STATE WELL NO.: 1952-40

WELL NAME OR DESIGNATION: UCC P-1

ISLAND: OAHU

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: 9525 CORREA ST.

Honolulu, HI

Zip: 96822 Phone: [Blank]

B. OWNER OF WELL SITE

Firm name: University of Hawaii

Contact person: Frank Peterson

Address: Geology & Geophysics Dept

Honolulu, HI

Zip: 96822 Phone: [Blank]

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 microhm 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: [Blank]

... (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): __________________________

Quantitative 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):

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

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

Typical times of use:

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

- □ Municipal (including resorts, hotels, businesses)
- □ Domestic (systems serving 25 people or less)
- □ Irrigation
- □ Industrial
- □ Military
- □ Other

- □ Other (specify):

- □ Crop(s): □ Sugar □ Pineapple
- □ Non-Crop: □ Landscape □ Golf Course

- □ Method: □ Drip □ Furrow □ Sprinkler
- □ Other (specify):

- □ Acres Irrigated:

- □ Number of service connections:

- □ Specifying (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 WELL NO.: 1962-41
WELL NAME OR DESIGNATION: U.E. O.1
ISLAND: OAHU

A. WELL OPERATOR
Firm name: U. H. Dept of Geology
Contact person: Dr. Frank Peterson
Address: 7545 CORNER ST., Honolulu,
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: 248-7897

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): __________ ft.
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 = 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: __________ ppm

E. INSTALLED PUMP DATA
Pump type: Vertical shaft
Power: Diesel, __________ HP
Pump capacity: __________ gallons per minute

For Official Use Only:
Date received: 4-5-89 Date accepted: __________
Field checked by: __________ Date: __________
Comments: __________

Latitude: 21° 19' 32" Hydrologic Unit:
Longitude: 157° 52' 22"
State Well No.: 1962-41

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):

<table>
<thead>
<tr>
<th>WATER USE, IN GALLONS x 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
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<td>March</td>
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<td>November</td>
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<tr>
<td>December</td>
</tr>
<tr>
<td>ANNUAL</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 resorts, hotels, businesses)</td>
<td></td>
</tr>
<tr>
<td>□ Domestic (systems serving 22 people or less)</td>
<td>Number of service connections:</td>
</tr>
<tr>
<td>□ Irrigation</td>
<td>Acres irrigated:</td>
</tr>
<tr>
<td>□ Crop(s):</td>
<td>Sugar</td>
</tr>
<tr>
<td>□ Other (specify):</td>
<td>Pineapple</td>
</tr>
<tr>
<td>□ Non-Crop:</td>
<td>Landscape</td>
</tr>
<tr>
<td>□ Other (specify):</td>
<td>Golf Course</td>
</tr>
<tr>
<td>□ Method:</td>
<td>Drip</td>
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<tr>
<td>□ Furrow</td>
<td>Sprinkler</td>
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<td>□ Cooling</td>
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<td>□ Manufacturing</td>
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<td>□ Mill</td>
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<td>□ Other (specify):</td>
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<td>□ Industrial</td>
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<tr>
<td>□ Military</td>
<td></td>
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<tr>
<td>□ Other</td>
<td>Specify (livestock, aquaculture, etc.):</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:  
Printed Name: Frank Peterson  
Firm or Title (Well Operator, etc.): Professor of Hydrogeology, UN  
Date: 3/30/89
**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 548-3046 or 548-8322 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**

<table>
<thead>
<tr>
<th>WELL NAME OR DESIGNATION:</th>
<th>ALC 0-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source or Station Name:</strong></td>
<td>OAHU</td>
</tr>
</tbody>
</table>

### A. WELL OPERATOR

**Firm name:** University of Hawaii

**Contact person:** Frank Peterson

**Address:** Geology & Geophysics Dept.
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:** 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.**

<table>
<thead>
<tr>
<th><strong>Ground elevation (Mean sea level):</strong></th>
<th>9 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference point (used to measure depth to water):</strong></td>
<td>9 ft.</td>
</tr>
<tr>
<td><strong>Elevation:</strong></td>
<td>9 ft.</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>ground surface</td>
</tr>
<tr>
<td><strong>Depth to water (below reference point):</strong></td>
<td>8 ft.</td>
</tr>
<tr>
<td><strong>Maximum recorded chloride:</strong></td>
<td>5.7 ppm</td>
</tr>
<tr>
<td><strong>Minimum recorded chloride:</strong></td>
<td>2.5 ppm</td>
</tr>
<tr>
<td><strong>Maximum chloride in 1987:</strong></td>
<td>39 ft.</td>
</tr>
<tr>
<td><strong>Minimum chloride in 1987:</strong></td>
<td>20 ft.</td>
</tr>
<tr>
<td><strong>Salinity = 5.7 ppt (10,000 microsiemens conductivity)</strong></td>
<td></td>
</tr>
</tbody>
</table>

