**REGISTRATION OF WELL AND DECLARATION OF WATER USE**

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 548-3848 or 548-5986 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

<table>
<thead>
<tr>
<th>STATE WELL NO.</th>
<th>1952-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOURCE OR STATION NAME</td>
<td>(For a battery of wells):</td>
</tr>
</tbody>
</table>

**A. WELL OPERATOR**

<table>
<thead>
<tr>
<th>Firm name:</th>
<th>U.H. Dept of Geology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact person:</td>
<td>Dr. Frank Peterson</td>
</tr>
<tr>
<td>Address:</td>
<td>1525 CORREA ST.</td>
</tr>
<tr>
<td>Zip:</td>
<td>Honolulu, HI</td>
</tr>
<tr>
<td>Phone:</td>
<td></td>
</tr>
</tbody>
</table>

**B. OWNER OF WELL SITE**

<table>
<thead>
<tr>
<th>Firm name:</th>
<th>University of Hawaii</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact person:</td>
<td>Frank Peterson</td>
</tr>
<tr>
<td>Address:</td>
<td>Geology &amp; Geophysics Dept</td>
</tr>
<tr>
<td>Zip:</td>
<td>96822</td>
</tr>
<tr>
<td>Phone:</td>
<td></td>
</tr>
</tbody>
</table>

**C. WELL LOCATION**

| Tax Map Key: | 1-5-18-2 |
| Town, Place, District: | Honolulu, Oahu, HI |

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

**D. WELL DATA**

For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below. For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

- **Ground elevation** (mean sea level): 9 ft.
- **Reference point** (used to measure depth to water): Elevation: 9 ft.
- **Description:** ground surface
- **Depth to water** (below reference point): 8 ft.
- **Maximum recorded chloride:** ppm
- **Minimum recorded chloride:** ppm
- **Maximum chloride in 1987:** ppm
- **Salinity:** 6.0 ppt (11,000 micromhos conductivity)

**E. INSTALLED PUMP DATA**

- **Pump type:** Submersible
- **Power:** Electric, HP
- **Pump capacity:** gallons per minute

**For Official Use Only:**

Date received: 4-6-89
Date accepted: 
Field checked by: 
Date: 
Comments: 

Latitude: 21° 19' 52" Hydrologic Unit: 
Longitude: 157° 52' 22"
State Well No.: 1952-40

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded:  □ Daily  □ Weekly  □ Monthly
          □ Other (describe): _________________________

Method of measurement:  □ Flow Meter  □ Orifice
          □ Other (describe): _________________________

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>February</td>
<td>Note: this is a test well used for instructional purposes</td>
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<tr>
<td>March</td>
<td>only and is pumped on an irregular basis at rates less than 100 gpm for periods totaling less than 20 hours</td>
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<td>December</td>
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<tr>
<td>ANNUAL</td>
<td></td>
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</tr>
</tbody>
</table>

Minimum day's use: ___________________________ gallons
Maximum day's use: ___________________________ gallons
Typical times of usage: ___________________________

Type of Use (check all category boxes that apply and provide additional information as indicated):

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
<th>Number of service connections:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Municipal (including resorts, hotels, businesses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Domestic (systems serving 25 people or less)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Irrigation</td>
<td></td>
<td></td>
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<tr>
<td>□ Industrial</td>
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<tr>
<td>□ Military</td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Acres Irrigated:
Crop(s):  □ Sugar  □ Pineapple
          □ Other (specify):
Non-Crop:  □ Landscape  □ Golf Course
          □ Other (specify):
Method:  □ Drip  □ Furrow  □ Sprinkler
          □ Cooling  □ Manufacturing  □ Mill
          □ Other (specify):

Specify (livestock, aquaculture, etc.): _______________

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature ___________________________ Date: 3/30/89
Printed Name: Frank Peterson
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UH
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96804. Phone or for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO: 1962-A1
ISLAND: OAHU

WELL NAME OR DESIGNATION: H & C 0-1

SOURCE OR STATION NAME (For a battery of wells): 

A. WELL OPERATOR
Firm name: U. H. DEPT. OF GEOLOGY
Contact person: DR. FRANK PETERSON
Address: 2525 CORNER ST.
Honolulu, HI
Zip: 96822 Phone:

B. OWNER OF WELL SITE
Firm name: University of Hawaii
Contact person: Frank Peterson
Address: Geology & Geophysics Dept
Honolulu, HI
Zip: 96822 Phone: 948-7897

