CHECKLIST

☑ Well Construction Permit
☑ Pump Installation Permit
☒ Water Use Permit Required Also

Well Name & Number: Waiohuli I (Well No. 4527-08) Island: Maui
Applicant: ______________________ Landowner: ______________________
Consultant: ______________________

Date application received: 2/17/94
☑ Date acknowledged receipt/request more info: __________
☑ Date filing fee deposited: __________

☑ Application sent to following:
  Dept. of Health: Safe Drinking Water Branch
  Office of Hawaiian Affairs: Wastewater Branch
  Dept. of Hawaiian Home Lands: __________
  State Historic Preservation Div.: __________
  Sierra Club Legal Defense Fund: __________
  Honolulu Board of Water Supply: __________
  Maui Dept. of Water Supply: __________
  Kauai Dept. of Water Supply: __________
  Hawaii Dept. of Water Supply: __________
  Hawaii Dept. of Public Works: __________
  Koalanae NB #28 (Kaua'i): __________
  Additional List (Moloka'i): __________
  Eric Hirane/Lyann Mizuno: __________
  DIV. OF AQUATIC RES. __________

Date agenda due: 01 Jan 94
Date submittal due: 01 Feb 94
Date submittal sent to applicant: __________
Date application approved OR disapproved: 15 Jan 94
Date applicant notified of decision: __________

Remarks: After-the-Fact

Juliana: Map assign well no. (Pencil in INDEX/summary)
Mile: Log in logbook (manual) or __________
# Log in computer (WELL PERMITS) or __________
Waiohuli I Well
Well No. 4527-12
March 7, 2002

Mr. Clifford N. Mukai
Spencer Homes, Inc.
P.O. Box 97
Kihei, HI 96753

Dear Mr. Mukai:

Well Abandonment Report
Waiohuli Well 1 (Well No. 4527-12)

We received, on February 27, 2002, your Well Abandonment Report, with attachments, and accept it as complete. This completes the permitting requirements for sealing this well.

If you have any questions, please contact Charley Ice of the Water Commission staff at 587-0251 or toll-free at 984-2400, extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

cc:
Warren S. Unemori Engineering, Inc.
Fewell Geotechnical Engineering, Ltd.
Department of Health, Safe Drinking Water Branch
MEMO and ROUTE SLIP

WCR 1 Check for Well No. 4527-12
(survey to regulation memo)

1. Pump Tests Check
   Glenn Bauer (initial)
   Yes No If no, describe deficiency
   Step-Drawdown Test:
   followed WCPI Stds
   analysis attached
   proposed pump cap o.k.
   Aquifer Pump Test:
   followed WCPI Stds
   T & S analysis attached
   Well Interference:
   estimated Steady State
drawdown at 1-mile radius is ___ ft.
   analysis attached
   Stream Surface Water Impacted:  
   if yes, identify most probable stream

2. Construction Check
   Mitch Ohye (initial)
   Yes No If no, describe deficiency
   data complete
   followed WCPI Stds
   well database updated

3. Charley/Lenore/Ryan (initial) take action based on above analysis
   ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
   1 COVER LETTER
   2 PERMIT (2x)
   3 DOH COMMENTS
   4 LAND DIV. COMMENTS
   5 WCR 2 FORM
   6 WUR FORM
   not necessary – only WCP.

4. Ro.... (initial) check
5. Subia (initial) finalize

6. Charley/Lenore/Ryan File
   (initial) signature

7. Charley/Lenore/Ryan File
LETTER OF TRANSMITTAL

TO:  Commission on Water Resource Management
     Department of Land and Natural Resources
     State of Hawaii
     P.O. Box 621
     Honolulu, Hawaii  96809

DATE:   February 26, 2002
PROJECT: Piilani Village Subdivision - Phase III
JOB NO.: 00052.00
RE:   Well Abandonment Permit for Waiohuli 1 Well (No. 4527-12)

ATTENTION:  Mr. Charley Ice

WE ARE SENDING YOU:  [X] Attached  [ ] Under Separate Cover

[ ] Shop Drawings  [ ] Prints  [ ] Plans  [ ] Samples  [ ] Specifications
[X] Copy of Letter  [ ] Change Order  [ ] Reports  [ ] Electronic Media

1 original  Fully Executed Well Abandonment Report for Waiohuli 1, Well No. 4527-12;
1 copy  Letter Dated February 25, 2002, from Fewell Geotechnical Engineering, Ltd. to
        Spencer Homes, Inc., Confirming Field Observation of Abandonment and Conformance to
        Recommended Procedures;
1 copy  Letter Dated October 30, 2000 from Fewell Geotechnical Engineering, Ltd. to Spencer
        Homes, Inc. Describing Required Well Abandonment Procedures;

THESE ARE TRANSMITTED:  For your use.

REMARKS:

Pursuant to the requirements of the attached approval letter from the Commission on Water Resource Management dated January 30, 2001, please find attached the Well Abandonment Report fully executed by Spencer Homes, Inc. (both the well owner and the licensed contractor).

If there are any further requirements that are still outstanding, or if you have any questions or comments, please do not hesitate to contact us.

COPY TO:  Dick Fewell (w/encl.) - FGE
          Eric Matsuda

By: ________________________________
   Clifford N. Mukai

If enclosures are not as noted, kindly notify us at once.
1. State Well No. 4527-12  
2. Location / Address Filllant Highway near Waipullani  
3. Contractor Spencer Homes, Inc.  
4. Type of Rig / Construction N/A  

Remarks: The abandonment procedures have conformed to the abandonment plan and recommendations contained within the October 30, 2000 letter from Fewell Geotechnical Engineering, Ltd. (referenced within and attached to the original permit application). The work has been monitored and documented by FGE, Ltd. (See attached.)
On October 30, 2000, we submitted a procedure for abandoning State Well No. 4528-12 at the Pilani Village Phase III Subdivision. We understand this procedure was submitted to the State of Hawaii, Department of Land and Natural Resources, Commission on Water Resources Management, and was approved by them. We understand that in order to complete the Well Abandonment Report, we must provide written verification that the procedures outlined in our October 30, 2000 letter were followed.

On February 8, 2002, an engineer from Fewell Geotechnical Engineering observed the removal and backfilling of State Well No. 4528-12. Our observations were documented in the attached Daily Field Report for that day. The well was removed and backfilled in accordance with our October 30, 2000 recommendations.

Should you have any questions, or if we can be of further assistance to you, please do not hesitate to contact us.

Respectfully submitted,

FEWELL GEOTECHNICAL ENGINEERING, LTD.

Robert M. Gibbens, P.E.

Attachment

RMGfse

Copies to: Warren S. Unemori Engineering, Inc. (Attention: Mr. Clifford N. Mukai, P.E.)
DESCRIPTION OF FILL MATERIAL
Onsite Silty Gravel, Rojac Select Borrow

FIELD TESTING

<table>
<thead>
<tr>
<th>TEST NO.</th>
<th>TEST LOCATION</th>
<th>ELEVATION (in feet)</th>
<th>DRY DEN. (pcf)</th>
<th>MOIST. CONT. (%)</th>
<th>% OF MAX. DRY DEN.</th>
<th>COMP. CURVE NO.</th>
<th>MAX. DRY DEN. (pcf)</th>
<th>OPT. MOIST. CONT. (%)</th>
<th>COMMENTS</th>
</tr>
</thead>
</table>

REFERENCE CURVE

<table>
<thead>
<tr>
<th></th>
<th>DRY DEN. (pcf)</th>
<th>MOIST. CONT. (%)</th>
<th>MAX. DRY DEN. (pcf)</th>
<th>OPT. MOIST. CONT. (%)</th>
</tr>
</thead>
</table>

KEY PERSONS CONTACTED
RJ, David

PROJECT ENGINEER
R. Gibbens

CONTRACTOR'S SUPERINTENDENT
R. Jacinto, Jr.

TYPE OF WORK
Well Backfill, Drainline

SOURCE AND DESCRIPTION OF FILL MATERIAL
Onsite Silty Gravel, Rojac Select Borrow

NOTES
I arrived onsite in the morning to begin observing the removal and backfilling of the onsite monitor well. Rojac used a Komatsu 750LC track hoe to begin excavating the well. The well pipe backfill was excavated to the gravel layer near an elevation of +2 feet where the casing was removed. The gravel pad was tamped with excavator bucket and a 1-foot deep lift of onsite silty gravel (6-inch minus) was placed in the bottom of the excavation. This first lift was compacted with the hoptoe and a wheel roller. The rock content of the onsite material was too great for nuclear gauge testing. Visual observation of the compaction effort indicated adequate compaction had been achieved.