### E. INSTALLED PUMP DATA

**Pump type:** None

**Power:** Diesel, 10 HP  **Gas, 10 HP**

**Pump capacity:** 9 gallons per minute

**Pump installation contractor:** Walter Lum Associates

---

**For Official Use Only:**

**Date received:** 4-5-89  **Date accepted:**

**Field checked by:**  **Date:**  **Latitude:** 21° 19' 22"

**Comments:**  **Longitude:** 157° 53' 22"  **Hydrologic Unit:**

**State Well No.: 1952-A2**
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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<thead>
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<td>December</td>
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<tr>
<td>ANNUAL</td>
<td>5712</td>
<td>5814</td>
<td>5763</td>
<td>5798</td>
<td>5999</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 resorts, hotels, businesses)</td>
<td>Number of service connections: ________________________________</td>
</tr>
<tr>
<td>□ Domestic (systems serving 25 people or less)</td>
<td>Acres Irrigated: ________________________________</td>
</tr>
<tr>
<td>□ Irrigation</td>
<td>Crop(s): □ Sugar □ Other (specify): Pineapple</td>
</tr>
<tr>
<td></td>
<td>Non-Crop: □ Landscape □ Other (specify): Golf Course</td>
</tr>
<tr>
<td></td>
<td>Method: □ Drip □ Furrow □ Sprinkler</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Cooling □ Manufacturing □ Mill</td>
</tr>
<tr>
<td>□ Military</td>
<td>□ Other (specify): ______________________________________</td>
</tr>
<tr>
<td>□ Other</td>
<td>Specifying livestock, aquaculture, etc.: ____________________</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, UI
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 808-586-3737 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: KCC D-3
ISLAND: OAHU

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

A. WELL OPERATOR
Firm name: U.K. Dept. of Geology
Contact person: Dr. Frank Peterson
Address: 2525 Correa 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: 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):
Elevation: 9 ft.
Description: ground surface

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

E. INSTALLED PUMP DATA
Pump type: Vertical shaft
Power: Diesel, 10 HP
Pump capacity: 10 gallons per minute

For Official Use Only:
Date received: 4-5-86 Date accepted: 4-5-86
Field checked by: Date: Latitude: 21° 19' 26" Hydrologic Unit:
Comments: Longitude: 151° 52' 26" State Well No.: 1962-A3

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):

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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):

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Municipal</td>
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<td></td>
<td>(including resorts, hotels, businesses)</td>
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<td></td>
<td>Number of service connections:</td>
</tr>
<tr>
<td>[ ] Domestic</td>
<td>Acres irrigated:</td>
</tr>
<tr>
<td>(systems serving 25 people or less)</td>
<td>Sugar Pineapple</td>
</tr>
<tr>
<td>[ ] Irrigation</td>
<td>Other (specify):</td>
</tr>
<tr>
<td></td>
<td>Crop(s):</td>
</tr>
<tr>
<td></td>
<td>Non-Crop:</td>
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<td></td>
<td>Landscape Golf Course</td>
</tr>
<tr>
<td></td>
<td>Method:</td>
</tr>
<tr>
<td></td>
<td>Drip Furrow Sprinkler</td>
</tr>
<tr>
<td>[ ] Industrial</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooling Manufacturing Mill</td>
</tr>
<tr>
<td>[ ] Military</td>
<td>Other (specify):</td>
</tr>
<tr>
<td></td>
<td>Specify (livestock, aquaculture, etc.):</td>
</tr>
<tr>
<td>[ ] Other</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: [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 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.: 1987-4A
WELL NAME OR DESIGNATION: ____________
SOURCE OR STATION NAME: ____________

A. WELL OPERATOR
Firm name: U.H. DEPT OF GEOLOGY
Contact person: Dr. Frank Peterson
Address: 9620 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 = 7.0 ppt (12,500 micromhos conductivity)

Year drilled or constructed: ____________
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
NONE

For Official Use Only:
Date received: ____________ Date accepted: ____________
Field checked by: ____________ Date: ____________
Latitude: ____________ ° ____________' ____________" Hydrologic Unit:
Longitude: ____________ ° ____________' ____________"
State Well No.: 1987-4A

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

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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):

