PRE-CONSTRUCTION MEETING

PROJECT: Drilling Makaleha Well II

DOWALD JOB NO.: 18-KWI-18

DATE: Nov. 3, 1988 TIME: 1:30 P.M. PLACE: DOWALD Constr. Rm

CONTRACTOR: Paul Fran & Sons PHONE:

SUBCONTRACTOR(s) Dan Taike PHONE:

DOWALD PERSONNEL ASSIGNED TO THIS PROJECT:

Project Inspector: NAME PHONE:

Engineer: NAME PHONE:

ATTENDANCE SHEET: Attached

A. GENERAL:

1. This pre-construction conference is not an open discussion period to discuss omissions, errors, clarifications, etc. Items of this nature should have been brought to the attention of the State prior to bid opening (bid preparation period). Any questions or clarifications related to the plans and specifications must be submitted in writing through the general contractor. A verbal decision inadvertently given by the Engineer or DOWALD staff at this meeting will not be considered official or binding. All decisions affecting the contract requirements must be in writing. Special requirements of user agencies brought up at this meeting that are not covered by the contract documents shall be disregarded unless submitted in writing.

2. This pre-construction meeting is to review the construction administration procedures of the Division of Water and Land Development (DOWALD), and to emphasize the pertinent requirements related to this particular project so as to avoid any misunderstandings during construction.

3. Prior to beginning operations, the contractor shall submit the following to the State:
   a. Name of superintendent or qualified representative on the job site.
   b. Working hours on the job.
   c. Breakdown cost of the lump sum bid for monthly estimate.
   d. Proof of insurance coverage.
   e. Permit and licenses.
   f. Construction schedule (for DOWALD information only).
B. PROJECT SITE INSPECTION:

1. Prior to starting any work, the contractor shall call the project inspector assigned to this project and jointly ascertain the existing conditions of structures, landscaping, etc., that are to remain. Any existing defects, damages, etc. shall be noted, photographed and forwarded in writing to the State. Any damage to existing items noted during or after completion of the project that were not specifically reported in writing prior to starting work shall be repaired or replaced by the contractor at no cost to the State.

C. PREPARATORY WORK:

1. The contractor and sub-contractors shall obtain all required permits prior to the starting of any work.

2. All lines, levels and elevations are to be laid out, checked and certified by a licensed surveyor or licensed civil engineer prior to the clearing, excavation or construction of any work.

3. A field office and telephone (if specified) shall be made available to DOWALD within seven calendar days after the commencement of work.

4. A construction project sign (if specified) shall be erected upon commencement of work.

D. STATE INSPECTOR'S RESPONSIBILITY:

1. Whenever our inspectors are on the job, their primary responsibility is to see that the materials, construction details and the workmanship are in accordance with the contract plans and specifications.

2. The inspector has the authority to issue a Notice of Non-Compliance for any material, or work that he believes do not meet the requirements of the contract plans and/or specifications.

3. Our inspectors are not on the job to suggest, advise, coordinate or issue directions relative to the contractor's construction operations. This is the contractor's responsibility.

4. Our inspectors are not authorized to issue interpretations or clarifications of plans and/or specifications that are contradictory, vague or ambiguous. Problems of this nature must be brought to the attention of the DOWALD engineer assigned to this project.

5. Our inspectors are not authorized to allow any deviation from the contract plans and specifications. Deviations (changes) from contract plans and specs can only be made after receipt of a written approval signed by DOWALD's, Manager-Chief Engineer or after an official change order is executed.

E. CONTRACTOR'S RESPONSIBILITY:

1. Except for certain projects, the State does not maintain a full time inspector on the job.
The fact that our inspectors do not stop a non-conforming operation does not indicate acceptance of the work being done.

2. It shall be the general contractor's responsibility to maintain a qualified superintendent on the job at all times to see that all work is done in conformance with the contract plans and specifications.

3. It shall be the general contractor's responsibility to coordinate the work of all sub-contractors on the job.

4. It shall be the general contractor's responsibility to see that all materials, etc. are ordered immediately by sub-contractors and suppliers. Delays caused by late ordering of materials will not be considered as justification for extension of contract time.

5. It shall be the general contractor's responsibility to check the availability of all materials and equipment required for this project with his sub-contractors and suppliers at an early enough stage to enable the State, if necessary, to designate a substitute material to prevent delaying the completion of the project.

F. SUBMITTALS:

1. DOWALD's policy is very clear -- only material, equipment, furniture, etc. SPECIFIED or PRE-QUALIFIED for this PARTICULAR project can be used on this job. The fact that you or your sub-contractors may have used a particular material on another State project does not make it automatically acceptable for this project.

2. It shall be the general contractor's responsibility to see that all brochures, pamphlets, samples, shop drawings, etc. submitted to the State are in conformance with the above policy. Do not expect the State or architect to do this for you.

3. Do not use shop drawings to make design or material changes. Any change in design or material must be authorized by an approved change order.

4. If for any reason a deviation from the plans and specifications must be made, such deviation shall be clearly noted in the TRANSMITTAL LETTER to the State with an explanation and justification for such deviation.

5. If such deviation is not indicated to the State, and such deviation is inadvertently approved, such approval will be rescinded and any cost related to redoing the work to conform with the plans and specifications shall be borne by the contractor.

G. TIME EXTENSIONS:

1. The contractor's attention is directed to "Section 8.7 Time of Completion and Liquidated Damages" Contract Time of the Standard Specifications. This provision of the contract will be strictly enforced.

2. All requests for extension of time must be made in writing and addressed to the Manager-Chief Engineer for DOWALD.
H. LABOR REGULATIONS:

1. The contractor shall comply with all labor regulations of the State of Hawaii and Federal Government (if applicable).

2. Special attention shall be given to the following:
   
   a. All mechanics and laborers employed on this project shall be paid at wage rates not less than those indicated in the State Wage Schedule applicable to this project.

   b. A certified copy of each weekly payroll record of the general contractor and his sub-contractors must be submitted within 7 calendar days after the end of each payroll period. Payment for work done by the general contractor or any sub-contractor will not be processed without this payroll record.

I. REQUEST FOR QUOTATION FOR EXTRA WORK:

1. Quotations for extra work shall be submitted expeditiously and in any case no later than 10 working days after receipt of the State's request.

2. All quotations shall be accompanied by a statement as to the proposed change's effect on the project's completion date. If no condition is stipulated, the State will assume that the acceptance of the quotation will have no adverse effect on the project's completion date.

J. SPECIAL NOTICE TO LANDSCAPE SUB-CONTRACTORS

1. No matter how good your justifications may be, DO NOT DEVIATE from the specification requirements without a written approval from the Manager-Chief Engineer for DOWALD.

2. Landscaping contractors have, on too many occasions, planted undersized or different types of plants and later tried to resolve the problem by offering token rebates to the State.

3. The State will no longer accept rebates as a solution to correcting non-conformances. All non-conforming work not corrected within ten (10) working days after notification will be corrected by the State and the cost thereof will be deducted from monies due the contractor.

K. AS-BUILT PLANS:

1. The Contractor shall record all field changes and modifications to plans made during construction on a set of drawings to be maintained at the field office.

2. The drawings shall be prepared legibly and kept up-to-date during the progress of work and shall be available for inspection by the Engineer at all times.

3. Upon completion of the project, the Contractor shall submit the As-Built Plans, and other data therefor required by the Engineer as a requirement for final payment.
MEMORANDUM

TO: Division of Water and Land Development

FROM: William W. Paty, Chairperson
       Commission on Water Resource Management

SUBJECT: Approval of Well Construction Permit for Makaleha Well
         No. II, State Well No. 0622-02, Kapaa, Kauai

I am pleased to inform you that the Commission on Water Resource
Management approved your application for a well construction permit at
its meeting on November 16, 1988. Enclosed is a copy of the approved
submittal and your well construction permit for Makaleha Well No. II,
State Well No. 0622-02, Kapaa, Kauai.

WILLIAM W. PATY

Enc.
TO: Division of Water and Land Development  
1151 Punchbowl Street 
Honolulu, Hawaii 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 application to construct and test State Well No. 0622-02 for municipal use within Tax Map Key: 4-6-01:1 is approved subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at 548-7619, before any work covered by this permit commences.

2. The permit shall be for the construction and testing of the well only. No permanent pump may be installed without a pump installation permit from the Commission.

3. The following shall be submitted to DOWALD, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the well:
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.

4. Monthly reports of pumpage shall be submitted to DOWALD when the well is put into production.
5. If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems."

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

7. This permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

NOV 25 1988

WILLIAM W. PATY

Date of Issuance

Enc. (Driller's Report form)
cc: USGS
   Department of Health,
   Drinking Water Program
   Ground Water Protection Program
   Kauai Dept. of Water
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Division of Water and Land Development
Application for Well Construction Permit,
Makaleha Well No. II, Kapaa, Kauai

Applicant: Division of Water and Land Development
1151 Punchbowl Street
Honolulu, Hawaii 96813

Action Requested: Approval of permit to construct and test Makaleha Well No. II, State Well No. 0622-02, for municipal use.

Well Location: The well site will be located within Tax Map Key: 4-6-01:01, Kapaa, Kauai (see attached map).

Well Description:

- Ground Elevation: 520± ft.
- Casing diameter: 12-in. I.D.
- Solid casing depth: 570 ft. (-50 ft.)
- Cased hole diameter: 18 in.
- Open hole: 200± ft.
- Open hole diameter: 11 in.
- Total depth: 770 ft.
- Pump test range: 50-300 gpm /
- Grouted annulus: 0-570 ft.

Impact on Surrounding Wells: Following construction, the well will be tested to determine the impact on surrounding wells.

Agency Review: The application has been sent to the State Department of Health and Kauai Department of Water for review. There have been no objections to the application.

Approved by Commission on
Water Resource Management
at the meeting held on

ITEM 3
Chairperson and Members
Commission on Water Resource Management
November 16, 1988

RECOMMENDATION:

That the Commission approve the issuance of a Well Construction Permit to the Division of Water and Land Development for the construction of Makaleha Well No. II, subject to the following conditions:

(1) The permit shall be for the construction and testing of the well only. No permanent pump may be installed without a pump installation permit from the Commission.

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

(3) If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems".

(4) The applicant shall comply with all applicable laws, rules, and ordinances.

(5) The permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Respectfully submitted,

Makabu Tagomori
Deputy Director

 Attach.

APPROVED FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
December 9, 2003

Mr. Edward Tschupp  
Manager and Chief Engineer  
County of Kauai  
Department of Water  
P.O. Box 1706  
Lihue, HI 96766  

Dear Mr. Tschupp:

Well Completion Report for Well No. 0622-02

We received the fully executed Pump Installation Permit for the Kapaa Homesteads No. 2 Well (Well No. 0622-02) on November 18, 2003. We are now able to accept your Well Completion Report Part II, which we received on August 28, 2003, as complete. Thank you for your attention to these matters.

If you have any questions, please contact Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,


ERNEST Y.W. LAU  
Deputy Director

LYN: ss

c: State DLNR
PUMP INSTALLATION PERMIT

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Kapaa Homesteads No. 2 (Well No. 0622-02) at Kapaa Homesteads, Kauai, TMK 4-6-01:01, 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 to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 500 gpm rated capacity, or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Chairperson (attached).

4. 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, well operator, and/or well owner are 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.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

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

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. The this permit is also subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

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

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

Date of Approval: November 1, 2001
Expiration Date: November 1, 2003

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 and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: DEPARTMENT OF WATER BY
Date: 11/12/03

Printed Name: EDWARD EHAPP Firm or Title: MANAGER & CHIEF ENGINEER

Installer's Signature: C-57, C-57a, or A License #: 24896 Date: 9/16/03
Printed Name: DWIGHT HO Firm or Title: BEPAK DR LLC / C. WEG.

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

Attachments

USGS
Department of Health/ Safe Drinking Water & Wastewater Branch
DATE: November 13, 2003

TO: Ms. Lenore Nakama  
DLNR-Commission on Water  
Resource Management  
P. O. Box 621  
Honolulu, HI 96809

JOB NOS:  
RE: 1. Job No. 86-7, Kapaa Homesteads Well No. 2, Kapaa, Kauai – State Well No. 0622-02
2. Job No. 98-33, Wailua Homesteads Well No. 3, Kapaa, Kauai – State Well No. 0523-01

We are sending you X enclosed or _____ under separate cover, the following items:

<table>
<thead>
<tr>
<th>COPIES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pump Installation Permit for Job 86-7 (already submitted well completion report)</td>
</tr>
<tr>
<td>1</td>
<td>Pump Installation Permit for Job 98-33 (w/ approval of extension letter)</td>
</tr>
</tbody>
</table>

These are transmitted as checked below:

- [ ] For approval signature
- [ ] For information
- [ ] For review and comment
- X As requested
- [ ] For processing
- [ ] Returned for corrections
- [ ] For your files
- [ ] Other (see comments below)

REMARKS: If there are any questions, please call Keith Fujimoto at (808) 245-5449.

If enclosures are not as noted, please call us.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART II
Pump Installation

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 887-0225. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwrm/

<table>
<thead>
<tr>
<th>1. State Well No.:</th>
<th>0622-02</th>
<th>Well Name:</th>
<th>Kapa'a Homesteads Well no. 2</th>
<th>Island: Kauai</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Address:</td>
<td></td>
<td>Tax Map Key:</td>
<td>0622-02</td>
<td></td>
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<tr>
<td>4. Date Pump Installed:</td>
<td>Dec. 30, 2002</td>
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<td>5. PERMANENT PUMP INFORMATION (Attach pump specifications and rating curve)</td>
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<tr>
<td>Pump Type, Make, Serial No.: Submersible Turbine Goulds 9RCHC-3 S# 459876</td>
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<td>Rated Capacity:</td>
<td>500 gpm at head of: 126 ft.</td>
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<td>Motor Type, H.P., Voltage, rpm: Hitachi Submersible 25 HP 460 Volt 1800 RPM</td>
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<tr>
<td>Type of flow meter: VENTURI FLOW TUBE which measures in GALLONS</td>
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<tr>
<td>Pump type (check one):</td>
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<tr>
<td>☐ Deep Well Turbine</td>
<td>☐ Rotary</td>
<td>☐ Propeller</td>
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<tr>
<td>☑ Submersible</td>
<td>☐ Rotary-Displacement</td>
<td>☐ Reciprocating</td>
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<tr>
<td>☐ Centrifugal</td>
<td>☐ Rotary-Gear</td>
<td>☐ Impulse</td>
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<td>6. Method of flow measurement:</td>
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<tr>
<td>☑ Flowmeter Manufacturer Make Size</td>
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<tr>
<td>☐ Weir ☐ Open Pipe ☐ Orifice* ☐ Other*, explain below</td>
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<tr>
<td>*attach schematic</td>
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<td>7. Fill in the as-built section on the other side of this sheet.</td>
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<tr>
<td>8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.</td>
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<tr>
<td>9. Other remarks/comments:</td>
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</table>

Pump Installation Contractor (print) Beylik Drilling Inc. C-57/C-57a/A Lic. No. AC 21896
Signature

WCR2 Form 12/4/01 Page 1 of 2
DATE: August 26, 2003

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

RE: Kapaa Homesteads Well #2, Kapaa, Kauai.
State Well #0622-02

We are sending you X attached: ___ under separate cover via: ___ the following items:

<table>
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<td>Well Completion Report (Part II) for Kapaa Homesteads Well #2, Well No. 0622-02.</td>
</tr>
</tbody>
</table>

These are transmitted as checked below:

☐ For approval signature  ☐ Approved as submitted
☐ For review and comment  ☒ As requested
☐ For your Information  ☐ Returned for corrections
☐ Other (see comments below)  ☐ Return revision with DOW red-lined set

REMARKS:

If there are any questions, please call Keith Fujimoto at 245-5449.