Two feet of select borrow was then placed in one foot lifts. The select borrow was used in place of the silty sand because it compacted easier with the wheel roller. At the +6 elevation Rojac cut a ramp down into the excavation and began compaction with the Rammax. Lifts were placed approximately 1 foot in thickness and compacted with the Rammax to the +12 foot elevation. The final 3 feet of backfill was compacted with the 10-ton sheepfoot roller on lifts placed approximately 1-foot in thickness. Visual observation of the compactive effort on each lift indicated adequate compaction had been achieved.

The contractor was also pushing boulders makai of Lots 50 through 55 to a boulder fill in the area of Lots 40 through 49 and 96 through 100 as shown on the attached plan. The drainline between DMH B-1 and B-2, including runs to CB B-1 and CB B-2, was excavated and installed today. No backfill was placed.

COPY GIVEN TO:    HOURS: 7.5    REPORT BY: R.M. Gibbens
January 18, 2002

Mr. Charley Ice
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ice,

Re: Piilani Village Phase III Subdivision
ABANDONMENT OF EXISTING WAIOHULI I WELL (WELL NO. 4527-12, WAIOHULI, MAUl)
Kihei, Maui, Hawaii

Pursuant to our meeting at the site this morning with Spencer Homes, Inc., Fewell Geotechnical Engineering, Ltd., and Rojac Construction, Inc., the permittee/contractor, Spencer Homes, Inc. (Contractor License ABC-21586), has requested that we advise the Commission on Water Resource Management that it will commence with the abandonment of the subject well on Friday, February 1, 2002. The approved permit is attached herewith.

Based on our previous correspondence dated February 4, 2001, it was our understanding that since the required work is primarily sitework, the licensed contractor may be a site contractor and need not be a well contractor. It is our further understanding that:

1. The abandonment procedures will conform to the abandonment plan and recommendations contained within the October 30, 2000 letter from Fewell Geotechnical Engineering, Ltd. (referenced within and attached to the original permit application). The work will be monitored and documented by FGE, Ltd.
2. As required on the permit, the Well Abandonment Report will be submitted by the permittee, within 60 days of completion of work.

If we have inadvertently omitted any additional requirement, or if you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

Clifford N. Mukai

cc: Jesse Spencer; Mark Spencer - Spencer Homes, Inc.
Ronald Jacinto, Jr. - Rojac Construction, Inc.
Robert Gibbens - F.G.E., Ltd.
Eric Matsuda - WSUE
Mr. Mark Spencer  
Spencer Homes, inc.  
P.O.Box 97  
Kihei, Maui, HI  96753  

Dear Mr. Spencer:

Well Abandonment Permit  
Waiohuli 1 (Well No. 4527-12)  

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. None

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files. In addition, we have enclosed a well abandonment form modified to suit your situation.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN  
Chairperson

Enclosures  
c. Warren Unemori Engineering  
Department of Health/Safe Drinking Water
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Waiohuli 1, Well No. 4527-12

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversions," this document permits the abandonment/sealing of Waiohuli 1 (Well No. 4527-12) at Piihili Highway near Waipuilani Street, Maui, TMK 2-2-24, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be complete within two (2) years.

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

Date of Approval: January 17, 2001
Expiration Date: None
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines up to $1000 per day.

Permittee's Signature: [Signature]
Printed Name: Jesse E. Spencer
Firm or Title: Spencer Homes, Inc.
Contractor's Signature: [Signature]
License #: ABC21586
Printed Name: Jesse E. Spencer
Firm or Title: Spencer Homes, Inc.

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

Attachment

C: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Maui Department of Water Supply
Warren Unemori Engineering
LETTER OF TRANSMITTAL

TO: Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

ATTENTION: Mr. Charley Ice

WE ARE SENDING YOU: [x] Attached [ ] Under Separate Cover

[x] Copy of Letter

1 original

Fully Executed Well Construction Permit to Abandon/Seal, Waiohuli 1, Well No. 4527-12;

1 copy


THESE ARE TRANSMITTED: For your use.

REMARKS:

Pursuant to the attached letter from the Commission on Water Resource Management dated January 30, 2001, please find attached the Well Construction Permit to Abandon/Seal fully executed by Spencer Homes, Inc. (both the well owner and the licensed contractor).

Please do not hesitate to contact us if you have any further questions or comments.

COPY TO: Dick Fewell (w/encl.) - FGE
Eric Matsuda; John Maloney

By: Clifford N. Mukai

If enclosures are not as noted, kindly notify us at once.
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Waiohuli 1, Well No. 4527-12

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Waiohuli 1 (Well No. 4527-12) at Piilani Highway near Waipuilani Street, Maui, TMK 2-2-24:20, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.
2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.
3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.
5. The permittee shall comply with all applicable laws, rules, and ordinances.
6. The sealing shall be complete within two (2) years.
7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: January 17, 2001
Expiration Date: None

GILBERT S. COLOMA-AGARAN, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee’s Signature: Jesse E. Spencer Date: 2-05-01
Printed Name: Jesse E. Spencer Firm or Title: Spencer Homes, Inc.
Contractor’s Signature: Jesse E. Spencer License #: ABC21586 Date: 2-05-01
Printed Name: Jesse E. Spencer Firm or Title: Spencer Homes, Inc.

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

Attachment c:
USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Maul Department of Water Supply
Warren Unemori Engineering
Mr. Mark Spencer
Spencer Homes, Inc.
P.O.Box 97
Kihei, Maui, HI 96753

Dear Mr. Spencer:

Well Abandonment Permit
Waiohuli 1 (Well No. 4527-12)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. None

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files. In addition, we have enclosed a well abandonment form modified to suit your situation.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN
Chairperson

Enclosures

- Warren Unemori Engineering
  Department of Health/Safe Drinking Water
1. State Well No. 4528-12  
2. Location / Address: Pilani Highway near Waipuilani  
3. Contractor: Name of driller who performed work  
4. Type of Rig / Construction: Date of well sealing completion

State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  
WELL ABANDONMENT REPORT  

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 further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.

1. State Well No. 4528-12  
   Well Name: Waiohuli 1  
2. Location / Address: Pilani Highway near Waipuilani  
   Island: Maui  
   TMK: 2-24:20  
3. Contractor: Name of driller who performed work  
4. Type of Rig / Construction: Date of well sealing completion

Diagram: Well section with various components labeled including Ground Elevation, Water Table, Backfill, Steel Plate, and Rock Filter.
1. State Well No. 4528-12
2. Location / Address: Piilani Highway near Waipuilani, Island of Maui, TMK 2-2-24:20
3. Contractor / Name of driller who performed work
4. Type of Rig / Construction
5. Date of well sealing completion
LIC ID: CT-21586
NAME: SPENCER HOMES INC
TRADE NAME: NANEKA AT KEHALANI
STATUS: CURRENT, VALID & IN GOOD STANDING
ENTITY: CORPORATION
ORIG LIC DATE: 8/24/98
CLASS PREFIX: ABC
RESTRICTION: 
BUSINESS ADDR:
MAILING ADDR: P O BOX 97  KIHEI HI 96753

Active/Inactive: ACTIVE

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at
(808)587-3295.

<-Back  New Search->

EMPLOYEES LIST  |  |  |  |  LICENSE CLASS

Copyright 2000 Professional and Vocational Licensing Division

Hawaii State homepage  |  |  |  Professional and Vocational Licensing Division

http://www.ehawaiigov.org/serv/pvl?_a=d&_f=n&lictp=CT&licno=21586&off=&nm=  2/13/2001
February 4, 2001

Mr. Charley Ice
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ice,

Re: Piilani Village Phase III Subdivision
ABANDONMENT OF EXISTING WAIOHULI I
WAIOHULI, MAUI
Kihei, Maui, Hawaii

Thank you for your assistance with the Well Abandonment
confirms our telephone conversation on the afternoon of TI
were advised that:

1. Since the required work is primarily sitework, the licensed contractor may be a site contractor and need not be a well contractor.

2. The abandonment procedures should conform to the abandonment plan and recommendations contained within the October 30, 2000 letter from Fewell Geotechnical Engineering, Ltd. (referenced within and attached to the original permit application).

