## ROUTE SLIP

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Exhibits 4
Mr. Vernon Chock
PVT Land Company
1210 Queen Street, 2nd Floor
Honolulu, HI 96814

Dear Mr. Chock:

Notice of Rejection
Pump Installation Permit Application for
Lualualei-PVT Well (Well No. 2308-02)

Our letter of April 30, 1996 notified you of the April 15, 1996 action by the Commission on Water Resource Management (Commission) to:

1. Defer action on the subject pump installation permit application.
2. Require the applicant to conduct a pumping test in accordance with the Commission's Aquifer (Pump) Test Procedure (the long term test shall run at least 72 hours).
3. Require the applicant to submit to the Commission the test results as a basis for supporting the application to install a 200 gpm capacity pump.
4. Delegate to the Chairperson the authority to approve the pump installation permit application upon the applicant's submittal of adequate pump test results, subject to the standard pump installation permit conditions.

From an April 23, 1998 telephone conversation with Cheryl Palesh of Belt Collins Hawaii, your water resources consultant, we understand that you did not conduct a pump test and have no immediate plans to activate this well. As such, we are rejecting your application at this time.

For your information, §174C-84(f), Hawaii Revised Statutes, states:

"Any applicant whose application is rejected may obtain a hearing before the commission by filing within thirty days of the mailing of the notice of rejection a written petition requesting such a hearing. The hearing shall be conducted pursuant to part I."

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

Sincerely,

EDWIN T. SAKODA
Acting Deputy Director

LN:ss
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**FROM:** [Name]  
**DATE:** 9-13-96  
**SUSPENSE DATE:**

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Well No. 2308-02

Belt Callers

Sherjeel Paleesh called, Harding Lawson, to let us know that they have every intention of conducting a pump test, but they cannot locate the well. They will be sending us pump test results ASAP.

4/23/96 called Sherjeel Paleesh, no plans to put well on line.
Mr. Vernon Chock  
PVT Land Company  
1210 Queen Street, 2nd Floor  
Honolulu, HI 96814

Dear Mr. Chock:

Notice of Action  
Pump Installation Permit Application for Well No. 2308-02

This letter serves as your official notice of action by the Commission on Water Resource Management (Commission) on your pump installation permit application for Well No. 2308-02. The following was approved by a unanimous vote of the Commission at their meeting of April 15, 1996:

1. Deferment of action on the pump installation permit application.

2. Require the applicant to conduct a pumping test in accordance with the attached Aquifer (Pump) Test Procedure. The long-term test shall run at least a minimum of 72 hours.

3. Require the applicant to submit to the Commission the test results as a basis for supporting the application to install a permanent 200 gpm capacity pump.

4. Delegate to the Chairperson the authority to approve the pump installation permit application upon the applicant's submittal of adequate pump test results, subject to the standard pump installation permit conditions (attached).

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

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss  
Attachments
MINUTES
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: April 15, 1996
TIME: 9:00 a.m.
PLACE: DLNR Board Room, 1st Floor
        Kalanikou Building

Chairperson Michael Wilson called the meeting of the Commission on Water Resource
Management to order at 9:10 a.m.

The following were in attendance:

MEMBERS: Mr. Michael Wilson
          Mr. Richard Cox
          Dr. Lawrence Miike
          Mr. Robert Giraldo
          Mr. David Nobriga
          Mr. Herbert Richards, Jr.

STAFF: Ms. Rae Loui
        Mr. Roy Hardy
        Mr. Charley Ice
        Ms. Lyann Mizuno
        Ms. Lenore Nakama
        Ms. Janis Uwaine

COUNSEL: Mr. William Tam

OTHERS:
Douglas MacDougal    Dawn K. Wasson    Dr. Jim Anthony
Ben Matsubara        Yukie Ohashi     Tom Nance
Richard Montgomery   Kay Muranaka     Harry Hida
Kathleen Hoff        Garrick Iwamuro  Herb Lee, Jr.
Yvonne Izu           Barry Usagawa    Chester Lao
Carol Wilcox         Stephen Kubota

All written testimonies submitted at the meeting are filed in the Commission office and are
available for review by interested parties. The items were not taken in the order posted on
the agenda.

ITEM 1. MINUTES OF THE MARCH 13, 1996 MEETING.