COPIES TO: ______________________ SIGNED: ______________________

Wayne Hinazumi, Chief of Engineering Division

If enclosures are not as noted, kindly notify us at once.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART II
Pump Installation

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

1. State Well No.: 0622-02    Well Name: Kapa'a Homesteads Well no. 2    Island: Kauai
2. Address: _________________________ Tax Map Key: 0622-02
4. Date Pump Installed: Dec. 30, 2002
5. PERMANENT PUMP INFORMATION (Attach pump specifications and rating curve)
   Pump Type, Make, Serial No.: Submersible Turbine Goulds 9RCH-3 S# 459876
   Rated Capacity: 500 gpm at head of: 126 ft.
   Motor Type, H.P., Voltage, rpm: Hitachi Submersible 25 HP 460 Volt 1800 RPM
   Type of flow meter: VENTURI FLOW TUBE which measures in GALLONS
   Model Number ___________ Serial Number ___________
   Pump type (check one): □ Deep Well Turbine □ Rotary □ Propeller
   □ Submersible □ Rotary-Displacement □ Reciprocating
   □ Centrifugal □ Rotary-Gear □ Impulse
6. Method of flow measurement:
   □ Flowmeter Manufacturer ___________ Make ___________ Size ___________
   □ Weir □ Open Pipe □ Orifice* □ Other*, explain below
   *attach schematic
7. Fill in the as-built section on the other side of this sheet.
8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.
9. Other remarks/comments:

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

Pump Installation Contractor (print) Beylik Drilling Inc.     C-57/C-57a/A Lic. No. AC 21896
Signature DWIGHT HO, GENERAL MANAGER Date Aug. 4, 2003

Permittee (print) KAUAI DEPARTMENT OF WATER
Signature EDWARD PECHP, MANAGER & CHIEF ENGINEER Date 9/27/03
9. AS-BUILT PUMP SECTION (Please attach as-built if different from diagram provided below)

Bench mark elevation surveyed to nearest 0.01 ft. = 517.4 ft. mean sea level

Elevation of top of chase tube 519.6 ft. mean sea level

Pump intake depth = ±2.0 ft. (referenced to bench mark)

Chase tube depth = ±245.0 ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = ft. mean sea level
KAPAA HOMESTEADS WELL #2
State of Hawaii
Water Commission Well #0622-02
Owner: Department of Water
Date of Survey: August 13, 2003

Job Number: 02-BF
Drawing File: 02-00Well.dwg

ESAKI SURVEYING & MAPPINGS, INC.
Civil Engineers - Land Surveyors - Planners
1610 Haleakulana Street
Lihue, Hawaii 96766

NOT TO SCALE

PLLOT MARK USED.
"+" on parapet, Kauhau Rd. Bridge
(ELEV.=+617.22 ft.)

CONCRETE SLAB

ELEVATION
NOT TO SCALE

PLAN
NOT TO SCALE

4.00 1.75 3.20 6.15 2.00 0.50 2.70
8" PIPE
0.50
0.60

0.60

2.70

0.12

PLATE

8" PIPE

BENCH MARK USED.
"+" on parapet, Kauhau Rd. Bridge
(ELEV.=+617.22 ft.)
ITT - Goulds Pumps
Turbine Operations

Flow - GPM

TDH - Ft

Efficiency - %

Horsepower

TDH

HP

Design

SO: 459876

Model: 9RCHC/3

Imp Dia: 6.75 in

Speed: 1740 RPM

William D. Hollis

Professional Engineer

State of Texas
# PERFORMANCE TEST RESULTS

**CUSTOMER:** ROSCOE MOSS  
**P.O. NUMBER:** 01-3686  
**ITEM:** KAPAA  
**S.O. NUMBER:** 459876  
**DATE:** 10/21/02  

## CONDITIONS

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## READINGS DURING TEST

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## TEST DATA RECORDED AT TEST RPM

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## TEST DATA CONVERTED TO CUSTOMER RPM

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Certified Test Results  
By: William D. Hollis  
Title: Engineer  
Date: Nov 7, 2002

[State of Texas Engineer License]

[Signature and Seal]

[Stamp: State of Texas]

[Stamp: Professional Engineer]

[Stamp: License Number 48960]

[Stamp: Rev'd 5/2002]
Contractor's Name: Koga Engineering & Construction, Inc.
Subcontractor's Name: Beylik Drilling, Inc. (formerly Roscoe Moss Hawai'i)
Project Name: Pump, Controls, Pumphouse and Connecting Pipeline for Kapa'a Homesteads Well No. 2 (0622-02)
Job No.: 86-7
Contract No.: 369
Specification Section: 3.5
Item Description: Certified Pump Test Curves & Data
Submittal Conforms to Specification
x
__________________________
Exceptions to Drawings & Specs as specifically noted

"I certify that items indicated in this submittal are those proposed to be incorporated into the Work. I further certify that the submitted items have been reviewed in detail and are correct and in strict compliance with the Contract Documents except as Specifically indicated otherwise thereon."

Signature ___________________________ Date: 11/8/02
✓ REVIEWED, NO EXCEPTIONS NOTED  ☐ REJECTED
☐ REVIEWED, EXCEPTIONS NOTED  ☐ RESUBMIT
☐ SUBMIT SPECIFIED ITEM  ☐ DO NOT RESUBMIT

Reviewed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibility includes but is not limited to: dimensions, which shall be confirmed and correlated at the jobsite, fabrication processes, techniques of construction, coordination of his work with all other trades, safety precautions, and the satisfactory performance of his work.

DATE 12/4/62  BY [Signature]
April 19, 2002

Mr. Ernest Lau
Manager and Chief Engineer
County of Kauai
Department of Water
P.O. Box 1706
Lihue, HI 96766

Dear Mr. Lau:

We have received a copy of the Conservation District Use Permit (CDUP), allowing the installation of a pump in Kapaa Homesteads #2 Well (Well No. 0622-02).

With this approval in place, the pump installation permit that was approved on November 1, 2001, is reactivated as of March 22, 2002, the date of the CDUP approval. We are extending start work deadline (Condition 8) to six (6) months from the date of this letter. The permit expiration date remains November 1, 2003. Condition 8 of the permit allows for the extension of the expiration date upon a showing of good cause and good-faith performance and provided that the request is made no later than three (3) months prior to the date the permit expires.

If you have any questions, please contact Lenore Nakama at 587-0218 or toll-free at 274-3141, extension 70218.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

LN:ss
DATE: April 9, 2002

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

JOB NO: 86-7
RE: Pump Installation Permit for Kapaa Homesteads Well #2 (Well #0622-02)

We are sending you attached: ___ under separate cover via: ___ the following items:

<table>
<thead>
<tr>
<th>COPIES</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>Conservation District Use Application (KA-3070) as approved by DLNR on March 22, 2002.</td>
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</table>

These are transmitted as checked below:

- [ ] For approval signature
- [x] Approved as submitted
- [ ] For review and comment
- [x] As requested
- [ ] For your Information
- [ ] Returned for corrections
- [ ] Other (see comments below)
- [ ] Return revision with DOW red-lined set

REMARKS:
As a condition for granting the pump installation permit required the attached CDUA.

If there are any questions, please call Keith Fujimoto at 245-5449.
Ernest Y.W. Lau, Manager & Chief Engineer
County of Kauai,
Department of Water
4398 Pua Loke Street
Lihue, HI 96766

Dear Mr. Lau:

SUBJECT: Conservation District Use Application (CDUA) KA-3070, for Kapaa Homesteads Well No. 2 at Kapaa, Kauai

I am pleased to inform you that CDUA KA-3070 was approved, by the Board of Land and Natural Resources, on March 22, 2002, subject to the following conditions:

1. The applicant shall comply with all applicable statutes, ordinances, rules, and regulations of the federal, State and county governments, and the applicable parts of Section 13-5-42, HAR;

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

3. The applicant shall comply with all applicable Department of Health administrative rules;

4. Before proceeding with any work authorized by the Board, the applicant shall submit four copies of the construction plans and specifications to the Chairperson or his authorized representative for approval for consistency with the conditions of the permit and the declarations set forth in the permit application. Three copies will be returned to the applicant. Plan approval by the Chairperson does not constitute approval required from other agencies;
applicant. Plan approval by the Chairperson does not constitute approval required from other agencies;

5. The applicant shall obtain appropriate authorization from the department for the occupancy of State lands;

6. Any work or construction to be done on the land shall be initiated within one year of the approval of such use, in accordance with construction plans that have been approved by the Department; further, all work and construction must be completed within three years of the approval;

7. The applicant shall notify the Land Division in writing prior to the initiation, and upon completion, of the project;

8. All mitigation measures set forth in the application materials, including responses to comments, and in the Final Environmental Assessment for this project are hereby incorporated as conditions of the permit;

9. Where any interference, nuisance, or harm may be caused, or hazard established by the use, the applicant shall be required to take measures to minimize or eliminate the interference, nuisance, harm, or hazard within a time frame and manner prescribed by the Chairperson. The applicant, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim or demand for property damage, personal injury or death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors and agents for any interference, nuisance, harm or hazard relating to or connected with the implementation of corrective measures to minimize or eliminate the interference, nuisance, harm or hazard;

10. The applicant understands and agrees that this permit does not convey any vested rights or exclusive privilege;

11. In issuing this permit, the Department and Board have relied on the information and data that the applicant has provided in connection with this permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended or revoked, in whole or in part, and/or the Department may, in addition, institute appropriate legal proceedings;
12. In the event that unrecorded historic remains (i.e., artifacts, or human skeletal remains) are inadvertently uncovered during construction or operations, all work shall cease in the vicinity and the applicant shall immediately contact the State Historic Preservation Division (692-8015);

13. The applicant shall replant or cover bare areas as soon as grading or construction are completed;

14. The applicant shall file the final subdivision documents and map with the Land Division;

15. Other terms and conditions as may be prescribed by the Chairperson; and

16. That failure to comply with any of these conditions may render this Conservation District Use Permit null and void.

Should you have any questions on this matter, please contact Traver Carroll of our Planning Branch, at 587-0439.

Please acknowledge your receipt of this permit and acceptance of conditions by signing in the space provided below and returning a copy to us.

Sincerely,

HARRY YADA, Acting Administrator
Land Division

Receipt and acceptance acknowledged:

Signature __________________________  Date ______________

Cc: Kauai Board member
County of Kauai, Planning Department
KDLO/DOFAW/DOH
Ref:0622-02.let

Mr. Ernest Lau
Manager and Chief Engineer
County of Kauai
Department of Water
P.O. Box 1706
Lihue, HI 96766

Dear Mr. Lau:

We have been informed by the Land Division, Department of Land and Natural Resources, that the Conservation District Use Permit (CDUP) allowing the installation of a pump Well No. 0622-02 has expired (see attached memorandum). We understand that you will be submitting a new Conservation District Use Application for approval.

By law, we are prohibited from issuing well development permits in the Conservation District until a CDUP has been approved. As such, we are suspending the pump installation permit for Well No. 0622-02 pending approval of the CDUP, and no pump installation work may commence at this time.

Please notify us in writing when you receive the CDUP, and we will reactivate the pump installation permit. At that time, extension of the start and completion dates will be granted, if necessary.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

LN:ky
Attachment
c. Sam Lemmo, LD
November 29, 2001

Mr. Gilbert S. Coloma-Agaran, Chairperson
State of Hawaii, Department of Land and
Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Coloma-Agaran:

Attn: Mr. Samuel J. Lemmo

Re: Request for re-approval of Conservation District Use Application No. CDUA
KA-2859, and for a Right-of-Entry for the Kauai Department of Water (DOW)
Project for Development of Kapaa Homesteads Well No. 2, TMK 4-6-01:1

As per our discussion with Mr. Samuel J. Lemmo, enclosed are 10 copies of the subject CDUA package that was approved by the Board of Land and Natural Resources (Board) on September 26, 1997. Also included in this transmittal are a copy of the Final Environmental Assessment (EA) for this project, a copy of the staff report prepared at the time of the Board consideration of the CDUA, and a copy of the letter we received indicating the conditions of approval of the CDUA. We understand that we will need to submit payment of a $100.00 application fee; this will be transmitted separately.

This project is for purposes of development of the Kapaa Homesteads Well No. 2 (Well No. 0622-02) as a municipal water source. The well was originally drilled as a cooperative effort between the DOW and the State Division of Water and Land Development (DOWALD) in the late 1980’s. The DOW has completed the engineering design for the well development, and we have obtained all required funding, access easements, etc., and have contracted for construction of the improvements. However, the final engineering, contracting, and access easement negotiations took longer than anticipated; and we were not able to comply with the time requirements of the CDUA, or the pump installation permit we obtained from the Commission on Water Resource Management (CWRM), as required. We are re-applying for the pump installation permit with CWRM separately, but have been informed that the pump installation permit action will be suspended pending re-authorization of the CDUA.

In our review of our records on this project, we have not identified any clear indication of formal approval of a Right-of-Entry for this project, and we therefore are requesting approval of a Right-of-Entry concurrently with the re-authorization of our CDUA.
Finally, for the long term operation of the well as a municipal water source, it would be appropriate for the DOW to establish management control of the well site, we will be requesting that the well site area be withdrawn from the Kealia Forest Reserve, and put under the management of the DOW by Executive Order. We understand that these actions may require submittal of additional information, and may require Board action and the action of other agencies, possibly including County of Kauai subdivision approval. The DOW is committed to completing all measures needed to withdraw the well site from the Forest Reserve and obtain an Executive Order in favor of the DOW for site operation. At this time however, we respectfully request the Chairman to sign the CDUA and Pump Installation Permits as the property owner to allow these permits to be issued and the project to proceed.

We appreciate the assistance that has been provided by your staff in several divisions of the Department of Land and Natural Resources, including Land Division, Forestry, and the CWRM. We are looking forward to completing this project in the near future, and thereby significantly improving available water resources and reliability of the Kapaa public water system.

If you have any questions please do not hesitate to contact me directly, or my project engineer, Mr. Bruce Inouye at (808) 245-5411.

Sincerely,

Ernest Y.W. Lau  
Manager & Chief Engineer

Enclosures

c: Mr. Edwin Petteys, Forestry  
Ms. Linnel Nishioka, CWRM
MEMORANDUM

TO: Ms. Linnel Nishioka, Deputy Director
Commission on Water Resource Management

FROM: Harry Yada, Administrator
DNR, Land Division

SUBJECT: Request for Chairperson's Signature as Landowner

The County of Kauai’s application for a well pump installation permit is being processed for the signature of the Land Board Chairperson, as requested by your August 24, 2001 memorandum.