C. WELL LOCATION
Tax Map Key: 1-5-18-2 Town, Place, District: Honolulu, Oahu, HI
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): 9 ft.
Reference point (Used to measure depth to water): 9 ft.
Elevation: 
Description: ground surface

Depth to water (Below reference point): 8 ft.
Maximum recorded chloride: ppm
Minimum recorded chloride: ppm
Maximum chloride in 1987: ppm
Salinity = 6.0 ppt (11,000 micromhos conductivity)

Year drilled or constructed: 1987
Well contractor: Walter Lum Associates
Casing diameter: 2.5 in.
Solid casing depth (Below ground): 10 ft.
Perforated casing depth (Below ground): 29 ft.
Total depth of well: 39 ft.
Minimum chloride in 1987:

E. INSTALLED PUMP DATA
Pump type: Vertical shaft
Submersible
Centrifugal
Other (specify): 
Power: Diesel, ___ HP Gas, ___ HP Electric, ___ HP Other (specify): 
Pump capacity: ___ gallons per minute
Pump installation contractor:

For Official Use Only:
Date received: 4-5-89 Date accepted: 
Field checked by: Date: ___ Latitude: 21° 19' 32" Hydrologic Unit:
Comments: ____________ Longitude: 157° 52' 22" State Well No.: 1962-A1

References: Hawaii Revised Statutes, Chapter 1740.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: [ ] Daily [ ] Weekly [ ] Monthly
Method of measurement: [ ] Flow Meter [ ] Orifice [ ] Other (describe): 

Quantity of Use (Report measured or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

<table>
<thead>
<tr>
<th>WATER USE, IN GALLONS x 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
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<tr>
<td>March</td>
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<td>April</td>
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<td>May</td>
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<td>October</td>
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<tr>
<td>November</td>
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<tr>
<td>December</td>
</tr>
</tbody>
</table>

Minimum day's use: ___________ gallons Maximum day's use: ___________ gallons
Typical times of usage:

Type of Use (Check all category boxes that apply and provide additional information as indicated):

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Municipal (including hotels, businesses)</td>
<td></td>
</tr>
<tr>
<td>[ ] Domestic (systems serving 22 people or less)</td>
<td></td>
</tr>
<tr>
<td>[ ] Irrigation</td>
<td></td>
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<tr>
<td>[ ] Industrial</td>
<td></td>
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<tr>
<td>[ ] Military</td>
<td></td>
</tr>
<tr>
<td>[ ] Other</td>
<td></td>
</tr>
</tbody>
</table>

Number of service connections: ___________
Acres irrigated: ___________
Crop(s): [ ] Sugar [ ] Other (specify) [ ] Pineapple [ ] Other (specify):__
Non-Crop: [ ] Landscape [ ] Golf Course [ ] Other (specify):__
Method: [ ] Drip [ ] Furrow [ ] Sprinkler [ ] Cooling [ ] Manufacturing [ ] Mill [ ] Other (specify):__

Specify (livestock, aquaculture, etc.): ___________

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: ___________ Date: 3/30/89
Printed Name: Frank Peterson
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UH
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as NA. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 548-3046 or 948-3051 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO: 1952-A2
WELL NAME OR DESIGNATION: HCC 0.2
ISLAND: OAHU

A. WELL OPERATOR
Firm name: U. H. DEPT. OF GEOLOGY
Contact person: Dr. FRANK PETERSON
Address: 2575 CORREA ST.
Honolulu, HI
Zip: 96822 Phone:

B. OWNER OF WELL SITE
Firm name: University of Hawaii
Contact person: Frank Peterson
Address: Geology & Geophysics Dept.
Honolulu, HI
Zip: 96822 Phone: 948-7897

C. WELL LOCATION
Tax Map Key: 1-5-18-2
Town, Place, District: Honolulu, Oahu, HI
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): __ ft.
Reference point (Used to measure depth to water):
Elevation: __ ft.
Description: ground surface
Depth to water (Below reference point): __ ft.
Maximum recorded chloride: __ ppm
Minimum recorded chloride: __ ppm
Maximum chloride in 1987: __ ppm
Salinity = 5.7 ppt (10,000 microsiemens conductivity)

Year drilled or constructed: 1987
Well contractor: Walter Lum Associates
Casing diameter: __ in.
Solid casing depth (Below ground): __ ft.
Perforated casing depth (Below ground): __ ft.
Total depth of well: __ ft.