Category          Additional Information
□ Municipal (including resorts, hotels, businesses)          ____________________________
□ Domestic (systems serving 22 people or less)          Number of service connections: ____________________________
□ Irrigation          Acres Irrigated: ____________________________
□ Crop(s): □ Sugar  □ Pineapple
□ Other (specify): ____________________________
□ Non-Crop: □ Landscape  □ Golf Course
□ Other (specify): ____________________________
□ Method: □ Drip  □ Furrow  □ Sprinkler
□ Industrial          □ Cooling  □ Manufacturing  □ Mill
□ Other (specify): ____________________________
□ Military          Specify (livestock, aquaculture, etc.): ____________________________
□ Other

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
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 96809. Phone 548-3048 or 548-7842 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-AS
WELL NAME OR DESIGNATION: HCL 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: 9625 Coral 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: 

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: Ground Surface
Description: 

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

Year drilled or constructed: 1987
Well contractor: Walter Lum Associates

Casing diameter: 2.5 in.
Solid casing depth (Below ground): 10 ft.
Pierated casing depth (Below ground): 29 ft.
Total depth of well: 39 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: A-5-AS
Date accepted: 

Field checked by: ________ Date: ________ Latitude: 21° 19' 27" Hydrologic Unit: 

Longitude: 151° 52' 22" State Well No.: 1962-AS

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 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

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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>
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<tbody>
<tr>
<td>☐ Municipal (including</td>
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<td>resorts, hotels,</td>
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<td>businesses)</td>
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<td>☐ Domestic (systems</td>
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<td>serving 25 people or</td>
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<td>less)</td>
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<td>☐ Irrigation</td>
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<td>Number of service connections:</td>
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<td>Acres Irrigated:</td>
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<td>Sugar:</td>
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<td>Other (specific):</td>
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<td>Pineapple</td>
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<td>Non-Crop:</td>
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<td>Landscape:</td>
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<td>Other (specify):</td>
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<td>Golf Course</td>
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<td>☐ Industrial</td>
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<td>☐ Cooling</td>
<td>Method:</td>
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<td>☐ Manufacturing</td>
<td>Drip</td>
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<td>☐ Mill</td>
<td>Furrow</td>
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<td>☐ Other (specify):</td>
<td>Sprinkler</td>
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<td>☐ Military</td>
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<tr>
<td>☐ Other</td>
<td>Specify (livestock, aquaculture, etc.):</td>
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</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
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 (808) 586-0806 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 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

STATE WELL NO.: 1952-AL
WELL NAME OR DESIGNATION: HEC-O-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: 9495 CONEIA 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 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.

<table>
<thead>
<tr>
<th>Field</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>Elevation: 3 ft</td>
</tr>
<tr>
<td>Description</td>
<td>Ground surface</td>
</tr>
<tr>
<td>Depth to water (below reference point)</td>
<td>2.5 in.</td>
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<tr>
<td>Maximum recorded chloride</td>
<td>1987 Well contractor: Walter Lum Associates</td>
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<tr>
<td>Well contractor:</td>
<td>Casing diameter:</td>
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<td>Solid casing depth (below ground):</td>
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<td>Perforated casing depth (below ground):</td>
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<td>Total depth of well:</td>
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<td>3 nested piezometers, bottom 2 ft perforated</td>
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<td>Minimum chloride in 1987:</td>
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<td>Salinity = 6.0 ppt (11,000 micromhos conductivity)</td>
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</table>

E. INSTALLED PUMP DATA
Pump type:  
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Diesel</td>
<td>2.5 HP</td>
</tr>
<tr>
<td>Gas</td>
<td>2 HP</td>
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<tr>
<td>Electric</td>
<td>2 HP</td>
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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

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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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>
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</thead>
<tbody>
<tr>
<td>□ Municipal (including resorts, hotels, businesses)</td>
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<tr>
<td>□ Domestic (systems serving 25 people or less)</td>
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<td>□ Irrigation</td>
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<td>□ Industrial</td>
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<td>□ Military</td>
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<td>□ Other</td>
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</tbody>
</table>

Number of service connections: ____________________

Acres Irrigated:
Crop(s): □ Sugar  □ Pineapple
□ Other (specify): ____________________
Non-Crop: □ Landscape  □ Golf Course
□ Other (specify): ____________________
Method: □ Drip  □ Furrow  □ Sprinkler
□ Other (specify): ____________________
□ 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, UI


State of Hawaii
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: 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: Taylor

E. ELEVATION, msl: Top of drilling platform 9 ft. Bench mark and method used to determine
   Height of drilling platform above ground surface 9.0 ft. elevation:

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

G. CASING INSTALLED: 6 in. I.D. x ½ in. solid section to 100 ft. below drilling platform.
   6 in. I.D. x ½ in. wall perforated section to 340 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: ft. below which elevation is ft.
     Depth of bottom of casing: ft. below which elevation is ft.