The subject parcel 1 of tax map key: 4-6-01 on the island of Kauai is 2,340 acres of State-owned land (ceded) situated in the conservation district, all of which, less 5 acres, are designated as the Kealia Forest Reserve by Proclamation No. 66, dated March 25, 1930 and is also a portion of the Kapaa Homesteads at Kapaa, Kauai.

Our division’s planning branch, in response to our inquiry to determine whether the applicant has been issued or has submitted an application for a conservation district use permit replied, "Two permits were issued for that parcel for exploratory wells, but that was 10 years ago. There are no permits in place for well development and ancillary uses. So unless these are nonconforming, they need a permit from us. In fact, the Set Aside should go through a CDUA."

Accordingly, please inform the applicant that it must apply for and be issued a conservation district use permit prior to the transfer of control of the State land to the applicant.

Please direct any questions to Gary Martin at 587-0421.

c: KDLO
Dear Mr. Lau:

Pump Installation Permit
Kapaa Homesteads No. 2 (Well No. 0622-02)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 11:

**Special Conditions**

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

2. Please note the review comments from the Land Division, Department of Land and Natural Resources, related to water licenses (attached).

3. Please enclose the pump specification and rating curve for the installed pump with the Well Completion Report.

4. Condition 3 is modified to allow Kauai Department of Water to submit monthly reports of water use, water levels, chlorides, and temperature on their own forms, provided that the information is submitted in a format that is acceptable to Commission staff.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation 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 starting from the permit approval date.

Please sign and have the contractor sign both permit originals and return one for our files.

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission. Except for the monthly water use report form, please provide copies of all the information in this packet to your pump installation contractor.

If you have any questions, please call Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Aloha,

GILBERT S. COLOMA-AGARAN
Chairperson

Enclosure
PUMP INSTALLATION PERMIT
Kapaa Homesteads No. 2, Well No. 0622-02

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Kapaa Homesteads No. 2 (Well No. 0622-02) at Kapaa Homesteads, Kauai, TMK 4-6-01:01, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which have been modified to include the following conditions:

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

2. The pump installation permit shall be for installation of a 500 gpm rated capacity, or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Chairperson (attached).

4. 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, well operator, and/or well owner are 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.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

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

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. The this permit is also subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

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

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

Date of Approval: November 1, 2001
Expiration Date: November 1, 2003

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 and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: ____________
Printed Name: ___________________________ Firm or Title: ___________________________

Installer's Signature: ___________________________ C-57, C-57a, or A 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.

Attachments:
USGS
Department of Health\Safe Drinking Water & Wastewater Branch
The Department of Health, Clean Water Branch has the following comments:

1. **For Well-Drilling Activities**

   Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. **For Well Pump Testing**

   The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of the initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of that storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

JS/cr
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response  
Alec Wong, Clean Water Branch

FROM: Gilbert S. Coloma-Agaran, Chairperson  
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application  
Kapaa Homesteads No. 2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 29, 2001. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

LN:ky  
Attachment(s)

RESPONSE:

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

[1] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 80 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

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

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

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

[1] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: Alec Wong  
Phone: 586-4309

Signed: Alec Wong  
Date: 10/30/01

010773
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

FROM: Gilbert S. Coloma-Agaran, Chairperson
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application
Kapaa Homesteads No. 2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 29, 2001. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

RESPONSE:

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

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

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

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

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

An NPDES permit is required.

No comments/objections, other relevant DOH rules/regulations, information, or recommendations are attached.

Contact Person: Lori N. Kajiwara
Phone: 586-4294

Signed: Lori N. Kajiwara
Date: 10-31-2001
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoaka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

FROM: Gilbert S. Coloma-Agaran, Chairperson
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application
Kapaa Homesteads No. 2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 29, 2001. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

LiCJ

Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-26.

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

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections.

Contact Person: Stuart Yamada
Phone: 586-4258

Signed: Stuart Yamada
Date: 10/31/01
The Department of Health, Safe Drinking Water Branch has the following additional comments for the Pump Installation Permit Application for the Kapaa Homesteads Well No. 2 (Well No. 2-0622-02 Kauai):

Please be advised that the Department of Health has experienced drinking water and groundwater contamination by submersible pumps containing mercury. Specifically, the failure of the seals of the pumps allowed mercury to leak out into the well shaft resulting in contamination of the well and the water served by the well. If you intend to install a submersible pump, please review your pump specifications to be sure that the submersible pump(s) you propose to use does not contain materials which could result in either groundwater contamination or drinking water contamination.
Transmitted for your review and comment is a copy of the captioned well application which includes a request for a pump installation permit.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by October 29, 2001. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

LN:ky
Attachment(s)
RESPONSE:

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

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

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

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

Kapaa Homestead Well No. 2 was actually drilled by DOWALD between 1988 to 1989. It was an exploratory well originally named Makaleha Well No. 2. Since test results were good, the intent was to turn the well over to County of Kauai DWS for development. However, since the well site is located on State land in the Makaleha Forest Reserve, Kauai DWS must contact the Kauai District Land Office and the Division of Forestry and Wildlife with regards to Land Board requests for: Governor's Executive Order, easements, right-of-entry and anything else deemed necessary. At this time, KDO needs more information from both Kauai DWS and DOWALD about this well project. Also, since the well was drilled by DOWALD with State funds, Kauai DWS must contact DOWALD with regards to water credits.
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response  
Alec Wong, Clean Water Branch  

FROM: Gilbert S. Coloma-Agaran, Chairperson  
Commission on Water Resource Management  

SUBJECT: Pump Installation Permit Application  
Kapaa Homesteads No. 2 (Well No. 0622-02)  

Transmitted for your review and comment is a copy of the captioned well application.  

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by October 29, 2001. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

LN: ky
Attachment(s)

RESPONSE:

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

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: ____________________________ Phone: __________

Signed: __________ Date: __________
TO: Harry Yada, Acting Administrator  
   Land Division

FROM: Linnel T. Nishioka, Deputy Director  
   Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application  
   Kapaa Homesteads No. 2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application which includes a request for a pump installation permit.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. **Please respond by returning this cover memo form by October 29, 2001.** If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

LN:ky
Attachment(s)

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ____________

Signed: ___________________________ Date: ____________
MEMORANDUM

TO: Mr. Gilbert S. Coloma-Agaran, Chairperson
   Board of Land and Natural Resources

FROM: Harry Yada, Acting Land Division Administrator

SUBJECT: Request for Chairperson's Signature as Landowner

As you know, each application for permits issued by the Commission on Water Resource Management requires the signature of the landowner of the property involved. On behalf of the applicant, may we have your signature on the attached permit application, which entails the use of State-owned land?

I have attested to the State's ownership of the property covered in the application, as indicated below. Your signature would allow the permit application to be filed and processed. It would not represent an endorsement of the applicant's proposal or an approval for the use of State land; both approvals would be sought by the applicant under separate actions later.

Please return this memo and the permit application to the Water Commission when you're through. Thank you.

Attach.

AFFIRMATION

I hereby affirm that the State of Hawaii is the owner of that certain parcel of land identified as:

TMK 4-6-01:1 located at Kapaa on the island of Kauai

By: [Signature]

Land Division Administrator

Dated SEP 24 2001
KEALIA FOREST RESERVE

WELL SITE LOCATION (T.M.K.: 4-6-01: 1).

SCALE: 1" = 300'

AREA PLAN
T.M.K. PLATS: 4-6-01 & 4-6-04

PROJECT KAPAA HOMESTEAD WELL NO. 2
KAPAA, KAUAII, HAWAII

FIGURE A3
DATE OCT. 1996
WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL NAME: Kapaa Homesteads Well No. 2 Island: Kauai
   Address: Kapaa Homesteads
   (0 622-02) Tax Map Key: 4 6 .01 .01
   (check all that apply)
   □ Construct New Well  □ Install New Pump*
   □ Modify Existing Well* □ Modify Pump*
   □ Abandon/Seal*  
   *State Well No.: 0622-02 (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION:

5. PROPOSED PUMPING RATE:
   500 gallons per minute

6. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water system)
   □ Irrigation (crop)
   □ No. of Acres: ____________
   □ Military
   □ Other (explain): ________
   □ Industrial
   □ Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? □ Yes □ No
   □ Other: ________

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   480,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flowmeter □ Open-pipe □ Weir □ Orifice □ Other (explain)
   □ Other (explain): ________

OTHER IMPORTANT INFORMATION:

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

9. REMARKS, EXPLANATIONS:
   Request for well site together with pipeline and access easements through Executive Order is in progress.
   (if more space is needed, please attach additional sheet)

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.

For Official Use Only:

Well Owner

Landowner

Contractor

Koga Engineering

Date

Signature

For official use only

Latitude

Aquifer System No.

Longitude

State Well No.

WCP/IPA Form 10/25/00
10. PROPOSED WELL SECTION

(Please attach schematic if different from diagram provided below)

Hole Diameter: ___________ in.

Elevation at top of casing __________ ft., msl*

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

Ground Elevation: __________ ft., msl*

Solid PVC

Stainless Steel:

Thermoset Plastic:

ASS

Open Carbon

Thermoset Plastic:

PVC

Plastic conforming to

Plastic conforming to

Plastic conforming to

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

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,

Bottom Elevation of Well Limit = \( \frac{2 \cdot \text{Water Level Elev.} + \text{Ground Elev.}}{4} \)

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

Solid Casing:

Carbon Steel: compliant with (check one or more): ○ ANSI/AWWA C200 ○ API Spec. 5L ○ ASTM A53 ○ ASTM A139

And compliant with (check one or more): ○ ASTM A242 ○ Type E ○ Type S ○ Grade B ○ Other

Stainless Steel: (check one):

○ ASTM A409 (production wells) ○ ASTM A312 (monitor wells)

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

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

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 D3917

○ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950

○ PTFE Fluorocarbon Tubing conforming to ASTM D3296

○ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:

Carbon Steel: compliant with (check one or more): ○ ANSI/AWWA C200 ○ API Spec. 5L ○ ASTM A53 ○ ASTM A139

And compliant with (check one or more): ○ ASTM A242 ○ Type E ○ Type S ○ Grade B ○ Other

Stainless Steel: (check one):

○ ASTM A409 (production wells) ○ ASTM A312 (monitor wells)

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

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

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 D3917

○ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950

○ PTFE Fluorocarbon Tubing conforming to ASTM D3296

○ FEP Fluorocarbon Tubing conforming to ASTM D3296
Mr. Ernest Y.W. Lau  
Manager and Chief Engineer  
County of Kauai  
Department of Water  
P.O. Box 1706  
Lihue, HI 96766  

Dear Mr. Lau:

Pump Installation Permit Application for Well No. 0622-02

We have received your Pump Installation permit application for the Kapaa Homesteads No. 2 (Well No. 0622-02). We have forwarded your application to the current landowner, State of Hawaii, for an authorized signature to complete your application.

Upon receipt of the signed application, your application will be considered complete and you can then expect your application to be processed within ninety (90) days.

If you have any questions about your permit application, please contact Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

LN:ky
MEMORANDUM

TO: Mr. Harry Yada, Acting Land Division Administrator
FROM: Linnel Nishioka, Deputy Director, Commission on Water Resource Management
SUBJECT: Request for Chairperson's Signature as Landowner

The attached permit application entails the use of State-owned land and, accordingly, requires the signature of the Chairperson as the landowner. Here, we are requesting your help in affirming the State's ownership of the property and, thereafter, routing the application to the Chairperson for his signature. (We have enclosed the appropriate transmittal memo that contains the affirmation statement.)

Please note that the Chairperson's signature on the permit application completes the application and allows it to be accepted for processing by the Commission. The signature neither represents an endorsement of the applicant's proposal nor an approval for the use of State land; both approvals would be sought by the applicant under separate actions later.

Please inform us if the proposed project is in the Conservation District and, if so, whether the requirements of Chapter 343 have been met.

Lastly, please inform us of the contact person at Land Division who is responsible for transmitting the attached original applications to the Chairperson's office.

LN:ky
Attach.
**PUBLIC RECORD DATA**

**TMK # 4-4-6-1-1**

**Owner:** STATE OF HAWAII
**Tax Payer:** STATE OF HAWAII

**Tenure:** Govt Owned  
**Semi-Annual Tax:** $0.00

**Assessed Value** | **Exemption** | **Size** | **Buildings** | **Dwellings** |
--- | --- | --- | --- | --- |
Land: | $934,000 | $934,000 | 2,335.00 ac | 0 |
Buildings: | $2,700 | $2,700 | 0 sq ft | 3 |
Total: | $936,700 | $936,700 | | |

**Condo Name:**  
**Condo Type:**  
**Condo style:**  
**Floor:** 0  
**View:**  
**Condo interest:** 0%  
**Parking spaces:** 0

**Common property:**

**RESIDENTIAL BUILDING DETAILS**

| TMK # 4-4-6-1-1 | Bldg 1 of 3 | Card 1 of 3 |
--- | --- | --- |
**Year Built:** 0 | Style: Non-Dwelling | Bidg Type: () |
**Effective year built:** 0 | Stories: 0 | Occupancy: |
**Physical condition:** | Shape: | Framing: |
**Cost & Design Factor:** 0% | Roof Structure: | Exterior Wall: |
**Economic Factor:** 0% | Roof Material: | Interior Wall: |
**Percent complete:** 0% | Roof Design: | Flooring: |
**Gross building value:** $0 | Foundation: | Floor Construction: |
**Building value:** $1,500 | Basement: | Ceiling: |
**Class:** Other | Central AC/Heat: | Attic: |

**FLOOR AREAS**

| LLLA | Family Rms | 0 |
| 1st Story | 0 | Bedrooms | 0 | Full Baths | 0 |
| 2nd Story | 0 | Rec Rooms | 0 | Half Baths | 0 |
| Addl Story | 0 | Total Rms | 0 | Add'l Fixt. | 0 |
| Half Story | 0 |
| TOTBLDG 1 | 0 | Rec Room area | 0 | (0X0) |
| Attic | 0 |
| Unfin Bsmt | 0 |

**BATHS**

<p>| | |</p>
<table>
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<tr>
<th></th>
<th></th>
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**OTHER RESIDENTIAL BUILDING IMPROVEMENTS**

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<td>Wd c pt bit/cnc flr</td>
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<td>C</td>
<td>A</td>
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</tbody>
</table>

4-4-6-1-1 Building 1

No sketch available from tax office

**RESIDENTIAL BUILDING DETAILS**

| TMK # 4-4-6-1-1 | Bldg 2 of 3 | Card 2 of 3 |
--- | --- | --- |
**Year Built:** 0 | Style: Non-Dwelling | Bidg Type: () |
**Effective year built:** 0 | Stories: 0 | Occupancy: |
**Physical condition:** | Shape: | Framing: |
**Cost & Design Factor:** 0% | Roof Structure: | Exterior Wall: |
**Economic Factor:** 0% | Roof Material: | Interior Wall: |
**Percent complete:** 0% | Roof Design: | Flooring: |
**Gross building value:** $0 | Foundation: | Floor Construction: |
**Building value:** $600 | Basement: | Ceiling: |
**Class:** Other | Central AC/Heat: | Attic: |

http://webre2.hawaiiinformation.com/REsearch/Asp/Functions/Property/SearchTMK.asp?FRM: 8/22/01
LICENSE SCREEN

[ Look up License Type Codes-> ]
Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

LIC ID: CT-6826  Active/Inactive: ACTIVE
NAME: KOGA ENGINEERING & CONSTRUCTION INC
TRADE NAME:
STATUS: CURRENT, VALID & IN GOOD STANDING
ENTITY: CORPORATION  BUSINESS CODE:
ORIG LIC DATE: 11/20/73  EXPIRE DATE: 9/30/02
CLASS PREFIX: ABC  SPECIAL PRIVILEGE:
RESTRICION:  EDUCATION CODE:
BUSINESS ADDR: 316 CENTRAL WAY  HONOLULU HI 96819
MAILING ADDR: P O BOX 31289  HONOLULU HI 96820

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 || EMPLOYERS LIST || INSURANCE/BOND || LICENSE CLASS

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Hawaii State homepage || DCA || Professional and Vocational Licensing Division
August 9, 2001

Commission on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, HI 96809

Gentlemen:

Subject: Pump Installation Permit for Kapaa Homesteads Well No. 2 (0622-02), Kapaa, Kauai, Hawaii

We are enclosing three (3) copies of the completed Pump Installation Permit for the subject well.