Minimum chloride in 1987: __ ppm

E. INSTALLED PUMP DATA
Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify):
Power: □ Diesel, __ HP □ Gas, __ HP □ Electric, __ HP □ Other (specify):
Pump capacity: __ gallons per minute
Pump installation contractor:

... (continued over)

For Official Use Only:
Date received: __ Date accepted:
Field checked by: __ Date: __
Comments:

Latitude: __° __' _._" Hydrologic Unit:
Longitude: __° __' _._" State Well No.: 1952-42

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily □ Weekly □ Monthly  
□ Other (Describe): ____________________________

Method of measurement: □ Flow Meter □ Orifice  
□ Other (Describe): ____________________________

Quantity of Use (Report measured or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
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<tr>
<td>December</td>
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</tr>
</tbody>
</table>

Minimum day's use: _______________ gallons  Maximum day's use: _______________ gallons

Typical times of usage: ____________________________

Type of Use (check all category boxes that apply and provide additional information as indicated):

- □ Municipal (including resorts, hotels, businesses)  
  Additional Information: ____________________________

- □ Domestic (systems serving 25 people or less)  
  Number of service connections: ____________________________

- □ Irrigation  
  Acres Irrigated: ____________________________
  Crop(s): □ Sugar □ Other (specify): Pineapple
  Non-Crop: □ Other (specify): ____________________________
  Method: □ Drip □ Furrow □ Sprinkler

- □ Industrial  
  □ Cooling □ Manufacturing □ Mill  
  Other (specify): ____________________________

- □ Military  
  Additional Information: ____________________________

- □ Other  
  Specify (livestock, aquaculture, etc.): ____________________________

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: ____________________________  Date: 3/30/89
Printed Name: Frank Peterson  
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UH
REGISTRATION OF WELL AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 948-7897 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 1962-A3
WELL NAME OR DESIGNATION: HCE D-3
ISLAND: OAHU

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: U.I. Dept. of Geology
Contact person: Dr. Frank Peterson
Address: 2525 Corriev St.
Honolulu, HI
Zip: 96822 Phone: 948-7897

B. OWNER OF WELL SITE
Firm name: University of Hawaii
Contact person: Frank Peterson
Address: Geology & Geophysics Dept.
Honolulu, HI
Zip: 96822 Phone: 

C. WELL LOCATION
Tax Map Key: 1-5-18-2 Town, Place, District: Honolulu, Oahu, HI
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (mean sea level): 9 ft.
Reference point (Used to measure depth to water): 9 ft.
Elevation: Description: ground surface

Depth to water (below reference point): 8 ft.
Maximum recorded chloride: 29 ppm
Minimum recorded chloride: 8 ppm
Maximum chloride in 1987: 7.2 ppm
Salinity = 7.2 ppt (13,000 micromhos conductivity)

Year drilled or constructed: 1987
Well contractor: Walter Lum Associates
Casing diameter: 2.5 in.
Solid casing depth (below ground): 10 ft.
Perforated casing depth (below ground): 29 ft.
Total depth of well: 39 ft.
Minimum chloride in 1987: 29 ppm

E. INSTALLED PUMP DATA
Pump type: • Vertical shaft • Submersible • Centrifugal • Other (specify):
Power: • Diesel, ___ HP • Gas, ___ HP • Electric, ___ HP • Other (specify):

Pump capacity: ___ gallons per minute
Pump installation contractor: 

...(continued over)
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: ☐ Daily ☐ Weekly ☐ Monthly
☐ Other (describe):

Method of measurement: ☐ Flow Meter ☐ Orifice
☐ Other (describe):

Quantity of Use (Report measured or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td>January</td>
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<td>June</td>
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<td>NONE - OBSERVATION WELL ONLY</td>
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<td>July</td>
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<td>ANNUAL</td>
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</tbody>
</table>

Minimum day's use: _______ gallons Maximum day's use: _______ gallons
Typical times of usage: _____________________________

Type of Use (Check all categories that apply and provide additional information as indicated):

