. Stephanie Tom
P.O. Box 116

Hilo, HI 96701

Date: July 19, 2003
A mailing notice

1. A postcard is acceptable for your mailpiece.
2. A signature is not required.
3. A record of the receipt is kept by the Postal Service for two years.

For Registered Mail:
- Certified Mail® Service is combined with First-Class Mail or Priority Mail.
- Certified Mail® Service is available for any class of international mail.
- No additional charge is provided with Certified Mail® for insured or Registered Mail.

For an additional fee, a Return Receipt may be requested to provide proof of delivery. To obtain a Return Receipt for first-class service, please complete and attach a Return Receipt Form to your mailpiece and add applicable postage to cover the fee. For complete instructions, see return Receipt Requested. To receive a fee waiver for a domestic mail piece, an USPS postmark on your Certified Mail receipt is required.

For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Address the clerk or mark the mailpiece with the endorsement "Restricted Delivery".

If a postmark on the Certified Mail receipt is desired, please present the article at the post office for the markings. If a postmark on the Certified Mail receipt is not received, address and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

Ref: US605 May 1984 (Ref 35) 102585-99 M-2087
**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
   - Ms. Stephanie Tom
   - Minami Farm
   - P.O. Box 116
   - Aiea, HI 96701

(WUP No. 656)

2. Article Number (Copy from service label)

| Number         | 2000 1670 0011 5389 0707 |

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly)  
   [Handwritten: Gladys S. Minami]

B. Date of Delivery  
   [Handwritten: 01/11/03]

C. Signature  
   [Handwritten: Gladys S. Minami]

D. Is delivery address different from item 1?  
   - Yes  
   - No

   If YES, enter delivery address below:

3. Service Type
   - Certified Mail
   - Express Mail
   - Registered
   - Return Receipt for Merchandise
   - Insured Mail
   - C.O.D.

4. Restricted Delivery? (Extra Fee)  
   - Yes

**PS Form 3811, July 1999**  
**Domestic Return Receipt**  
**102595-00-M-0952**
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. Box 621
Honolulu, Hawaii 96809

Attn: Lenore
June 4, 2003

Ref: 656.wup

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Stephanie Tom
Minami Farm
P.O. Box 116
Aiea, HI 96701

Dear Ms. Tom:

Issuance of Water Use Permit (WUP No. 656) for Well No. 2455-02
Waialu Ground-Water Management Area, Oahu

This letter transmits your water use permit for Minami Farm (Well No. 2455-02) for use of 0.158 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Board of Land and Natural Resources (BLNR) on April 11, 1980. Please note that the current set of standard water use permit conditions, adopted by the Commission on Water Resource Management on April 16, 2003, has been attached to your water use permit. This permit is being issued following an April 23, 2003 site visit to determine the existing pumping capacity, as directed by the BLNR. A copy of the site visit report is attached for your files.

We understand that you are planning to use this well for a nursery operation, which is allowable under the agricultural water use designation. Because the nursery irrigation demands are uncertain, you have requested that the water use permit be issued for the quantity approved by the BLNR. Therefore, we are issuing the water use permit, which should have been issued in 1980, as approved by the BLNR. However, please do not forget to report your monthly water use, as required under Standard Condition 10. Because the water needs of a nursery may be different than the water needs of a piggery, the Commission may revisit the allocation in the future to refine the allocated quantity based on actual need.

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
3. A copy of the site visit report
Ms. Stephanie Tom
Page 2
June 4, 2003

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 Waimalu 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 Lenore Y. Nakama of the Commission staff at [number].

Sincerely,

[Signature]

Peter T. Young
Chairperson

Attachments
GROUND-WATER USE PERMIT  
WUP NO. 656

PERMITTEE

Permittee/Water User
Permittee/Water User
Landowner of Source

Address Minami Farm
P.O. Box 116
Aiea, HI 96701

PERMITTED SOURCE INFORMATION

Island Oahu
Water Management Area
Aquifer Sector Pearl Harbor
Aquifer System Waimalu
System Sustainable Yield 45
Well Name Minami Farm
State Well No. 2455 02 03

PERMITTED USE INFORMATION

Reasonable beneficial use Agricultural
Withdrawal (12 month moving ave.) 0.158 mgd
Location of water use
TMK # 9-8-11:14
Address Minami Farm
State land use classification NA
County zoning classification NA

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 Board of Land and Natural Resources at its April 11, 1980 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 Waimalu 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 Waimalu 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 Waimalu Ground-Water Management Area.

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

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

PETER T. YOUNG, Chairperson  
Commission on Water Resource Management

Attachment
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

June 9, 1983

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

Gentlemen:

RESUBMITTAL
Terms of Water Withdrawal and Use Permits

The Department's Administrative Rules on ground water control require that the Board specify the period or duration of permits and the commencement and completion dates for the construction of ground water sources. After investigation and study of this matter, DOWALD is ready to make specific recommendations for adoption by the Board of Land and Natural Resources.

The Ground Water Use Law specifies that permits may be issued up to a maximum of 50 years and allows for extension of the permit after one-half of the permit period has lapsed. The staff is recommending that the duration of each permit be established at twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The staff feels that 20 years is a reasonable time for regulating ground water withdrawals and uses at this early stage of the program. As the Department gains experience in ground water regulation, the duration of the permits may be reviewed and adjusted as appropriate in the future.

On the commencement and completion dates, the staff recommends that a period of 24 months be established for completing the development of the ground water source. This construction period is a reasonable time for drilling, testing, and for the installation of permanent pumps and controls to fully bring the ground water source into operation. The period may be extended upon a showing of good cause and good faith performance. The permit and construction dates should commence on the date the permit is issued by the Department.