If there are any questions, please contact Bruce Inouye at (808)245-5411.

Sincerely,

Ernest Y.W. Lau
Manager and Chief Engineer

Enclosures (3)
July 23, 2001

Ref: dws6.let

Mr. Ernest Y.W. Lau
Manager and Chief Engineer
County of Kauai
Department of Water Supply
P.O. Box 1706
Lihue, HI 96766

Dear Mr. Lau:

Notice of Permit Expiration
Pump Installation Permit for Well No. 0622-02
Well Construction Permit for Well No. 1125-03

Per our July 20, 2001 telephone conversation with your staff, we understand that no work was done under the above-referenced permits that expired on February 2, 2001 and July 21, 2001, respectively. As such, these permits have been cancelled as of their expiration dates.

Please do not forget to apply for new permits should you decide to go forward with these projects in the future. (Please visit our website at www.state.hi.us/dlnr/cwrm to download updated application forms.)

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

LN:ky
MEMORANDUM FOR THE RECORD

From: Lenore Nakama
Subject: Expired Pump Installation Permit for 0622-02

Contacted Bruce Inouye of Kauai DWS on 7/20/01 to inquire as to the status of the pump installation in 0622-02 under the pump installation permit that expired on 2/2/01. He said that no work was done although they are in the bid process. He said no problem to cancel the permit as of the expiration date. They will apply for new permit since this one is long expired. I mailed him the current application form and a copy of the old application.
Mr. Ernest Y.W. Lau  
Manager and Chief Engineer  
County of Kauai  
Department of Water  
P.O. Box 1706  
Lihue, HI 96766  

Dear Mr. Lau:

A review of our records show that we have not yet received signed permits for well construction/pump installations for the following wells:

<table>
<thead>
<tr>
<th>Permit Type</th>
<th>Well No.</th>
<th>Well Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Construction</td>
<td>1125-03</td>
<td>Kilauea 3</td>
</tr>
<tr>
<td>Pump Installation</td>
<td>0023-02</td>
<td>Pukaki</td>
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<tr>
<td>Pump Installation</td>
<td>5824-09</td>
<td>Puhi 5B</td>
</tr>
<tr>
<td>Pump Installation</td>
<td>0622-02</td>
<td>Kapaa Homesteads 2</td>
</tr>
</tbody>
</table>

Please return a fully signed copy of the permit to us and keep the second copy for your record. Any work shall not commence until all required signatures are obtained and submitted to the Commission on Water Resource Management.

If you have any questions, please contact Lenore Nakama at 587-0218 or toll-free at 274-3141, extension 70218.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director 

LN:ss
Mr. Ernest Lau  
Manager and Chief Engineer  
County of Kauai  
Department of Water  
P.O. Box 1706  
Lihue, Hawaii 96766

Dear Mr. Lau:

Pump Installation Permit  
Kapaa Homesteads #2 (Well No. 0622-02)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) which authorizes permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 11:

Special Conditions

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

2. Kauai Department of Water may submit monthly reports of water use, water levels, chlorides, and temperature on their own forms, provided that the information is submitted in a format that is acceptable to the Commission staff.

3. The permittee shall obtain the signature of a licensed contractor (C-57, C-57a, or A) on the permit and return an executed copy of the permit to the Commission prior to the start of any work authorized by this permit.

The permittee is responsible for all conditions of the permit. This includes ensuring that the pump installation contractor, or other party who installs the pump, submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation 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 starting from the date of this permit approval.

To validate your pump installation permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - Unless specifically exempted, pump installation may not proceed without a validated permit returned to the Commission. Please provide copies of all the information in this packet to your pump installation contractor.

Finally, this letter is notice that we have accepted the Well Completion Report - Part I as complete.

If you have any questions, please call the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Aloha,

for: TIMOTHY E. JOHNS  
Chairperson

Enclosures
PUMP INSTALLATION PERMIT

Kapaa Homesteads Well #2, Well No. 0622-02

in accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Kapaa Homesteads Well #2 (Well No. 0622-02) at Kapaa Homesteads, Kauai, TMK 4-6-01:01, 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 to the Commission on Water Resource Management (Commission), P.O. Box 521, Honolulu, HI 96809, shall be notified in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.
2. The pump installation permit shall be for installation of a 500 gpm capacity, or less, pump in the well.
3. The permittee shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Chairperson.
4. 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 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.
5. The permittee shall provide and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.
6. The permittee shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.
7. The pump installation permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.
9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.
10. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.
11. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: February 2, 1999
Expiration Date: February 2, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the pump installer have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: ____________
Printed Name: ___________________________ Firm or Title: ___________________________

Installer'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.

Attachments

C: USGS
Department of Health/ Safe Drinking Water & Wastewater Branches
State of Hawaii, Department of Land and Natural Resources
TO: Honorable Bruce Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application  
Kapaa Homesteads Well #2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by January 18, 1999.

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

RESPONSE:

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

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

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

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

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

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

No comments/objections

Contact Person: William Wong  
Phone: 586-4258

Signed: William Wong  
Date: 1/21/99
The Department of Health, Clean Water Branch has the following comments:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Chapter 11-55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering state waters. Such measures shall include, if necessary, containment of the initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of that storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

JS/cr
TO: Honorable Bruce Anderson, Director
    Department of Health
    Attention: Dennis Tulang, Wastewater Branch
             William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
      Commission on Water Resources Management

SUBJECT: Pump Installation Permit Application
         Kapaa Homesteads Well #2 (Well No. 0622-02)

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

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

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

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

No comments/objections

Contact Person: Lori N. Kajiwara

Phone: 586-4294

Signed: Lori N. Kajiwara

Date: 1-19-99
Mr. Ernest Lau
Manager and Chief Engineer
County of Kauai
Department of Water
P.O. Box 1706
Lihue, HI 96766

Dear Mr. Lau:

Pump Installation Permit Application for Well No. 0622-02

We acknowledge receipt, on December 18, 1998, of your completed pump installation permit application for the Kapaa Homesteads Well #2 (Well No. 0622-02). You can expect your application to be processed within ninety (90) days from this date.

If you have any questions about your permit application, please contact Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Sincerely,

TIMOTHY E. JOHNS
Deputy Director

LN:ss
TO: Honorable Bruce Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

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LN:ss  
Attachment(s)

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

No comments/objections

Contact Person: ___________________________ Phone: ________________

Signed: ___________________________ Date: ________________
MEMORANDUM

TO: Mr. Michael D. Wilson, Chairperson
Board of Land and Natural Resources

FROM: Dean Uchida, Administrator
Land Division

SUBJECT: Request for Chairperson's Signature as Landowner

As you know, each application for permits issued by the Commission on Water Resource Management requires the signature of the landowner of the property involved. On behalf of the applicant, may we have your signature on the attached permit application which entails the use of State-owned land?

I have attested to the State's ownership of the property covered in the application, as indicated below. Your signature would allow the permit application to be filed and processed. It would not represent an endorsement of the applicant's proposal or an approval for the use of State land; both approvals would be sought by the applicant under separate actions later.

Please return this memo and the permit application to the Water Commission when you're through.

Attachment

AFFIRMATION

I hereby affirm that the State of Hawaii is the owner of that certain parcel of land identified as:

TMK 4th/4-6-1: 0 located at Wailua, Kauai on the island of Kauai.

By ____________________________
Land Management Administrator
Dated 12/14/98
APPLICATION FOR PERMIT
☐ Well Construction or ☐ Pump Installation

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact A, B, or C)
   (a) WELL OWNER
   Firm Name: Department of Water, County of
   Contact Person: Ernest Lau Ph: 245-5818
   Address: P.O. Box 1706
   Lilue, HI 96766
   (c) CONTRACTOR
   Firm Name: To be determined after
   Contact Person: bid opening
   Address:

2. WELL LOCATION/NAME: Kapaa Homesteads Well #2 (0622-02) Island Kauai
   Address: Kapaa Homesteads
   Tax Map Key: 4-6-01:00

3. (a) PROPOSED WORK: □ Drill New Well □ Deepen □ Install New Pump
    □ Modify Existing Well □ Redrill □ Modify Pump
    □ Abandon/Seal * □ Replace 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: 500 gallons per minute
   (If Pump Replacement, Existing Pump Capacity: ___________ gallons per minute)
   Pump Type:
    □ Deep Well Turbine □ Rotary □ Submersible
    □ Rotary-Displacement □ Reciprocating □ Centrifugal
    □ Rotary-Gear □ Impulse □ Other:
    Motor:
    □ Diesel □ Gas □ Electric, rated horsepower:

5. PROPOSED USE:
    □ Domestic (individual, noncommercial water syst.) □ Industrial
    □ Irrigation (crop) □ Other:
    □ Military

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 480,000 gallons per day
    (b) METHOD OF FLOW MEASUREMENT:
    □ Flow-meter □ Open-pipe □ Orifice Plate □ Weir

7. PENDING ACTIONS:
   □ CDUA □ SMA □ EIS □ EA □ NONE □ Other (explain):
   Completion Date:

8. REMARKS, EXPLANATIONS: Request for well site together with pipeline and access easements through Executive Order is in progress.

   (If more space is needed, continue on back)

[Signature]
Date

Well Owner: Department of Water

[Signature]
Date

PENDING ACTION: Approving of Permit

[Signature] Contractor after Bid opening

Department of Water

[Signature]
Date

For Official Use Only:

Date Received ____________________
Date Accepted ____________________
Field Checked By ____________________
Date ____________________

Longitude ____________________
Latitude ____________________

Aquifer System Name ____________________
State Well No. ____________________

93597 WCIA Form
9. PROPOSED WELL SECTION

Elevation at top of casing
________ ft., msl

Cement Grout: __________ ft.

Rock Packing: __________ ft.

Hole Diameter: __________ in.

Total Depth: __________ ft.

Ground Elevation: __________ ft., msl

Solid Casing:
Material
Length: __________ ft.
Diameter: __________ in.
Wall thickness: __________ in.

Casing: [ ] Perforated [ ] Screen
Material
Length: __________ ft.
Diameter: __________ in.
Wall thickness: __________ in.
Openings: __________ sq. in./ft.

Open Hole:
Length: __________ ft.
Diameter: __________ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
TO: Mr. Dean Uchida, Administrator  
Land Division
FROM: Timothy E. Johns, Deputy Director  
Commission on Water Resource Management
SUBJECT: Request for Chairperson’s Signature as Landowner

The attached permit application entails the use of State-owned land and, accordingly, requires the signature of the Chairperson as the landowner. Here, we are requesting your help in affirming the State’s ownership of the property and, thereafter, routing the application to the Chairperson for his signature. (We have enclosed the appropriate transmittal memo that contains the affirmation statement.)

Please note that the Chairperson’s signature on the permit application completes the application and allows it to be accepted for processing by the Commission. The signature neither represents an endorsement of the applicant’s proposal nor an approval for the use of State land; both approvals would be sought by the applicant under separate actions later.

LN:ss  
Attachment
TO:       Mr. Dean Uchida, Administrator  
          Land Division  
FROM:  Timothy E. Johns, Deputy Director  
        Commission on Water Resource Management  
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LN:ss  
Attachment
APPLICATION FOR PERMIT

1. APPLICANT: (circle primary contact b, or c) Primary Fax: 245-5813
   (a) WELL OWNER
   Firm Name: Department of Water, County of Kauai
   Contact Person: Ernest Lau
   Address: P.O. Box 1706
   Lihue, HI 96766
   (c) CONTRACTOR
   Firm Name: To be determined after
   Contact Person: Bid opening
   Address

2. WELL LOCATION/NAME: Kapaa Homesteads Well #2 (0622-02)
   Island: Kauai
   Address: Kapaa Homesteads
   Tax Map Key A-6-0101
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referred to established property boundaries.

3. (a) PROPOSED WORK:
   Drill New Well
   Deepen
   Install New Pump
   Modify Existing Well
   Redrill
   Modify Pump
   Abandon/Seal *
   Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   Dug
   Bored
   Driven
   Drilled
   Radial

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: _______________ gallons per minute
   Motor:
   Deep Well Turbine
   Rotary
   Submersible
   Rotary-Displacement
   Centrifugal
   Propeller
   Reciprocating
   Impulse
   Electric, rated horsepower: _______________
   If Pump Replacement, Existing Pump Capacity: _______________ gallons per minute

5. PROPOSED USE:
   Municipal (including hotels, stores, etc.)
   Industrial
   Domestic (individual, noncommercial water sys.)
   Irrigation (crop) # Dwelling Units
   # Acres
   Military
   Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: ___________________ gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   Flow-meter
   Open-pipe
   Office Plate
   Weir

7. PENDING ACTIONS:
   CDUA
   SMA
   EIS
   EA
   NONE
   Other (explain)
   Completion Date: ___________________

8. REMARKS, EXPLANATIONS:
   Request for well site together with pipeline and access easements through Executive Order is in progress.

   ___________________ ___________________
   ___________________ ___________________

   ___________________ ___________________
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   ___________________ ___________________
   ___________________ ___________________

   ___________________ ___________________
   ___________________ ___________________
9. PROPOSED WELL SECTION

Elevation at top of casing

Ground Elevation: ______ ft., msl

Cement Grout: ______ ft.

Rock Packing: ______ ft.

Hole Diameter: ______ in.

Total Depth: ______ ft.

Solid Casing:
Material
Length: ______ ft.
Diameter: ______ in.
Wall thickness: ______ in.

Casing:  □ Perforated  □ Screen
Material
Length: ______ ft.
Diameter: ______ in.
Wall thickness: ______ in.
Openings: ______ sq. in./A.F.

Open Hole:
Length: ______ ft.
Diameter: ______ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
KEALIA FOREST RESERVE

WELL SITE LOCATION
(T.M.K.: 4-6-01: 1).