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Municipal (including resorts, hotels, businesses)</td>
<td>Number of service connections: _______</td>
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<tr>
<td>☐ Domestic (systems serving 25 people or less)</td>
<td>Acres Irrigated: _______</td>
</tr>
<tr>
<td>☐ Irrigation</td>
<td>Crop(s): ☐ Sugar ☐ Pineapple</td>
</tr>
<tr>
<td>☐ Other (specify):</td>
<td></td>
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<tr>
<td>☐ Non-Crop: ☐ Landscape ☐ Golf Course</td>
<td></td>
</tr>
<tr>
<td>Method: ☐ Drip ☐ Furrow ☐ Sprinkler</td>
<td></td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Cooling ☐ Manufacturing ☐ Mill</td>
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<td>☐ Other (specify):</td>
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<td>☐ Military</td>
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<td>☐ Other</td>
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<tr>
<td>☐ Other (specify):</td>
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<tr>
<td>Specify (livestock, aquaculture, etc.):</td>
<td></td>
</tr>
</tbody>
</table>

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: ______________________ Date: 3/30/89
Printed Name: Frank Peterson
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UH
**STATE OF HAWAII**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**DIV. OF WATER & LAND DEVELOPMENT**

**REGISTRATION OF WELL**  
**AND DECLARATION OF WATER USE**

**INSTRUCTIONS:** Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 379, Honolulu, Hawaii 96809. Phone 948-7897 or 948-7897 for assistance.

**BATTERY OF WELLS:** For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

---

**STATE WELL NO.: 1987-4A**  
**WELL NAME OR DESIGNATION: **  
**SOURCE OR STATION NAME (for a battery of wells):**

---

A. WELL OPERATOR  
Firm name: U. H. Dept. of Geology  
Contact person: DR. FRANK PETERSON  
Address: 9626 CORREA ST.  
Honolulu, HI  
Zip: 96822 Phone: 

---

B. OWNER OF WELL SITE  
Firm name: University of Hawaii  
Contact person: Frank Peterson  
Address: Geology & Geophysics Dept.  
Honolulu, HI  
Zip: 96822 Phone: 948-7897

---

C. WELL LOCATION  
Tax Map Key: 1-3-18-2  
Town, Place, District: Honolulu, Oahu, HI  
Attach USGS "Quad" map (scale 1:24,000), tax map; or other map showing the well location.

---

D. WELL DATA  
For Drilled Wells, submit "as-built" drawing, driller’s log, and pump test results, and complete items below.  
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground elevation (mean sea level)</td>
<td>9 ft.</td>
</tr>
<tr>
<td>Reference point (used to measure depth to water)</td>
<td>9 ft.</td>
</tr>
<tr>
<td>Elevation</td>
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<tr>
<td>Depth to water (below reference point)</td>
<td>8 ft.</td>
</tr>
<tr>
<td>Maximum recorded chloride</td>
<td>ppm</td>
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<tr>
<td>Minimum recorded chloride</td>
<td>ppm</td>
</tr>
<tr>
<td>Maximum chloride in 1987</td>
<td>ppm</td>
</tr>
<tr>
<td>Ground surface</td>
<td></td>
</tr>
<tr>
<td>Casing diameter</td>
<td>2.5 in.</td>
</tr>
<tr>
<td>Solid casing depth (below ground)</td>
<td>10 ft.</td>
</tr>
<tr>
<td>Perforated casing depth (below ground)</td>
<td>29 ft.</td>
</tr>
<tr>
<td>Total depth of well</td>
<td>39 ft.</td>
</tr>
<tr>
<td>Salinity</td>
<td>7.0 ppt (12,500 microhmhos conductivity)</td>
</tr>
</tbody>
</table>

---

E. INSTALLED PUMP DATA  
NONE

---

**For Official Use Only:**

<table>
<thead>
<tr>
<th>For Official Use Only:</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Date received</td>
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<td>Date accepted</td>
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<tr>
<td>Field checked by</td>
<td>Date</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
</tr>
</tbody>
</table>

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References: Hawaii Revised Statutes, Chapter 174C.  
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: ☐ Daily ☐ Weekly ☐ Monthly
Method of measurement: ☐ Flow Meter ☐ Orifice
Other (Describe):

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
<thead>
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<td>ANNUAL</td>
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</tbody>
</table>

Minimum day's use:_________ gallons  Maximum day's use:_________ gallons
Typical times of usage:

Type of Use (Check all category boxes that apply and provide additional information as indicated):

- ☐ Municipal (Including cities, towns, and other water users)
- ☐ Domestic (Systems serving 25 people or less)
- ☐ Irrigation
- ☐ Non-Crop: ☐ Landscape ☐ Golf Course
- ☐ Other (specify):
  - Method: ☐ Drip ☐ Furrow ☐ Sprinkler
- ☐ Industrial
- ☐ Other (specify):
  - ☐ Cooling ☐ Manufacturing ☐ Mill
- ☐ Military
- ☐ Other
  - Specify (livestock, aquaculture, etc.):