It is recommended that the above terms be standardized for all water withdrawal and use permits issued by the Board, subject to adjustments required by the Board for any permit.

RECOMMENDATION:

That the Board establish the terms of ground water withdrawal and use permits at 20 years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit and that the development of the ground water source be completed within 24 months from the date of permit issuance for all permits issued by the Board, subject to adjustments required by the Board for any permit.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

SUSAN NO, Chairman

ITEM D-1
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii
April 11, 1980
Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii
Gentlemen:

Certification of Water Withdrawals and Uses
Pearl Harbor Ground Water Control Area, Oahu

The Pearl Harbor Ground Water Control Area (GWCA) which includes the Ewa and Wahiawa judicial districts, was designated for State regulation by the Board of Land and Natural Resources (BLNR) in September 1978 under authority of Chapter 177, HRS, and the Department of Land and Natural Resources (DLNR) Regulation 9. The regulatory procedures call for the BLNR to certify existing water withdrawals and uses and to issue permits for new ground water developments in the Pearl Harbor Ground Water Control Area.

The users of water within the Pearl Harbor Ground Water Control Area have submitted records of pumpage to the Department and from these submittals the annual withdrawals and maximum daily pumpage for individual wells and/or well fields are tabulated as shown in the attached "Certification of Water Withdrawals and Uses" which is made a part hereof. As a result, the following is recommended for certification of existing uses:

<table>
<thead>
<tr>
<th>User</th>
<th>Average Annual (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Water Supply</td>
<td>78.850</td>
</tr>
<tr>
<td>U.S. Navy</td>
<td>21.350</td>
</tr>
<tr>
<td>U.S. Army</td>
<td>5.455</td>
</tr>
<tr>
<td>Private</td>
<td>5.830</td>
</tr>
<tr>
<td>Oahu Sugar Company</td>
<td>115.500</td>
</tr>
<tr>
<td>Total</td>
<td>224.413</td>
</tr>
</tbody>
</table>

Oahu Sugar Company submitted figures which exceeded the 115 mgd listed above but because their submission represents unmeasured pumpages, the Department's staff is recommending that 115 mgd be certified. Oahu Sugar, in the meantime, will investigate the matter and if deemed necessary will request that the Board hold a hearing as is allowed under Section 4.4 of Regulation 9 of the Department of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing uses and quantity of withdrawal for each well as indicated in the attached "Certification of Water Withdrawals and Uses" dated April 11, 1980 which reflects the recommended withdrawal quantity as follows: Board of Water Supply at 78.85 mgd; U.S. Navy, 21.35 mgd; U.S. Army, 5.455 mgd; Private, 5.830 mgd; and Oahu Sugar Company, 115.5 mgd; subject to the provisions of applicable laws and regulations.

Respectfully submitted,

ROBERT T. CHUCC
Manager-Chief Engineer

Approved by the Board of
Land & Natural Resources
at the meeting held on
April 11, 1980.

ITEM D-2

A5
NOTION

Based on the submittal of the staff dated April 11, 1980, I move that the Board approve the issuance of conditional certification to the major users of the ground water who have filed the prescribed declarations, in the amounts recommended by the staff in its submittal dated April 11, 1980, subject to the following:

1. Submission by each user of a water use plan, meeting the management objectives and policies of the Board, within 3 months from the issuance of such objectives and policies by the Board in the State's water management plan.

2. Approval of the water use plans by the Board.

3. Review of the conditional certification within the next 3 years.

4. Reduction in the quantity of water conditionally certified in the event that such water is not being beneficially used as defined by law or that the water use plan is not being implemented effectively.

5. Adjustment in quantity, in the case of Oahu Sugar, upon the installation of a new and more accurate metering system, but in no event will said adjustment exceed the amount of the 1979 withdrawal as contained in the declared use attached to the submittal.
**State of Hawaii**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**