PROJECT AREA PLAN
T.M.K. PLATS: 4-6-01 & 4-6-04

PROJECT KAPAA HOMESTEAD WELL NO. 2 KAPAA, KAUA'I, HAWAII

DATE OCT. 1996
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
   Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application
   Kapaa Homesteads Well #2 (Well No. 0622-02)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by December 19, 1997.

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

RESPONSE:

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

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

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

No comments/objections

Contact Person: Lori N. Kajiwara
   Phone: 586-4294

Signed: Lori N. Kajiwara
   Date: 12-1-97
TO:  Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application  
Kapaa Homesteads Well #2 (Well No. 0622-02)

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LN:ss
Attachment(s)

RESPONSE:

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

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

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

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

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

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

[ ] No comments/objections

Contact Person: William Wong

Phone: 586-4258

Signed: William Wong

Date: 11/26/97
Mr. Ernest Y.W. Lau  
Manager and Chief Engineer  
Kauai Department of Water  
P.O. Box 1706  
Lihue, HI  96766-5706

Dear Mr. Lau:

Pump Installation Permit Application for Well No. 0622-02

We have received your pump installation permit application for the Kapaa Homesteads Well #2 (Well No. 0622-02). However, your application is incomplete. Matters which must be addressed before we accept your application as complete are as follows:

1. Please notify us when the Executive Order is approved and Kauai DWS assumes landownership at the well site.

To expedite the permitting process, we have routed your incomplete application to the Department of Health for their review. However, we are not able to issue a permit until landownership issues are resolved.

Also, we are returning your check for $25.00; government agencies are exempt from the filing fee.

If you have any questions about your permit application, please contact Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss  
Attachment
October 30, 1997

Ms. Rae Loui
Commission on Water Resource Management
Dept. of Land & Natural Resources
P. O. Box 621
Honolulu, HI 96809

Dear Ms. Loui:

SUBJECT: Job No. 86-7, Kapaa Homesteads Well #2 (0622-02) Pump, Controls and Connecting Pipelines, Kapaa, Kauai

Enclosed is a pump installation permit application, together with a check in the amount of $25.00 (filing fee) for the subject project. Our estimated time line for the project is:

Construction plans completed End 1997
Begin construction April, 1998
End construction April, 1999

If there are any questions, please call Mel Matsumura at (808) 245-5410.

Sincerely,

Ernest Y. W. Lau
Manager and Chief Engineer

MM:ls
Enclosure
C:\\\ls\loui.doc
APPLICATION FOR PERMIT
   □ Well Construction or □ Pump Installation

Instructions: Please print in ink or type, attach required maps, and send the completed application & two (2) copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. This application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance in completing this application, please call the Commission's Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: 245-5913
   (a) WELL OWNER
      Firm/Name: Department of Water, County of Kauai
      Contact Person: Ernest Law Ph: 245-5241
      Address: P.O. Box 1706
      Lihue, HI 96766
   (b) LANDOWNER (Pending approval of Executive Order)
      Firm/Name: Department of Water
      Contact Person: Ph: 245-5913
      Address: P.O. Box 1706
      Lihue, HI 96766
   (c) CONTRACTOR
      Firm/Name: To be determined after Bid opening
      Contact Person bid opening:
      Contractor's License No. (Please circle type: C-57, or C-57a, Gen.'A)  

2. WELL LOCATION/NAME: Kapaa Homesteads Well #2 (0622-02) Island Kauai
   Address: Kapaa Homesteads Tax Map Key 4-6-01-01  
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location established to property boundaries.

3. (a) PROPOSED WORK:  
      □ Drill New Well  □ Deepen  □ Install New Pump  
      □ Modify Existing Well  □ Relaid  □ Modify Pump  
      □ Abandon/Seal  *  □ Replace 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: 500 gallons per minute
   Pump Type:  
      □ Deep Well Turbine  □ Rotary  □ Propeller  
      □ Submersible  □ Rotary-Displacement  □ Reciprocating  
      □ Centrifugal  □ Rotary-Gear  □ Impulse  
   Motor:  
      □ Electric, rated horsepower:  
   If Pump Replacement, Existing Pump Capacity:  
   gallons per minute

5. PROPOSED USE:  
   □ Municipal (including hotels, stores, etc.)  □ Industrial  
   □ Domestic (individual, noncommercial water sys.)  □ Dwelling Units  
   □ Irrigation (crop)  □ Acres  
   □ Military  □ Other:  

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 480,000 gallons per day  
   (b) METHOD OF FLOW MEASUREMENT: □ Flow-meter  
   □ Orifice Plate  □ Open-pipe  □ Weir

7. PENDING ACTIONS:  
   □ CDUA  □ SMA  □ EIS  □ EA  □ NONE  □ Other(explain)
   Completion Date:

8. REMARKS, EXPLANATIONS: Request for well site together with pipeline and access easements through Executive Order is in progress.

   (If more space is needed, continue on back)
9. PROPOSED WELL SECTION

Elevation at top of casing  

Ground Elevation: ____ ft., msl

Cement Grout: ____ ft.

Rock Packing ____ ft.

Solid Casing:

<table>
<thead>
<tr>
<th>Material</th>
<th>Length</th>
<th>Diameter</th>
<th>Wall thickness</th>
</tr>
</thead>
</table>

Hole Diameter: ____ in.

Total Depth ____ ft.

Casing: [] Perforated  [] Screen

<table>
<thead>
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<th>Length</th>
<th>Diameter</th>
<th>Wall thickness</th>
<th>Openings sq. in./f.t.</th>
</tr>
</thead>
</table>

Open Hole:

<table>
<thead>
<tr>
<th>Length</th>
<th>Diameter</th>
</tr>
</thead>
</table>

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
MAJORAGE ON WATER RESOURCE MANAGEMENT

FROM: [Name]  DATE: 10/16/97
SUSPENSE DATE: ________________________________

TO: BAUER, G.  INIT: ___
    CHING, F.  INIT: ___
    FUJII, N.  TO: LOUI, R.  INIT: ___
    HARDY, R.  INIT: ___
    HIGA, D.  INIT: ___
    HIRANO, E.  TO: NAKAMA, L.  INIT: ___
    ICE, C.  INIT: ___
    IMATA, R.  INIT: ___
    JINNAI, R.  INIT: ___
    KUNIMURA, I.  TO: NAKANO, D.  INIT: ___
    OHYE, M.  INIT: ___
    SAKODA, E.  INIT: ___
    SUBIA, S.  INIT: ___
    SWANSON, S.  INIT: ___
    UWANE, J.  INIT: ___
    YODA, K.  INIT: ___

FOR: Approval  Signature  Information

PLEASE: See Me  Review & Comment  Take Action
        Type Draft  Type Final
        File & Submit  Xerox copies

Based on the data, this looks like Malahe II (we have no record of a Kepau Homestead Well No. 2). This is one of those newly developed wells; if we (in the State) did not submit a WCR for the construction, although we have the pump test data, div. survey data, etc. No PPA submitted yet, but we did a doc. review on 6/14/97 and pointed out there that a PPA is required.
Ref. PB:THE

Mr. Grant Gerrish
P.O. Box 282
Laupahoehoe, Hawaii 96764

Dear Mr. Gerrish,

Subject: Conservation District Use Application (CDUA) for completion and operation of the Kapaa Homesteads Well No. 2 in the Kealia Forest Reserve, Kauai (TMK: 4-6-01:1)

I am pleased to inform you that the subject CDUA was approved by the Board of Land and Natural Resources on September 26, 1997, subject to the following conditions:

1. The applicant shall comply with all applicable statutes, ordinances, rules and regulations of the Federal, State and County governments;

2. The applicant shall comply with all applicable Department of Health recommendations and administrative rules relating to potable water systems, air quality and fugitive dust, and community noise control;

3. All water resources shall be used on a sustainable basis;

4. The applicant shall obtain the necessary pump installation permit from the Commission on Water Resource Management (Commission);

5. The applicant shall adhere to the Commission's recommendations with respect to the pump capacity of 500 gallons per minute and the setting of the pump intake at mean sea level;

6. That all mitigation measures set forth in the application and final environmental assessment for this project are hereby incorporated as conditions of approval;

File No.: CDUA KA-2859
7. The applicant shall submit at least four (4) sets of the construction plans and specifications to the Chairperson or the Chairperson's authorized agent for approval with the declarations set forth in the permit application. One (1) copy will be retained by the Department, and the rest will be returned to the applicant. Plan approval by the Chairperson does not infer approval required by other agencies. Compliance with Conditions 1 and 2 remain the responsibility of the applicant;

8. The applicant shall notify the Department when construction is initiated and when construction is completed;

9. Project-related work on the land shall be initiated within one (1) year from the date of this approval, and all construction must be completed within three (3) years of the approval;

10. That in issuing this permit, the Department and Board has relied on the information and data that the permittee has provided in connection with this permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended or revoked, in whole or in part, and/or the Department may, in addition, institute appropriate legal proceedings;

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

12. That failure to comply with any of these conditions shall render this Conservation District Use Application null and void; and

13. Other terms and conditions as prescribed by the Chairperson.

We note the project action includes the legal subdivision of TMK 4-6-01:1 to create a new parcel containing the well-site, and the anticipation that this new parcel will be conveyed from the State to the County of Kauai by Executive Order. Please contact the Kauai District Land Office at 274-3491 to initiate these elements of the project.

If you have any additional questions, please contact Tom Eisen of our Planning Division at 587-0386.
Please acknowledge receipt of this permit by signing in the space provided below and returning a copy to us.

Sincerely,

DEAN UCHIDA, Administrator
Land Division

Receipt acknowledged:

Signature Date

cc: Chairperson's office
Kauai Boardmember
KDLO
CWRM
DOH
County of Kauai, Dept. Of Water
TO: Mr. Dean Uchida, Administrator
Land Division
FROM: Rae M. Loui, Deputy Director
Commission on Water Resource Management (CWRM)
SUBJECT: Comments on Conservation District Use Application
County of Kauai, Department of Water, Completion and Operation of Kapaa Homesteads Well #2
FILE NO.: KA-2859

Thank you for the opportunity to review the subject document. Our comments related to water resources are marked below.

In general, the CWRM strongly promotes the efficient use of our water resources through conservation measures and use of alternative non-potable water resources whenever available, feasible, and there are no harmful effects to the ecosystem. Also, the CWRM encourages the protection of water recharge areas which are important for the maintenance of streams and the replenishment of aquifers.

[ ] We recommend coordination with the county government to incorporate this project into the county’s Water Use and Development Plan.

[ ] We are concerned about the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer’s acceptance of any resulting requirements related to water quality.

[ ] A Well Construction Permit and a Pump Installation Permit from the CWRM would be required before ground water is developed as a source of supply for the project.

[ ] The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit from the CWRM would be required prior to use of this source.

[ ] Groundwater withdrawals from this project may affect streamflows. This may require an instream flow standard amendment.

[ ] We recommend that no development take place affecting highly erodible slopes which drain into streams within or adjacent to the project.

[ ] If the proposed project diverts additional water from streams or if new or modified stream diversions are planned, the project may need to obtain a stream diversion works permit and petition to amend the interim instream flow standard for the affected stream(s).

[ ] Based on the information provided, it appears that a Stream Channel Alteration Permit pursuant to Section 13-169-50, HAR will be required before the project can be implemented.

[ ] Based on the information provided, it does not appear that a Stream Channel Alteration Permit pursuant to Section 13-169-50, HAR will be required before the project can be implemented.

[ ] An amendment to the instream flow standard from the CWRM would be required before any streamwater is diverted.

[ ] Any new development that is permitted along a stream that is not yet channelized should be based on the express condition that no streams will be channelized to prevent flooding of the development. Development in the open floodplain should not be allowed; other economic uses of the floodplain should be encouraged.

[ ] OTHER:

A pump installation permit from the Commission on Water Resource Management (Commission) is required prior to the installation of a pump in the well.

The document correctly represents the recommendations of the Commission with respect to the pump capacity of 500 gpm and the setting of the pump intake at mean sea level.

If there are any questions, please contact Lenore Nakama at 587-0218.
October 19, 1990

Mr. Bruce Anderson  
Department of Health  
P. O. Box 3378  
Honolulu, HI 96801


In order to lessen the confusion of well facilities identification, effective immediately, the following Department of Water's well facilities will be renamed as follows:

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Old Well Name</th>
<th>New Well Name</th>
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</thead>
<tbody>
<tr>
<td>0623-04</td>
<td>Makaleha Well A (incl. well)</td>
<td>Kapaa Homesteads Well 1</td>
</tr>
<tr>
<td>5824-01</td>
<td>Kauai Community College Well</td>
<td>Puhi Well 1</td>
</tr>
<tr>
<td>5824-03</td>
<td>Kilohana Well E</td>
<td>Puhi Well 2</td>
</tr>
</tbody>
</table>

Please make the necessary adjustments to reflect this change within your respective divisions. If you have any questions, please call Gregg Fujikawa at 245-6986.

Raymond H. Sato  
Manager and Chief Engineer

GF:rm  
cc: Clean Water Branch, DOH  
    Wastewater Branch, DOH  
    Kauai District Office, Environmental Health Services - DOH
Mr. Raymond H. Sato  
Manager and Chief Engineer  
Department of Water  
County of Kauai  
P.O. Box 1706  
Lihue, Hawaii 96766

Dear Mr. Sato:

Makaleha No. II (Well No. 0622-02)

We have reviewed the data from our pumping test conducted on Makaleha No. II on November 27 to 28, 1989. Both Makaleha I and II react in a similar way to pumping and we conclude that both tap the same high-level aquifer.

A six-day pumping test conducted by your staff in May and June, 1986, produced a drawdown of almost 140 ft. at a pumping rate of about 1,000 gallons per minute. Although the chloride levels were excellent, the drawdown did not stabilize.

We understand that a 1,000-gpm pump is presently installed in Makaleha No. I, but is not yet in service. We recommend that water level be carefully monitored once the well is put into production. We further recommend that a pump with a capacity no greater than 500 gpm be installed in Makaleha II, and that the pump intake be set at mean sea level. We recommend that pumpage, chloride, and water level be carefully monitored at both wells on a continual long-term basis. We do not have enough data at present to determine the safe yield of the aquifer. We do not believe, given the present data, that the aquifer can produce 1,500 gpm on a long-term basis.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

ES:bm
Esaki Surveying & Mapping, Inc.

SURVEYING / CIVIL ENGINEERING / PLANNING
3145-E Akahi Street • Lihue, Kauai, Hawaii 96766 • Telephone: (808) 246-0625 • FAX: 246 0229

CERTIFICATE OF SURVEYOR

MAKALEHA WELL NO. 2

The undersigned hereby certifies to Paul Frandsen & Associates with respect to Makaleha Well No. 2 that the Elevation at the top of the well casing as of the below date is 524.27 feet, M.S.L.

ESAKI SURVEYING AND MAPPING, INC.

March 1, 1990
Lihue, Hawaii

Dennis M. Esaki
Registered Land Surveyor
Certificate Number 4383
March 12, 1990

Mr. Raymond Sato  
Manager and Chief Engineer  
Department of Water  
County of Kauai  
P. O. Box 1706  
Lihue, Kauai 96766

Dear Mr. Sato:

Enclosed for your information and files are the results of the analyses from a water sample collected from Makaleha II Well (Well No. 0622-02), Kauai, on November 9, 1989.