MOTION: (RICHARDS/NOBRIGA)

To approve the minutes.

UNANIMOUSLY APPROVED.
standby since they have funded this project in fiscal year 1994. He explained they have a contractor waiting to start construction and they would like to proceed with the construction on a standby basis.

At 10:15 a.m., Chairperson Wilson called a recess until 1:00 p.m.

Chairperson Wilson reconvened the meeting at 1:12 p.m.

Amended Staff Recommendation:

Staff requested that the special condition in the staff recommendations be amended as follows:

Staff recommends that the Commission approve the issuance of a pump installation permit to the Honolulu Board of Water Supply for Well No. 2149-03, subject to the standard pump installation permit conditions (Attachment A) and the following special condition:

1. Honolulu Board of Water Supply shall not pump the well until a water use permit is approved by the Commission.

TESTIMONY:

Mr. Chester Lao, of the Board of Water Supply stated that he is in agreement with staff's amended recommendation.

MOTION: (COX/NOBRIGA)

To approve staff's recommendation as amended.

UNANIMOUSLY APPROVED AS AMENDED.

ITEM 6

PVFLAND COMPANY, APPLICATION FOR WELL PERMIT, LUALUALEI-PVF
WELL (WELL NO. 2308-02). PUMP INSTALLATION: 200 GPM CAPACITY
PUMP, TMK 8-7-09:07, LUALUALEI, OAHU

PRESENTATION OF SUBMITTAL: Ms. Lenore Nakama

STAFF RECOMMENDATION:

Staff recommends that the Commission:

1. Defer action on the pump installation permit application.

2. Require the applicant to conduct a pumping test in accordance with the attached Aquifer (Pump) Test Procedure (Exhibit 3). The long-term continuous test shall run at least a minimum of 72 hours.
3. Require the applicant to submit to the Commission the test results as a basis for supporting the application to install a permanent 200 gpm capacity pump.

4. Delegate to the Chairperson the authority to approve the pump installation permit application upon the applicant's submittal of adequate pump test results, subject to the standard pump installation permit conditions in Exhibit 4.

MOTION: (COX/NOBRIGA)

To approve staff's recommendation.

UNANIMOUSLY APPROVED.

ITEM 7.

PACIFIC ATLAS (HAWAII), INC., DEFERRAL—APPLICATION FOR A WATER USE PERMIT. DEFERRAL—APPLICATION FOR PUMP INSTALLATION PERMITS. FUTURE IRRIGATION USE: 0.208 MGD. PUMP INSTALLATION: 50 GPM. BAY VIEW NOS. 1 TO 5 WELLS (WELL NOS. 2447-02 TO 06). TMK 4-5-30:37. KOOLAUPOKO GROUND, WATER MANAGEMENT AREA, OAHU

PRESENTATION OF SUBMITTAL: Ms. Lyann Mizuno

STAFF RECOMMENDATION:

Staff recommends that the Commission defer action on the water use permit application and pump installation permit applications for Bay View Nos. 1 to 5 (Well Nos. 2447-02 to 06) until the next regular meeting.

MOTION: (COX/NOBRIGA)

To approve staff's recommendation to defer.

UNANIMOUSLY APPROVED TO DEFERRED

ITEM 8.

PACIFIC ATLAS, INC., AFTER-THE-FACT, APPLICATION FOR A STREAM CHANNEL ALTERATION PERMIT. EXCAVATION OF STREAM CHANNEL. KAWA STREAM, KANEHOE, OAHU (TMK 4-5-30:1, 6, 37)

PRESENTATION OF SUBMITTAL: Mr. David Higa

STAFF RECOMMENDATION:

That the Commission on Water Resource Management:

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809

STAFF SUBMITTAL
for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

April 15, 1996
Honolulu, Oahu

PVT Land Company
APPLICATION FOR WELL PERMIT
Lualualei-PVT Well (Well No. 2308-02)
Pump Installation: 200 gpm Capacity Pump
TMK 8-7-09:07 Lualualei, Oahu

APPLICANT: PVT Land Company
1210 Queen St., 2nd Floor
Honolulu, HI 96814

LANDOWNER: Same

DESCRIPTION:
Location: (see Exhibit 1)
Dimensions: (see Exhibit 2)

BACKGROUND:
The application for a pump installation permit was accepted as complete on January 9, 1996.