**CERTIFICATION OF WATER WITHDRAWALS AND USES**
Pearl Harbor Ground Water Control Area
April 11, 1980

<table>
<thead>
<tr>
<th>USER/SOURCE</th>
<th>STATE WELL NO.</th>
<th>TOTAL WAH.</th>
<th>USE</th>
<th>SOURCE CAPACITY (mgd)</th>
<th>5-YEAR AVERAGE (mgd)</th>
<th>1979 USE</th>
<th>MAXIMUM DAILY (mgd)</th>
<th>TOTAL ANNUAL (mgd)</th>
<th>AVERAGE DAILY (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAHU SUGAR CO.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honoliih</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WP 3</td>
<td>2281-01, 02, 07</td>
<td>3</td>
<td>Agr.</td>
<td>5.686</td>
<td>3.840</td>
<td>2.781</td>
<td>5.686</td>
<td>2.781</td>
<td>0.900</td>
</tr>
<tr>
<td>WP 5</td>
<td>2101-01 to 22</td>
<td>10</td>
<td>Agr.</td>
<td>21.708</td>
<td>15.104</td>
<td>5.763</td>
<td>23.700</td>
<td>23.700</td>
<td>1.183</td>
</tr>
<tr>
<td>WP 7</td>
<td>2221-15 to 26</td>
<td>6</td>
<td>Agr. &amp; Dom.</td>
<td>17.001</td>
<td>13.015</td>
<td>13.015</td>
<td>18.324</td>
<td>6.030</td>
<td>0.690</td>
</tr>
<tr>
<td>WP 15</td>
<td>2295-22</td>
<td>1</td>
<td>Agr.</td>
<td>24.996</td>
<td>18.597</td>
<td>20.332</td>
<td>25.000</td>
<td>9.999</td>
<td>1.016</td>
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<td>Falali</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>EP 10, 11, 12, 13</td>
<td>2000-01 to 11</td>
<td>11</td>
<td>Agr.</td>
<td>19.899</td>
<td>15.792</td>
<td>15.560</td>
<td>20.800</td>
<td>5.333</td>
<td>1.412</td>
</tr>
<tr>
<td>Waiawa</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>WP 17A</td>
<td>1914-01</td>
<td>1</td>
<td>Agr.</td>
<td>2.007</td>
<td>1.722</td>
<td>1.722</td>
<td>2.007</td>
<td>630.625</td>
<td>1.099</td>
</tr>
<tr>
<td>WP 17D</td>
<td>2040-02</td>
<td>1</td>
<td>Agr.</td>
<td>3.438</td>
<td>2.560</td>
<td>2.560</td>
<td>3.170</td>
<td>777.658</td>
<td>2.225</td>
</tr>
<tr>
<td>Waiawa</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WP 1</td>
<td>2291-01 to 10</td>
<td>10</td>
<td>Dom.</td>
<td>1.238</td>
<td>1.268</td>
<td>1.720</td>
<td>1.850</td>
<td>856.943</td>
<td>1.049</td>
</tr>
<tr>
<td>WP 2A, 3B</td>
<td>2291-21 to 23</td>
<td>6</td>
<td>Agr.</td>
<td>9.794</td>
<td>5.194</td>
<td>6.378</td>
<td>12.600</td>
<td>2,232,000</td>
<td>6.358</td>
</tr>
<tr>
<td>WP 2C, 4C</td>
<td>2291-27 to 29</td>
<td>6</td>
<td>Agr.</td>
<td>9.983</td>
<td>5.198</td>
<td>6.378</td>
<td>10.750</td>
<td>1,887,410</td>
<td>6.086</td>
</tr>
<tr>
<td>WP 6A, 6B</td>
<td>2201-11 to 20</td>
<td>10</td>
<td>Agr., Ind.</td>
<td>10.513</td>
<td>6.358</td>
<td>6.378</td>
<td>10.513</td>
<td>2,200,570</td>
<td>6.135</td>
</tr>
<tr>
<td>Waipahu</td>
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**BOARD OF WATER SUPPLY**

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<th>IN-DISTRICT SOURCES</th>
<th>USER</th>
<th>STATE WELL NO.</th>
<th>TOTAL WAH.</th>
<th>USE</th>
<th>SOURCE CAPACITY (mgd)</th>
<th>5-YEAR AVERAGE (mgd)</th>
<th>1979 USE</th>
<th>MAXIMUM DAILY (mgd)</th>
<th>TOTAL ANNUAL (mgd)</th>
<th>AVERAGE DAILY (mgd)</th>
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**In-District**
### Declared Existing Use

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<th>Annual Average (mgd)</th>
<th>1970</th>
<th>Use</th>
<th>Source Capacity (mgd)</th>
<th>Annual Average (mgd)</th>
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<td>Agr.</td>
<td>0.622</td>
<td>0.197</td>
<td>0.226</td>
<td>Agr.</td>
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<td>( 0.223)</td>
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<td>—</td>
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<td>—</td>
<td>Agr.</td>
<td>—</td>
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<td>1</td>
<td>Dom.</td>
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<td>Dom.</td>
<td>—</td>
<td>—</td>
<td>(—)</td>
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<td><strong>TOTAL (Private Users)</strong></td>
<td></td>
<td>22</td>
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<td></td>
<td></td>
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<td>5.450</td>
<td>9.334</td>
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<td><strong>TOTAL WITHDRAWAL, PEARL HARBOR GWCA</strong></td>
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<td>441.834</td>
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<td>81,916.749</td>
<td>(224.413)</td>
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</table>

*Withdrawal to be certified shall be equal to the existing pump capacity.
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**FROM:** Denise  
**DATE:** 4/24/09  
**SUSPENSE DATE:**

**TO:**
1. CHENG, C.
2. CHING, F.
3. CHONG, R.
4. DANBARA, S.
5. ENGLAND, D.
6. FUJII, N.
7. HARDY, R.
8. HOAGBIN, S.
9. ICE, C.
10. IMATA, R.
11. KAWAHARA, K.
12. KIMURA, J.

**INIT. TO:**
1. KUNIMURA, I.
2. MILLS, D.
3. OHYE, L.
4. OHYE, M.
5. OSHIRO, K.
6. SAKODA, E.
7. SWANSON, S.
8. TORRES, R.
9. UYENO, D.
10. YODA, K.
11. YOSHINAGA, M.

**INIT:**
1. Approval
2. Signature
3. Information

**FOR:**
1. Approval
2. Signature
3. Information

**PLEASE:**
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ___ copies

---

*Need to correct WUP info to associate Well No. 2455-03 w/ WUP 656, not Well No. 2455-02. Should we reissue WUP 656 w/ correct well no? See memo & file!*
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field 1</td>
<td>Value 1</td>
</tr>
<tr>
<td>Field 2</td>
<td>Value 2</td>
</tr>
<tr>
<td>Field 3</td>
<td>Value 3</td>
</tr>
</tbody>
</table>

The table represents data from a database or a form. Each column contains specific data categories, and the rows correspond to individual entries or records. The nature of the data suggests it could be related to real estate, property management, or a similar field.