If you have any questions, please call Ed Sakoda at 548-7543.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

MO:fc

Encl.
SITE ID: 220631159224301  LAB ID NO.: 3600139  PROJECT: 471500200
STATION NAME: 2-0622-02, MAKALEHA WELL II, ISLAND OF KAUAI  STATE: HI
BEGIN DATE: 11-28-1989 AT 1600  END DATE: AT  COUNTY: 007

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<td>WATER TEMPERATURE</td>
<td>(DEGREES) FARENHEIT</td>
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<th>ANIONS</th>
<th>(MG/L)</th>
<th>(MEQ/L)</th>
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<td>Lab</td>
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TOTAL 1.150  TOTAL 1.197

PERCENT DIFFERENCE - -1.99
Mr. Manabu Tagomori
Deputy for Water Resources Management
Division of Water and Land Development
State of Hawaii
P.O. Box 373
Honolulu, Hawaii 96809

Dear Mr. Tagomori:

Enclosed are the results of the analyses of a water sample collected from Makaleha Well II, 02-0622-02, Island of Kauai, on November 9, 1989, at 1600 hrs.

The data will be stored in our computers in Reston, Virginia. Please call us if you have any questions.

Sincerely,

William Meyer
District Chief

Enclosure
### Parameter Name | Units | Value
--- | --- | ---
WATER TEMPERATURE | (DEGREES) CELCIUS | 23.5
WATER TEMPERATURE | (DEGREES) FARENHEIT | 74
NO2 + NO3 DISSOLVED | (MG/L AS N) | 0.100
HARDNESS TOTAL | (MG/L AS CAO3) | 34
CALCIUM DISSOLVED | (MG/L AS CA) | 6.0
MAGNESIUM DISSOLVED | (MG/L AS MG) | 4.6
SODIUM DISSOLVED | (MG/L AS NA) | 10
SODIUM ADSORPTION R. | (RATIO) | 0.7
SODIUM, PERCENT | PERCENT | 38
POTASSIUM DISSOLVED | (MG/L AS K) | 1.4
CHLORIDE DISSOLVED | (MG/L AS CL) | 11
SULFATE DISSOLVED | (MG/L AS SO4) | 2.0
FLUORIDE DISSOLVED | (MG/L AS F) | 0.10
SILICA DISSOLVED | (MG/L AS SIO2) | 36
ARSENIC TOTAL | (UG/L AS AS) | 1
BARIUM TOTAL | (UG/L AS BA) | 100
BERYLLIUM TOTAL | (UG/L AS BE) | 10
CADMIUM TOTAL | (UG/L AS CD) | 1
CHROMIUM TOTAL | (UG/L AS CR) | 3
COBALT TOTAL | (UG/L AS CO) | 1
COPPER TOTAL | (UG/L AS CU) | 1
IRON TOTAL | (UG/L AS FE) | 50
IRON DISSOLVED | (UG/L AS FE) | 15
LEAD TOTAL | (UG/L AS PB) | 2
MANGANESE TOTAL | (UG/L AS MN) | 10
MANGANESE DISSOLVED | (UG/L AS MN) | 1
MOLYBDENUM TOTAL | (UG/L AS MO) | 1
NICKEL TOTAL | (UG/L AS NI) | 1
SILVER TOTAL | (UG/L AS AG) | 1
ZINC TOTAL | (UG/L AS ZN) | 10
ALUMINUM TOTAL | (UG/L AS AL) | 70
LITHIUM TOTAL | (UG/L AS LI) | 10
SELENIUM TOTAL | (UG/L AS SE) | 1
DISSOLVED SOLIDS SUM | MG/L | 96
MERCURY, TOT.REC. | UG/L AS HG | 0.10
SPECIFIC CONDUCTANCE | MICROSIEMENS/CM | 123
ALKALINITY | MG/L AS CAC03 | 42

| CATIONS (MG/L) | (MEQ/L) | ANIONS (MG/L) | (MEQ/L) |
--- | --- | --- | --- |
CALCIUM, DISS. MG/L | 6.000 | 0.300 | CHLORIDE, DISS. MG/L | 11.000 | 0.311 |
MAGNESIUM, DISS. MG/L | 4.601 | 0.379 | SULFATE, DISS. MG/L | 2.001 | 0.042 |
SODIUM, DISS. MG/L | 10.000 | 0.436 | FLUORIDE, DISS. MG/L | 0.101 | 0.006 |
POTASSIUM, DISS. MG/L | 1.401 | 0.036 | ALKALINITY, FET, LAB | 42.000 | 0.840 |
IRON, DISS. UG/L | 15.000 | 0.001 |
TOTAL | 1.150 | TOTAL | 1.197 |

PERCENT DIFFERENCE = -1.99
Mr. Raymond Sato
Manager and Chief Engineer
Department of Water
County of Kauai
P.O. Box 1706
Lihue, Kauai, HI 96766

Dear Mr. Sato:

Enclosed for your information and files is the Pumping Test Data of Makaleha II Well 0622-02 completed in November 1989. If you have any questions, please call Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

MO:bm
Enc.
November 30, 1989

MEMORANDUM FOR THE RECORD

FROM: Ed Sakoda

SUBJECT: Makaleha Well No. II (Well No. 0622-02)

The pumping test of Makaleha Well No. II began on Monday, November 27, 1989, and was scheduled for 72 hours of continuous pumping at a rate of about 1000 gallons per minute (gpm).

A step-drawdown test started at about 12 noon to about 1:15 pm. From 1:30 pm the rate was set at about 1000 gpm and kept there for the duration of the test.

During the evening of the test, there were three complaints from the surrounding neighbors. Because of the complaints, it was decided to end the test at about 4:00 pm on Tuesday, November 28, 1989, and evaluate the situation.

Under normal circumstances, termination of the test due to complaints of the neighbors would constitute an unsatisfactory test and the test would have to be repeated following correction of the situation. However, review of the data from the abbreviated test compares very well to a six-day pumping test conducted at the nearby (3,800 ft. away) Makaleha Well No. I (Well No. 0623-04) by the Kauai Department of Water. The data indicates that both wells develop water from the same aquifer and should react in essentially the same way.

We recommend no further testing of the well. Results of the pumping test are being prepared.

ED SAKODA

ES:ko
December 8, 1988

Mr. William Meyer
District Chief
U.S. Geological Survey
677 Ala Moana Blvd., Ste. 415
Honolulu, Hawaii 96813

Attention: Mr. John Yee

Dear Mr. Meyer:

Water Sample, Makaloha Well 0622-02, Kauai

Transmitted under separate cover to Mr. John Yee of your office is a one-gallon water sample taken on November 28, 1989 from the Makaloha Well 0622-02, Kauai.

We would appreciate your running the usual chemical analyses and forwarding us a copy of the results as soon as they become available.

Sincerely,

HANABU TACOMORI
Deputy Director

RC: kc
November 30, 1989

MEMORANDUM FOR THE RECORD

FROM: Ed Sakoda

SUBJECT: Makaleha Well No. II (Well No. 0622-02)

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ES:ko

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We recommend no further testing of the well. Results of the pumping test are being prepared.

ED SAKODA

ES:ko
November 29, 1989

MEMORANDUM FOR THE RECORD

FROM: Mitchell Ohye

SUBJECT: Makaleha II 0622-02, Kauai, Pumping Test

A pumping test was conducted on the subject well from November 27-28, 1989 after deepening hole to 1000 ft. below ground surface. The static water level on 11-27-89 was 464.9 ft. above mean sea level as determined by the airline method and referenced to ground elevation of 520 ft.

After 27 hours of continuous pumping at 1000 gpm, the drawdown was 70.5 ft. and still declining, chlorides 14 ppm, temp. 74 degrees F. Well recovers slowly and 17 hours after pumping stopped, the water level was still 11.1 ft. below beginning SWL. Pump test was discontinued due to noise complaints received during the night.

Mitchell K. Ohye
MAKALEHA II 0622-02
Kapaa, Kauai, Hawaii

AS BUILT SECTION
Drilled: November 1989
Driller: Paul Franson

- 480 Ft. MSL
Bottom of Well

NOT TO SCALE
PHYSICAL DATA:
- Ground Elevation: 420 ft
- Size of Casing: 12 in
- Depth of Casing (solid): 410 ft
- Depth of Casing (screened): None
- Depth of Hole: 1000 ft
- Water Temperature: 74°F
- Latitude: 
- Longitude: 
- Depths referred to G.R.O. Elev.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

MAKALEHA II WELL 0622-02
KAPA'A, KAUAI, HAWAII

NOVEMBER 27, 1989  |  NOVEMBER 28, 1989
PUMPING TEST RECORD

for

MAKALEHA II  
WELL 0622.02

KAUMU  Island  12-KU-19  Project or Job No. 19

Description of Well--
1. Elevation: ground surface 470 ft., top of casing _ ft., rotary table _ ft., referenced to _ benchmark.
2. Total depth of well 1000 ft.; or _ ft. elevation, msl
3. 12 in. solid casing to 510 ft. depth, perforated to _ ft. depth
4. Static water level on Nov. 27, 1989: _ ft. below ground surface, top of casing; or _ ft. elevation msl measured _ method

Description of Pump and Pump Setting--
5. Type pump with _ stage bowl assembly
6. Gasoline (diesel) electric, power with _ horsepower
7. Shaft speed: _ rpm at _ gpm flow
8. Depth of pump intake: _ ft. below _; or _ ft. elev. msl
9. Depth of airline bottom: _ ft. below _; or _ ft. elev. msl
11. Test conducted by _

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping Rate (gpm)</th>
<th>Airline Pos (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. (°F)</th>
<th>Cond. (mnhos 25°C)</th>
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### PUMPING TEST RECORD

**For**

**MAKALOA II**

(name)

**Well 0122-02**

(NO.)

**Kauai**

Island 12-22-46

Project or Job No. 19

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. (°F)</th>
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**BARTHE TIME**

STOP PUMPING - RECOVERY

(MINUTES)

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**METER READING**

ADJUSTED TOO

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**Sheet No. 3 of 3 Sheets**
MAKAULEU II, 08.28.03
RECOVERY I
NOVEMBER 23-24, 1989
AFTER 77 HRS. PUMPING
AT 1000 GPM

DRAWDOWN IN FEET

TIME IN MINUTES
JOB NO. 85-5

RECONSTRUCT DRILL & TEST MAKALEHA WELL 0623-04

RECOVERY VS. ELAPSED TIME

DATE OF TEST:
6/2/86 TO 7/18/86

PRESSURE GAUGE

RECOVERY

MAXIMUM SUM OF 2 RECOVERIES

June 28, 1986
Water at 71 f.p.m.
Pumping at 1000 gpm
Paul Frandsen & Associates  
1188 Bishop Street  
Century Square, Rm. 905  
Honolulu, Hawaii 96813  

Gentlemen:  

Job No. 12-KW-18, Drilling Makaleha Well No. II, Kauai  

On October 17, 1989, a pump test was conducted for the subject well. Based on our field observations, the following items did not meet the project specifications:  

1. Current recorded log was not available at the site.  
2. Control valve was inadequate for controlling discharged water from the well.  
3. You were instructed to set the top of pump bowl at zero (0) elevation or 520' below the existing ground elevation but the top of pump bowl was set at elevation 240' or 280' below the existing ground.  
4. Access road was not accessible with a regular vehicle.  
5. Noise generated by the pumping equipment disturbed the nearby residents. Two complaints about the noise were received by our department.  

The contractor shall conform to the project specifications and corrections shall be made on the following items:  

1. Section SP-502.2 states that "An accurate and carefully recorded log shall be kept current and available at the well site for inspection by the engineer at any time during the work."
2. Section SP-504.2 states that "The rate of discharge from the well shall be controlled by an appropriate valve and measured with an appropriate meter to be furnished by the contractor." A gate control valve is highly recommended to replace the existing control valve.
3. Section SP-504.2 also states that "The contractor shall also furnish and install all other equipment and material, except as specified herein, and shall supply power required to perform the pumping test of the well as directed by the Engineer. The contractor must submit in writing to the Engineer the description, pump characteristics, curves and specifications of the test pump and driver, including the size and total length of the pump and the size of the discharge column."

4. Page I-1, paragraph D states that "The contractor shall be responsible for the construction of the road and/or the preparation of the site and shall include all costs of said road and/or site in the appropriate unit prices bid and no direct payment will be made thereof."

5. Section SP-901.2.(f) states that "The operating schedule of large horsepower heavy equipment shall be planned to have the least impact upon nearby residents." A sound proofed housing around the noise equipment is highly recommended. The contractor shall notify the nearby residents in advance of the next pump test schedule.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer
MEMO

TO: THE RECORDS
FROM: M. OHYE
SUBJECT: MAKALEHA WELL #2 0622-02, KAUMU 24 HR. PUMPING TEST

MESSAGE:

A 24 HR. PUMPING TEST WAS CONDUCTED ON THE SUBJECT WELL FROM OCT. 16-17, 1989 AFTER DEEPENING HOLE TO 725 FT. BELOW GROUND SURFACE. THE STATIC WATER LEVEL IS 467.8 FT., MSL AS DETERMINED BY THE AIRLINE METHOD AND REF. TO G.R. EL. OF 520+ FT.

AT AN AVE. PUMPING RATE OF 291 GPM THE DRAWDOWN RANGED FROM 53.6 FT. TO 58.2 FT. BELOW STATIC LEVEL, LITHIUM 14 PPM, AND TEMP. 73.0° F. DUE TO THE SENSITIVE RELATIONSHIP BETWEEN PUMPAGE AND DRAWDOWN AN APPROPRIATE CONTROL VALVE (GATE) SHOULD BE INSTALLED BEFORE TESTING AGAIN.