HYDROLOGY

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...
   Sampling Date:

Date:...
   Start water level...
   Start water level...
   End water level...
   End water level...
   Depth of well...
   Depth of well...
   Elapsed Time (hours)...
   Rate (gpm)...
   Draw-down (ft.)...
   Cl- (ppm)...
   Temp. °F...

SUBSURFACE FORMATION

M. DRILLER’S LOG:

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

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.


FOR OFFICIAL USE,
Latitude: 21° 19' 32"
Longitude: 151° 52' 22"
Well No: 1952-40
# DRILLER'S REPORT

## DESCRIPTION

- **Date of report**: June 1, 1987
- **Person filing report**: Frank Peterson
- **WELL**
  - **OWNER**: University of Hawaii  
  - **NAME**: O-1 thru O-5  
  - **ISLAND**: Oahu
- **GENERAL LOCATION**: Honolulu Community College
- **DRILLING COMPANY**: Walter Lum Associates
- **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.
  - **Depth of bottom of airline**: **25** ft. below drilling platform.
- **CASING**:
  - **INSTALLED**:  
    - **2½ in. I.D. x ¾ in. wall** solid section to **10** ft. below drilling platform.
    - **2½ in. I.D. x ¾ in. wall** perforated section to **39** ft. below drilling platform.
    - **Type of perforation**: slotted PVC
- **ANNULUS**: Grouted **0** ft. to **5** ft. below drilling platform.
  - Gravel packed **5** ft. to **39** ft. below drilling platform.
- **PERMANENT PUMP INSTALLATION**:
  - **Pump type, make, serial no.**: NONE
  - **Motor type, H.P., voltage, r.p.m.**
  - **Depth of pump intake setting**:
    - which elevation is **ft.** below.
  - **Depth of bottom of airline**:
    - which elevation is **ft.**

## HYDROLOGY

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

### PUMPING TESTS:

<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>Start water level</th>
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<th>Drawdown (ft.)</th>
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## SUBSURFACE FORMATION

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</table>

## N. REMARKS:

- Total of 6, 2½ inch PVC-cased observation wells; educational purposes

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**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.


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**FOR OFFICIAL USE**
- **Latitude**: 21° 19' 52"
- **Longitude**: 151° 52' 52"
- **Well No.**: 1962 41-A5
DESCRIPTION

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

A. OWNER  University of Hawaii  NAME  0-6

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 Teyler

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:  8  inch dia. to  40  ft. below drilling platform.

G. CASING INSTALLED:  triple casing  in. I.D. x  in. wall solid section to  ft. below drilling platform.

H. ANNULUS:  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.
   Date  Sampling 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.
   Depth of well  ft. below R. P.  Depth of well  ft. below R. P.

M. DRILLER’S LOG:

   to  to  to  to  to  to
   to  to  to  to  to  to
   to  to  to  to  to  to
   to  to  to  to  to  to
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   to  to  to  to  to  to
   to  to  to  to  to  to
   to  to  to  to  to  to

N. REMARKS:  3 nested piezometers; bottom 2 ft. of each perforated, rest solid casing

FOR DRILLER’S USE

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

<table>
<thead>
<tr>
<th>Sampler</th>
<th>Time</th>
<th>Depth of Casing</th>
<th>Sample</th>
<th>Sample Depth</th>
<th>Blows/Shft</th>
<th>Sample Recovery</th>
<th>DEPTH IN FEET AND CHANGE</th>
<th>Soil Graph</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-5</td>
<td>A</td>
<td>0.0'</td>
<td>1.5'</td>
<td>1/5</td>
<td>1.5'</td>
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<td></td>
<td>Stiff - clayey silt w/gravel.</td>
</tr>
<tr>
<td>3-5</td>
<td>B</td>
<td>6'</td>
<td>3.5'</td>
<td>2/5</td>
<td>0.5'</td>
<td></td>
<td></td>
<td></td>
<td>Soft - clayey clay</td>
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<tr>
<td>5-5</td>
<td>C</td>
<td>10'</td>
<td>8.5'</td>
<td>6/8</td>
<td>0.8'</td>
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<td>Med. Density - lt bg. clayey coral w/sand shell.</td>
</tr>
<tr>
<td>0-5</td>
<td>D</td>
<td>12.5'</td>
<td>1/4'</td>
<td>26/15</td>
<td>0.9'</td>
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<td></td>
<td></td>
<td>Dense - bg. clayey coral</td>
</tr>
<tr>
<td>4-5</td>
<td>E</td>
<td>15.5'</td>
<td>6/5'</td>
<td>15/5'</td>
<td>0.5'</td>
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<td></td>
<td></td>
<td>Dense - Same as above</td>
</tr>
<tr>
<td>5-5</td>
<td>F</td>
<td>17.5'</td>
<td>7/5'</td>
<td>8/12/5</td>
<td>1.5'</td>
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<td></td>
<td>Stiff - clayey silt clay w/sant. Corall.</td>
</tr>
</tbody>
</table>