For example, the first row in the table might represent a property with the following details:

- **Field 1**: Location
- **Field 2**: Property Type
- **Field 3**: Size

The values for each field would need to be filled in based on the specific property details.
WATER USE PERMIT NO. 656

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: Minami Farm
P.O. Box 116
Aiea, HI 96701

Landowner of Source: Minami Farm
P.O. Box 116
Aiea, HI 96701

Permitted Withdrawal Rate: 0.158 mgd (Based upon a 12-month moving average)

Water Management Area: Waimalu

Island: Oahu

Aquifer Sector/System: Pearl Harbor/Waimalu

System Sustainable Yield: 45 mgd

Water Type: Fresh

Original CWRM Date: April 11th, 1980

Standard Conditions: 1-19

Special Conditions: 1-2

Water Source

State Well Number(s): 2455-02
Well Name: Minami Farm
Water Source TMK Number(s): 1st Division, 9-8-011:014
State Land Use Classification(s): Agriculture
County Zoning Classification(s): AG-1/P-1
Geographical Coordinates: Latitude 21° 23' 58.2" North
Longitude 157° 55' 44.0" West

End Use

End Use TMK Number(s): 1st Division, 9-8-011:014
State Land Use Classification(s): Agriculture
County Zoning Classification(s): AG-1/P-1
Beneficial Use Explanation: Use for nursery, agricultural irrigation, and domestic purposes.

Background Information

Water Use Permit 656 was approved during the April 11th, 1980 Commission on Water Resource Management meeting. This water source has been in use since 1964 by the Minami family. Standard conditions 1-19 and special conditions 1-2 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the final summary report to the Legislature for this 20-year Water Use Permit Review.

Field Investigation Information

Contact: Stephanie Tom
Site Address: 98-815 Kilinoe St.
Aiea, HI 96701

Brown and Caldwell conducted a field investigation on March 25th, 2008 from 8:00 a.m. until 8:45 a.m. with Ms. Stephanie Tom. 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 at Minami Farm, which is down a gravel driveway at the end of Kilinoe Street. 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. 656

State Well No. 2455-02 is located on TMK parcel 9-8-011:014 at 21° 23' 58.2" N, 157° 55' 44.0" W, with a real time accuracy of ±80 feet. Since the well is located at the bottom of Waimalu Valley where satellite reception necessary for GPS tracking is poor, the accuracy of measurement was negatively affected. Water is drawn from the well via a submersible well pump and metered at the wellhead. A small booster pump fills the system water tank that is equipped with a float switch and control system to automatically activate the well pump when the water level within the tank drops below a specified level. From the tank, the permittee has advised that the water is treated and gravity fed to the residences, nursery, and agricultural locations on TMK parcel 9-8-011:014. In the past, the water was used for a piggery and kalua pig production. However, that
operation has been ceased in recent years. Reference the appendix for photographs of the previously described system components.

Based upon visual inspection of the system, all components appear to be in full working order. The permittee demonstrated functionality of an installed flowmeter and provided access to the site grounds where no wasting of water or water loss was observed. Visual inspection also confirmed that water use was within the permitted TMK boundaries. Water use is currently being reporting on a monthly basis with no recent evidence of overpumpage violations.

However, the following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(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.

Since no salinity reports are being submitted to the Commission, the permittee is found to be in violation of Standard Condition (10).

Recommendations

• Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  o Change permittee contact to Stephanie Tom at [redacted]
  o Beneficial use explanation
  o State land use and county zoning classifications

• Address violation of Standard Condition (10) regarding non-reporting of salinity levels.
20-Year Water Use Permit Review
Water Use Permit No. 656

APPENDIX

Field Investigation Photographs
Figure 1 – State Well No. 2455-02

Figure 2 – System flowmeter
Figure 3 – Water storage tank

Figure 4 – Small booster pump
Figure 5 - Nursery end use

Figure 6 - Irrigation/agriculture end use
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**Permit Information**

<table>
<thead>
<tr>
<th>Water User:</th>
<th>Minami Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P.O. Box 116</td>
</tr>
<tr>
<td></td>
<td>Aiea, HI 96701</td>
</tr>
<tr>
<td>Landowner of Source:</td>
<td>Minami Farm</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 116</td>
</tr>
<tr>
<td></td>
<td>Aiea, HI 96701</td>
</tr>
<tr>
<td>Permitted Withdrawal Rate:</td>
<td>0.158 mgd (Based upon a 12-month moving average)</td>
</tr>
<tr>
<td>Water Management Area:</td>
<td>Waimalulu</td>
</tr>
<tr>
<td>Island:</td>
<td>Oahu</td>
</tr>
<tr>
<td>Aquifer Sector/System:</td>
<td>Pearl Harbor/Waimalulu</td>
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<tr>
<td>System Sustainable Yield:</td>
<td>45 mgd</td>
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<td>Water Type:</td>
<td>Fresh</td>
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<tr>
<td>Original CWRM Date:</td>
<td>April 11th, 1980</td>
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<tr>
<td>Standard Conditions:</td>
<td>1-19</td>
</tr>
<tr>
<td>Special Conditions:</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**Water Source**

| State Well Number(s):       | 2455-02      |
| Well Name:                  | Minami Farm  |
| Water Source TMK Number(s): | 1st Division, 9-8-011:014 |
| State Land Use Classification(s): | Agriculture |
| Country Zoning Classification(s): | AG-1/P-1 |
| Geographical Coordinates:   | Latitude 21° 23' 58.2" North |
|                            | Longitude 157° 55' 44.0" West |

**End Use**

| End Use TMK Number(s):      | 1st Division, 9-8-011:014 |
| State Land Use Classification(s): | Agriculture |
| Country Zoning Classification(s): | AG-1/P-1 |
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Since no salinity reports are being submitted to the Commission, the permittee is found to be in violation of Standard Condition (10).