If the above is in any way inconsistent with your understanding of our discussion, if we have inadvertently omitted any item, or if you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

Clifford N. Mukai

cc: Jesse Spencer / Mark Spencer - Spencer Homes, Inc.
Dick Fewell - F.G.E., Ltd.
Dear Mr. Spencer:

Well Abandonment Permit
Waiohuli 1 (Well No. 4527-12)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. None

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files. In addition, we have enclosed a well abandonment form modified to suit your situation.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Aloha,

[Signature]
GILBERT S. COLOMA-AGARAN
Chairperson

Enclosures

c. Warren Unemori Engineering
Department of Health/Safe Drinking Water
Mr. Mark Spencer  
Spencer Homes, Inc.  
P.O.Box 97  
Kihei, Maui, HI 96753  

Dear Mr. Spencer:  

Well Abandonment Permit  
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If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN  
Chairperson

Enclosures  
c. Warren Unemori Engineering  
Department of Health/Safe Drinking Water
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: LINNELL
DATE: JAN 17 2001
SUSPENSE DATE

TO: BAUER, G.    TO: LUM, A.    INIT:        INIT:        FOR: Approval
    CHING, F.    TO: NAKAMA, L.    INIT:        INIT:        Signature
    DANBARA, S.    TO: NAKANO, D.    INIT:        INIT:        Information
    FUJII, N.    TO: NISHIOKA, L.    INIT:        INIT:        PLEASE:
    HARDY, R.    INIT:        INIT:        Review & Comment
    HIGA, D.    INIT:        INIT:        Take Action
    HIRANO, E.    INIT:        INIT:        Type Draft
    ICE, C.    INIT:        INIT:        Type Final
    IMATA, R.    INIT:        INIT:        File
    JINNAI, R.    INIT:        INIT:        Xerox ___ copies
    KUNIMURA, I.    INIT:        INIT:        ___ See Me

Submitted up same full sheet of (redundant) attachments as on 22 Nov 00 hr.
(rec'd 29 Nov 00)
Mr. Mark Spencer  
Spencer Homes, inc.  
P.O.Box 97  
Kihei, Maui, HI 96753  

Dear Mr. Spencer:

Well Abandonment Permit  
Waichuli 1 (Well No. 4527-12)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

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1. None 

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If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN  
Chairperson

Enclosures

c. Warren Unemori Engineering  
Department of Health/Safe Drinking Water
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Walohuli 1, Well No. 4527-12

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Waiohuli 1 (Well No. 4527-12) at Piilani Highway near Waipuilani Street, Maui, TMK 2-2-24-20, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be complete within two (2) years.

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

Date of Approval: January 17, 2001
Expiration Date: None

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ____________________________ Date: ______________
Printed Name: ____________________________ Firm or Title: ____________________________

Contractor's Signature: ____________________________ License #: ______________ Date: ______________
Printed Name: ____________________________ Firm or Title: ____________________________

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

Attachment
c: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Maul Department of Water Supply
Warren Unemori Engineering
January 12, 2001

Mr. Charley Ice  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Ice,

Re: Piilani Village Phase III Subdivision  
ABANDONMENT OF EXISTING WAIOHULI I WELL (WELL NO. 4527-12,  
WAIOHULI, MAUI)  
Kihei, Maui, Hawaii

Pursuant to our November 22, 2000 correspondence and our subsequent telephone conversation on January 4, 2000, we are transmitting herewith for review and approval the following:

- Original, Signed Application for Permit (Well Abandonment) for Approval;
- Typical Cross Section of Existing Well

Based on our telephone conversation, we were advised that: an Application for Permit (Well Abandonment) would be required after further internal discussion within CWRM / DLNR; that the draft application submitted for your review on November 22, 2000 was acceptable (provided that all work proceed in accordance with the October 30, 2000 letter from Fewell Geotechnical Engineering, Ltd.); and, a final Well Abandonment Report would also be required.

Additional documents (for background information and well specifications) previously transmitted to you on November 22, 2000 included:

- After-The-Fact Well Construction and Pump Installation Permit for Waiohuli I Well (Well No. 4527-12), Waiohuli, Maui, Dated July 7, 1994;
As mentioned in our previous correspondence, based on the additional documents attached to our November 22, 2000 correspondence, it is our understanding that this well was originally dug as a sump, to temporarily obtain brackish water for construction dust control. Subsequently, a 60" diameter vertical, perforated pipe was installed, backfilled, and a pump installed. The facility has not been used recently, although in the past, it may have been intermittently used for dust control and emergency brush fire mitigation.

Since mass grading in the adjoining site is already underway, we greatly appreciate your continued efforts in expediting the approval of this application and we look forward to hearing from you shortly. If you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

Clifford N. Mukai, P.E.
Project Manager

cc:  Mark Spencer - Spencer Homes, Inc.
     Dick Fewell - FGE, Ltd.
     Eric Matsuda; John Maloney - WSUE
APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)
1. (a) WELL OWNER: Spencer Homes Inc. Contact Person: Mark Spencer Phone: (808) 891-8770
   Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
   Fax: (808) 891-8771 E-mail: 
2. (b) LAND OWNER: Spencer Homes Inc. Contact Person: Mark Spencer Phone: (808) 891-8770
   Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
   Fax: (808) 891-8771 E-mail: 
3. (c) CONTRACTOR: Spencer Homes Inc. Phone: (808) 891-8770
   Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
   Fax: (808) 891-8771 E-mail: 
   Lic #: (circle one: C-67, C-57A, or A) 

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)
2. WELL NAME: Waiohuli I Well Island: Maui
   Address: West (makai) side of Piilani Hwy, between E. Waiplai Road and Lipa Street
   (formerly TMK 2-2-02:66)
   Tax Map Key: _______ 2 2 24 20
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1:24,000) and include the name of the quad map, and (b) a property tax map, showing well location referenced to established property boundaries.
3. PROPOSED WORK: (check all that apply)
   □ Construct New Well □ Install New Pump* □ Modify Existing Well* □ Modify Pump* □ Abandon/Seal*
   *State Well No.: 6527-12 (if unknown, please call Commission at 587-0225)
4. CONSTRUCTION: □ Drilled □ Dug □ Shaft □ Tunnel
   Is this well part of a battery of wells? □ Yes □ No (Please describe)
5. PROPOSED PUMP INFORMATION: Rated Pump Capacity: 600 gallons per minute
   Pump Type (Check one): □ Deep Well Turbine □ Rotary □ Propeller
   □ Submersible □ Rotary-Displacement □ Reciprocating
   □ Centrifugal □ Rotary-Gear □ Impulse
6. PROPOSED USE: (check all that apply)
   □ Municipal (including hotels, stores, etc.) □ Domestic (individual, non-commercial water system) □ No. of Dwelling Units: 
   □ Irrigation (crop) □ No. of Acres: 
   □ Military (check here if other) □ Construction Dust Control & Emergency
7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 100,000 gallons per day 
   (b) METHOD OF FLOW MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain) None

OTHER IMPORTANT INFORMATION:
*SMA Permits for adjoining developments have been secured

8. LEGAL REQUIREMENTS: □ CDUP □ SMAP* □ EIS □ EA □ None □ Other (explain)
9. REMARKS, EXPLANATIONS: This facility was originally dug as a sump to temporarily obtain brackish water for construction dust control. Subsequently a 60" dia. vertical perforated pipe was installed, backfilled, and a pump and diesel engine installed. The facility is not currently in use, although it was used previously for dust control and local brush fire mitigation. Please see attached abandonment plan by PGE, Ltd..
   (if more space is needed, please attach additional sheet) (dated 10/30/00)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Spencer Homes Inc. Landowner: Spencer Homes Inc. Contractor: Spencer Homes Inc.
Signature: __________________________ Signature: __________________________ Signature: __________________________
Date: 7/13/00 Date: 7/13/00 Date: 7/13/00

For official use only
Latitude: __________________________ Aquifer System No. __________________________
State Well No. __________________________

WCP/PA Form 7/13/00
**TO**

**DATE**

**TIME**

**WHILE YOU WERE OUT**

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**Message:**

KE Went Jo 4521 - 12
OMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: CHARLEY

DATE: 1-Dec-00
SUSPENSE DATE: 2-1-01
PLEASE: See Me
1. Review & Comment
2. Take Action
3. Approval
4. Signature
5. Information
6. Type Final, label new file folder
7. File
8. Xerox __ copies

WELL NUMBER 4527-12
WELL NAME Waiohuli

WELL CONSTRUCTION ABANDONMENT
PUMP INSTALLATION

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1. TRANS. LETTER
2. CWRM MAP
3. APPL. FORM (3X)
4. USGS MAPS (3X)
5. TAX MAPS (3X)
6. PARCEL OWNER VERIF., MLS PRINTOUT
7. CONTRACTOR VERIF.
8. ALL INFO FILLED IN
9. BACKGROUND CHECK

FOLDER:
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:
DATE ACTION
1-Dec-00

CONTRACTOR LISTEN AS...
Spencer Home - Via.

FILE FOLDER
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:
DATE ACTION
1-Dec-00

Spencer Home will fax copy of PA w/signatures.