WATER AVAILABILITY:
Lualualei Aquifer System of the Waianae Sector
Estimated Sustainable Yield: 3 mgd
Current System Withdrawal (12-MAV): 0.226 mgd

ISSUES/ANALYSIS:
Agency Review: The application was published in the Commission’s Water Resource Bulletin in February, 1996. Review letters were sent to the Department of Health’s Safe Drinking Water and Wastewater Branches. The Safe Drinking Water and Wastewater Branches have no objection to the proposed permit.

Staff Review: The Waianae Sector has not been designated a water management area. Reported water usage as of December 1995 (0.226 mgd) is below the estimated sustainable yield of the aquifer (3 mgd). The proposed pump installation would support proposed aquaculture facilities. The quantity of ground water that is proposed for withdrawal is the minimum to support the anticipated fish production. Water from the fish tanks will be discharged to a holding pond for use in dust control and irrigation at PVT’s adjacent C&D Landfill.

Item 6
Staff Submittal

April 15, 1996

There are ten (10) other wells within about a mile radius from Well No. 2308-02. Six (6) of these wells are unused. Three (3) of the wells are used for industrial purposes (Well Nos. 2308-03 and 2408-06 & 07), and one well is used for irrigation (Well No. 2409-05). The proposed withdrawal of 100,000 gpd at Well No. 2308-02 is not expected to interfere with the use of other wells in the vicinity. Well No. 2308-03 is the closest well to Well No. 2308-02 and was drilled by the applicant in 1990 for dust control and landscape irrigation.

The applicant is proposing to install a 200 gpm capacity pump in Well No. 2308-02. We have a record of a pump test at 125 gpm from 1952, but we do not have the actual pump test data. The applicant should be required to conduct a new pump test under the current standard Aquifer (Pump) Test Procedure (Exhibit 3).

RECOMMENDATION:

Staff recommends that the Commission:

1. Defer action on the pump installation permit application.

2. Require the applicant to conduct a pumping test in accordance with the attached Aquifer (Pump) Test Procedure (Exhibit 3). The long-term continuous test shall run at least a minimum of 72 hours.

3. Require the applicant to submit to the Commission the test results as a basis for supporting the application to install a permanent 200 gpm capacity pump.

4. Delegate to the Chairperson the authority to approve the pump installation permit application upon the applicant's submittal of adequate pump test results, subject to the standard pump installation permit conditions in Exhibit 4.

Respectfully submitted,

N. Ray fonda
for RAE M. LOUI
Deputy Director

Exhibit(s): 1 (Location Map)
2 (Well Dimensions)
3 (Aquifer (Pump) Test Procedures)
4 (Standard Pump Installation Permit Conditions and Water Use Report Form)

APPROVED FOR SUBMITTAL:

MICHAEL D. WILSON, Chairperson
Exhibit 1
9. PROPOSED WELL SECTION

Elevation at top of casing
115 ft. below

Ground Elevation
115 ft. below

Cement Grout
120 ft.

Rock Packing
NA

Hole Diameter
NA

Sold Casing:
Material: Steel
Length: 120 ft.
Diameter: 8" in.
Wall thickness: 0.25" in.

Casing: Perforated Screen
Material: Steel-Lowes
Length: NA
Diameter: 8" in.
Wall thickness: 0.25" in.
Openings: 100 sq. in./ft.

Open Hole:
Length: 51 ft.
Diameter: not applicable

3/9/20 amended per telecommunication by Cheryl Deats, consulting engineer, v/Bell Collins

*Approximate elevation at time of filing application. Ground elevation above mean sea level (masl) 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 report.
The pump test procedure for new wells shall consist of a step-drawdown test followed by a long-term continuous aquifer test. Testing the well and aquifer in the prescribed manner should result in the hydrologic information needed to determine: 1) the well's performance with regard to yield and water quality (chloride concentration), and 2) the nearby hydraulic properties of the aquifer.

**General Recording Requirements**

The records required for analysis and the tolerance in measurement acceptable for the step-drawdown and long-term continuous aquifer test are as follows:

1. Discharge from the well shall not fluctuate beyond ±10 percent.
2. Depth to water measurements in the pumped well shall be accurate to 0.01 feet.
3. Time shall be accurate within ±1 percent.
4. Water discharged from the well during the step-drawdown and long-term test shall be carried away from the well to a distance sufficient to preclude circulation of the discharge water downward to the ground-water table.
5. Recording of data should be on a form similar to Table 1. All information shown in Table 1 shall be provided. In addition, data shall be plotted on Graph 1 and provided.