Recommendations

- Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  - Change permittee contact to Stephanie Tom at [redacted]
  - Beneficial use explanation
  - State land use and county zoning classifications
- Address violation of Standard Condition (10) regarding non-reporting of salinity levels.
20-Year Water Use Permit Review
Water Use Permit No. 656

APPENDIX

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Figure 1 – State Well No. 2455-02

Figure 2 – System flowmeter
Figure 3 – Water storage tank

Figure 4 – Small booster pump
Figure 5 – Nursery end use

Figure 6 – Irrigation/agriculture end use
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 [Contact Information] concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff’s review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kaluakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health's Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.'s application for uses in excess of those uses existing on July 15, 1992 will be considered "new" uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant's staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant's request as opposed to staff's calculations.
   c. The Commission's enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, & -04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfered substantially and materially with existing individual household uses and existing uses.

54. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

55. This permit may be suspended or revoked, in accordance with Chapter 166.

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to in form the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH's requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as “DO NOT DRINK, NON-POTABLE” to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked.

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac+) and the associated TMK's for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to buy and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission’s sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission's sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health's Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at [Contact Information] (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 Wailiele 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.
**Water Use Permit Survey**

(Please complete one survey form for each WUP)

WUP Number: 656
Well Number(s): 1455-02

**Contact Information (of the person who will be present at site visit):**
Name: Watanuki Minami or Stephanie Tom
Phone (for phone interview): [Redacted]
Fax: [Redacted]
Email: [Redacted]
Best time to reach for phone interview: after 8 am, Watanuki Minami

**Property Information (of the water use/well location):**
Address: Waianae Valley
City: [Redacted]
Zip: 96711
Well Location TMK (list all if multiple wells present): 9-8-H: 14
Water Use TMK (list all if used on multiple lots): ______

**Water Use/Well Information:**
Is the water source currently in use? Yes ☑ No ☐
If no, please explain: 

What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences"): agriculture, landscaping, residence, Kalua pig production

Is a flow meter installed and working properly? Yes ☑ No ☐
If no, please explain: 

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

**Field Investigations:**

A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (M-F): call first 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) [Redacted]
Fax: (808) [Redacted]
mcsmith@brwncald.com

For Official Use Only

Received: 11/28/07 Information Updated: 11/28/07 Phone Interview Complete: 3/7/08

Notes/Comments: Obtain exact address for field investigation
**Phone Interview**

<table>
<thead>
<tr>
<th>WUP Number:</th>
<th>656</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number(s):</td>
<td>2455-02</td>
</tr>
<tr>
<td>Contact Name:</td>
<td>Stephanie Tam</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>[Redacted]</td>
</tr>
<tr>
<td>Well Location TMK(s):</td>
<td>0.8-011:014</td>
</tr>
<tr>
<td>Water Use TMK(s):</td>
<td>0.8-011:014</td>
</tr>
<tr>
<td>Water Source Address:</td>
<td>Waimalu Valley</td>
</tr>
<tr>
<td>City:</td>
<td>Aiea</td>
</tr>
<tr>
<td>Zip Code:</td>
<td>96701</td>
</tr>
<tr>
<td>Current using water source?</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>Notes/Comments:</td>
<td>Use for agriculture, landscaping, residence, &amp; kalo production</td>
</tr>
<tr>
<td>How often is the water source being used?</td>
<td>Daily ☒ Weekly ☐ Monthly ☐</td>
</tr>
<tr>
<td>Notes/Comments:</td>
<td></td>
</tr>
<tr>
<td>How long have you been using this water source?</td>
<td>Since 1960's</td>
</tr>
<tr>
<td>Has there been any rezoning of the water source/water use properties?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>Have you reported the rezoning to the State?</td>
<td>Yes ☐ No ☐ N/A ☒</td>
</tr>
<tr>
<td>If no, explain:</td>
<td></td>
</tr>
<tr>
<td>Scheduled field investigation day/time:</td>
<td>3/28/08 @ 9:00</td>
</tr>
<tr>
<td>Notes (Special directions, site conditions, potential hazards, general notes, etc.):</td>
<td>95-615 Kiiho St. Go straight into valley → All the way back.</td>
</tr>
</tbody>
</table>

**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: M.S. Date: 3/7/08 Time: 2:00 p.m.
Field Investigation Checklist

WUP Number: 696 Well Number(s): 2455.02

Water Source
Well Location TMK(s): 9-4-011.014
Well Head GPS Coordinates: Latitude: 21° 23' 56.2" N Longitude: 157° 55' 41.8" W
Well Type: Submersible
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: ________________________________________

Water Use
Water Use TMK(s): 9-4-011.014
What is the water being used for? Domestic purposes ☑ Nursery ☐

Is the water being used within the permitted boundaries? Yes ☑ No ☐
If no, explain___________________________________________

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___________________________________________

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

General Notes/Comments: ______________________________________

• Water pumped into tank, which has a Float switch system installed
• Gravity fed to nursery & live area
• Water metered at the well head

Investigated By: M.S. Date: 3/25/06 Time: 6:00
June 4, 2003

Ms. Stephanie Tom
Minami Farm
P.O. Box 116
Aiea, HI 96701

Dear Ms. Tom:

Issuance of Water Use Permit (WUP No. 656) for Well No. 2455-02
Waimalu Ground-Water Management Area, Oahu

This letter transmits your water use permit for Minami Farm (Well No. 2455-02) for use of 0.158 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Board of Land and Natural Resources (BLNR) on April 11, 1980. Please note that the current set of standard water use permit conditions, adopted by the Commission on Water Resource Management on April 16, 2003, has been attached to your water use permit. This permit is being issued following an April 23, 2003 site visit to determine the existing pumping capacity, as directed by the BLNR. A copy of the site visit report is attached for your files.