GM 4527-12.abn

Check will consist on new condition.

CHARLEY - this is okay, ME can add new tenant to current.

The ATT was issued after going to CWRM June 15, '94. They haven't done the abandonment yet.
November 22, 2000

Mr. Charley Ice  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Ice,

Re: Piilani Village Phase III Subdivision  
ABANDONMENT OF EXISTING WAIOHULI I WELL (WELL NO. 4527-12, WAIOHULI, MAUl)  
Kihei, Maui, Hawaii

Thank you for your assistance and recommendations regarding the abandonment of the existing well within the proposed Piilani Village Phase III Subdivision. Based on our discussions, it is our understanding that in view of the type of facility we are dealing with, a well abandonment application/permit may not be required and only a Well Abandonment Report may be required. Accordingly, to facilitate your determination that only the final report is required, we are transmitting herewith the following:

- Typical Cross Section of Existing Well;  
- Draft Application for Permit (Well Abandonment) for Review and Comment

Additional documents included for background information and well specifications include:

- After-The-Fact Well Construction and Pump Installation Permit for Waiohuli I Well (Well No. 4527-12), Waiohuli, Maui, Dated July 7, 1994;  

Pursuant to the attached documents furnished by Baldwin*Malama (the original owners of the well), it is our understanding that this well was originally dug as a sump, to temporarily obtain brackish water for construction dust control. Subsequently, a 60" diameter vertical,
Mr. Charley Ice  
Piilani Village Phase III Subdivision, ABANDONMENT OF EXISTING WAIOHULI I WELL  
(WELL NO. 4527-12, WAIOHULI, MAUI), Kihei, Maui, Hawaii  
November 22, 2000

Page 2

perforated pipe was installed, backfilled, and a pump installed. The facility has not been used recently, although in the past, it may have been intermittently used for dust control and emergency brush fire mitigation.

Thank you again for your prompt assistance and we look forward to hearing from you shortly. If you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

Clifford N. Mukai

cc: Mark Spencer - Spencer Homes, Inc.
    Dick Fewell - FGE, Ltd.
    Eric Matsuda; John Maloney - WSUE
We have reviewed the information transmitted to us on October 5, 2000, by Mr. Clifford N. Mukai of Warren S. Unemori Engineering, Inc., regarding the existing well within the Piilani Subdivision - Phase III. This letter presents our recommendations for abandonment of the well.

It is our understanding that Well No. 4527-12 is a shallow well which was used for dust control during earlier construction in this area. The well was described as follows:

- **Ground Surface Elevation** = 15 feet
- **Casing Diameter** = 60 inches
- **Casing Depth** = 18 feet
- **Total Depth** = 20 feet

It is our understanding that the well was dug with a backhoe, and that a 60-inch corrugated aluminum pipe 18 feet in length was installed with the bottom 5 feet of the pipe perforated. The bottom of the casing extended to approximately Elev. -3 feet. Gravel was placed around the pipe to approximately Elev. -5 feet. The water table was generally encountered at +1 foot and consisted of brackish water. The gravel surrounding the bottom of the casing was covered with a geo-textile membrane at about Elev. +2 feet and the excavation backfilled from there to the ground surface at Elev. +15 feet with native backfill.
An After The Fact Well Construction and Pump Installation Permit was issued on July 7, 1994, by the State of Hawaii, Department of Land and Natural Resources, Commission on Water Resource Management. Approximately 60 days after the permit was issued, the pump was removed and the well has not been used since then. In response to a July 11, 1997, letter from the Commission on Water Resource Management, a Well Completion Report was submitted on October 15, 1997, to complete the requirements for the well construction and use.

It is now our understanding that the well needs to be abandoned as part of Phase III. It is, therefore, necessary to submit an application for a Well Construction Permit to abandon the existing well. This letter presents the proposed procedures to be used for the well abandonment.

Since the existing well is a shallow dug well with a large diameter casing extending only into the brackish water table, the normal procedures contained within the Hawaii Well Construction and Well Pump Installation Standards of January, 1997, are not practical for this type of installation. We recommend that the following procedures be submitted for approval:

1. The 60-inch corrugated aluminum pipe casing should be exposed by excavation to the top of the gravel layer at about Elevation +2 feet.

2. The casing should be extracted from the gravel to cause the gravel to cave in and fill the bottom 3 feet of the opening created by the removal of the casing.

3. The resulting cavity should be backfilled with on-site material placed in maximum of 12-inch lifts and compacted to a minimum of 90 percent of the soil's maximum density as determined by ASTM Test Designation D1557. The backfilling should continue to the existing surface.

No work should be performed until the above recommended procedures have been approved and a Well Construction Permit obtained. The Commission must also be notified before work on abandonment of the well begins. A detailed record of the abandonment must be maintained by the well driller or general contractor (with a C License) for future reference and demonstration that the well was properly sealed.

Within 60 days following the completion of the work to abandon the well, a Well Abandonment/Sealing Report should be submitted in accordance with the Well Construction and Pump Installation Standards. The report should contain “the owner’s and operator’s name and address; the water use permit number, (if any), the name and address of the well driller who performed the work, the reason for the abandonment/sealing, and a complete description of the work performed.”
If you have any questions, or if we can be of additional assistance, please do not hesitate to contact us.

Respectfully submitted,

FEWELL GEOTECHNICAL ENGINEERING, LTD.

[Signature]

By Richard B. Fewell, P.E.

RBF/slff

Copy to:  Warren S. Unemori Engineering, Inc. (Attention: Mr. Clifford Mukai)
9. WELL SECTION

- 12" Opening
- Ground Elev.: 15' + MSL + 15'

- 1/2" Steel Plate
- Native Backfill
- 60" Corrugated Aluminum Pipe - 12 GA. - Bottom 5'
  Heavily Perforated
- Geo-Tex Membrane
- Water Table (Brackish)
- 6" Rock Filter

60" - Rock Filter

10' Width
10' Width

60" Width

Waiohuli I Well (Well No. 4527-12)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Abandonment
- Well Construction and/or Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 3 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) WELL OWNER: Spencer Homes Inc. Contact Person: Mark Spencer
Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
Fax: (808) 891-8771 E-mail:
(b) LAND OWNER: Spencer Homes Inc. Contact Person: Mark Spencer
Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
Fax: (808) 891-8771 E-mail:
(c) CONTRACTOR: Spencer Homes Inc. Contact Person: Mark Spencer
Mailing Address: P.O. Box 97, Kihei, Maui, Hawaii 96753
Fax: (808) 891-8771 E-mail:

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL NAME: Waiohu I Well
Island: Maui
Address: West (makai) side of Pilani Hwy., between Kaulupali Road and Linoa Street
Tax Map Key: (formerly TMK 2-2-02:66) 2 2 24 20
Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1:24,000) and include the name of the quad map, and (b) a property tax map, showing well location referenced to established property boundaries.

3. PROPOSED WORK: [ ] Construct New Well
[ ] Install New Pump
[ ] Modify Existing Well
[ ] Modify Pump
[ ] Abandon/Seal

*State Well No.: 4527-12 (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION: [ ] Drilled [ ] Dug [ ] Shaft [ ] Tunnel
Is this well part of a battery of wells? [ ] Yes [ ] No (Please describe)

5. PROPOSED PUMP INFORMATION: Rated Pump Capacity: 600 gallons per minute
Pump Type (Check one):
[ ] Deep Well Turbine [ ] Rotary [ ] Propeller
[ ] Submersible [ ] Rotary-Displacement [ ] Reciprocating
[ ] Centrifugal [ ] Rotary-Gear [ ] Impulse

6. PROPOSED USE: (Check all that apply)
[ ] Municipal (including hotels, stores, etc.) [ ] Industrial
[ ] Domestic (individual, noncommercial water system) [ ] No. of Dwelling Units: ______
[ ] Irrigation (crop) [ ] No. of Acres: ______
[ ] Military

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 100,000 gallons per day
(b) METHOD OF FLOW MEASUREMENT: [ ] Flowmeter [ ] Open-pipe [ ] Weir [ ] Orifice
[ ] Other (explain) None

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: [ ] CDUP [ ] SMAP [ ] EIS [ ] EA [ ] None [ ] Other (explain)

9. REMARKS, EXPLANATIONS: This facility was originally dug as a sump to temporarily contain brackish water for construction dust control. Subsequently a 60" dia. vertical perforated pipe was installed, backfilled, and a pump and diesel engine were installed. The facility is not currently in use, although it was used previously for dust control and local brush fire mitigation.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Spencer Homes Inc. Landowner: Spencer Homes Inc. Contractor: Spencer Homes Inc.
Signature ____________________________ Signature ____________________________ Signature ____________________________
Date ____________________________ Date ____________________________ Date ____________________________

For official use only
Latitude ____________________________ Aquifer System No. ____________________________
Longitude ____________________________ State Well No. ____________________________

WCPIPA Form 7/13/00
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - 4(1/4 Water Level Elev.))
Example: Estimated + 2 ft, Water Level Elev. → Bottom Elevation of Well Limit = (2 - (1/4(18.5 ft.))) = 17.5 ft.