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: __________________________ Date: 3/30/89
Printed Name: Frank Peterson
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UN
REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 548-3648 or 548-7442 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 1952-AS
WELL NAME OR DESIGNATION: Helo-0-5
ISLAND: Oahu

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: University of Hawaii
Contact person: Frank Peterson
Address: 9685 Coral St.
Honolulu, HI
Zip: 96822
Phone: 

B. OWNER OF WELL SITE
Firm name: Walter Lum Associates
Contact person: Frank Peterson
Address: Geology & Geophysics Dept.
Honolulu, HI
Zip: 96822
Phone: 

C. WELL LOCATION
Tax Map Key: 1-5-18-2
Town, Place, District: Honolulu, Oahu, HI

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (mean sea level): 9 ft.
Reference point (Used to measure depth to water): 9 ft.

Depth to water (Below reference point): 8 ft.
Maximum recorded chloride: 10 ppm
Minimum recorded chloride: 20 ppm
Maximum chloride in 1987: 29 ppm
Salinity = 7.0 ppt (12,500 micromhos conductivity)

E. INSTALLED PUMP DATA
Pump type: Vertical shaft
Power: Diesel, 5 HP
Pump capacity: 100 gallons per minute
Pump installation contractor:

... (continued over)
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily □ Weekly □ Monthly

Method of measurement: □ Flow Meter □ Orifice □ Other (describe):

Quantity of Use (Report measured or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

WATER USE, IN GALLONS x 1000

<table>
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<td>NONE = OBSERVATION WELL ONLY</td>
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Minimum day's use: ___________ gallons  Maximum day's use: ___________ gallons

Typical times of usage: ________________________________

Type of Use (check all category boxes that apply and provide additional information as indicated):

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<td>Crop(s): □ Sugar □ Pineapple</td>
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I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: ____________________________ Date: 3/30/89
Printed Name: Frank Peterson
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UH
REGISTRATION OF WELL

AND

DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 1952-AL

WELL NAME OR DESIGNATION: HEC 0-6

ISLAND: OAHU

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR

Firm name: UH DEPT. OF GEOLOGY

Contact person: DR. FRANK PETERSON

Address: 94-5 Corner St.

Honolulu, HI

Zip: 96822

Phone: [Redacted]

B. OWNER OF WELL SITE

Firm name: University of Hawaii

Contact person: Frank Peterson

Address: Geology & Geophysics Dept.

Honolulu, HI 96822

Zip: 96822

Phone: 948-7897

C. WELL LOCATION

Tax Map Key: 1-5-18-2

Town, Place, District: Honolulu, Oahu, HI

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA

For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.

For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (mean sea level): 91 ft.

Reference point (Used to measure depth to water): 9 ft.

Elevation: [Redacted]

Description: Ground surface

Depth to water (below reference point): 91 ft.

Maximum recorded chloride: ______ ppm

Minimum recorded chloride: ______ ppm

Maximum chloride in 1987: ______ ppm

Year drilled or constructed: 1987

Well contractor: Walter Lum Associates

Reference point (used to measure depth to water): [Redacted]

Casing diameter: 2.5 in.

Solid casing depth (below ground): ______ ft.

Perforated casing depth (below ground): ______ ft.

Total depth of well: ______ ft.

3 nested piezometers, bottom 2 ft perforated

Minimum chloride in 1987: ______ ppm

Ground surface

Salinity = 6.0 ppt (11,000 micromhos conductivity)

E. INSTALLED PUMP DATA

Pump type: [ ] Vertical shaft [ ] Submersible [ ] Centrifugal [ ] Other (specify): [ ]

Power: [ ] Diesel, ______ HP [ ] Gas, ______ HP [ ] Electric, ______ HP [ ] Other (specify): [ ]

Pump capacity: ______ gallons per minute

Pump installation contractor: [ ]

[Redacted]

For Official Use Only:

Date received: [Redacted]

Date accepted: [Redacted]

Field checked by: [Redacted]

Date: [Redacted]

Latitude: 21° 19' 25" Hydrologic Unit: [ ]

Longitude: 157° 52' 22"

State Well No.: 1952-AL

References: Hawaii Revised Statutes, Chapter 174C.

Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily □ Weekly □ Monthly □ Other (describe):  

Method of measurement: □ Flow Meter □ Orifice □ Other (describe):  

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):  

WATER USE, IN GALLONS x 1000

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</table>

Minimum day’s use: _______________ gallons Maximum day’s use: _______________ gallons

Typical times of usage: _______________ 

Type of Use (Check all category boxes that apply and provide additional information as indicated):  

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
</tr>
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<td>□ Domestic (systems serving 50 people or less)</td>
<td></td>
</tr>
<tr>
<td>□ Irrigation</td>
<td>Number of service connections: ______________________</td>
</tr>
<tr>
<td>□ Irrigation</td>
<td>Acres Irrigated: ______________________</td>
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<tr>
<td>□ Irrigation</td>
<td>Crop(s): □ Sugar □ Pineapple</td>
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<td>□ Irrigation</td>
<td>□ Other (specify): ______________________</td>
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<tr>
<td>□ Irrigation</td>
<td>Non-Crop: □ Landscape □ Golf Course</td>
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<td>□ Other (specify): ______________________</td>
</tr>
<tr>
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<td>Method: □ Drip □ Furrow □ Sprinkler</td>
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<td>□ Irrigation</td>
<td>□ Cooling □ Manufacturing □ Mill</td>
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<tr>
<td>□ Irrigation</td>
<td>□ Other (specify): ______________________</td>
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<tr>
<td>□ Industrial</td>
<td>Specifying (livestock, aquaculture, etc.): ______________________</td>
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<tr>
<td>□ Military</td>
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<tr>
<td>□ Other</td>
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</tr>
</tbody>
</table>

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User’s Signature: ______________________ Date: 3/30/89

Printed Name: Frank Peterson

Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UNH
Date of report: June 1, 1987
Person filing report: Frank Peterson

A. OWNER: University of Hawaii
NAME: P-1
ISLAND: Oahu

B. GENERAL LOCATION: Honolulu Community College

C. DRILLING COMPANY: Walter Lum Associates

D. TYPE OF RIG: Hollow stem auger
DRILLING COMPLETED: 5/15/87
DRILLER: Tayer

E. ELEVATION, msl: Top of drilling platform 9 ft
Height of drilling platform above ground surface 9 ft

F. HOLE SIZE: 9 inch dia. to 40 ft below drilling platform.

G. CASING INSTALLED:
- 6 in. I.D. x 1/2 in. wall solid section to 10 ft below drilling platform.
- 6 in. I.D. x 1/2 in. wall perforated section to 34 ft below drilling platform.
Type of perforation: slotted PVC

H. ANNULUS: Grouted 0 ft to 5 ft below drilling platform.
Gravel packed 5 ft to 34 ft below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no.: NONE
- Capacity: g.p.m.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting below well: which elevation is ft
- Depth of bottom of airline below well: which elevation is ft

J. INITIAL WATER LEVEL: 9 ft below drilling platform, Date of measurement: 5/12/87
K. INITIAL CHLORIDE: ppm, total depth of well: 34 ft below drilling platform

L. PUMPING TESTS:
Reference point (R.P.) used: which elevation is ft
Date: Date: Sampling Date:

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
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M. DRILLER'S LOG:

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N. REMARKS: pumped only few days/year with portable gasoline pump, educational purposes

INSTRUCTIONS: Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.
RECEIVED
37 JUN 3  P1: 38
DIV. OF WATER &
LAND DEVELOPMENT
**DEPARTMENT OF LAND & NATURAL RESOURCES**
**DIVISION OF WATER AND LAND DEVELOPMENT**

**DRILLER'S REPORT**

---

**DESCRIPTION**

Date of report: June 1, 1987
Person filing report: Frank Peterson

A. OWNER: University of Hawaii  NAMe: 0-1 thru 0-5  ISLAND: Oahu
B. GENERAL LOCATION: Honolulu Community College
C. DRILLING COMPANY: Walter Lum Associates
D. TYPE OF RIG: hollow stem auger  DRILLING COMPLETED: 5/15/87  DRILLER: Teyer

---

**ELEVATION**, msl: Top of drilling platform 9 ft. Bench mark and method used to determine Height of drilling platform above ground surface: 0 ft. elevation.

**HOLE SIZE**: 6 inch dia. to 40 ft. below drilling platform.
6 inch dia. to 40 ft. below drilling platform.
6 inch dia. to 40 ft. below drilling platform.