**Step-Drawdown Test**

The purpose of the step-drawdown test is to establish the efficiency of the well and to provide preliminary information on the yield of the well, both from a quantity and quality standpoint.

1. Measurement of water level in the pumped well shall be made every 12 hours for a period of no less than two days prior to the initiation of the step-drawdown test in order to obtain the pretest trend in water levels.
2. The step-drawdown test will consist of continuously pumping the well for four hours at four different rates.
   a. The change from one pumping rate to the next must be sufficient to induce an observable change in water level in the well from the previous pumpage rate.
   b. If desired, the four different rates should represent the full range of pump capacity (if the yield can sustain this), but this is not necessary.
3. Each pumping rate should be continued for one hour, after which the new rate should be instituted as rapidly as possible.

4. Pumping should begin at the lowest rate and conclude with the highest rate.

5. Pumping should be continuous through the entire step-drawdown test.

6. Measurement of chloride concentration and temperature of the discharge water shall be measured at least five times:
   a. at the end of each pumping rate during the step-drawdown test, and
   b. at the very beginning of the test.

7. A sufficient number of water level measurements shall be made in the pumped well following the termination of the step-drawdown test to establish that the water level fully recovers from each test to pretest levels.

Long-Term Continuous Test

The purpose of the long-term continuous test is to determine the hydraulic properties of the aquifer to explore for and identify nearby aquifer boundaries such as streams or dikes, and to observe the trend in chloride concentration of the discharge water.

1. The long-term test should not commence until the water level in the pumped well has fully recovered from the step-drawdown test. Generally, the time required for this recovery will be slightly greater than four hours. The water level in the pumped well should be measured immediately before initiation of the long-term test.

2. The pump rate for the long-term test should be sufficient to create an observable drawdown.

3. The test should be run 24 hours per day for at least seven days. If during the test, the water level remains the same for a period of 24 hours, the test can be terminated.

4. Measurement of chloride concentration and temperature of the discharge water during the long-term test shall be made at the beginning of the test and every six hours thereafter.

5. Depth to water in all wells shall be measured with sufficient frequency that each logarithmic cycle in time on the data plots (Graph 1) contains at least 10 data points spread through the cycle. Thus, depth to water should be made at t=0 (immediately prior to start of the test), and as close as possible at t=1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, and 8 minutes for the first ten minutes and at all succeeding decimal multiples of these numbers to the end of the test (t=10, 15, 20, 25, 30, 40, 50, 60, 70, and 80 minutes for the log cycle 10 to 100 minutes, etc.)

6. A sufficient number of water level measurements shall be made in the pumped well following termination of the long-term continuous test to establish that the water level fully recovers from each test to pretest levels.
# Long-Term Aquifer Test Data

**Pumped Well No.** __________
**Observation well no.** __________
**Pumped Well Name** __________
**Distance between Obs. & Pumped Well** __________ ft.
**Target Q** __________ gpm
**Reference pt. for depth to water** __________ ft. msl
**Static Water Level @ start of test** __________ ft. msl

Water level measurements by:  
☐ steel tape  ☐ pressure transducer  ☐ airline

**START TEST**  
Date: __________  Hour of day: __________

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<td>Drawdown (unadjusted to nearest 0.01 ft)</td>
<td>Pumping rate Q (gpm)</td>
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<td>Max possible duration, water level or quality did not stabilize for any 24 period</td>
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Use same ending drawdown figure as start for recovery

Begin recovery data next page
Flow meter reading at end of pumped period:

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<th>Suggested elapsed time (min)</th>
<th>Actual elapsed time (min)</th>
<th>Depth to water (nearest 0.01 ft)</th>
<th>Recovery (unadjusted to nearest 0.01 ft)</th>
<th>Pumping rate Q (gpm)</th>
<th>EC (μmhos)</th>
<th>Cl⁻ (mg/l)</th>
<th>Temp. °F or °C</th>
<th>Data in this table is for: □ Pumped Well □ Observation Well Remarks</th>
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<td>□ 80% recovery achieved □ 80% recovery not achieved</td>
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END TEST Date: __________ Hour of day: __________

ADDITIONAL REMARKS:

Person in charge of pump test (print): ______________________________________________________

Signature: __________________________________________

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this aquifer test.

