### CHECKLIST

- Well Construction Permit
- Water Use Permit Required Also

**Well Name & Number** Hawai'i Well No. 2 (7349-01) Island: Hawai'i

**Applicant** Hawai'i DWS  
**Consultant**

**Date application received** ................. 5/5/93

**Date acknowledged receipt/request more info** ................. 6/13

**Date filing fee deposited** ................. Not required

**Application sent to following:**

<table>
<thead>
<tr>
<th>Department</th>
<th>Date sent</th>
<th>Comments received</th>
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</thead>
<tbody>
<tr>
<td>Dept. of Health Safe Drinking Water Branch</td>
<td>6/24</td>
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<tr>
<td>Office of Hawaiian Affairs</td>
<td>6/24</td>
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<tr>
<td>Dept. of Hawaiian Home Lands</td>
<td>6/24</td>
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<tr>
<td>State Historic Preservation Div.</td>
<td>6/23</td>
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<td>Sierra Club Legal Defense Fund</td>
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<td>Maui Dept. of Water Supply</td>
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<td>Additional List (Molokai)</td>
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<tr>
<td>Eric Hirano/ Lyann Mizuno</td>
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**Date agenda due** .................................. 6/30/93

**Date submittal due** ................................ 6/30/92

**Date submittal sent to applicant** .................

**Date application approved OR disapproved** .......... 7/14/93

**Date applicant notified of decision** .................

**Remarks:**

________
**CHECKLIST**

- **WELL CONSTRUCTION PERMIT**  
- **PUMP INSTALLATION PERMIT**

**WELL NAME or LOCATION:** Hawai' Well 2  
**ISLAND:** Hawai'i

**WELL NUMBER:** ____________________________  
**Tax Map Key:** 5-5-16:18

**OWNER/OPERATOR:**  
Firm Name: Hawai'i Dept. of Water Supply  
Contact Person: William Sevace  
Address: 25 Aupuni St., Hilo, 96720  
Phone: 967-1421

**LANDOWNER:**  
Firm Name: Same  
Contact Person:  
Address:  
Phone: 

- **Date application received:** 4-10-92
- **Date acknowledged receipt/request more info:**    
- **Date application accepted:**    
- **Suspense date (90 days):**    
- **Date filing fee deposited:**

- **Application sent to following:**
  - Dept. of Hawai' Home Lands  
  - Dept. of Health  
  - Office of Hawai'i Affairs  
  - State Hist Pres Div  
  - Dept/Ed of Water Supply  
  - Sierra Club L. D. F.  
  - Keaaua NA #28 (Oahu)  
  - Dept. Pub. Wrks (Hawaii)  
  - Additional List (Molokai)  
  - Eric Hirano  

- **Date sent:** 4/23/92
- **Comments received:**    

- **Date agenda due:** 6-3-92
- **Date submittal due:** 6-3-92
- **Date submittal sent to applicant:**

- **Date application approved or disapproved:**    
- **Date applicant notified of decision:**

**REMARKS:** Schedule for June 17 meeting in Kona
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART II
Pump Installation

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwrm/

1. State Well No.: 7349-01   Well Name: HAWI DEEP WELL #2   Island: HAWI
2. Address: 55-3469 KAUAHUHU ROAD, HAWI, HI   Tax Map Key: 5-5-16:18
3. Pump Installation Company: WATER RESOURCES INTERNATIONAL, INC.
4. Date Pump Installed: MAY 25, 2007
5. PERMANENT PUMP INFORMATION
   Pump Type, Make, Serial No.: JIILE-15/NATIONAL/807340
   Rated Capacity: 700 gpm at head of: 875 ft.
   Motor Type, H.P., Voltage, rpm: ALSTRA/200 HP/460/1800
   Pump type (check one):
   ☐ Deep Well Turbine ☐ Rotary
   ☐ Submersible ☐ Rotary-Displacement
   ☐ Centrifugal ☐ Rotary-Gear
   ☐ Propeller ☐ Impulse
6. Method of flow measurement:
   ☐ Flowmeter w/ totalizer   Manufacturer NEPTUNE   Model no. TRIDENT   Size 6"
   ☐ Other, explain and attach schematic
7. Fill in the as-built section on the other side of this sheet.
8. Attach the rating curve for the installed pump.
9. Attach photograph of well clearly showing the benchmark on the concrete pad, the well head, and the method of flow measurement.
10. Well Owner
    Company DEPT. OF WATER SUPPLY   Contact CLYDE YOUNG
    Address 889 LEILANI STREET, HILO, HI 96720
    Phone (808) 961-8790   Fax (808) 961-8668
11. Land Owner
    Company DEPT. OF WATER SUPPLY   Contact CLYDE YOUNG
    Address SAME AS ABOVE
    Phone Fax
12. Remarks

Pump Installation Contractor (print) WATER RESOURCES INTERNATIONAL, INC.
C-57/C-57a/A Lic. No. AC-5058
Signature Howard T. Akagi, Vice President - Pump Op.
Date June 14, 2007
Bench mark elevation surveyed to nearest 0.01 ft. = 792.1 ft. mean sea level