Solid Casing Material:
Carbon Steel: compliant with (check one or more): ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1227: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one) □ Filament Wound Resin Pipe conforming to ASTM D2996 □ Centrifugally Cast Resin Pipe conforming to ASTM D2997 □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517 □ PTFE Fluorocarbon Tubing conforming to ASTM D3296 □ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more): ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1227: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one) □ Filament Wound Resin Pipe conforming to ASTM D2996 □ Centrifugally Cast Resin Pipe conforming to ASTM D2997 □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517 □ PTFE Fluorocarbon Tubing conforming to ASTM D3296 □ FEP Fluorocarbon Tubing conforming to ASTM D3296

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

1/2" Steel Plate

Native Backfill

Native Backfill

60" Corrugated Aluminum Pipe - 12 GA. - Bottom 5' Heavily Perforated

Geo-Tex Membrane

Water Table (Brackish)

6" - Rock Filter

6" - Rock Filter

Ground Elev.: 15' MSL

+15'

+10'

12" Opening

1'+

1'
AFTER-THE-FACT

WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT

for

Waiohuli I Well
(Well No. 4527-12)
Waiohuli, Maui

TO: Baldwin*Malama
915 Fort Street, Suite 702
Honolulu, HI 96813

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your after-the-fact application to construct, test, and install a pump in Waiohuli I Well (Well No. 4527-12), is approved subject to the following conditions:

1. The permit shall be for after-the-fact construction, testing, and installation of a 600 gpm capacity pump in the well.

2. 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 a 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.

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

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 permit application and staff submittal approved by the Commission at its June 15, 1994 meeting are incorporated into the permit by reference.

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

KEITH W. AHUE, Chairperson
Commission on Water Resource Management

Date of Issue: 7/7/94

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: 7/14/94

Printed Name: Robert G. Diffley, President
Malama Development Corp., General Partner

Firm or Title: Baldwin * Malama

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

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Maui Department of Water Supply
Goodfellow Brothers, Inc.
October 15, 1997

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

Re: Waiohuli I Well (Well No. 4527-12)

Dear Ms. Loui:

This is in response to your letter dated July 11, 1997.

Your letter indicates that the Well Construction Permit for the above referenced well expired on July 7, 1994. Our records indicate that the permit was issued on that date. Since that permit acknowledged that the well was already completed, we were not aware that there were any further reporting requirements.

Approximately 60 days after the permit was issued, the pump was removed and the well has not been used since.

A well completion report is attached, with information provided to the best of our recollection. Also enclosed is a copy of the 1994 application which included as-built drawings of the well. If you require any further information, please let us know.

Sincerely,

Robert G. Diffley  
President  
BALDWIN * MALAMA  
By Malama Development Corp.  
Its General Partner

Enclosure
WELL COMPLETION REPORT

1. State Well No.: 4527-12  Well Name: Waiohuli Irrigation #1  Island: Maui
2. Location/Address: Waiohuli, Kihei  Tax Map Key: 2-2-2-66

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: Goodfellow Brothers, Inc.
4. Name of driller who performed work: Staff
5. Type of rig/construction: Backhoe
6. Date(s) Well Construction and pump tests (if any) completed:
7. GROUND ELEVATION (referenced to mean sea level, msl): 15 + ft.  Motor Removed 1994
   - Well Bench Mark (description/location): None  Elevation (msl): = ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)
   Depths (ft.) Rock Description, Water Level, Dates, etc.
   Depths (ft.) Rock Description, Water Level, Dates, etc.
   No log created
   (If more space is needed, continue on back)
9. Total depth of well below ground: 20 ft.
10. Hole size: 60" inch dia. from 15' ft. to 5' ft. below ground
    - 60" inch dia. from 15' ft. to 20' ft. below ground
    - 60" inch dia. from 20' ft. to 25' ft. below ground
11. Casing installed: 60 in. I.D. x 12 GA in. wall solid section to 15' ft. below ground
    - 60 in. I.D. x 12 GA in. wall perforated section to 20' ft. below ground
    - Casing Material/Slot Size: Varies
12. Annulus: Grouted from No grout ft. below ground to 20' ft. below ground
    - Gravel packed from 15' ft. below ground to 20' ft. below ground
13. Initial water level: 14 ft. below ground.  Date and time of measurement: 1989
14. Initial chloride: Not measured ppm  Date and time of sampling: N/A
15. Initial temperature: Not measured °F  Date and time of sampling: N/A
16. PUMPING TESTS: Reference Point (R.P.) used: N/A
   (1) Step-Drawdown Test Date N/A
   Start water level __ ft. below R.P.
   End water level __ ft. below R.P.
   (2) Long-term Aquifer Test Date N/A
   Start water level __ ft. below R.P.
   End water level __ ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1996 LTAT Form) attached? Yes X No
18. As-built drawings attached?  X Yes  No
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) Goodfellow Brothers, Inc.  Lic. No. ABC-7046
Signature __________________________ Date __________
Surveyor (print) None  Lic. No. N/A
Signature __________________________ Date __________
Applicant (print) Baldwin * Malama
Signature __________________________ Date __________
### PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: No pump installed

21. Name of person performing work: N/A

22. Date Pump Installation Completed: N/A

23. **PUMP INSTALLATION:**
   - Pump Type, Make, Serial No.: N/A
   - Capacity: __________ gpm
   - Motor type, H.P., Voltage, rpm:
   - Depth of Pump Intake Setting _________ ft. below _________, which elevation is _________ ft.
   - Depth to bottom of airline _________ ft. below _________, which elevation is _________ ft.
   - Pumping Head is _________ ft.
   - Type of flow meter: _________ which measures in _________

24. As-built drawings attached? Yes No

25. Other remarks/comments: (See below)

---

<table>
<thead>
<tr>
<th>Pump Installation Contractor (print)</th>
<th>None</th>
<th>C-57 Lic. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td></td>
<td>Date</td>
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<tr>
<td>Applicant (print)</td>
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<tr>
<td>Signature</td>
<td></td>
<td>Date</td>
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</tbody>
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8. (cont'd) **DRILLER'S LOG (cont'd):**

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<tr>
<th>Water Level Dates</th>
<th>Depth (ft.)</th>
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</tbody>
</table>

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19. & 25. Remarks:

---

[Table content continued]
Mr. Robert G. Diffley, President  
Baldwin*Malama  
Malama Development Corporation  
915 Fort Street, Suite 702  
Honolulu, HI 96813

Dear Mr. Diffley:

Well Completion Report  
Waiohuli I Well (Well No. 4527-12)

Thank you for transmitting the captioned well completion report. You are correct in pointing out the typo in our previous correspondence: the after-the-fact well construction permit expired in 1996. Requirements for this well are now complete unless you wish to permanently abandon its use.

We understand that the pump was removed two months after the permit was issued and that the well has not been used since. Please notify us if the well will be returned to service. You will want to mark the well, cap and protect it from accidental contamination during its period of non-use.

If you have any questions, please call Charley Ice at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Sincerely,

EDWIN T. SAKODA  
Acting Deputy Director

Cl: ss
I, Clifford N. Mukai, shipper, authorize DHL to complete the necessary documents necessary to export this shipment. I/we understand that insurance is available on request for an extra charge. I/we agree to pay all the cost if the recipient or third party does not pay.

Shipment: "VO0572 Pilani Pl. III"

Full description of contents:

International non-document shipments only

Attach original and four copies of Commercial Invoice

Declared value for customs (in US $)

Export license No/Symbol (if applicable)

Harmonized Sched. No. (if applicable)

Type of export

Port of entry

Shippers Name/SSN

These commodities, technology or software were exported from the United States in accordance with the ultimate user or end-use, and end-user, and also with the availability of the United States, and also with the availability of the United States Department of Commerce regulations. Diversion contrary to U.S. law prohibited.

Shipment details

Domestic Services

1st Class

International Services

Special Services

Drop Box

Exp. Center

TOTAL

TRANSPORT COLLECT STICKER No.

PICKED UP BY: 11/1/00

Time: 1:24

Date: 11/6/00
We have reviewed the information transmitted to us on October 5, 2000, by Mr. Clifford N. Mukai of Warren S. Unemori Engineering, Inc., regarding the existing well within the Pillani Subdivision – Phase III. This letter presents our recommendations for abandonment of the well.