CWRM LTAT Form 1/9/96
STANDARD PERMIT CONDITIONS

1. The Commission on Water Resource Management shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences.

2. The pump installation permit shall be for installation of a 200 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 Commission (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 is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

5. The applicant shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Commission within thirty (30) days after completion of work.

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

7. The pump installation permit application and staff submittal approved by the Commission at its April 15, 1996 meeting are incorporated into the permit by reference.

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 well construction 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion 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 applicant must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.
MONTHLY GROUND WATER USE REPORT FOR

PVT Land Company
1210 Queen St., 2nd Floor
Honolulu, HI 96814

Month of __________, 19__
Date Measurement(s) Taken
( Month / Day / Year )

INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu HI 96809. For assistance, please call 887-0265 (Oahu only) or 1-800-488-4644 (neighbor islands).

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Water Level (ft. above msl)</th>
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Other comments or additional information:

Submitted by (print) ________________________
Title ________________________
Signature ________________________
Date ________________________
## MONTHLY GROUND WATER DELIVERY REPORT

*INFORMATION TO BE USED BY U.S. GEOLOGICAL SURVEY*

PVT Land Company  
1210 Queen St., 2nd Floor  
Honolulu, HI 96814

Month of __________, 19__

INSTRUCTIONS: Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use and other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu HI 96809. For assistance, please call 587-0265 (Oahu only) or 1-800-468-4644 (neighbor islands).

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Quantity Delivered (gallons)</th>
<th>Type of Use*</th>
<th>Field No(s)</th>
<th>Acres Irrigated</th>
<th>Crop Type</th>
<th>Method of Measurement**</th>
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* Use of water code:

- **A**: Aquaculture  
- **A**: Agriculture non-irrigation use (livestock, cane wash, etc.)
- **C**: Commercial  
- **I**: Industrial-manufacturing, construction, etc.
- **D**: Domestic  
- **H**: Hydroelectric power generation - indicate KWH of power generated
- **I**: Irrigation - Drip  
- **F**: Fuel power generation - cooling
- **I**: Irrigation - Furrow  
- **I**: Irrigation - Sprinkle

** For estimated values use code:

- **P**: Power consumption  
- **T**: Total time of operation  
- **D**: Comparison with past data  
- **X**: Other means - (indicate method)

Other comments or additional information:

Submitted by (print)  
Signature  
Title  
Date
**WELL COMPLETION REPORT**

3/20/96 WCR Form

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

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

1. State Well No.: 2308-02  Well Name: Lualualei-PVT  Island: Oahu
2. Location/Address: Lualualei, Oahu  Tax Map Key: 8-7-09-07

### PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: ___________________
4. Name of driller who performed work: ___________________
5. Type of rig/construction: ___________________
6. Date(s) Well Construction and pump tests (if any) completed: ___________________
7. GROUND ELEVATION (referenced to mean sea level, msl): __________ ft.
   Well Bench Mark (description/location): __________________ Elevation(msl): ______ ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)
   Depths (ft.)  Rock Description, Water Level, Dates, etc.  Depths (ft.)  Rock Description, Water Level, Dates, etc.
   ___________ to ___________  ___________ to ___________  ___________ to ___________  ___________ to ___________
   (If more space is needed, continue on back.)
9. Total depth of well below ground: ___________ ft.
10. Hole size: ___________ inch dia. from ___________ ft. to ___________ ft. below ground
     ___________ inch dia. from ___________ ft. to ___________ ft. below ground
     ___________ inch dia. from ___________ ft. to ___________ ft. below ground
11. Casing installed: ___________ in. I.D. x ___________ in. wall solid section to ___________ ft. below ground
    ___________ in. I.D. x ___________ in. wall perforated section to ___________ ft. below ground
    Casing Material/Slot Size: ___________________
12. Annulus: Grouted from ___________ ft. below ground to ___________ ft. below ground
    Gravel packed from ___________ ft. below ground to ___________ ft. below ground
13. Initial water level: ___________ ft. below ground. Date and time of measurement: ___________________
14. Initial chloride: ___________ ppm Date and time of sampling: ___________________
15. Initial temperature: ___________ °F Date and time of measurement: ___________________
16. PUMPING TESTS: Reference Point (R.P.) used: ___________ which elevation is ___________ ft.
   (1) Step-Drawdown Test Date ___________  (2) Long-term Aquifer Test Date ___________
   Start water level ___________ ft. below R.P.  Start water level ___________ ft. below R.P.
   End water level ___________ ft. below R.P.  End water level ___________ ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/9/96 LTAT Form) attached? __ Yes  __ No
18. As-built drawings attached? __ Yes  __ No
19. Other remarks/comments: ___________________