Mitchell K. Oh

DATE: OCTOBER 18, 1989
DIVISION: DOWALD
**PUMPING TEST RECORD**

for **MALOAIA #2** Well D622-02

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**KNAUM Island 12-11-14 Project or Job No. 19**

### Description of Well—
1. Elevation: ground surface **510 ft.**, top of casing **__ ft.**, rotary table **__ ft.**, referenced to **__** ft. elevation, msl.
2. Total depth of well **125 ft.**, or **__ ft. elevation, msl**
3. **12 in. solid casing to 670 ft.** depth, perforated to **__ ft. depth**
4. Static water level on **Oct. 14, 1989**: **62.2 ft.** below ground surface, top of casing; or **__ ft. elevation msl** measured **__** method

### Description of Pump and Pump Setting—
5. **__** type pump with **__** stage bowl assembly
6. Gasoline diesel electric, power with **500** horsepower
7. Shaft speed: **1100** rpm at **250** gpm flow
8. Depth of pump intake: **300 ft.** below **GR.**; or **__ ft.** elev. msl
9. Depth of airline bottom: **116 ft.** below **GR.**; or **__ ft.** elev. msl
10. Center of gage: **__ ft.** elev., msl. Flow measured with **RATE A FLOW**
11. Test conducted by **__**

### Test Results

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. (°F)</th>
<th>Cond. (mmhos 25°C)</th>
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Sheet No. 1 of 3 Sheets
## PUMPING TEST RECORD

**for**

**MAKALEWA #2**  
Well D22-02  
(name)  
(No.)

**Kaua‘i Island 12-KU-18 Project or Job No. 19**

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<th>Drawdown (feet)</th>
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*Stop Pump - Recovery*
# PUMPING TEST RECORD

**for**

**Kahuku Island M-KW-18 Project or Job No. 19**

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<th>Airline Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
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# Chloride Titration Record

**Well:** 0692-02 (NO.)

**Project or Job No.:** 19

**Location:** Kauai, Island No. 12-KU-18

**Titrations conducted by:** M. Oki

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MAKALOA #2 OCT 12-02
24 HR. PUMPING TEST
OCTOBER 16-17, 1989
T.O.: 75'g
Q = 2500, 700 gpm

- 250 gpm -

NORMAL RANG 10
3000 gpm

- Known Case -
MAXIMA & MINIMA
RECOVERY (14 Units)
OCTOBER 17, 1947

TIME IN MINUTES
PUMPING TEST RECORD
for
MAKALEHA # 2
Well 0622-02

Island 12-KU-14  Project or Job No. 19

Description of Well--
1. Elevation: ground surface ______ ft., top of casing ______ ft., rotary table ______ ft., referenced to ______ bechmark.
2. Total depth of well 125 ft.; or ______ ft. elevation, msl
3. 12 in. solid casing to 670 ft. depth, perforated to ______ ft. depth
4. Static water level on 19 ______; ______ ft. below ground surface, top of casing; or ______ ft. elevation msl measured ______ method

Description of Pump and Pump Setting--
5. ______ type pump with ______ stage bowl assembly
6. Gasoline (diesel), electric, power with ______ horsepower
7. Shaft speed: ______ rpm at ______ gpm flow
8. Depth of pump intake: ______ ft. below GR.; or ______ ft. elev. msl
9. Depth of airline bottom: ______ ft. below GR.; or ______ ft. elev. msl
10. Center of gage: ______ ft. elev., msl. Flow measured with ______
11. Test conducted by ______

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<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline (feet)</th>
<th>Drawdown (feet)</th>
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Note: 0-60 psi gauge.

Sheet No. 1 of ______ Sheets
# PUMPING TEST RECORD

**For**

**Makaleha #7**

**Well 0622-02**

**Kauai Island**

**Project or Job No.** 19

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<th>Drawdown (feet)</th>
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**Stop Pump - Recovery**

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November 24, 1989

Paul Frandsen & Associates
765 Amana Street
Honolulu, Hawaii 96814

Gentlemen:

Job No. 12-KW-18, Drilling Makaleha Well No. II, Kapaa, Kauai, Hawaii

This confirms your telecon of November 8, 1989 with Ed Sakoda and Dickie Lee of our office regarding the second pump test for the subject well. The discussions were as follows:

1. The second pump test will be conducted at 1000' below the existing ground level or 430' of the open hole.
2. The top of the pump bowls shall be set at 520' below the existing ground level or zero (0) elevation.
3. You informed us that you only have enough discharge columns to set the pump bowls at 300' below the existing ground level and it would take at least 3 to 4 weeks to ship additional 220' of discharge columns from the west coast to Honolulu.
4. In checking the progress of your work to date we find the subject project is approximately 2 months past the contract completion date. The State has decided to complete the project as soon as possible and allow the contractor to set the top of the pump bowls at 300' in lieu of 520' below the existing ground level. The State shall be credited an appropriate amount because the contractor cannot perform the pump test as indicated per project specs section 504.
5. The State has planned to run the pump test at a minimum rate of 700 GPM for at least 72 hours.
6. The contractor shall correct all the items as stated on our letter dated October 24, 1989.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

[Signature]

MANABU TAGOMORI
Manager-Chief Engineer

Attach.
LEE:ey
cc: Tats Nishi
Ed Sakoda
Paul Frandsen & Associates  
1188 Bishop Street  
Century Square, Rm. 905  
Honolulu, Hawaii 96813

Gentlemen:

Job No. 12-KW-18, Drilling Makaleha Well No. II, Kauai

On October 17, 1989, a pump test was conducted for the subject well. Based on our field observations, the following items did not meet the project specifications:

1. Current recorded log was not available at the site.
2. Control valve was inadequate for controlling discharged water from the well.
3. You were instructed to set the top of pump bowl at zero (0) elevation or 520' below the existing ground elevation but the top of pump bowl was set at elevation 240' or 280' below the existing ground.
4. Access road was not accessible with a regular vehicle.
5. Noise generated by the pumping equipment disturbed the nearby residents. Two complaints about the noise were received by our department.

The contractor shall conform to the project specifications and corrections shall be made on the following items:

1. Section SP-502.2 states that "An accurate and carefully recorded log shall be kept current and available at the well site for inspection by the engineer at any time during the work."
2. Section SP-504.2 states that "The rate of discharge from the well shall be controlled by an appropriate valve and measured with an appropriate meter to be furnished by the contractor." A gate control valve is highly recommended to replace the existing control valve.
3. Section SP-504.2 also states that "The contractor shall also furnish and install all other equipment and material, except as specified herein, and shall supply power required to perform the pumping test of the well as directed by the Engineer. The contractor must submit in writing to the Engineer the description, pump characteristics, curves and specifications of the test pump and driver, including the size and total length of the pump and the size of the discharge column."

4. Page I-1, paragraph D states that "The contractor shall be responsible for the construction of the road and/or the preparation of the site and shall include all costs of said road and/or site in the appropriate unit prices bid and no direct payment will be made thereof."

5. Section SP-901.2.(f) states that "The operating schedule of large horsepower heavy equipment shall be planned to have the least impact upon nearby residents." A sound proofed housing around the noise equipment is highly recommended. The contractor shall notify the nearby residents in advance of the next pump test schedule.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

LEE:In
Paul Frandsen & Associates  
1188 Bishop Street  
Century Square, Rm. 905  
Honolulu, Hawaii 96813

Gentlemen:

Job No. 12-KW-18, Drilling Makaleha Well No. II, Kauai

On October 17, 1989, a pump test was conducted for the subject well. Based on our field observations, the following items did not meet the project specifications:

1. Current recorded log was not available at the site.
2. Control valve was inadequate for controlling discharged water from the well.
3. You were instructed to set the top of pump bowl at zero (0) elevation or 520' below the existing ground elevation but the top of pump bowl was set at elevation 240' or 280' below the existing ground.
4. Access road was not accessible with a regular vehicle.
5. Noise generated by the pumping equipment disturbed the nearby residents. Two complaints about the noise were received by our department.

The contractor shall conform to the project specifications and corrections shall be made on the following items:

1. Section SP-502.2 states that "An accurate and carefully recorded log shall be kept current and available at the well site for inspection by the engineer at any time during the work."
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Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

LEE:ln
October 19, 1989

Paul Frandsen & Associates
1188 Bishop Street
Century Square, Room 905
Honolulu, Hawaii 96813

Gentlemen:

Job No. 12-KW-18, Drilling Makaleha Well No. II,
Kapaa, Kauai, Hawaii

This confirms the October 18, 1989 telecon between Messrs. John Nolan and Dickie Lee regarding the drilling of the open hole for the subject well. Our discussions were as follows:

1. You were instructed to continue drilling the open hole to the depth of 950'± below the existing ground elevation or 380'± of the open hole.

2. The engineer will determine the next order of work. The exact depth of the open hole to be drilled shall be determined by the State engineer during the course of the drilling.

3. The payment for the additional lineal footage of open hole will be made at the unit price for item 502B of the Bid Proposal.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

LEE:ey
cc: Tats Nishi
    Ed Sakoda
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<td>Mitch will be conducting pumping test no. 2 for Makaleha Well II, starting Monday, Oct. 16 - ?</td>
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ENGINEERING BRANCH
Division of Water Resource Management

FROM: [Signature]
DATE: 10/4/89
FILE IN: [Redacted]

TO: INITIAL: L. CHANG

PLEASE:

See Me
Call
Review & Comment
Take Action
Investigate & Report
Draft Reply
Acknowledge Receipt
Type Draft
Type Final  cc: [Redacted]
Xerox  copies
File
Mail

FOR YOUR

Approval
Signature
Information

REMARKS:

Pump Test for Makeleha Well!

* Contractor will be ready for Pump Test on Oct 16 or 17. Contractor to inform us in the Wed. before.

* Telecon w/Mel Matsunaga (Kauai Water Dept.) 10/6
  - Mel indicated they will be able to assist us primarily during the day.
  - Ed or Mitch - please contact Mel, if assistance needed.
Mr. Paul Frandsen, President
Paul Frandsen & Associates
1188 Bishop Street
Century Square, Room 905
Honolulu, Hawaii 96813

Dear Mr. Frandsen:

Job No. 12-KW-18, Drilling Makaleha Well No. II, Kapaa, Kauai

This confirms your telecons of September 22 and 25, 1989 with Nobu Kaneshiro and Dickie Lee of our office regarding the bailing, drilling of the open hole and pumping tests for the subject well. Our discussions were as follows:

September 22, 1989:

1. You were instructed to do a bailing test of the well for approximately one-half hour.

2. You then indicated the bailing of the well will be scheduled for 8:00 a.m., September 25, 1989.

3. Prior to proceeding with the bailing, you were instructed to contact Mr. Tatsuo Nishi (ph. 245-4400) so he can observe the results of the bailing.

September 25, 1989:

1. After bailing was done, you were instructed to continue drilling of the open hole.

2. You were also instructed to take water samples for chloride testing at depth intervals of 25 to 30 feet (approximately three samples) and measure static water level at beginning of each work shift.
3. In accordance with the specifications, you were informed that the Engineer will notify you to prepare for a pump test.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

[Signature]

MANABU TAGOMORI
Manager-Chief Engineer

LEE: ln
cc: Tatsuo Nishi
    Ed Sakoda
Weekly Report No. 22

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

WEEKLY CONSTRUCTION REPORT

Covering Week Ending 9 Sept., 1969

JOB NO. 17-4W-18, Drilling Waiulua
CONTRACTOR: Paul Funderbug, Inc.
Iwa Burying Street, Honolulu, Hawaii

DESCRIPTION OF CONSTRUCTION ACTIVITIES


2. Grouting completed 6 Sept. 69.

3. Drill 12' of open hole, 47' pulley to top of casing.

4. Alignment with 41'-12" dummy 40' interval in reading top of casing.

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Remarks:

Weather:

Payroll for Week Ending ____________________ Payroll Amount ________________

Total Manhours of Labor Used: ___________ No. of Men: ___________
August 21, 1989

Mr. Dickey Lee
Department of Land & Natural Resources
Division of Water & Land Development
P. O. Box 373
Hono., HI 96809

RE: Makaleha Well No. II, Job No. 12-KW-18

Dear Mr. Lee:

This is to certify that we have had no drill logs from June 29, 1989 to August 17, 1989.

The reason we have no drill logs is that no drill activity took place, in that we were forced to wait by failure of the pipe supplier to deliver pipe which was ordered on a timely basis.

Sincerely yours,

Paul Frandsen

PF:dh
June 19, 1989

Paul Frandsen & Associates
765 Amana Street
Honolulu, Hawaii 96814

Gentlemen:

Job No. 12-KW-18, Drilling Makaleha Well No. II, O622-02
Kapaa, Kauai, Hawaii

We have reviewed the progress of the work to date and find the subject project is not proceeding according to schedule.

In order to speed up the work, the State decided to forego step No. 5 from the order of work as indicated in the project specification, section 502.1. The Contractor shall proceed to drill 100 ft. of open hole. After review of the driller's log and drill cuttings, the Engineer will determine the next order of work. The exact depth of the open hole to be drilled shall be determined by the State Engineer during the course of the drilling.

Should you have any questions, please call Mr. Linford Chang at 548-3944.

Sincerely,

[Signature]

MANABU TAGOMORI
Manager-Chief Engineer

Attach.
LEE:ey
cc: Tats Nishi
Fujita & Associates
Dan Lum
SECTION 502 - DRILLING THE WELL
(Items No. 502A and 502B)

502.1 - GENERAL: The well shall be drilled at the location shown on the plan and to the cased section a depth of 570 feet. The exact location of the well shall be designated by the Engineer. The planned total depth is 770 feet and the maximum total depth is 900 feet.

The well shall be drilled plumb and straight as specified herein and shall be large enough to install the well casing specified in Section 503 of the specifications and to provide an annular space of at least 3" all around the casing. No deviation from this allowance will be made.

The exact depth of the hole to be drilled and cased shall depend on the nature of the material penetrated by drilling and on hydrologic conditions and shall be determined by the Engineer during the course of the drilling. Upon completion of drilling, to determine the exact dimensions of the well, the Contractor, in the presence of the Engineer, shall lower the proper size bit to the bottom of the hole and take careful measurement to determine the depth of the hole. Casing shall not be installed until ordered by the Engineer. At his option the Engineer may order the drilling of any open hole below the installed casing. This open hole shall have a diameter as shown in the plan and proposal. The depth of the open hole shall have been ordered by the Engineer. The Contractor shall protect the installed casing while drilling the open hole and any damages to the casing shall be repaired at no cost to the State.

The Contractor shall not conduct drilling operations in excess of eight hours a day except with the written consent of the Engineer. No less than 72 hours prior to the commencement of any such overtime work, the contractor shall submit to the Engineer a written notice of his intention and schedule. The order of major work shall be as follows:

1. Drill well to casing depth.
2. Install casing and temporarily secure with bottom of casing 5 ft. above casing depth. Clean and develop well by bailing. Set casing to final depth.
3. Rock pack and cement grout the annular space.
4. Geophysical logging of well by Engineer.
5. Install test pump, develop well by pump-surging and conduct pump test for yield and drawdown.
6. Drill open hole, if so directed. If not, proceed to Step 9.
7. Clean and develop well as in Step 2.
8. Repeat Step 5.
9. Run video log and plumbness and alignment test (in presence of Engineer). Complete the well.
ALEHA WELL NO. II
KAUA'I, HAWAII
H 1985, ITEM A-14

SECTION THRU WELL
NOT TO SCALE

SLOT DETAIL
NOT TO SCALE

CASING GUIDE
DETAIL
NOT TO SCALE

APPROVED:
DATE

MANAGER AND CHIEF ENGINEER
DEPARTMENT OF WATER
COUNTY OF KAUA'I

MANAGER, CHIEF ENGINEER
DIVISION OF WATER AND LAND DEVELOPMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
Weekly Report No. 14

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

WEEKLY CONSTRUCTION REPORT
Covering Week Ending 27 May 1989

JOB NO. 12-KU-18 Drilling Metaleho
Well No. 7
Kapaa, Kauai, Hawaii

CONTRACTOR: Paul Franko & Associates
1188 Bishop St., Room 705
Honolulu, Hawaii 96813

DESCRIPTION OF CONSTRUCTION ACTIVITIES

1. Well depth = 340'
2. 2 man crew.
3. Water level standing about 65' from ground before drilling starts.

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</table>

Remarks: _________________________________

Weather: ________________________________

Payroll for Week Ending __________________ Payroll Amount __________________

Total Manhours of Labor Used: ___________ No. of Men: __________________
ARTMENT OF LAND AND NATURAL RESOURCES

JOB NO. 12-KW-18

LING MAKALEHA WELL NO. II

KAPAA, KAUAI, HAWAII

ACT 300, SLH 1985, ITEM A-14

ORIGINAL CASING HOLE DEPTH
570'

ORIGINAL OPEN HOLE DEPTH
200'

Addition
180'

Total
950'

SECTION THRU WELL

NOT TO SCALE

SLOT DETAIL

NOT TO SCALE

BAR CAP LOCK DETAIL

NOT TO SCALE

STEEL SHOE DETAIL

NOT TO SCALE
MEMORANDUM

TO: Division of Water and Land Development

FROM: William W. Paty, Chairperson
       Commission on Water Resource Management

SUBJECT: Approval of Well Construction Permit for Makaleha Well
       No. II, State Well No. 0622-02, Kapaa, Kauai

I am pleased to inform you that the Commission on Water Resource
Management approved your application for a well construction permit at
its meeting on November 16, 1988. Enclosed is a copy of the approved
submittal and your well construction permit for Makaleha Well No. II,
State Well No. 0622-02, Kapaa, Kauai.