Elevation of top of chase tube = 793 ft. mean sea level

Pump intake depth = 808 ft. (referenced to bench mark)

Chase tube depth = 794 ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = N/A ft. mean sea level
**PUMP DATA**

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*DIMENSIONS IN INCHES*

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**MIN SUBMERGENCE**

*DIMENSIONS IN INCHES*

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<td>Bowler</td>
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*NOTE: DIMENSIONS TO BE USED WITH TPEHR PUMP INSTALLATION AND SYSTEM MUST SATISFY BOTH VALUES PERFORMANCE BASED ON CAST IRON ENAMELED BOWIE AND BRONZE IMPPELLERS*
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<th>FOR:</th>
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<td>NAKAMA, L.</td>
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<td>NAKANO, D.</td>
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<td>OHYE, M.</td>
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<td>KUNIMURA, I.</td>
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took 13 months

L
Ms. Linnel T. Nishioka, Deputy Director  
ATTENTION: MR. RYAN IMATA  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

WELL CONSTRUCTION/PUMP INSTALLATION PERMIT  
APPLICATION FOR MAKAPALA EXPLORATORY WELL  

We appreciate your cooperation and understanding in expediting the application for the subject well. Presently, we are using a USGS observation well with a Department of Health conditional approval until June 30, 2000, to supplement our spring source that presently can barely keep up with current demands.

In answering your point-to-point requirements, the following is our understanding of the five items in your January 5, 2000, memorandum to us:

1. No action is required since the State DLNR has run out of funding and Honokaa Well A (Well No. 6428-01) remains incomplete.
2. Elevation survey of Hawi Well No. 2 (Well No. 7349-01) and its location is attached.
3. Attached is the signed permit for Waiaha Well (Well No. 3857-01).
4. Also attached is the signed permit for Waiaha Well (Well No. 3857-01) abandonment.
5. We have received the pump installation permit for Ookala Well (Well No. 6017-015) and will be sending this permit and a well completion report shortly.

If you have any questions, please call Mr. Kenneth Ikemori at 961-8660.

Sincerely yours,

Milton D. Pavao, P.E.  
Manager

KI:dms
MAP SHOWING
LOCATION OF HAWI WELL NO. 2 AND RESERVOIR SITE
BEING LOT 203, LAND COURT APPLICATION 1120 (MAP 36)
SI T U A T E D AT HAWI, HIKIAUPEA AND PAHOA,
NORTH KOHALA, ISLAND OF HAWAII, HAWAII
TMK: (3) 5-5-16: 018

ENGINEERING DIVISION
DEPARTMENT OF WATER SUPPLY
COUNTY OF HAWAII

SUBMITTED BY: rk
DATE: 03/02/00

APPROVED BY: Manager
DATE: 03/16/00

This work was prepared by me or under my direct supervision.

Licensed Professional Land Surveyor
Certificate Number 7564
MARCH 2, 2000
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages:

To  Bruce Wade

Company  M&E Pacific

From  Ryan Imata

Message:  Info requested attached

Total number of pages (including Transmittal Page)  10

Please call back if not legible:  (808) 587-0255

Sending Facsimile No.:  (808) 587-0219

Receiving Facsimile No.:  524-0246
**WELL COMPLETION REPORT**

3/20/96 WCR Form

<table>
<thead>
<tr>
<th>1. State Well No.: 7349-01</th>
<th>Well Name: Hawai # 2</th>
<th>Island: Hawaii</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Location/Address: North Kohala</td>
<td>Tax Map Key: S-3-B-E-29</td>
<td></td>
</tr>
</tbody>
</table>

**PART I • WELL CONSTRUCTION REPORT**

3. Drilling Company: KKRC Water Source Development (now Wai'eli Drilling)
4. Name of driller who performed work: Tom Helfrich
5. Type of rig/construction: Rotary
6. Date(s) Well Construction and pump tests (if any) completed: 5/3/93
7. GROUND ELEVATION (referred to mean sea level, msl): 791+ ft.
   Well Bench Mark (description/location): top of casing
   Elevation (msl): 792.5 ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)
   Depth (ft.) Rock Description, Water Level, Dates, etc.
   0 to 374 soft
   374 to 670 consolidated/ratty
   670 to 845 ratty
   (If more space is needed, continue on back.)
9. Total depth of well below ground: 845 ft.
10. Hole size: 24" inch dia. from 0 ft. to 845 ft. below ground
    18 in. I.D. x .312 in. wall solid section to 786.5 ft. below ground
    18 in. I.D. x .312 in. wall perforated section to 845 ft. below ground
12. Annulus: Grouted from 0 ft. below ground to 771.7 ft. below ground
    Gravel packed from 771.7 ft. below ground to 845 ft. below ground
13. Initial water level: 784 ft. below ground.
14. Initial chloride: 20 ppm
15. Initial temperature: 65 °F
16. PUMPING TESTS: Reference Point (R.P.) used: top of casing, which elevation is 792.5 ft.
   (1) Step-Drawdown Test Date 4/4/93
      Start water level 784 ft. below R.P.
      End water level 783.8 ft. below R.P.
   (2) Long-term Aquifer Test Date 4/5/93
      Start water level 784 ft. below R.P.
      End water level 783.8 ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached? Yes ___ No ___
18. As-built drawings attached? __ Yes ___ No ___
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor: KKRC WATER SOURCE DEP-57 Lic. No. C 16543
Signature: ___________________________ Date: 3/3/97
Surveyor (print): __________________ Lic. No.: _____________
Signature: ___________________________ Date: _____________
Applicant (print): __________________
Signature: ___________________________ Date: _____________
HAWI WELL NO. 2 EXPLORATORY DRILLING
HAWI RESERVOIR SITE
JOB NO. 91-542