---

Well Drilling Contractor (print) ___________________  C-57 Lic. No. ___________
Signature ___________________________________________  Date ___________

Surveyor (print) ___________________  Lic. No. ___________
Signature ___________________________________________  Date ___________

Applicant (print) ___________________
Signature ___________________________________________  Date ___________


20. Pump Installation Company: ________________________________

21. Name of person performing work: ________________________________

22. Date Pump Installation Completed: ________________________________

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

24. As-built drawings attached? ___ Yes ___ No

25. Other remarks/comments: (See below)

Pump Installation Contractor (print) ________________________________ C-57 Lic. No. __________
Signature ________________________________ Date ________________________________

Applicant (print) ________________________________
Signature ________________________________ Date ________________________________

8. (cont'd) DRILLER'S LOG (cont'd):

<table>
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<tr>
<th>Water Level Dates</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks</th>
<th>Water Level Dates</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks</th>
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19. & 25. Remarks:

______________________________________________________________
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TO: Honorable Lawrence Miike, Director  
Department of Health  
Attn: Mr. Dennis Tulang, Wastewater Branch  
Mr. William Wong, Safe Drinking Water Branch

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

SUBJECT: Pump Installation Permit Application for Lualualei-PVT Well (Well No. 2308-02)

Transmitted for your review and comment is a copy of a Pump Installation Permit Application for Lualualei-PVT Well (Well No. 2308-02).

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 March 28, 1996.

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 Charley Ice of the Commission staff at 587-0251.

Response:

☐ We have no objections  
☐ Comments attached

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

Signed: Lori N. Kajiwara  
Date: 3/17/96
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attn: Mr. Dennis Tulang, Wastewater Branch
   Mr. William Wong, Safe Drinking Water Branch

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

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Response:

☐ We have no objections
☐ Comments attached

Contact Person: Bill Wong  Phone: 586-4258

Signed: Bill Wong  Date: 3/1/96
Mr. Vernon Chock  
PVT Land Company  
1210 Queen Street, Second Floor  
Honolulu, Hawaii 96814

Dear Mr. Chock:

Pump Installation Permit Application for  
    Lualualei-PVT Well (Well No. 2308-02)

The Commission on Water Resource Management (CWRM) accepted your pump installation permit application on January 9, 1996 and hereby acknowledge that it is complete. You can expect your application to be processed for action within ninety (90) days from that acceptance date.

Because we have no record of an aquifer pump test, §13-168-12(d) authorizes the CWRM to issue the permit only after receiving adequate pump test data to support the level of pumping you request. We are enclosing a copy of the pump testing procedure for your information as it may be required as a condition of your permit.

If you have any questions about your application, please contact Charley Ice of the Commission staff at 587-0251.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director
TO: Honorable Lawrence Milke, Director
Department of Health
Attn: Mr. Dennis Tulang, Wastewater Branch
Mr. William Wong, Safe Drinking Water Branch

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CI:ss
Attachment(s)

Response:

( ) We have no objections
( ) Comments attached

Contact Person: Phone:

Signed: Date:
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<td>Permit Application for Pump Installation at Well No. 2308-02 with attachments (USGS map and TMK map)</td>
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<td>Check for $25.00 Filing Fee</td>
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These are transmitted as checked below:

- [X] For approval
- [ ] For your use
- [ ] As requested
- [X] For review and comment

Remarks:

Transmitted herewith is the permit application, and related attachments, for pump installation at PVT Land Company Well No. 2308-02, for your review and approval. Also enclosed is a check for the $25.00 filing fee. Please contact our office if you have any questions. Thank you!
APPLICATION FOR PERMIT
[] Well Construction or [X] Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96805. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (circle primary contact@b, or c) [X] Primary Fax: 593-2220
   (a) WELL OWNER
      Firm/Name: PVT Land Company
      Contact Person: Vernon Chock
      Address: 1210 Queen St., 2nd Flr., Honolulu, Hawaii 96814
   (b) LANDOWNER
      Firm/Name: PVT Land Company
      Contact Person: Vernon Chock
      Address: 1210 Queen St., 2nd Flr., Honolulu, Hawaii 96814
   (c) CONTRACTOR
      Firm/Name: Roscoe Moss Hawaii, Inc.
      Contact Person: Vernon Chock
      Address: 91-259A Olai Street, Kapolei, Hawaii 96707

2. WELL LOCATION/NAME: Well 23B-02 Island: Oahu
   Address: 87-202 Farrington Highway
   (Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   [X] Drill New Well
   [X] Alter Location
   [X] Modify Existing Well
   [X] Redrill
   [X] Deepen
   [X] Abandon/Seal
   [X] Install New Pump
   [X] Replace Pump
   [X] Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   [X] Dug
   [X] Bored
   [X] Driven
   [X] Drilled
   [X] Radial
   Is this well a part of a battery of wells? [X] Yes [ ] No
   (briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 200 gallons per minute
   Pump Type:
   [X] Deep Well Turbine
   [X] Rotary
   [X] Submersible
   [X] Centrifugal
   Motor:
   [X] Rotary-Displacement
   [X] Reciprocating
   [X] Impulse
   [X] Electric, rated horsepower of 10 hp

5. PROPOSED USE:
   [X] Municipal (including hotels, stores, etc.)
   [X] Domestic (individual, noncommercial water sys.)
   [X] Irrigation (crop)
   State Land Use District:
   [X] Urban
   [X] Agriculture
   [X] Rural
   [X] Conservation
   County Zoning (describe):
   AG-2

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 100,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   [X] Flow-meter
   [X] Open-pipe
   [X] Orifice Plate
   [X] Weir

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

8. REMARKS, EXPLANATIONS: The pump is being installed to support proposed aquaculture facilities. The quantity of groundwater being withdrawn is the minimum to support the anticipated fish production.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within 2 (two) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) each approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

For Official Use Only:
Date Received 7/1/96
Date Accepted _______________________
Field Checked By _______________________
Date _______________________

Well Owner PVT Land Company Landowner PVT Land Company Contractor Roscoe Moss Hawaii, Inc.
Signature ________________ Signature ________________ Signature ________________
Date 12/14/95 Date 12/14/95 Date 12/21/95

Aquifer System Name: Waiakea/P4
State Well No. 2308-02

92595 WCP Form
8. Remarks, Explanations (cont'd): Water from the fish tanks will be discharged to a holding pond for use in dust control and irrigation at PVT's adjacent C&D Landfill.

9. PROPOSED WELL SECTION

Elevation at top of casing

Cement Grout: 120 ft.

Rock Packing NA ft.

Hole Diameter: NA in.

Total Depth 200 ft.

Ground Elevation: 109 ft., msl

Solid Casing:

Material: steel

Length 123 ft.

Diameter 6 in.

Wall thickness 0.25 in.

Casing: Screen Perforated

Material: Steel Lower

Length NA ft.

Diameter NA in.

Wall thickness 0.25 in.

Openings 0 sq. in./ft.

Open Hole:

Length 31 ft.

Diameter not applicable 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.

7/20/93 Amended per telecommunication w/ Cheryl Breshears, Consulting Engineer, W/Bell Collins.
Application for Pump Installation Permit
PVT Land Co.
Prepared By: Belt Collins Hawaii
December 1995
**PAY TO THE ORDER OF**  
Dept of Land and Natural Resources  

Twenty-Five and 00/100 DOLLARS

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**MEMO**

appl. water well  

---

**DEPARTMENT OF LAND AND NATURAL RESOURCES**

**DOCUMENT NO.**

**UAC OR ATTACHED WORKSHEET**  
**DATE:** FEB 26 1996

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**TOTAL**  
$76.00

**REMARKS:**  
LINE (1) Well #5616-02  
LINE (2) Well #3904-06  
LINE (3) Well #2308-02  
LINE (4)