**CASING INSTALLED**: 2% in. I.D. x 6 in. wall solid section to 10 ft. below drilling platform.
2% in. I.D. x 6 in. wall perforated section to 39 ft. below drilling platform.

**HYDROLOGY**

J. INITIAL WATER LEVEL: 9 ft. below drilling platform. Date of measurement: 5/15/87
K. INITIAL CHLORIDE: ppm, total depth of well 39 ft. below drilling platform

**PUMPING TESTS**: Reference point (R.P.) used: which elevation is ft. Sampling Date Date

<table>
<thead>
<tr>
<th>Start water level</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. °F</th>
<th>Elapsed Time (hours)</th>
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**SUBSURFACE FORMATION**

**DRILLER'S LOG**:

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
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**N. REMARKS**:

total of 6.2% inch PVC-cased observation wells; educational purposes.

---

**FOR OFFICIAL USE**
Latitude: 21° 19' 52"
Longitude: 151° 52' 56"
Well No.: 1962-41-45

**FOR DRILLER'S USE**
Job Name: 
Job No.: 

---

**INSTRUCTIONS**:
Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

DEPARTMENT OF LAND & NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

DRILLER'S REPORT

Date of report: June 1, 1987
Person filing report: Frank Peterson

A. OWNER
University of Hawaii
NAME: 0-6
ISLAND: Oahu

B. GENERAL LOCATION
Honolulu Community College

C. DRILLING COMPANY
Walter Lum Associates

D. TYPE OF RIG
hollow stem auger

E. ELEVATION, msl: Top of drilling platform 9 ft. Bench mark and method used to determine
Height of drilling platform above ground surface 0 ft. elevation:

F. HOLE SIZE:
inch dia. to ft. below drilling platform.
inch dia. to ft. below drilling platform.
inch dia. to ft. below drilling platform.

G. CASING INSTALLED:
in. I.D. x in. wall solid section to ft. below drilling platform.
see drawing
Type of perforation

H. ANNULUS:
Gravel packed ft. to ft. below drilling platform.
Gravel packed ft. to ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no.: None
- Capacity: g.p.m.
- Motor type, H.P., voltage, r.p.m.: 
- Depth of pump intake setting: ft. below which elevation is ft.
- Depth of bottom of airline: ft. below which elevation is ft.

HYDROLOGY

J. INITIAL WATER LEVEL: 9 ft. below drilling platform. Date of measurement: 5/15/87
K. INITIAL CHLORIDE: ppm, total depth of well ft. below drilling platform

L. PUMPING TESTS:
Reference point (R.P.) used: which elevation is ft.

M. DRILLER'S LOG:


N. REMARKS: nested piezometers; bottom 2 ft. of each perforated, rest solid casing

INSTRUCTIONS:
Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

REFERENCES:

FOR OFFICIAL USE
Latitude 21°19'14"
Longitude 157°52'24"
Well No. 1952-46

FOR DRILLER'S USE
Job Name
Job No.
**LOG OF BORING**

**PROJECT**

**LOCATION**

**BORING NO.**

**Type of Boring**

**Driller**

**Date** 5-11-87

**Diam.** 4' 2"

**Elev.**

**Datum**

**Field Party**

**Water**

**Level**

**Time**

**Date**

---

<table>
<thead>
<tr>
<th>Sampler</th>
<th>Time</th>
<th>Depth of Casing</th>
<th>Sample No.</th>
<th>Sample Depth</th>
<th>Blows/ft</th>
<th>Sample Recovery</th>
<th>Depth in Feet and Change</th>
<th>DESCRIPTION</th>
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**Note:** Show location of borings by sketch in space provided or on back of first sheet of each day's work.

Walter Lum Associates, Inc.
Civil Engineers
**LOG OF BORING**

**Project:** UCC Wells  
**Location:**

<table>
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<tr>
<th>Sample</th>
<th>Time</th>
<th>Depth of Casing</th>
<th>Sample</th>
<th>Depth</th>
<th>Blows/ft</th>
<th>Sampler</th>
<th>Recovery</th>
<th>Soil Graph</th>
<th>Description</th>
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<td>Soil type, firmness, sampler driving records, depth and driving of casing, depth drilling mud used, groundwater variations and times.</td>
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- **Sampler:** Split Spoon, Thin Wall Tube
- **Driller:** W. Lum Assoc.
- **Date:** 5-11-87
- **Diam.:** 4" x 6"  

**Notes:** Show location of borings by sketch in space provided or on back of first sheet of each day's work.

Walter Lum Associates, Inc.  
Civil Engineers
TO: Dr. Frank Peterson
University of Hawai'i Geology Department
2525 Correa Road
Honolulu, Hawaii 96822

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill one 6-inch diameter test well and three 3-inch diameter observation wells into the caprock aquifer, State Well Nos. 1952-40 to 43, for educational use is approved subject to the following conditions:

1. Driller's Well Completion Reports (enclosed) shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the wells.

2. "As-built" drawings of the wells and a map showing the exact location of the wells shall be submitted upon completion of the wells.