We understand that you are planning to use this well for a nursery operation, which is allowable under the agricultural water use designation. Because the nursery irrigation demands are uncertain, you have requested that the water use permit be issued for the quantity approved by the BLNR. Therefore, we are issuing the water use permit, which should have been issued in 1980, as approved by the BLNR. However, please do not forget to report your monthly water use, as required under Standard Condition 10. Because the water needs of a nursery may be different than the water needs of a piggery, the Commission may revisit the allocation in the future to refine the allocated quantity based on actual need.

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
3. A copy of the site visit report
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 Waimalu 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 Lenore Y. Nakama of the Commission staff at [Redacted].

Sincerely,

[Signature]

Peter T. Young
Chairperson

Attachments
GROUND-WATER USE PERMIT

WUP NO. 656

PERMITTEE

Permittee/Water User

Address

Minami Farm

P.O. Box 116

Aiea, HI 96701

Landowner of Source

Address

Same

PERMITTED SOURCE INFORMATION

Island

Oahu

Water Management Area

Pearl Harbor

Aquifer Sector

Waimalu

Aquifer System

System Sustainable Yield

45

Well Name

Minami Farm

State Well No.

2455-02

PERMITTED USE INFORMATION

Reasonable beneficial use

Agricultural

Withdrawal (12 month moving ave.)

0.158 mgd

Location of water use

TMK #

9-8-11:14

Address

Minami Farm

State land use classification

NA

County zoning classification

NA

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 use 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 Board of Land and Natural Resources at its April 11, 1980 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 Waimalu 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 Waimalu 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 Waimalu 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.

[Signature]
PETER T. YOUNG, Chairperson
Commission on Water Resource Management

Attachment
MEMORANDUM

From: Denise Mills
To: File
Subject: Well Nos. 2455-02 and 2455-03 transposed, correction for record

Date: April 21, 2009

After reviewing CWRM's records dating back to 1979 for Well Nos. 2455-02 and 2455-03, and after cross-checking the historical well information with information in the well database and WUP database, I have confirmed that the well numbers were transposed during or after a CWRM field inspection in 2003. Mitchell Ohye noted this and made the appropriate corrections in the well database. However, the well number associated with WUP No. 656 in the WUP database and on the permit, is incorrect.

The historical records, which include photo documentation made by CWRM staff in 1981 and 2003, clearly show that Well No. 2455-02 is a 4-inch-diameter well and this size and the other dimensions for this well are recorded correctly in CWRM's well database. During an inspection in 2003, this well was incorrectly identified as Well No. 2455-03 on staff's field report, and vice versa. Well 2455-03 is a 6 5/8-inch well and equipped with an installed 110-gpm pump capacity. Well No. 2455-03 was the only well in use during CWRM's inspection in 2003, providing water for 1 residence and for a plant nursery (agricultural use).

Well No. 2455-02 is unused, although WUP No. 656 (reissued in 2007) is associated only with this well. The record for WUP No. 656 should be corrected to permit the use of Well No. 2455-03 instead. The well owner and operator, Stephanie Tom, verified in a phone conversation on April 20, 2009, that only one well is used for agricultural purposes and the other is capped.

A new well was constructed in 2008 to serve the residence (Well No. 2355-16), and Well No. 2455-03 has been used for only agricultural purposes since the new domestic well was installed.
View of Well No. 2455-02 03

Water Meter (Reading in hundreds of gallons)
View of unused Well No. 2455-95 07

4" DIA.
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**CONSIGNEE'S COPY**

**DRIVER:**

**TIME IN:** 1:10

**TIME OUT:**

**RECEIVED BY:**

**TIME:**

**DATE:**

**GOVERNING TARIFFS REQUIRE PAYMENT OF FREIGHT BILLS WITHIN 7 DAYS.**

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**Description:** CR PUMP ASSEMBLY

**Date:** 14 Jul 98

**Job Name:** M/S MINAMI FARM

**Job No.:** 9000

**EQUIPT. NO.:** JET 1047-287500

**Approved By:** [Signature]

**Freight Charges to be Paid By:** WATER RESOURCES INT'L, INC.

**Address:** 2828 PAA ST.

**City:** HONOLULU, HI 96819

**Freight Bill Number:** 801808

**Method of Payment:** PREPAID

**Sail Date:** 06/28/98

**Shippers Ref. No.:** 485 OH

**Total Charges:** $132.56

**Customer Original**

**Driver Time In Time Out Date**

**Received By**

**In Good Condition**
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| Terms and Conditions: Some of the terms and conditions contained on both sides of this acknowledgment may differ from those in your order and some may be new. Your order is accepted conditioned upon your assent to the terms and conditions hereof. |

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**Notes:**

- Install 6" well - 3" Discharge
- Order No: 7795
- Specification Staff: Willi 70 DFX
- O.A. CLASS A B C

**Revision:**

- Revision No: 1 2 3 4 5 6 7 8 9 10
- Cost: P.O. No: 7795
- Date Order Received: 3/14/88
- Quote No: 8-8-550
- Customer Reg'd Date: 4-6-88

**Other:**

- FLORAY PUMPS
- WATER RESOURCES, INC.
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**NOTE:** ALL PUMP & MTR ASSEMBLIES OVER 8 STGS TO BE STRAPPED DOWN TO HEAVY DUTY SHIC PRIOR TO MOVING STICKER:"DO NOT REMOVE PUMP ASSEMBLY SUPPORT UNTIL UNIT IS IN VERTICAL POSITION ROD FOR INSTALLATION SHOULD BE ATTACHED."
The head and power may be different than shown in accordance with Hydraulic Institute standards.
Scotty,

The above pictures are example drawings of dial faces that would fit on a 10" HP Turbine Meter. One is gallons, the other cubic feet. Note the "fixed" numerals on the dials.