"AS BUILT"

Section thru well
Not to scale

Date 1/7/94 By Glenn Ohashi

WELL NO. 7349-021
MEMORANDUM

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

FROM: Don Hibbard, Administrator
State Historic Preservation Division

SUBJECT: Pump Installation Permit Application—County of Hawaii Department of Water Supply, Hawi Well No. 2 (Well No. 7349-01)
Hawi, North Kohala, Island of Hawaii
TMK: 5-5-16:018

HISTORIC PRESERVATION PROGRAM CONCERNS:

In our May 18, 1992, Memorandum to your office for the well construction permit application for the same well, we observed that the subject parcel had been disturbed in the recent past, probably from sugar cane cultivation and pasture land use, and that no significant historic sites were expected on the property. Hence, the well construction would have had "no effect" on significant historic sites. Likewise, the subject permit application will still have "no effect" on significant historic sites.

KS: amk
August 19, 1993

Mr. Keith W. Ahue
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

HAWI WELL NO. 2
WELL NO. 7349-01

We are returning the signed copy of the Pump Installation Permit on which your commission had granted approval on July 28, 1993.

H. William Sewake
Manager

GK

Enc.

... Water brings progress...
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809
AUG 10 1993

PUMP INSTALLATION PERMIT

for
Hawi Well 2
Well No. 7349-01
Hawi, North Kohala, Hawaii

TO: Hawaii Department of Water Supply
25 Aupuni Street
Hilo, HI 96720

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install a pump in Hawi Well 2 (Well No. 7349-01), for municipal use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for installation of a 700 gpm capacity pump in the well.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from the well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. 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.
PUMP INSTALLATION PERMIT

for

Hawi Well 2
Well No. 7349-01
Hawi, North Kohala, Hawaii

TO: Hawaii Department of Water Supply
25 Aupuni Street
Hilo, HI 96720

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install a pump in Hawi Well 2 (Well No. 7349-01), for municipal use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for installation of a 700 gpm capacity pump in the well.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from the well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. 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.
5. The following shall be submitted to the Commission staff within 30 days after completion of the work:

a. Well Completion Report.

b. As-built sectional drawing of the installed pump.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. The permit application and staff submittal approved by the Commission at its meeting on July 28, 1993 shall be incorporated herein by reference.

8. This permit may be revoked if work is not started within six months of the date of approval 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 approval.

KEITH W. AHUE, Chairperson
Commission on Water Resource Management
JUL 28 1993
Date of Approval

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant’s Signature: ___________________________ Date: ____________

Printed Name: ____________________________________________________________________________

Firm or Title: _____________________________________________________________________________

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

enclosure
c: USGS
   Department of Health
   Safe Drinking Water Branch
   Ground Water Protection Program
   Wastewater Branch
July 21, 1992

Mr. William W. Paty, Chairperson
Board of Land and Natural Resources
Department of Land and Natural Resources
P.O. Box 621
Honolulu, HI  96809

HAWI WELL NO. 2
WELL NO. 7349-01

We are returning the signed copy of the well construction permit for subject well.

H. William Sewake
Manager

GK
Enc.

... Water brings progress...
TO: Hawaii Department of Water Supply  
25 Aupuni Street  
Hilo, HI 96720

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Hawi Well 2 (Well No. 7349-01), for municipal use, is approved subject to the following conditions:

1. The Commission on Water Resource Management staff (Commission staff), P. O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

3. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct a well shall not constitute a determination of correlative water rights.

4. 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.
5. The following shall be submitted to the Commission staff within 30 days after completion of the work:

a. Well Completion Report.

b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.

c. As-built sectional drawing of the well.

d. Plot plan and map showing the exact location of the well.

e. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. This 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 after the date of permit issuance.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

7-1-92
Date of Issuance
WELL CONSTRUCTION PERMIT
Well No. 7349-01

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant’s Signature: H. William Sewake Date: 7/17/25

Printed Name: H. WILLIAM SEWAKE

Firm or Title: MANAGER, DEPT. OF WATER SUPPLY C/1H

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

Enc. (Well Completion Report form)  
c: USGS  
    Department of Health  
    Safe Drinking Water Branch  
    Ground Water Protection Program
The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ahue:

Well and Pump Applications

Thank you for the opportunity to comment on the following applications:

Maui:
   Lahaina Civic Center (5441-02)
   Kapalua #2 (5938-03)
   Wailea #6A (4026-07)

Kaua'i:
   Aliomanu (0919-04)

Hawaii:
   Hawai #2 (7349-01)
   Kaupulehu (4859-01)

The Department of Hawaiian Home Lands has no objections to these projects.