Note: Show location of borings by sketch in space provided or on back of first sheet of each day's work.
<table>
<thead>
<tr>
<th>Sampler</th>
<th>Time</th>
<th>Depth of Casing</th>
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<th>Sample Recovery</th>
<th>Soil Graph</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.S.</td>
<td></td>
<td>12' 1/2</td>
<td>9' 1/5</td>
<td>7/5</td>
<td>14'</td>
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<td>HEAVY DENSITY - LT. CO. CLAY SY. COAL.</td>
</tr>
<tr>
<td>S.S.</td>
<td></td>
<td>22' 5/8</td>
<td>14'</td>
<td>7/5</td>
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<td>HEAVY DENSITY - SAME AS ABOVE</td>
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<tr>
<td>S.S.</td>
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<td>25' 1/2</td>
<td>14'</td>
<td>7/5</td>
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<td>DENSE - SAME AS ABOVE</td>
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<td>S.S.</td>
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<td>32' 7/8</td>
<td>14'</td>
<td>7/5</td>
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<td>DENSE - MED. DENSITY - SAME AS ABOVE</td>
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<td>S.S.</td>
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<td>30' 1/2</td>
<td>10'</td>
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<td>LOOSE - LT. CO. CLAY SY. COAL.</td>
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<td>S.S.</td>
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<td>24' 10'/15'</td>
<td>15'/5</td>
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<td>STIFF - (LT-BED) Silt Clay / Sandy Weathered Coal.</td>
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<td>S.S.</td>
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<td>35' 1/2</td>
<td>15'/5</td>
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<td>STIFF - SAME AS ABOVE</td>
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<td>S.S.</td>
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<td>40' 1/2</td>
<td>15'/5</td>
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<td>STIFF - (LT-BED) CLAY</td>
</tr>
</tbody>
</table>

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

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

Chairperson of the Board

William W. Paty
**AS-BUILT CONSTRUCTION PLANS**

**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

**WELLS 0-1 - 0-5**
- Ground elev. = 9 ft
- Grout = 5 ft
- Solid PVC casing 2 1/2 in diam, 5 ft
- Perforated PVC casing 2 1/2 in diam, 34 ft
- Gravel pack = 34 ft
- Total depth = 39 ft

**WELL 0-6**
- Ground elev. = 9 ft
- Grout = 5 ft
- Solid PVC casing 1 1/2 in diam, 10.5 ft
- Perforated PVC casing 1 1/2 in diam, 2 ft
- Solid PVC casing 1 1/2 in diam, 16 ft
- Perforated PVC casing 1 1/2 in diam, 2 ft
- Gravel pack = 2 ft around perforations
- Clay backfilled between gravel pack layers
- Total depth = 31 ft
Memo To: Dan Ed of UH
Memo From: Phone 948-1897
Message: He brought this permit this a.m. He spoke to you last week. Call him regarding progress.

- Telephoned
- Please Phone
- Returned Your Call
- Urgent Call At Once
- Will Call Again
- Wants to See You
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 Hawaii   Tax Map Key 1-5-182. 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 Corree 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 10 ft., msl.

Cement Grout 10 ft.

Hole Dia. 3 in.

Total Depth 40 ft.

Rock Packing 30 ft.

Ground Elevation 9 ft., msl

Solid casing: PVC

Length 10 ft.

Diameter 6 in.

Wall thickness in.

Casing: ☐ Perforated ☐ Screen

Material PVC

Length 30 ft.

Diameter 6 in.

Wall thickness in.

Openings sq. in./L.F.

Open Hole: Length none ft.

Diameter 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 ☐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

Professor of Hydrogeology

UH Manoa

For Official Use:

State Well No. 1952-40 X 43

DLNR Permit No. ______________________________

DLNR Application No. __________________________

[Diagram and plot plan details]

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 east 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

Cafeteria

Bakery

Dillingham Blvd