To the left of the "fixed" numerals, there will be 5 indexing wheels. Each wheel is numbered 0 through 9. The most significant digit is to the far left, the least significant digit is on the far right.

If you have any questions, feel free to call me @ 1-334-283-7472

Sincerely

David Grummon

5/13/03 According to Stephanie's Plumber, the meter measures in hundreds of gallons. W
3" - 20" HP Turbines

The calibration adjusting stem is located inside the register mounting ring for the 3"-20" HP Turbines. Should the turbine element require field calibration, follow these steps:

1. Remove seal pin from register and twist off register. (3"-10) or Remove lead seal and unscrew register adapter screws. (12"-20"

2. Loosen lock nut on adjusting stem by turning counter-clockwise.

3. Insert slotted screwdriver into slot in top of adjusting stem and:
   a) turn clockwise to decrease registration, or
   b) turn counter-clockwise to increase registration.

Turning the adjustment stem 15 in either direction results in approximately 1% change in registration. The full range of the adjustment stem is 180 (see Figure 2.2).

Figure 2.2 1-1/2" and 2" HP Turbines

Figure 2.3 3" - 20" HP Turbines

Neptune HP Turbine Installation and Maintenance Guide
8 Open valves.
All UMEs have been factory calibrated and should not require field calibration.

Refer to meter installation instructions.

The complete UME should be returned for service to Schlumberger Water Division's factory repair facility. If the customer does not have a spare unit, a factory-calibrated exchange unit may be purchased from Schlumberger. Schlumberger encourages all customers to purchase either a spare UME complete or a UME exchange contract to enable them to avoid service interruptions.

Adjusting the HP Turbine Calibration Vane

Schlumberger equips all Neptune HP Turbine meters and UMEs with a calibration vane. Should the turbine element require field calibration, follow these steps.

1-1/2'' and 2'' HP Turbines

1. Cut seal wire and remove tamper resistant cap.
2. Loosen lock nut by turning counter-clockwise.
3. Insert slotted screwdriver into slot in top of adjusting stem and
   a) turn clockwise to decrease registration, or
   b) turn counter-clockwise to increase registration

Turning the adjustment stem 3 in either direction results in approximately 1% change in registration. The full range of the calibration vane is 30 degrees (see Figure 2.2).
Caution should be exercised to avoid air in the line, sudden flow surges, or excessive flow rates, as these conditions may cause damage to the turbine measuring element.

Before Operation

Before putting the HP Turbine meter in service follow these steps:

1. With outlet-side gate valve closed, SLOWLY open inlet-side valve to pressurize meter.

2. SLOWLY open outlet-side gate valve until downstream line is pressurized.

After installation, it is important that you put the the upstream (inlet) valve in the "full open" condition during service. A partially throttled upstream valve without a strainer installed will cause flow profile distortion that will adversely affect meter accuracy. All throttling should be done ONLY on the downstream (outlet) side of the meter.
Chapter 2  Maintenance

When maintenance is necessary, the complete Unitized Measuring Element (UME) may be quickly and easily interchanged with a factory-calibrated unit
(see Figure 2.1).

![Factory Calibrated Unit](image)

Figure 2.1 Factory Calibrated Unit

This unit includes register, cover, and turbine measuring element.

Follow these steps:
1. Close valves.
2. Remove cover bolts.
3. Remove UME from maincase.
4. Remove old maincase gasket and replace a new gasket.
5. Install factory-calibrated unit into maincase.
6. Replace cover bolts.
7. Tighten cover bolts.
Neptune® HP Turbine Installation and Maintenance Guide
Chapter 1  Installing the Neptune HP Turbine

This chapter is designed to take you through the installation process for the Neptune® High Performance (HP) Turbine.

The Neptune HP Turbine offers the widest operating range of any turbine meter on the market. To achieve optimum performance in actual service, it is essential that you follow these installation instructions.

Installation Instructions

All HP Turbine meters operate more accurately and reliably if installed properly. Turbine meter performance is directly related to the flow conditions of the water stream entering the meter. If the flow conditions are distorted because of upstream fittings or piping changes, a turbine meter's performance can be adversely affected.

Schlumberger recommends that you install all HP Turbine meters with a Neptune strainer at the meter inlet. The strainer, in addition to protecting the meter from debris in the line, also corrects the velocity profile of the flow to the meter and reduces the effects of upstream piping variations, or other obstructions in the line.

If you do not use a strainer, a length of straight pipe equal to 5 to 8 diameters of the nominal pipe size should be allowed immediately upstream of the meter inlet. When installing an HP Turbine meter, please use the following instructions.

Recommended Installation

Figure 1.1 shows the recommended installation of an HP Turbine meter. This installation incorporates a Neptune strainer attached to the inlet of the meter and includes a downstream tee to facilitate field testing. This illustration also shows an optional bypass that provides uninterrupted service capability during periods of meter service.

As indicated previously, the Neptune strainer located upstream provides protection against meter damage from debris in the lines and virtually eliminates the effects of variations in upstream piping. Schlumberger specifically recommends use of a Neptune strainer of the same line size as the meter.
This strainer design provides optimum velocity profile correction at minimum additional head loss.

The installation of the test tee can be at any convenient location where the test outlet is two pipe diameters or more downstream of the water meter outlet. We recommend this to provide a means to field test the meter without removing it from the line.

