February 27, 1987

2180 Main St., Suite 101-A
Wailuku, Maui, Hawaii 96793

Gentlemen:

Thank you for the two sets of as-built drawings for the Kahului Community Park irrigation well (State Well No. 5328-49) and the Luana Gardens II and III irrigation wells (State Well Nos. 5228-17 and 18).

We appreciate your cooperation in submitting well records which help us manage the ground water resources of our State.

Sincerely,

[Signature]

MANABU TAGOMORI
Manager-Chief Engineer
### DESCRIPTION

Date of report: Sept. 15, 1986  
Person filing report: L.H. Runnells

**A. OWNER** County of Maui  
**WELL NAME** Luana Gardens #1  
**ISLAND** Maui

**B. GENERAL LOCATION** Roscoe Moss Co.

**C. DRILLING COMPANY**

**D. TYPE OF RIG** 24L  
**DRILLING COMPLETED** 04-86  
**DRILLER** L. Moalii

**E. ELEVATION, msl:** Top of drilling platform 92.26 ft.  
**Height of drilling platform above ground surface:** 0 ft.  
**Bench mark and method used to determine elevation:** 

**F. HOLE SIZE:** 12 inch dia. to 117 ft. below drilling platform.  
**Depth, ft. Rock Description & Remarks:**

**G. CASING INSTALLED:**

**H. ANNULUS:** Grouted

**I. PERMANENT PUMP INSTALLATION:**

- **Pump type, make, serial no.:** 6 Stage 6 DRM Laye  
  **Capacity:** 120 g.p.m.

**J. INITIAL WATER LEVEL:** Depth below drilling platform, Date of measurement.

**K. INITIAL CHLORIDE:** ppm, total depth of well, Date below drilling platform.

**L. PUMPING TESTS:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Rate (gpm)</th>
<th>Draw-down (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. °F</th>
<th>Elapsed Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/03/86</td>
<td>79.5 ft.</td>
<td>117 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:05am to 3:00pm</td>
</tr>
</tbody>
</table>

**M. DRILLER’S LOG:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 18</td>
<td>Band</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>18 to 40</td>
<td>Brown clay</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>40 to 50</td>
<td>Puka rock</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>50 to 78</td>
<td>Cinders</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>78 to 105</td>
<td>Puka rock</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>105 to 117</td>
<td>Puka &amp; Cinders</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
</tbody>
</table>

**N. REMARKS:**

---

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


---

**FOR DRILLER’S USE**

**Job Name**

**Job No.**

---

**FOR OFFICIAL USE**

**Latitude** 20...52...31...

**Longitude** 156...28...46...

**Well No.** 5228-17...
State of Hawaii

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

DRILLER'S REPORT

DESCRIPTION

Date of report: Sept. 15, 1986
Person filing report: L.H. Runnells

A. OWNER: County of Maui
WELL NAME: Luana Gardens #2
ISLAND: Maui

B. GENERAL LOCATION: Kahului

C. DRILLING COMPANY: Roscoe Moss Co.

D. TYPE OF RIG: 24L
DRILLING COMPLETED: 03 86
DRILLER: L. Moaalii

E. ELEVATION, msl: Top of drilling platform: 92.82 ft. Bench mark and method used to determine
Height of drilling platform above ground surface: 0 ft. elevation:

F. HOLE SIZE: 12 inch dia. to 140 ft. below drilling platform.
12 inch dia. to 140 ft. below drilling platform.
12 inch dia. to 140 ft. below drilling platform.

G. CASING INSTALLED: 8 in. I.D. x PVC in. wall solid section to 95 ft. below drilling platform.
8 in. I.D. x PVC in. wall perforated section to 16 ft. below drilling platform.

H. ANNULUS: Grouted
Gravel packed

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no.: Stage 6DRMC Layne
Motor type, H.P., voltage, r.p.m.: 15 HP Hitachi

J. INITIAL WATER LEVEL: ft. below drilling platform. Date of measurement:

K. INITIAL CHLORIDE: ppm, total depth of well: ft. below drilling platform:

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

M. DRILLER'S LOG:

N. REMARKS:

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: 20° 52.29'N
Longitude: 156° 28.52'E
Well No.: 5228-1

STATE
WELL DRILLING PERMIT

for

Luana Gardens Well No. 1, 5228-17
Wailuku, Maui

TO: Department of Human Concerns
County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

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 an irrigation well (State Well No. 5228-17) at Tūk: 3-9-07:112, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly reports of pumpage shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

5. The applicant comply with all applicable laws, rules and regulations.

SUSUMU ONO
Chairperson of the Board

9/14/85
Date of Issuance

Enc. (Driller's Report Form)
cc: USGS
Dept. of Health
Maui DWS
WELL DRILLING PERMIT
for
Luana Gardens Well No. 1, 5228-17
Wailuku, Maui

TO: Department of Human Concerns
County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

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 an irrigation well (State Well No. 5228-17) at TmK: 3-8-07:112, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly reports of pumpage shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