We note the Anderton application (Aliomanu), with interest, as an opportunity to learn more about the groundwater resource of northeastern Kaua'i, between the Anahola and Moloaa tracts of Hawaiian home lands.

Warmest aloha,

[Signature]
Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

**Well Construction and Pump Installation Permit Application**

Please review the following permit application(s) pursuant to your area of concern and submit your comments to us by **JUL 16 1993**.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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<td>Well Construction</td>
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</tr>
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<td>Hawaii</td>
<td>Hauli Well 2 Anderton</td>
<td>7349-01</td>
<td>Pump Installation</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Kaupulehu-Resort</td>
<td>4859-01</td>
<td>Well Construction</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-6225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

JZ:ko  
Enc.
Response:

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

Contact Person: Ed Yoshida Phone: 961-8237
Signed: Ed Yoshida Date: 7/1/93
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands
   Mr. Clayton H.W. Hee, Chairman & Trustee At Large
   Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson

SUBJECT: Well Construction & Pump Installation Permit Application

Please review the following permit application(s), pursuant to your area of concern and submit your comments to us by JUL 16 1993.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Enc.

Response:

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

Contact Person: ___________________________ Phone: ___________

Signed: _________________________________ Date: ___________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813  

Dear Ms. Ziegler:  

Well Construction and Pump Installation Permit Application  

Please review the following permit application(s) pursuant to your area of concern and submit your comments to us by JUL 16 1993.  

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.  

Sincerely,  

RAE M. LOUI  
Deputy Director  

JZ:ko  
Enc.
Response:

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

Contact Person: ___________________________ Phone: ______________

Signed: _________________________________ Date: ______________
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

Well Construction and Pump Installation Permit Application

Please review the following permit application(s) pursuant to your area of concern and submit your comments to us by JUN 16 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

JZ:ko  
Enc.
Response:

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

Contact Person: __________________________ Phone: ________________

Signed: ________________________________ Date: ________________
Mr. Thomas Arizumi, Chief
Environmental Management Division
Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Application

Please review the following permit application(s) pursuant to your area of concern and submit your comments to us by JUL 16 1993.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

Enc.
Mr. H. William Sewake, Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, HI 96720

Dear Mr. Sewake:

We have received your application for a permit to install a pump in Hawai Well 2 (Well No. 7349-01) at North Kohala, Hawaii (TMK 5-5-16:18). We are reviewing the application for completeness.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI, P.E.
Deputy Director

JZ:ko
MEMORANDUM

TO: Dr. Don Hibbard, Director
   Historic Preservation Division

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

SUBJECT: Well Construction & Pump Installation Permit Application

Please review the following permit application(s) pursuant to your area of concern and submit your comments to us by JUL 15 1993.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ko
Enc.

Response:

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

Contact Person: ________________________ Phone: ________________________
Signed: ________________________ Date: ________________________
APPLICATION FOR

WELL CONSTRUCTION PERMIT
XX PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water Resource Management, P.O. Box 272, Honolulu, Hawaii 96815. Application must be accompanied by a non-refundable filing fee of $10 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, call 386-1582, Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME

HAWI WELL NO. 2, NORTH KOHALA

Island: Hawaii  
Tax Map Key: 5-5-16:16
Address: ________________________________________________

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name: Department of Water Supply  
Contact Person: H. William Sewake  
Address: 25 Aupuni Street  
Hilo, HI 96720  
Phone: (808) 969-1421

LANDOWNER

Firm Name: Department of Water Supply  
Contact Person: H. William Sewake  
Address: 25 Aupuni Street  
Hilo, HI 96720  
Phone: (808) 969-1421

3. PROPOSED CONTRACTOR FOR:

☐ Well Drilling  ☐ Pump Installation

Name: To be determined  
Contact Person: H. William Sewake  
Address: 25 Aupuni Street  
Hilo, HI 96720  
Phone: (808) 969-1421

Contractor's License No.: ________________________

4. PROPOSED WORK

☐ Drill New Well  ☐ Deepen  ☐ Redrill
☐ Alter  ☐ Seal  ☐ Abandon
☐ Install New Pump  ☐ Replace Pump  ☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.)  ☐ Military
☐ Domestic (individual, noncommercial water systems)  ☐ Industrial
☐ Irrigation (specify)  ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL

____________________ gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine  ☐ Submersible  ☐ Centrifugal
Motor: ☐ Diesel  ☐ Gas  ☐ Electric
Rated Pump Capacity: 700 gallons per minute (gpm)

Well Owner (print)  Dept. of Water Supply  Landowner (print)  Dept. of Water Supply

Signature: ________________________  Signature: ________________________
Date: April 30, 1993  Date: April 30, 1993

For Official Use Only:

Field Checked By: ________________________  Latitude: ________________________  Hydrologic Unit: ________________________
Date: ________________________  Longitude: ________________________  State Well No.: ________________________
Briefly describe the proposed work:

Install new pump and all supporting facilities.