When installing HP Turbine meters, always follow normal good piping practice. Specifically, all gaskets should be centrally located on the flanges with no overlap or interference with the pipe diameter. This is particularly important at the inlet connection to the meter where a gasket protruding into the flow stream will cause unpredictable velocity conditions.

Turbine meters must operate in a completely filled line at all times. The downstream piping must always provide sufficient back pressure to maintain a full line at the meter.
Neptune® HP Turbine Installation and Maintenance Guide
FIELD MEMORANDUM

WELL(S) NO. 2455-02, 03 DATE 02-SEPT 86

LOCATION WAIMALU VALLEY

SUBJECT FIELD CHECK OF WELLS

PRESENT E. SAKODA A. MORISAKO -BWS MR*MRS MINAMI

FIELD NOTES

WELL 2455-03 STILL USED FOR PIG FARM.

WELL 2455-02 NO LONGER IN OPERATION - POSSIBLE COLLAPSED CASING. WATER RESOURCES WORKED ON IT A FEW YEARS AGO BUT NO SUCCESS.
As of June 30, 1965

11s drilled, recased or sealed

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Excluding wells in caprock. Shafts and observation wells are included. Not previously tabulated.

Insert from C&C, BWS, Supplement to the 1965 Annual Report
SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

MINAMI Stream, Spring, Tunnel Well No. 2456-03 (1974)

Enter on this form ample notes in regard to the following:

1. Accuracy of measurement; 2. gage; 3. observer; 4. bench marks; 5. gage height corrections; 6. adjustments to total discharge; 7. station equipment; 8. channel, control, and point of zero flow; 9. rating, backwater; 10. diversions, regulation; 11. records; 12. cooperation.

Submersible (type unknown)

10 h.p.

1 hr. per day use for pump

No meter

Length of airline unknown

Elevating Valve

By-pass Opening

Attent: By 

Referen

Gentlem

With re:

Dep

Dep

Elevat:

No. 1 of 1 sheets

Always disregard

E. G. Craddick
Exec. Vice President

erc/jcp
Well 197-3

Location: On lot B, parcel 14, in Waimalu Gulch, 0.7 mile northeast (mauka) of Oahu Sugar Co.'s pumping station No. 4 (well 197) and 1.5 miles north of Aiea. Tax key: 9-8-11.

Owner: K. Minami.

Altitude: 128 ft.

Drilled: July 9, 1958 by Pacific Drilling Co.

Diameter: 4 in.

Depth: 206 ft.

Casing: 140 ft.

Heads: July 9, 1958, 19.44 ft.

Chloride: July 9, 1958, 35 p.p.m.

Use: Piggery water supply.

Bench mark: Top of concrete pump base, 0.2 ft. above the ground; altitude, 128.43 ft.

Log:

- 0 - 2\(\frac{1}{4}\) ft. Clay and boulders
- 2\(\frac{1}{4}\) - 55 Grey lava rock
- 55 - 70 Brown and red cinder
- 70 - 79 Grey lava rock
- 79 - 85 Cinder
- 85 - 105 Grey lava rock
- 105 - 110 Decomposed cinder
- 110 - 113 Grey lava rock
- 113 - 160 Red and brown cinder
- 160 - 170 Grey lava rock (decomposed)
- 170 - 175 Red, brown and black cinder
- 175 - 187 Blue rock
- 187 - 190 Cinder
- 190 - 206 Blue rock

9-10-58
S.W.
K. Minami, Ltd.  
P.O. Box 116  
Aiea, Hawaii 96701  

Gentlemen:  

Pearl Harbor Ground Water Control Area  

We acknowledge receipt on December 3, 1979, of your Declaration of Existing Water Withdrawal and Use in the Pearl Harbor Ground Water Control Area. Our staff will review the data and may contact you for a field inspection of your well(s) before certification of your declared water use is made by the Board of Land and Natural Resources.  

We appreciate your early filing of the declaration of existing water use.  

Very truly yours,  

SUSUMU ONO  
Chairman of the Board
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State of Hawaii
Department of Land and Natural Resources

DECLARATION OF EXISTING WATER WITHDRAWAL AND USE
Pearl Harbor Ground Water Control Area

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before January 2, 1980, in accordance with Regulation 9 of the Department. Submit the form with any attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

1. WATER USER: Name

2. WATER USER'S CONNECTED BATTERY OF WELLS:
User's Well Name and Location

3. BENEFICIAL USE OF WATER:
(a) Major Use: ☐ Municipal ☐ Agriculture ☐ Military ☐ Industrial ☐ Domestic ☐ Other (specify) (specify)
(b) Minor Uses: (specify)
(c) For Agriculture Use: list crop(s), total acreage irrigated and attach map showing acreage irrigated by the well source.

4. BENEFICIALLY USED WATER WITHDRAWALS:
(a) All figures given in (b) are records of: ☐ Metered flow ☐ Nameplate pump capacity ☐ Orifice ☐ Weir ☐ Other (specify)
(b) Records available (in million gallons per day, three decimal places):

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5. WELL DESCRIPTION:
On the attached computer list of wells, make corrections or additions thereon in red pencil as necessary and return with Declaration form. If information is readily available in another form, you may submit it in lieu of a corrected computer list.

Declaration: Under penalties provided in Regulation 9 of the Department of Land and Natural Resources, the undersigned declare and certify that this declaration has been examined, including accompanying statements and to the best of knowledge and belief, it is true, correct, and complete.

Signature: [Signature]

Date: 11/29/79

For Official Use:
Last day to certify 5/31/80
Date Certified
Amount certified
WELL NO. 2455-03