WILLIAM W. PATY

Enc.
TO: Division of Water and Land Development  
1151 Punchbowl Street  
Honolulu, Hawaii 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 application to construct and test State Well No. 0622-02 for municipal use within Tax Map Key: 4-6-01:1 is approved subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at 548-7619, before any work covered by this permit commences.

2. The permit shall be for the construction and testing of the well only. No permanent pump may be installed without a pump installation permit from the Commission.

3. The following shall be submitted to DOWALD, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the well:
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.

4. Monthly reports of pumpage shall be submitted to DOWALD when the well is put into production.
5. If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems."

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

7. This permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Date of Issuance

NOV 25 1988

WILLIAM W. PATY

Enc. (Driller's Report form)

cc: USGS
Department of Health,
Drinking Water Program
Ground Water Protection Program
Kauai Dept. of Water
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Division of Water and Land Development
Application for Well Construction Permit,
Makaleha Well No. II, Kapaa, Kauai

Applicant: Division of Water and Land Development
1151 Punchbowl Street
Honolulu, Hawaii 96813

Action Requested: Approval of permit to construct and test Makaleha Well No. II, State Well No. 0622-02, for municipal use.

Well Location: The well site will be located within Tax Map Key: 4-6-01:01, Kapaa, Kauai (see attached map).

Well Description:

Ground Elevation: 520± ft.
Casing diameter: 12-in. I.D.
Solid casing depth: 570 ft. (-50 ft.)
Cased hole diameter: 18 in.
Open hole: 200± ft.
Open hole diameter: 11 in.
Total depth: 770 ft.
Pump test range: 50-300 gpm
Grouted annulus: 0-570 ft.

Impact on Surrounding Wells: Following construction, the well will be tested to determine the impact on surrounding wells.

Agency Review: The application has been sent to the State Department of Health and Kauai Department of Water for review. There have been no objections to the application.

Approved by Commission on Water Resource Management at the meeting held on
NOV 16 1988

ITEM 3
Chairperson and Members
Commission on Water Resource Management

November 16, 1988

RECOMMENDATION:

That the Commission approve the issuance of a Well Construction Permit to the Division of Water and Land Development for the construction of Makaleha Well No. II, subject to the following conditions:

(1) The permit shall be for the construction and testing of the well only. No permanent pump may be installed without a pump installation permit from the Commission.

(2) The following shall be submitted within 30 days after completion of the well:

b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
c. As-built sectional drawing of the well.
d. Plot plan and map showing the exact locations of the well.
e. Pumping test record, including time, pumping rate, drawdown, chloride content, and water quality.

(3) If the well is for potable use, the applicant shall comply with Section 29 of Title 11, Chapter 20, Administrative Rules, "Potable Water Systems".

(4) The applicant shall comply with all applicable laws, rules, and ordinances.

(5) The permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Respectfully submitted,

[Signature]

MAMABU TAGOMORI
Deputy Director

Attach.

APPROVED FOR SUBMITTAL:

[Signature]

WILLIAM W. PATY, Chairperson
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<tr>
<th>TO:</th>
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<td>M. TAGOMORI</td>
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<td>R. Suzuki</td>
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<td>N. Kaneshiro</td>
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**PLEASE:**
- See Me
- Take Action By
- Route to Your Branch
- Review & Comment
- Draft Reply
- Acknowledge Receipt
- Xerox ___ copies
- File
- Mail
- For Information

**REMARKS:**
- Ed who went?
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Subject: WELL CONSTRUCTION PERMIT APPLICATION
MAKALEHA WELL NO. 2
STATE WELL NO: 0622-02
KAPAA, KAUAI

Thank you for submitting the permit application for our review. An exploratory well is proposed for the Kapaa Homestead area of Kauai. We have the following comments:

1. The proposed well site is surrounded by several potable water sources for the DOW Wailua Kapaa Water System. It is in the same quadrant as the Akulikuli Tunnel 5 (0622-01), Makaleha Tunnel 6 (0623-01), Moelepe Tunnel 7 (0623-02), and Makaleha Well (0623-03), are located in an adjacent quadrant.

2. Use of this well for injection or disposal shall not be permitted.

3. In the event that this well is developed as a source of potable water, the well must be approved by the Director of Health in accordance with Section 11-29-29 of Chapter 20, Title 11, Administrative Rules.

Very truly yours,

JOHN C. LEWIN, M.D.
Director of Health
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Dear Dr. Lewin:

Well Construction Permit Application
Makaleha Well No. II, State Well No. 0622-02

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168-12(c), we are sending you a copy of the subject permit application.

Please review the application and submit your comments to us, orally or in writing, at your earliest convenience. We would appreciate your comments within three weeks from the date of this letter.

If you have any questions, please contact Kenabu Tagomori at 548-7533.

Very truly yours,

WILLIAM A. PATY, Chairperson
Commission on Water Resource Management

Enc.
Mr. Raymond Sato  
Manager-Chief Engineer  
Department of Water  
County of Kauai  
P.O. Box 1706  
Lihue, Kauai, HI 96766-5706

OCT 4 1988

Dear Mr. Sato:

Well Construction Permit Application  
Makaleha Well No. II, State Well No. 0622-02

We are sending you a copy of a well construction permit application submitted by the Division of Water and Land Development.

Please review the application and submit your comments to us, orally or in writing, at your earliest convenience. We would appreciate your comments within three weeks from the date of this letter.

If you have any questions, please contact Kenabu Tosembeki at 548-7533.

Very truly yours,

Kauai DOW — no comments

MT:ES:ki
Enc.  
(Mel Matsunaga — 11/03/88)
APPLICATION FOR (check one)

☐ WELL DRILLING PERMIT  ☐ WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.
Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area? ☑ Yes  ☐ No
If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

WELL LOCATION: Island Kauai Tax Map Key 4-6-01:01. Attach a plot plan showing well location referenced to established property boundaries.

1. WATER USER: Division of Water and Land Development
Address 1151 Punchbowl Street, Honolulu, Hawaii, Telephone 548-7533
Zip Code 96813

1. PROPOSED DRILLING COMPANY: Paul Frandsen & Associates

1. PROPOSED WORK: ☑ Drill new well ☑ Deepen ☑ Redrill ☑ Alter ☑ Seal ☑ Abandon ☑ Install new pump ☑ Replace pump ☑ Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

Drilling, installing casing and pump testing an approximately 770 feet deep exploratory well.

PROPOSED SECTION OF WELL

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>5225 ft., msl.</th>
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<tbody>
<tr>
<td>Ground Elev. 520 ft., msl*</td>
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<tr>
<td>Solid casing: Material Steel</td>
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<tr>
<td>Length 570 ft.</td>
<td></td>
</tr>
<tr>
<td>Diameter 12 in.</td>
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<tr>
<td>Wall thickness 5/16 in.</td>
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<tr>
<td>Casing: ☑ Perforated ☑ Scre</td>
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<tr>
<td>Material</td>
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<tr>
<td>Length</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td></td>
</tr>
<tr>
<td>Wall thickness in.</td>
<td></td>
</tr>
<tr>
<td>Openings 11 in.</td>
<td></td>
</tr>
<tr>
<td>Open Hole: Length 200 ft.</td>
<td></td>
</tr>
<tr>
<td>Diameter 11 in.</td>
<td></td>
</tr>
</tbody>
</table>

*Approximate elev. at filing. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.

5. PROPOSED USE: ☑ Municipal ☑ Military ☑ Agriculture ☑ Domestic ☑ Disposal ☑ Other (specify) ☑ Industrial ☑ Exploratory

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.

☐ Daily _______ gallons  ☐ Monthly _______ gallons  ☐ Yearly _______ gallons

7. PROPOSED PUMP OR FLOW CAPACITY: ___________________ gallons per minute

Signature: ___________________ Date: 9/27/88
Water User: MANABU TAGOMORI

Signature: ___________________ Landowner of Well Site
Date: ___________________

For Official Use:

State Well No. 0622-02
DLNR Permit No. ___________________
DLNR Application No. ___________________
MAKALEHA WELL NO. II

ISLAND OF KAUAI

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL
DIVISION OF WATER AND LAND DEV

1981

PROJECT AREA

ISLAND OF KAUAI
PLANNING BRANCH

FROM: Sazie
DATE: 9-29-88

TO: INITIAL:

1. G. AKITA
2. P. Matsuo
3. T. Nakama
4. Z. Agraan
5. B. Koyanagi
6. F. Ching
7. M. Tagomori
8. D. Lum
9. G. Matsumoto
10. L. Chang
11. S. Kokubun

PLEASE:

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

cc: ________

FOR YOUR

☐ Approval
☐ Signature
☐ Information

REMARKS:

Application for Well Drilling
Permit - Makaliku Well No. 2
Kapek, Kanapi

Note: #2 Water User - should the address be for Kauli? (not Oahu)?
APPLICATION FOR (check one)  

☐ WELL DRILLING PERMIT  ☐ WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  Yes  ☐ No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island  Kauai  Tax Map Key 4-6-01-01. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER  Division of Water and Land Development  Telephone  548-7553
   Address  1151 Punchbowl Street, Honolulu, Hawaii
   Zip Code  96813

3. PROPOSED DRILLING COMPANY:  Paul Frandsen & Associates

4. PROPOSED WORK:  ☐ Drill new well  ☐ Deepen  ☐ Redrill  ☐ Alter  ☐ Seal  ☐ Abandon  ☐ Install new pump  ☐ Replace pump  ☐ Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

Drilling, installing casing and pump testing on approximately 770 feet deep exploratory well.

PROPOSED SECTION OF WELL

Elevation at top of casing 522.5 ft., msl.

- Cement Grout  10 ft.
- Hole Dia.  11 in.
- Total Depth  770 ft.
- Rock Packing

Ground Elev.  520 ft., msl.

Solid casing:
- Material Steel
- Length 570 ft.
- Diameter 12 in.
- Wall thickness 5/16 in.

Casing:
- Perforated Screen
- Material
- Length
- Diameter
- Wall thickness
- Openings sq. in./L.F.

Open Hole:
- Length 200± ft.
- Diameter 11 in.

*Approximate elev. at filing. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.

5. PROPOSED USE:  ☐ Municipal  ☐ Military  ☐ Agriculture  ☐ Industrial
   ☐ Domestic  ☐ Disposal  ☐ Other (specify)  ☐ Exploratory

6. PROPOSED AMOUNT OF WITHDRAWAL:  Check most appropriate box and fill in amount.
   ☐ Daily  gallons  ☐ Monthly  gallons  ☐ Yearly  gallons

7. PROPOSED PUMP OR FLOW CAPACITY:  gallons per minute

Signature:  [signature]  Date:  9/27/08

For Official Use:

State Well No.  0622-02
DLNR Permit No.  
DLNR Application No.  

Signature:  [signature]  Date:  

Water User:  MANABU TAGOMORI
Landowner of Well Site
ALEHA WELL NO. II
KAUAI, HAWAII

1985, ITEM A-14

SECTION THRU WELL
NOT TO SCALE

SLOT DETAIL
NOT TO SCALE

BAR CAP LOCK DETAIL
NOT TO SCALE

STEEL SHOE DETAIL
NOT TO SCALE

CASING GUIDE DETAIL
NOT TO SCALE

APPROVED:

DATE

MANAGER AND CHIEF ENGINEER
DEPARTMENT OF WATER
COUNTY OF KAUA'I

5-14-85

MANAGER - CHIEF ENGINEER
DIVISION OF WATER AND LAND DEVELOPMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
Mr. Manabu Tagomori
Manager-Chief Engineer
Division of Water and Land
Development
P.O. Box 373
Honolulu, Hawaii 96813

Dear Mr. Tagomori:

NOTICE OF ACCEPTANCE AND ENVIRONMENTAL DETERMINATION
Conservation District Use Application for
Exploratory Drilling of the Makaleha
Exploratory Well II in the Kealia Forest
Reserve, at Kapaa, Kauai, Hawaii

This acknowledges the receipt and acceptance for processing your
application for exploratory drilling of the Makaleha Exploratory
Well II on TMK: 4-6-1: 1 in the Kealia Forest Reserve at Kapaa,
Kauai, Hawaii.

According to your information, the proposed project will explore
for ground water source by drilling a well approximately 800 feet
deep. To determine its safe yield and to ensure the proper sizing
of the pump, the well will be tested for its chloride content,
pumping rate and drawdown. Duration of the pump test will extend
over a 72- to 150-hour period, and the water pumped from the well
will be channeled to and discharged into an existing natural
drainage way.

The initial exploratory well drilling will be undertaken by
DOWALD. If the exploration is successful, the exploratory well
will be turned over to the County for further development.

After reviewing the application, we find that:

1. The proposed use is a conditional use within the Resource
   subzone of the Conservation District according to
   Administrative Rules, Title 13, Chapter 2, as amended;
2. No public hearing pursuant to Section 183-41, Hawaii Revised Statutes (HRS), as amended, will be required in that the proposed use is of a non-commercial nature; and

3. In conformance with Title 11, Chapter 200, of the Administrative Rules, a negative declaration was determined for the proposed action.

As the applicant, please be advised that it will be your responsibility to comply with the provisions of Section 205A-29(b), Hawaii Revised Statutes, relating to Interim Coastal Zone Management (Special Management Area) requirements.

Negative action, as required by law, on your application by the Board of Land and Natural Resources can be expected should you fail to obtain from the County thirty (30) days prior to the 180-day expiration date, as noted above, one of the following:

1. A determination that the proposed development is outside the Special Management Area (SMA);

2. A determination that the proposed development is exempt from the provisions of the County Ordinance and/or regulation specific to Section 205A-29(b), HRS; or

3. A Special Management Area (SMA) permit for the proposed development.

Pending action on your application by the Land Board in the near future, your cooperation and early response to the matters presented herein will be appreciated. Should there be any questions, feel free to contact Dean Uchida of our Office of Conservation and Environmental Affairs staff at 548-7837.

Very truly yours,

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

cc: Kauai Board Member
Kauai Land Agent
County of Kauai Planning Dept.
County of Kauai Dept. of Public Works
County of Kauai Dept. of Water
DOH/OEQC/EC/OHA/DBED/DOA
U.S. Army Corps of Engineers