It is our understanding that Well No. 4527-12 is a shallow well which was used for dust control during earlier construction in this area. The well was described as follows:

- **Ground Surface Elevation** = 15 feet
- **Casing Diameter** = 60 inches
- **Casing Depth** = 18 feet
- **Total Depth** = 20 feet

It is our understanding that the well was dug with a backhoe, and that a 60-inch corrugated aluminum pipe 18 feet in length was installed with the bottom 5 feet of the pipe perforated. The bottom of the casing extended to approximately Elev. -3 feet. Gravel was placed around the pipe to approximately Elev. -5 feet. The water table was generally encountered at +1 foot and consisted of brackish water. The gravel surrounding the bottom of the casing was covered with a geo-textile membrane at about Elev. +2 feet and the excavation backfilled from there to the ground surface at Elev. +15 feet with native backfill.
An After The Fact Well Construction and Pump Installation Permit was issued on July 7, 1994, by the State of Hawaii, Department of Land and Natural Resources, Commission on Water Resource Management. Approximately 60 days after the permit was issued, the pump was removed and the well has not been used since then. In response to a July 11, 1997, letter from the Commission on Water Resource Management, a Well Completion Report was submitted on October 15, 1997, to complete the requirements for the well construction and use.

It is now our understanding that the well needs to be abandoned as part of Phase III. It is, therefore, necessary to submit an application for a Well Construction Permit to abandon the existing well. This letter presents the proposed procedures to be used for the well abandonment.

Since the existing well is a shallow dug well with a large diameter casing extending only into the brackish water table, the normal procedures contained within the Hawaii Well Construction and Well Pump Installation Standards of January, 1997, are not practical for this type of installation. We recommend that the following procedures be submitted for approval:

1. The 60-inch corrugated aluminum pipe casing should be exposed by excavation to the top of the gravel layer at about Elevation +2 feet.

2. The casing should be extracted from the gravel to cause the gravel to cave in and fill the bottom 3 feet of the opening created by the removal of the casing.

3. The resulting cavity should be backfilled with on-site material placed in maximum of 12-inch lifts and compacted to a minimum of 90 percent of the soil's maximum density as determined by ASTM Test Designation D1557. The backfilling should continue to the existing surface.

No work should be performed until the above recommended procedures have been approved and a Well Construction Permit obtained. The Commission must also be notified before work on abandonment of the well begins. A detailed record of the abandonment must be maintained by the well driller or general contractor (with a C License) for future reference and demonstration that the well was properly sealed.

Within 60 days following the completion of the work to abandon the well, a Well Abandonment/Sealing Report should be submitted in accordance with the Well Construction and Pump Installation Standards. The report should contain "the owner's and operator's name and address; the water use permit number, (if any), the name and address of the well driller who performed the work, the reason for the abandonment/sealing, and a complete description of the work performed."
If you have any questions, or if we can be of additional assistance, please do not hesitate to contact us.

Respectfully submitted,

FEWELL GEOTECHNICAL ENGINEERING, LTD.

\[\text{Signature:}\]

By Richard B. Fewell, P.E.

RBF/slf

\(\text{Copy to:} \quad \text{Warren S. Unemori Engineering, Inc. (Attention: Mr. Clifford Mukai)}\)
Mr. Robert G. Diffley, President
Baldwin*Malama
Malama Development Corporation
915 Fort Street, Suite 702
Honolulu, HI 96813

Dear Mr. Diffley:

Well Completion Report
Waiohuli I Well (Well No. 4527-12)

Thank you for transmitting the captioned well completion report. You are correct in pointing out the typo in our previous correspondence: the after-the-fact well construction permit expired in 1996. Requirements for this well are now complete unless you wish to permanently abandon its use.

We understand that the pump was removed two months after the permit was issued and that the well has not been used since. Please notify us if the well will be returned to service. You will want to mark the well, cap and protect it from accidental contamination during its period of non-use.

If you have any questions, please call Charley Ice at 587-0251 or toll-free at 984-2400 (Maui), extension 70251.

Sincerely,

EDWIN T. SAKODA
Acting Deputy Director
1. **Pump Tests Check** Glenn Bauer (initial)

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<tr>
<th>Step-Drawdown Test</th>
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<td>T &amp; S analysis attached</td>
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<td>estimated Steady-State drawdown at 1-mile radius is ☐ ☐ ft.</td>
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<tr>
<th>Stream Surface Water Impacted:</th>
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<th>No</th>
<th>If yes, identify most probable stream</th>
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2. **Construction Check** Mitch Ohye (initial)

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October 15, 1997

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

Re: Waiohuli I Well (Well No. 4527-12)  

Dear Ms. Loui:  

This is in response to your letter dated July 11, 1997.  

Your letter indicates that the Well Construction Permit for the above referenced well expired on July 7, 1994. Our records indicate that the permit was issued on that date. Since that permit acknowledged that the well was already completed, we were not aware that there were any further reporting requirements.  

Approximately 60 days after the permit was issued, the pump was removed and the well has not been used since.  

A well completion report is attached, with information provided to the best of our recollection. Also enclosed is a copy of the 1994 application which included as-built drawings of the well. If you require any further information, please let us know.  

Sincerely,  

BALDWIN * MALAMA  
By Malama Development Corp.  
Its General Partner  

Robert G. Diffley  
President  

Enclosure
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR PERMIT
☐ Well Construction  ☑ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $35.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Baldwin * Malama
   Contact Person: Bob Diffley  Ph: 539-7175
   Address: 915 Fort Street, Suite 702
   Honolulu, Hawaii  96813

   (b) LANDOWNER
   Firm/Name: Haleakala Ranch Co.
   Contact Person: Peter Baldwin  Ph: 877-5544
   Address: 55 S. Waikele Street
   Kahului, Maui  96732

   (c) CONTRACTOR
   Firm/Name: Goodfellow Bros. Inc.  Ph: 879-8868
   Address: P.O. Box 220, Kiehe, Maui  96753
   Contractor's C-57 License No: ABC-7046

2. WELL LOCATION/NAME: Waiohuli I Island Maui
   Address: Makai side of Piilani Hwy, between Lipoa & Waipuilani Street
   (Attach a USGS map, scale 1" = 2000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK: ☑ Drill New Well  ☐ Alter Location
   ☐ Modify Existing Well  ☐ Reddrill
   ☐ Install New Pump  ☐ Replace Pump  ☐ Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   ☑ Dug  ☐ Bored  ☐ Driven  ☐ Drilled  ☑ Radial
   Is this well a part of a battery of wells? ☐ Yes  ☑ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: 600 gallons per minute
   Pump Type:
   ☐ Deep Well Turbine  ☐ Rotary
   ☐ Submersible  ☐ Rotary-Displacement
   ☐ Centrifugal  ☐ Reciprocating
   ☐ Centrifugal  ☐ Impulse
   Motor:
   ☑ Diesel  ☐ Gas
   ☐ Electric, rated horsepower of
   ☐ Gas
   ☐ Electric, rated horsepower of

   Remarks, Explanations (cont'd):
   This facility is not currently in use, although it has been used frequently in recent months for dust control and for fighting local brushfires.

SEE ATTACHED SKETCH
WELL COMPLETION REPORT

(Check Appropriate Box) ☐ Well Construction ☐ (Permanent) Pump Installation

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis report also be submitted. For assistance call the Commission Regulation Branch at 587-0225, or 1-800-468-4644 Extension 70225.