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

Date of Issuance
April 21, 1987

WILLIAM W. PATY
Chairperson of the Board

Enc. (Four Driller's Report Forms)
cc: USGS
   DOH, Drinking Water Program
   Honolulu BWS
AS-BUILT CONSTRUCTION PLANS

1952-A0
WELL P-1

- ground elev. = 9 ft
- grout = 5 ft
- solid PVC casing 6 in diam, 10 ft
- perforated PVC casing 6 in diam, 24 ft
- gravel pack = 29 ft
- total depth = 34 ft

1952-A1 to A5
WELLS 0-1 - 0-5

- ground elev. = 9 ft
- grout = 5 ft
- solid PVC casing 2½ in diam, 5 ft
- perforated PVC casing 2½ in diam, 34 ft
- gravel pack = 34 ft
- total depth = 39 ft

1952-A6
WELL 0-6

- ground elev. = 9 ft
- grout = 5 ft
- solid PVC casing ⅞ in diam, 10.5 ft
- perforated PVC casing ⅞ in diam, 2 ft
- solid PVC casing ⅞ in diam, 16 ft
- perforated PVC casing ⅞ in diam, 2 ft
- gravel pack = 2 ft around perforations
- clay backfilled between gravel pack layers
- solid PVC casing ⅞ in diam, 29 ft
- perforated PVC casing ⅞ in diam, 2 ft
- total depth = 31 ft
Date 4/14 Time 10:00 a.m. Mr./Ms. Dr. Peterson
Memo To: Dan St. Ed of UI
Memo From: Phone 948-1887
Message: He brought his permit this a.m. We spoke to him last week. Call him regarding progress.

- Telephoned
- Please Phone
- Returned Your Call
- Urgent Call At Once
- Will Call Again
- Wants to See You
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES

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 Oahu Tax Map Key 1-5-18-2. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER UH Geology Dept (Frank Peterson) Telephone 948-7897
Address 2525 Correa Rd, Honolulu, HI Zip Code 96822

3. PROPOSED DRILLING COMPANY: Walter Lum 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): SEE DESCRIPTION ON BACK

PROPOSED SECTION OF WELL

Elevation at top of casing

Ground Elevation: 9 ft. msl

Cement Grout: 10 ft.

Hole Diameter: 6 in.

Total Depth: 40 ft.

Rock Packing: 30 ft.

NOTE: section shown here is for 6-inch test well; 3-inch observation wells will be same except that they will have 3-inch diameters.

*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) ☐ Educational

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount. ☐ Daily _______ gallons ☐ Monthly _______ gallons ☐ Yearly 10,000 gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 100 gallons per minute

Signature: Frank Peterson Date: April 13, 1987
Water User

Signature: Peter Peterson
Landowner of Well Site

Date: 4/4/87

For Official Use:
State Well No. 1952-40x43
DLNR Permit No. 
DLNR Application No.

RCVD – 14 Apr 87
DESCRIPTION OF WORK

Work will consist of drilling a 6-inch test well and three 3-inch observation wells all located within 50 feet of the test well. The use of this facility is for educational purposes to demonstrate well testing procedures in conjunction with UH hydrology classes. The facility will be used only a few days each year with total pumpage of only a few thousand gallons per year. The wells will be located adjacent to the Aquaculture Facility at Honolulu Community College campus, approximately 600 feet north of Dillingham Blvd and 300 feet east of Kokea St (see attached site map with well site indicated by red dot). The wells will be drilled approximately 40 feet into the underlying caprock sediments. The water at this site is brackish and cannot be used for domestic purposes.
Scale: 1" = 93'
- Existing aquaculture well
- Proposed test well
- Proposed observation wells

Kapalama Incinerator

Aquaculture Facility

Bldg 3
Bldg 7
Bldg 2

Dillingham Blvd