5. The applicant comply with all applicable laws, rules and regulations.

Date of Issuance
9/14/85

Enc. (Driller's Report Form)
cc: USGS
Dept. of Health
Maui DWS

Chairperson of the Board
WELL DRILLING PERMIT
for
Luana Gardens Well No. 2, 5228-18
Wailuku, Maui

TO: Department of Human Concerns
County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

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 an irrigation well (State Well No. 5228-18) at TMK: 3-8-07:111, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly reports of pumpage shall be submitted after well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

5. The applicant comply with all applicable laws, rules and regulations.

SUSUMU ONO
Chairperson of the Board

Date of Issuance
9/14/85

Enc. (Driller's Report Form)
cc: USGS
Dept. of Health
Maui DWS
WELL DRILLING PERMIT
for
Luana Gardens Well No. 2, 5228-18
Wailuku, Maui

TO: Department of Human Concerns
County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

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 an irrigation well (State Well No. 5228-18) at TMK: 3-8-07:111, is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

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4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

5. The applicant comply with all applicable laws, rules and regulations.

SUSUMU ONO
Chairperson of the Board

5/14/85
Date of Issuance

Enc. (Driller's Report Form)
cc: USGS
    Dept. of Health
    Maui DWS
Department of Land and Natural Resources
State of Hawaii
P. O. Box 373
Honolulu, Hawaii 96809

Dear Sir:

Subject: Luana Gardens - Phases II & III Housing Projects

Enclosed for your consideration are the Well Drilling Permit Applications for the Luana Gardens - Phase II and Luana Gardens - Phase III housing projects.

Please contact Mr. Edwin Okubo of our Housing Division at 244-7752 or 244-7849 if you have any question.

Very truly yours,

CHRISTOPHER L. HART
Director of Human Concerns

ETO: hs

Encs. 2

cc: Mr. Edwin Okubo w/encs.
    Mr. Bert Toba w/encs.
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 Maui  ☐ Tax Map Key 3-8-07: 112. Attach a plot plan showing well location referenced to established property boundaries.
   Dept. of Human Concerns
2. WATER USER County of Maui  ☐ Telephone 244-7805
   Address 200 South High Street, Wailuku, Maui, Hawaii  Zip Code 96793

3. PROPOSED DRILLING COMPANY:

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): The proposed project consists of the drilling of an irrigation well, installation of an electrical pump, irrigation lines and control equipment. Electrical power lines to the pumps and controls will also be installed. (continued on back of form)

5. PROPOSED SECTION OF WELL

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

7. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
   ☐ Daily 30,000 gallons ☐ Monthly _________ gallons ☐ Yearly _________ gallons

8. PROPOSED PUMP OR FLOW CAPACITY: 120 _________ gallons per minute

Signature:  [Signature]
Water User [State of Hawaii]
Date:  7/1/85

Signature:  [Signature]
Landowner of Well Site
Date:  7/1/85

For Official Use:
State Well No.  5228-17
DLNR Permit No.
DLNR Application No.
The well facility will be connected to an existing landscape irrigation systems at the Luana Gardens housing site and will be sized to meet the existing irrigation water requirements.

A submersible pump will be installed underground within the well casing. Electrical control panels will be mounted on the existing building next to existing irrigation control boxes and other electrical panel boxes.
LUANA GARDENS II
SITE PLAN
APPROX. SCALE: 1" = 125'
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 Maui    Tax Map Key 3-8-07: 111. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER County of Maui    Telephone 244-7805

Address 200 South High Street, Wailuku, Maui, Hawaii    Zip Code 96793

3. PROPOSED DRILLING COMPANY: Not Yet Selected

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):

The proposed project consists of the drilling of an irrigation well, installation of an electrical pump, irrigation lines and control equipment. Electrical power lines to the pumps and controls will also be installed. (continued on back of form)

PROPOSED SECTION OF WELL

Elevation at top of casing 91.5 ft., msl.

Ground Elev. 89.5 ft., msl*

Solid casing: PVC

Material Length 91.5 ft.

Diameter 6 in.

Wall thickness 0.28 in.

Casing: ☑ Perforated ☐ Screen

Material PVC

Length 15 ft.

Diameter in.

Wall thickness 0.28 in.

Openings 4 sq. in./L.F.

Cement Grout 20 ft.

Hole Dia. 8 in.

Total Depth 14.5 ft.

Rock Packing 0 ft.

*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)

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

☐ Daily 23,000 gallons ☐ Monthly gallons ☐ Yearly gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 120 gallons per minute

Signature: [Signature]

Water Use Dept. of Human Concerns

[Signature]

Landowner of Well Site

Date: [Date]

For Official Use:

State Well No. 5228-18

DLNR Permit No.

DLNR Application No.
The well facility will be connected to an existing landscape irrigation systems at the Luana Gardens housing site and will be sized to meet the existing irrigation water requirements.

A submersible pump will be installed underground within the well casing. Electrical control panels will be mounted on the existing building next to existing irrigation control boxes and other electrical panel boxes.
LUANA GARDENS III
SITE PLAN
APPROX. SCALE: 1" = 125'