1. State Well No.: 4527-12  
   Well Name: Waiohuli Irrigation #1  
   Island: Maui

2. Location/Address: Waiohuli, Kihei
   Tax Map Key: 2-2-2-66

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: Goodfellow Brothers, Inc.
4. Name of driller who performed work: Staff
5. Type of rig/construction: Back hoe
6. Date(s) Well Construction and pump tests (if any) completed: Dug 1989 -- Outfitted 1990 -- Pump/ Motor Removed 1994
7. GROUND ELEVATION (referenced to mean sea level, msl): 15 ± ft.
   Well Bench Mark (description/locatior): None
   Elevation(msl): __ ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)
   Depths (ft.) Rock Description, Water Level, Dates, etc.
   Depth (ft.) Rock Description, Water Level, Dates, etc.
   to __________ No log created
   to __________
   (If more space is needed, continue on back.)
9. Total depth of well below ground: 20 ± ft.
10. Hole size: 60" inch dia. from 15 ft. to 5 ft. below ground
    60" inch dia. from 5 ft. to __ ft. below ground
    60" inch dia. from __ ft. to __ ft. below ground
11. Casing installed: 60 in. I.D. x 12 GA in. wall solid section to 15 ft. below ground
    60 in. I.D. x 12 GA in. wall perforated section to 20 ft. below ground
    Casing Material/Slot Size: Varies
12. Annulus: Grouted from __ ft. below ground to __ ft. below ground
    Gravel packed from __ ft. below ground to __ ft. below ground
13. Initial water level: 14 ft. below ground. Date and time of measurement: 1989
14. Initial chloride: Not measured ppm Date and time of sampling: N/A
15. Initial temperature: Not measured °F Date and time of measurement: N/A
16. PUMPING TESTS: Reference Point (R.P.) used: N/A, which elevation is __ ft.
   (1) Step-Drawdown Test Date __ N/A __
   Start water level __ ft. below R.P.
   End water level __ ft. below R.P.
   (2) Long-term Aquifer Test Date __ N/A __
   Start water level __ ft. below R.P.
   End water level __ ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/9/96 LTAT Form) attached? Yes [ ] No [ ]
18. As-built drawings attached? Yes [ ] No [ ]
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) Goodfellow Brothers, Inc.  
Lic. No. ABC-7046
Signature __________________________ Date __________________________

Surveyor (print) None Lic. No. N/A
Signature __________________________ Date __________________________

Applicant (print) Baldwin * Malama
Signature __________________________ Date __________________________
Mr. Bob Diffley  
Baldwin*Malama  
915 Fort Street, Suite 702  
Honolulu, Hawaii 96813

Dear Mr. Diffley:

Expired Well Construction Permit  
Waiohuli 1 Irrigation Well (Well No. 4527-12)

A review of our records indicates that the captioned permit expired on July 7, 1997 without a notice of starting work or a well completion report.

Please submit a record of any work done, a well completion report if appropriate, or verify that no work was done. You may reapply at any time.

If you have any questions, please call Charley Ice at 587-0251 or toll-free at 984-2400, extension 70251.

Sincerely,

RAE M. LOUI  
Deputy Director

Class
5. The permit application and staff submittal approved by the Commission at its June 15, 1994 meeting are incorporated into the permit by reference.

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

KEITH W. AHUE, Chairperson
Commission on Water Resource Management

JUL 7 1994
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: 7/14/94

Printed Name: Robert G. Diffley, President
Firm or Title: Malama Development Corp., General Partner

Baldwin * Malama

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

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Maui Department of Water Supply
Goodfellow Brothers, Inc.
July 11, 1994

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

Re: Waiohuli I (4527-12); Well Construction and Pump Installation Permit; Baldwin Malama

Dear Ms. Loui,

The applicant requests the use of brackish water for irrigation and dust control, which BWS would normally support. However, the permit request is confusing in that the proposed withdrawal is only 100,000 gpd, while a pump capacity of 864,000 gpd is requested.

Further, we note that this is in the Kamaole aquifer, and that DHHL has plans for a well in Keokea directly upslope from this proposed well. Attached for your information is a schematic of the intended DHHL well site in Keokea.

The aquifer has an estimated sustainable yield of 11 mgd. We note that the lens of the Kamaole aquifer system is considered thin. Potential effects of overpumping brackish portions on the viability of inland potable water withdrawals, as well as the viability of the potentially potable well under dispute need to be monitored. Further, given the legal mandate not to withdraw more than 11 mgd from this system, we would like to know what current total pumpage from the aquifer is, and how this would effect development of the Keokea well site.

We would appreciate more information relative to these questions before further approvals are granted. Thank you for your investigations into these matters.

Sincerely,

David Craddick
Director
elk

attachment

"By Water All Things Find Life"
TO: Baldwin*Malama
915 Fort Street, Suite 702
Honolulu, HI 96813

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your after-the-fact application to construct, test, and install a pump in Waiohuli I Well (Well No. 4527-12), is approved subject to the following conditions:

1. The permit shall be for after-the-fact construction, testing, and installation of a 600 gpm capacity pump in the well.

2. 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 a 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.

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

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 permit application and staff submittal approved by the Commission at its June 15, 1994 meeting are incorporated into the permit by reference.

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

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.

cc: USGS
   Department of Health
       Safe Drinking Water Branch
       Ground Water Protection Program
       Wastewater Branch
   Maui Department of Water Supply
   Goodfellow Brothers, Inc.
MEMORANDUM

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

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Historic Preservation Review of a Well Modification Permit for Baldwin/Malama, Well No. 4527-12 (Waiohuli I) Waiohuli, Makawao District, Island of Maui
TMK: 2-2-02: 66

The applicant proposes to improve an existing sump well and install a new pump. The well is located within the Piilani Residential Community (Phase I increment) in Kihei.

The immediate vicinity of the well and surrounding area was subject of an archaeological inventory survey prior to the development of the Piilani residential subdivision (Archaeological Inventory Survey, Piilani Residential Community - Phase I, Land of Waiohuli, Makawao District, Island of Maui, Donham 1989). Five historic sites were identified within the area surveyed, however, no sites were located within 200 meters from the Waiohuli well site.

Based on previous archaeological work in the area of the well, we believe that the proposed improvements will have "no effect" on historic sites.

If you have any questions, please contact Ms. Theresa K. Donham at 243-5169.

KD: rn
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 Applications

Please review the following permit applications and submit your comments to us by June 6, 1994.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
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Should you have any questions please contact the Commission on Water Resource Management staff at 587-0225.

Enclosure

Response:
( ) We have no objections
( ) Not subject to our regulatory authority & permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Luis A. Manrique  
Phone: 594-1935

Signed: J. Douglas Ing  
Date: 06/23/94
TO: Honorable Hoalilii 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 Applications

Please review the following permit applications and submit your comments to us by June 6, 1994.

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Enclosure

Response:

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( ) Extended review period requested

Contact Person: Darrell Yagodich                             Phone: 586-3836
Signed: Darrell Yagodich                                         Date: 6/15/94
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Baldwin & Malama
After-the-Fact Application for a
Well Construction/Pump Installation Permit
Waiohuli I Well, Well No. 4527-12, Waiohuli, Maui

Applicant: L Landowner:
Baldwin & Malama Haleakala Ranch Co.
915 Fort Street, Suite 702 55 S. Wakea Street
Honolulu, HI 96813 Kahului, HI 96732

Background: The well was originally dug as a sump to temporarily obtain brackish water for
dust control during construction. Subsequently, a vertical slotted pipe was placed and backfilled
and a pump and diesel engine installed (see attached well section).

Action Requested: After-the-Fact permission to construct, test, and install a 600 gallons per
minute (gpm) pump in Waiohuli I Well (Well No. 4527-12) for dust control and fire protection
use. The proposed amount of use is 100,000 gallons per day (0.100 mgd).

Well Location/Tax Map Key: The proposed well will be located near Waiohuli, Maui at Tax
Map Key: 2-2-02: 66 (see attached map).

Well Description:

Ground elevation: 15 ft.
Casing diameter: 60 inches
Solid casing depth: 18 ft.
Total depth: 19 ft.
Pump capacity: 600 gpm

Agency Review: The application has been sent to the Maui Department of Water Supply,
the State Historic Preservation Division, the Office of Hawaiian Affairs, and to the State
Departments of Health and Hawaiian Home Lands for review. There have been no objections to
the project.

Analysis: The well is expected to develop brackish basal water from the Kamaole Aquifer
System. Pumpage from the well could possibly have some long-term adverse effects on other
wells in the area.

Water Availability: The well will be located in the Central Sector, Kamaole Aquifer System of
Maui. Sustainable yield for the Kamaole Aquifer System is estimated at 11 mgd. Withdrawal
from the System is about 4 mgd. Water needs from the System are estimated to be about 6 mgd
by the year 2010. The well is not listed in the Maui Water Use and Development Plan (WUDP).
The WUDP recommends coordination of source development among the major water users in the
area. There is concern over rising chlorides in the area.

RECOMMENDATION:

That the Commission on Water Resource Management (Commission) approve the
issuance of an after-the-fact well construction/pump installation permit for the Waiohuli I Well,
subject to the conditions listed below.
TO: Dr. Don Hibbard, Director
Historic Preservation Program
Mr. Henry M. Sakuda, Administrator
Division of Aquatic Resources

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

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by June 6, 1994.

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

JZ:ky

Enclosure

Response:
( ) We have no objections
( ) Not subject to our regulatory authority & permit
X) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________________________ Phone: ___________________________
Signed: ___________________________________________ Date: 6/13/94
MEMORANDUM

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

FROM: Henry Sakuda, Administrator
Division of Aquatic Resources

SUBJECT: Comments on Well Construction and Pump Installation Permit Applications for Well Nos. 0347-01 (Hawaii), 4057-01 (Hawaii), 4527-12 (Maui), 5832-03 (Maui), 1222-01 (Kauai), 1120-19 (Kauai), and 0022-01 (Kauai).