**PROPOSED SECTION OF WELL**

Elevation at top of casing ft., msl.

<table>
<thead>
<tr>
<th>Ground Elev.</th>
<th>785 ft., msl</th>
</tr>
</thead>
</table>

Cement Grout 661 ft.

<table>
<thead>
<tr>
<th>Hole Dia.</th>
<th>26 in.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Total Depth</th>
<th>870 ft.</th>
</tr>
</thead>
</table>

Rock Packing 75 ft.

<table>
<thead>
<tr>
<th>Solid Casing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Steel, ASTM A-242</td>
</tr>
<tr>
<td>Length: 785 ft.</td>
</tr>
<tr>
<td>Diameter: 18 in.</td>
</tr>
<tr>
<td>Wall thickness: 0.3125 in.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing: Perforated / Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Steel, ASTM A-242</td>
</tr>
<tr>
<td>Length: 60 ft.</td>
</tr>
<tr>
<td>Diameter: 18 in.</td>
</tr>
<tr>
<td>Wall thickness: 0.3125 in.</td>
</tr>
<tr>
<td>Openings: 100 sq. in./L.F.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Open Hole:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 25 feet</td>
</tr>
<tr>
<td>Diameter: 17 in.</td>
</tr>
</tbody>
</table>

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.*
APPLICATION FOR
WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Development, P.O. Box 273, Honolulu, Hawaii 96823. Application must be accompanied by a non-refundable filing fee of $5 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies. If necessary, $145-1515. Hydrology/Gaslogy Section for assistance.)

1. WELL LOCATION/NAME HAWI WELL NO. 2, NORTH KOHALA
   Island: Hawaii  Tax Map Key: 5-5-16:18
   Address: (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER LANDOWNER
   Firm Name: Department of Water Supply  Contact Person: H. William Sewake
   Address: 25 Aupuni Street  Phone: (808) 969-1421
   Hilo, HI 96720

3. PROPOSED CONTRACTOR FOR: ☐ Well Drilling ☐ Pump Installation
   Name: To be determined  Phone: Contactor's License No.
   Address: ________________

4. PROPOSED WORK
   ☐ Drill New Well  ☐ Deepen  ☐ Abandon
   ☐ Alter  ☐ Seal  ☐ Modify Pump
   ☐ Install New Pump  ☐ Replace Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   ☐ Municipal (including hotels, stores, etc.)  ☐ Military
   ☐ Domestic (individual, noncommercial water systems)  ☐ Industrial
   ☐ Irrigation (specify)  ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL ___________ gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: ☐ Vertical Turbine  ☐ Gas  ☐ Centrifugal
   ☐ Submersible  ☐ Electric: ☐ Horsepower
   Motor: ☐ Diesel  ☐ Rated Capacity ___________ 700 gallons per minute (gpm)

Well Owner (print): ___________________________________________ Landowner (print): ___________________________________________
Dept. of Water Supply  Dept. of Water Supply
Signature: ___________________________ Date: April 30, 1993
Signature: ___________________________ Date: April 30, 1993

For Official Use Only:
Field Checked By: ___________________________  Latitude: ___________________________
State: ___________________________  Case: ___________________________
State Well No.  ___________________________  Hydrologic Unit: ___________________________
Briefly describe the proposed work:

Install new pump and all supporting facilities.

**PROPOSED SECTION OF WELL**

- Elevation at top of casing: 661 ft., msl.
- Ground Elev.: 785 ft., msl
- Solid Casing:
  - Material: Steel, ASTM A-242
  - Length: 785 ft.
  - Diameter: 18 in.
  - Wall thickness: 0.3125 in.
- Casing: KW/Perforated / Screen
  - Material: Steel, ASTM A-242
  - Length: 60 ft.
  - Diameter: 18 in.
  - Wall thickness: 0.3125 in.
  - Openings: 100 sq. in./L.F.
- Open Hole:
  - Length: 25 feet
  - Diameter: 17 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.*
April 29, 1993

State of Hawaii
Commission on Water Resource Management
Department of Land and Natural Resources
Division of Water Resource Management
P.O. Box 621
Honolulu, HI 96804

APPLICATION FOR NEW PUMP INSTALLATION
HAWI WELL NO. 2, U.S.G.S 7349-01
TAX MAP KEY 5-5-16:18

We are submitting the subject application for review and approval.

Should you have any questions, please contact our Water Resources and Planning Section.

H. William Sewaka,
Manager

WA

Encs.