Well No. 0347-01, Well Name Kahuku-Bergstedt, Well and Pump Application

The application by Paul Bergstedt involves drilling of an exploratory well at approximately 1,200 feet in elevation above Kahuku, Hawaii to deliver approximately 20,000 gallons of water per day for domestic and agriculture use. There are no surface waters sustaining native biota in the area. We have no concerns from the aquatic biological resources standpoint.

Well No. 4057-01, Well Name Queen Liliuokalani Trust, Pump Installation Application

The application by Queen Liliuokalani Trust involves installation of a pump in an existing well above Mamalahoa Highway, Kailua, Hawaii to deliver approximately 1.5 million gallons of water per day for municipal use. We have no objections from the aquatic biological resources standpoint.

Well No. 4527-12, Well Name Waiohuli I, Well and Pump Application

The application by Baldwin Malama involves drilling of a new well near the ocean above Piilani Highway near Waiohuli-Keokea Homesteads, Maui to deliver up to 100,000 gallons per day of brackish water for fire protection, construction dust control, and other sporadic urban use. We have no objections from the aquatic biological resources standpoint.

Well No. 5832-03, Well Name Kahakuloa Acres, Pump Installation Application

The application by Island Shores, Inc. involves installation of a pump in an existing well adjacent to Kahakuloa Homesteads, West Maui to deliver approximately 300,000 gallons of
water per day for an agricultural subdivision. An existing well on the site will serve as a backup. We have no objections from the aquatic biological resources standpoint.

Well No. 1222-01, Well Name Pilaa-Linder, Well and Pump Application

The application by Jeffry Lindner involves drilling a new well near the Waiakalua Reservoir, Kilauea, Kauai and installing a pump to deliver approximately 3,500 gallons of fresh water per day for agricultural use. We have no objections from the aquatic biological resources standpoint.

Well No. 1120-19, Well Name Moloaa-Thronas/Loganbill, Well and Pump Application

The application by K. Thronas and L. Loganbill involves drilling a new well near sea level adjacent to Moloaa Bay, Kauai and installing a pump to deliver approximately 500 gallons of water per day for agricultural use. We suspect that the daily withdrawal rate may be higher than indicated, because the pump capacity is rated at 15-20 gallons per minute.

Well No. 0022-01, Well Name Hanamaulu No. 1, Well Construction Application

The application by the Department of Water, County of Kauai involves drilling and testing of a new well above Hanamaulu to assess its potential for potable service to the Lihue Water System for municipal use. Withdrawal of approximately 500,000 gallons per day is anticipated. We have no objections from the aquatic biological resources standpoint.
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. Dennis Tulang  

Dear Mr. Arizumi:  

Well Construction and Pump Installation Permit Applications  

Please review the following permit applications pursuant to your area of concern and submit your comments to us by June 6, 1994.  

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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

Response:  
( ) We have no objections  
( ) Not subject to our regulatory authority & permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Lori Kajiwara  
Phone: 587-04290  
Date: 6-14-94
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 Applications

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Sincerely,

RAE M. LOUI
Deputy Director

---

Response:

☒ We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: Bill Wong
Phone: 586-1250
Signed: Bill Wong
Date: 6/6/94
Mr. David Craddick, Director  
Department of Water Supply  
County of Maui  
200 South High Street  
Wailuku, Hawaii 96793  

Dear Mr. Craddick:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by June 6, 1994.

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

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:
( ) We have no objections  
( ) Not subject to our regulatory authority & permit  
( ) Comments attached re: Waiohuli I well  
( ) Additional information period requested

Contact Person: Ellen Kraft  
Phone: 243-7835  
Signed: [Signature]  
Date: 7/12/94
Mr. Bob Diffley  
Baldwin Malama  
915 Fort Street, Suite 702  
Honolulu, Hawaii 96813  

Dear Mr. Diffley:

We have received your application and filing fee for a permit to construct and install a pump in Waiohuli I Well (Well No. 4527-12) at Waiohuli, Maui, (TMK 2-2-2:66). 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

JZ:ky
Mr. David Craddick, Director  
Department of Water Supply  
County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

Dear Mr. Craddick:

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Deputy Director

Response:
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( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________  
Phone: __________________

Signed: ___________________________  
Date: __________________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
223 South King Street, Suite 400  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by June 6, 1994.

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Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

JZ:ky  
Enclosure

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Contact Person: ____________________________ Phone: ____________

Signed: __________________________________ Date: ____________
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 Applications 

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Sincerely, 

RAE M. LOUI  
Deputy Director 

JZ:ky  
Enclosure 

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( ) Extended review period requested 

Contact Person: ____________________________ Phone: ________________ 
Signed: ____________________________ Date: ________________
MAY 26 1994

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. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by June 6, 1994.

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<td>0022-01</td>
<td>Well Construction</td>
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Should you have any questions please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

JZ:ky
Enclosure

Response:
( ) We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ____________________________ Phone: __________

Signed: ____________________________ Date: __________
TO: Honorable Hoaliku L. Drake, Director
Department of Hawaiian Homelands

Mr. Clayton H.W. Hee, Chairman & Trustee At Large
Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by June 6, 1994.

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

Enclosure

Response:

( ) We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: ______________

Signed: __________________________ Date: ______________
TO: Dr. Don Hibbard, Director
   Historic Preservation Program

   Mr. Henry M. Sakuda, Administrator
   Division of Aquatic Resources

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

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by June 6, 1994.

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JZ:ky

Enclosure

Response:
(  ) We have no objections
(  ) Not subject to our regulatory authority & permit
(  ) Comments attached
(  ) Additional information requested
(  ) Extended review period requested

Contact Person: ___________________________ Phone: ______________

Signed: ___________________________ Date: ______________
APPLICATION FOR PERMIT

☐ Well Construction  ☑ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 627, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Baldwin * Malama
   Contact Person: Bob Diffley  Ph: 539-7175
   Address: 915 Fort Street, Suite 702
   Honolulu, Hawaii 96813

   (b) LANDOWNER
   Firm/Name: Haleakala Ranch Co.
   Contact Person: Peter Baldwin  Ph: 877-5544
   Address: 55 S. Waikea Street
   Kahului, Maui 96732

   (c) CONTRACTOR
   Firm/Name: Goodfellow Bros. Inc.  Ph: 879-8868
   Address: P. O. Box 220, Kihei, Maui 96753

2. WELL LOCATION/NAME: Waiohulu I
   Island: Maui
   Address: Makai side of Pili Pali Hwy. between Lipoa & Whanilani Tax Map Key: 2-2-02-66
   (Attach a USGS map, scale 1"=1000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   (b) WELL TYPE:
   (c) EXPLANATIONS:
   (d) METHOD OF FLOW MEASUREMENT:

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: 600
   (Briefly describe and fill in the diagram on the back of this form.)

5. PROPOSED USE:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   (b) METHOD OF FLOW MEASUREMENT:

7. PENDING ACTIONS:

8. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit shall not constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use of the permitted pump capacity.

Well Owner
Baldwin * Malama
Signature __________________________
Date __________________________

Landowner
Haleakala Ranch Co.
Signature __________________________
Date __________________________

Contractor
Goodfellow Bros. Inc.
Signature __________________________
Date __________________________
9. WELL SECTION

12" Opening

Ground Elev.: 15' + MSL

1/2" Steel Plate

Native Backfill

60" Corrugated Aluminum Pipe - 12 GA. - Bottom 5'
Heavily Perforated

Geo-Tex Membrane

Water Table (Brackish)

6" - Rock Filter

6" - Rock Filter

60"

10'

10'

60°

Waiohula I Well (Well No. 4527-12)
<table>
<thead>
<tr>
<th>DATE</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
<th>DEDUCTION</th>
<th>NET AMOUNT</th>
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</thead>
<tbody>
<tr>
<td>16-FEB-94</td>
<td>PERMIT APPLICATION FEE</td>
<td>25.00</td>
<td></td>
<td></td>
</tr>
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**Totals**

- DATE: 16-FEB-94
- CONTROL NUMBER: BALDWIN MALAMA

**PAY ****Twenty Five and No/100 Dollars**** TO THE ORDER OF DEPT. OF LAND AND NATURAL RESOURCES**

**Bank of Hawaii**
Kahului Branch
Kahului, Hawaii
59-102/1213

**DATE** 16-FEB-94
**CONTROL NO.**
**AMOUNT** ***$25.00***