...Water brings progress...
APPLICATION FOR
WELL CONSTRUCTION PERMIT
XX PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and sign completed application with attachments to the Division of Water Supply, Development, P.O. Box 1717, Honolulu, Hawaii 96821. Application must be accompanied by a non-refundable filing fee of $50.00. (Filing fees waived for government agencies.) If necessary, refer to the Hydrology/Groundwater Section for assistance.

1. WELL LOCATION/NAME: HAWI WELL NO. 2, NORTH KOHALA
   Island: Hawaii
   Tax Map Key: 5-5-16:18
   Address: ___________________________________________________________
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER
   Firm Name: Department of Water Supply
   Contact Person: H. William Sewake
   Address: 25 Aupuni Street
   Hilo, HI 96720
   Phone: (808) 969-1421
   Landowner
   Firm Name: Department of Water Supply
   Contact Person: H. William Sewake
   Address: 25 Aupuni Street
   Hilo, HI 96720
   Phone: (808) 969-1421

3. PROPOSED CONTRACTOR FOR: □ Well Drilling □ Pump Installation
   Name: To be determined
   Address: ______________________
   Contractor's License No. ______________________

4. PROPOSED WORK
   □ Drill New Well    □ Deepen    □ Seal    □ Redrill
   □ Alter New Pump    □ Replace Pump    □ Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE
   □ Municipal (including hotels, stores, etc.)    □ Military
   □ Domestic (individual, noncommercial water systems)    □ Industrial
   □ Irrigation (specify)    □ Other (specify)________________________

6. PROPOSED AMOUNT OF WITHDRAWAL ______________________ gallons per day

7. PROPOSED PUMP INFORMATION
   Pump Type: □ Vertical Turbine □ Submersible □ Centrifugal
   Motor: □ Diesel □ Gas □ Electric: ______________________ Rated Horsepower
   Rated Pump Capacity: 700 gallons per minute (gpm)

Well Owner (print) Dept. of Water Supply
Signature_________________________ Date April 30, 1993

Landowner (print) Dept. of Water Supply
Signature_________________________ Date April 30, 1993

For Official Use Only:
Field Checked By ___________________ Latitude: ________ Hydrologic Unit: ____________________________
Date: ___________________ Longitude: ________ State Well No.: 8-7349-01
Briefly describe the proposed work:

Install new pump and all supporting facilities.

PROPOSED SECTION OF WELL

Elevation at top of casing

Ground Elev. 785 ft., msl

Cement Grout 661 ft.

Solid Casing:
Material Steel, ASTM A-242
Length 785 ft.
Diameter 18 in.
Wall thickness 0.3125 in.

Hole Dis. 26 in.

Casing: Perforated / Screen
Material Steel, ASTM A-242
Length 60 ft.
Diameter 18 in.
Wall thickness 0.3125 in.
Openings 100 sq. in./L.F.

Total Depth 870 ft.

Rock Packing 75 ft.

Open Hole:
Length 25 feet
Diameter 17 in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
PUMPING TEST RECORD

for

HAWI WELL No 2
(Hawi Island)

DWS Project or Job No. 91-542

(No.)

Description of Well--

HAWI WELL No 2 (ABOVE HAWI TOWN, N. KONA)

1. Elevation: ground surface ft., top of casing 792.5 ft.,
   rotary table ft., referenced to ft. elevation, msl
2. Total depth of well ft.; or ft. depth, perforated to ft. depth
3. Total depth of well ft.; or ft. depth, perforated to ft. depth
4. Static water level on top of casing; or ft. elevation msl measured

Description of Pump and Pump Setting--

5. Pumping test conducted by

   Johnson type pump with stage bowl assembly SN 78-18S
   Gasoline, diesel, electric power with horsepower 3G STAGES
   Shaft speed: rpm at flow
   Depth of pump intake: 812.8 ft. below ft. elev. msl
   Depth of airline bottom: 807.8 ft. below ft. elev. msl
   Center of gage: AIR ft. elev., msl. Flow measured with
   Flow Meter

<table>
<thead>
<tr>
<th>Time &amp; Date</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline Psp (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. (°F)</th>
<th>Cond. (mhos 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 a.m.</td>
<td>Engine started</td>
<td>9.0</td>
<td>STATIC</td>
<td>9.0</td>
<td>&quot;</td>
<td>&quot;</td>
<td>0.0</td>
</tr>
<tr>
<td>10:04</td>
<td></td>
<td>9.0</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>10:09</td>
<td></td>
<td>9.0</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>10:09</td>
<td>Pump on</td>
<td>0</td>
<td>0.5</td>
<td>5.78</td>
<td>2.33</td>
<td>5.0</td>
<td>2.33</td>
</tr>
<tr>
<td>10:10</td>
<td></td>
<td>7.0</td>
<td>7.0</td>
<td>5.78</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>10:11</td>
<td></td>
<td>6.5</td>
<td>6.5</td>
<td>5.78</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>10:11:09</td>
<td>WATER IN</td>
<td>6.5</td>
<td>6.5</td>
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**PUMPING TEST RECORD**

for

<table>
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**Project or Job No.** 411, 1993

- ft., top of casing 792.5 ft., referenced to benchmark.
- ft; or ft. elevation, msl
- ft. depth, perforated to ft. depth
- 199 ft. below ground surface.
- ft. elevation msl measured.

**Description of Pumping Setting:**
5. **Johnson** type pump with stage bowl assembly S.N. TB-1305
6. Gasoline diesel, electric power with horsepower 36 STAGES
7. Shaft speed: rpm at rpm flow
8. Depth of pump intake: 912.8 ft. below ft. or ft. elev. msl
9. Depth of airline bottom: 80.8 ft. below T.O.E.; or -15.29 ft. elev. msl
10. Center of gage: ft. elev., msl. Flow measured with
11. Test conducted by G. Ohashi, H. Pavao, B. Richardson

**STEP UP TEST**

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Sheet No. 3 of 3 Sheets

9.1 0
9.1 0
9.1 0
TO: Hawaii Department of Water Supply  
25 Aupuni Street  
Hilo, HI 96720

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Hawi Well 2 (Well No. 7349-01), for municipal use, is approved subject to the following conditions:

1. The Commission on Water Resource Management staff (Commission staff), P. O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

3. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct a well shall not constitute a determination of correlative water rights.

4. 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.
5. The following shall be submitted to the Commission staff within 30 days after completion of the work:
   
   a. Well Completion Report.
   
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   
   c. As-built sectional drawing of the well.
   
   d. Plot plan and map showing the exact location of the well.
   
   e. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. This 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 after the date of permit issuance.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

Date of Issuance
I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: ____________________________ Date: ______________

Printed Name: ______________________________________

Firm or Title: _______________________________________

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

Enc. (Well Completion Report form)
c: USGS
   Department of Health
       Safe Drinking Water Branch
       Ground Water Protection Program
MEMORANDUM

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

FROM: Don Hibbard, Administrator
    State Historic Preservation Division

SUBJECT: Well Construction Permit Application—County of Hawaii
         Department of Water Supply, Hawaii Well No. 2
         (Well No. 7349-01)
         Hawaii, North Kohala, Island of Hawaii
         TMK:3-5-5-16:018

HISTORIC PRESERVATION PROGRAM CONCERNS:

Our records show that the subject parcel has been disturbed in the recent past,
probably from sugar cane cultivation and pasture land use. No significant
historic sites are expected to be on the property. Hence, the subject action will
have "no effect" on significant historic sites.

KS:amk
June 3, 1992

The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Well Construction and Pump Installation Permits
Stream Alteration Permits

Thank you for the opportunity to comment on the following applications:

Makaha-Cayer Well (2813-03)
Grove Farm-Haiku Mauka 1 (5825-01)
Hokukano Well (3153-01)
Hawi Well 2 (7349-01)

Maintenance Ramps, various Oahu streams
Individual lot access ford (Waimanalo)
16-inch water main stream crossings (Windward O'ahu)

These projects are not expected to affect Hawaiian home lands; we have no comment at this time.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
May 11, 1992

MS RAE M LOUI
DEPUTY DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P O BOX 621
HONOLULU HI 96809

SUBJECT: HAWI WELL 2
Location: North Kohala, Hawaii

We have reviewed the subject permit application. We have no comments or objections to offer except that we would like to know the construction time schedule.

We are planning roadway improvements to the Kaahuhu Road in 1992-1994.

ROBERT K. YANABU, Division Chief
Engineering Division

DHM:byf
May 13, 1992

Ms. Rae Loui, Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
HAWI WELL NO. 2
STATE WELL NO. 7349-01
NORTH KOHALA, HAWAII

Thank you for the opportunity to review and comment on the subject document. We have examined the application and have the following comments to offer:

1. The application indicates that the subject well will be for municipal use. If the well is to serve 25 or more individuals at least 60 days per year or will have a minimum of 15 service connections, the applicant will be required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Potable Water Systems.

2. Section 11-20-29 of Chapter 20 requires that a new source of potable water serving a public water system be approved by the Director of Health prior to its use. Such an approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

3. The proposed well is situated above the Underground Injection Control (UIC) line. Land areas above the UIC line are considered to contain underground sources of drinking water. Thus, it is essential that the well be designed and constructed to prevent the possibility of groundwater contamination. For example, the well should have a concrete well pad and full grouting to prevent seepage or floodwaters from migrating down the well shaft.
4. The operation of the well should not be allowed to adversely affect the water quality of nearby water wells. The map accompanying the application indicates that the proposed well will be located approximately 3,500 feet upgradient of state well nos. 7449-02 and -03.

If you should have any questions, please contact Stuart Yamada of the Safe Drinking Water Branch at 586-4258.

Sincerely,

THOMAS E. ARIZUMI, P.E., Chief
Environmental Management Division

SY:chl
c: Mr. H. William Sewake
Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720
Honorable Hoaliku L. Drake  
Director  
Department of Hawaiian Home Lands  
State of Hawaii  
P.O. Box 1879  
Honolulu, Hawaii 96805

Dear Mrs. Drake:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact Rae M. Loui, Deputy Director at 587-0214.

Very truly yours,

William W. Paty

Enc.
Mr. Clayton H. W. Hee  
Chairman & Trustee At Large  
Office of Hawaiian Affairs  
711 Kapiolani Blvd., Suite 500  
Honolulu, Hawaii 96813-5249  

Attn: Ms. Linda Delaney, Land & Natural Resources Division  

Dear Mr. Hee:  

Well Construction and Pump Installation Permit Application(s)  

Transmitted for your review and comment is a copy of the following permit application(s):  

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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<td>Hawaii</td>
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<td>7349-01</td>
<td>Well Construction</td>
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<td>Kauai</td>
<td>Grove Farm Haiku</td>
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<td>Mauka 1</td>
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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.  

Should you have any questions, please contact Rae M. Loui, Deputy Director at 587-0214.

Very truly yours,

[Signature]

WILLIAM W. PATY  
DEPUTY
Mr. Bruce C. McClure  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Mr. McClure:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

NF:ky  
Enc.
Mr. H. William Sewake, Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Sewake:

We have received your application for a permit to construct a well (Well No. 7349-01) at Hawi, Hawaii, (TMK 5-5-16:18). We are reviewing the application for completeness.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

NF:ky
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Application

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

NF:ky
Enc.
MEMORANDUM

TO: Don Hibbard, Director
   Historic Preservation Program

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

SUBJECT: Well Construction and Pump Installation Permit Application(s)

Transmitted for your review and comment is a copy of the following permit application(s):

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Please review the application(s) pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this memo.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Enc.
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii  96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Application(s)

Transmitted for your information are copies of recent well permit application(s):

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Should you have questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: [Signature]
DATE: 4/13
FILE IN:

TO: INIT:

G. Matsumoto
E. Sakoda
Y. Shiroma
E. Hirano
S. Samuels
G. Bauer
R. Rozeboom
R. Hardy

PLEASE:

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

FOR YOUR:

M. TAGOMORI
L. Nanbu

REMARKS:
Neal please let me know well no. so I can enter in corp. Thanks, Ed

7349-01
State of Hawaii  
Commission on Water Resource Management  
Department of Land and Natural Resources  
Division of Water Resource Management  
P.O. Box 621  
Honolulu, HI  96809

APPLICATION FOR WELL CONSTRUCTION PERMIT  
HAWI WELL NO. 2  
TAX MAP KEY 5-5-16:18

We are submitting the subject application for review and approval.

Should you have any questions, please contact our Water Resources and Planning Section.

M. William Sewake  
Manager  
WA  
Encs.
APPLICATION FOR

XX WELL CONSTRUCTION PERMIT

PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application to the Division of Water and Land Development, P.O. Box 358, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $15.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 148-7542, Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME HAWI WELL NO. 2, NORTH KOHALA

Island HAWAI Tax Map Key 5-5-16:18

Address ____________________________

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name Department of Water Supply

Contact Person H. William Sewake

Address 25 Aupuni Street, Hilo, HI 96720

Phone (808) 969-1421

LANDOWNER

Firm Name Department of Water Supply

Contact Person H. William Sewake

Address 25 Aupuni Street, Hilo, HI 96720

Phone (808) 969-1421

3. PROPOSED CONTRACTOR FOR: ☐ Well Drilling ☐ Pump Installation

Name To be determined

Address ____________________________

Contractor's License No. ____________________________

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Redrill

☐ Alter ☐ Seal ☐ Abandon

☐ Install New Pump ☐ Replace Pump ☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ Military

☐ Domestic (individual, noncommercial water systems) ☐ Industrial

☐ Irrigation (specify) ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL 1,008,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal

Motor: ☐ Diesel ☐ Gas ☐ Electric: ____________________________

Rated Pump Capacity 700 gallons per minute (gpm)

Well Owner (print) Department of Water Supply

Signature ____________________________ Date 4/7/92

Landowner (print) Department of Water Supply

Signature ____________________________ Date 4/8/92

For Official Use Only:

Field Checked By ____________________________ Latitude ____________________________

Date ____________________________ Hydrologic Unit ____________________________

State Well No. 7349-01
Briefly describe the proposed work:

Drill, case and test well as indicated below.

PROPOSED SECTION OF WELL

Elevation at top of casing ft., mal.
Cement Grout 661 ft.
Hole Dia. 26 in.
Total Depth 870 ft.
Rock Packing 75 ft.

Ground Elev. 785 ft., mal

Solid Casing
Material Steel, ASTM A-242
Length 785 ft.
Diameter 18 in.
Wall thickness 0.3125 in.

Casing: / Perforated / Screen
Material Steel, ASTM A-242
Length 60 ft.
Diameter 18 in.
Wall thickness 0.3125 in.
Openings 106 sq. in./L.F.

Open Hole:
Length 251 25/
Diameter 17 in.

*Approximate elevation at time of filing application. Final elevation (mal) by a surveyor licensed by the State must be submitted at start of construction.