CHECKLIST

- Well Construction Permit
- Pump Installation Permit
- Water Use Permit Required Also

Well Name & Number: Moloka'i Springs 2 (1120-13) Island: Kauai
Applicant: La Vonne Sparks
Landowner: Same
Consultant: PR Drilling

Date application received: 9/16/93
Date acknowledged receipt/request more info: 
Date filing fee deposited: 

Date application sent to following: 

- Dept. of Health
  - Safe Drinking Water Branch
  - Wastewater Branch
- Office of Hawaiian Affairs
- Dept. of Hawaiian Home Lands
- State Historic Preservation Div.
- Sierra Club Legal Defense Fund
- Honolulu Board of Water Supply
- Maui Dept. of Water Supply
- Kauai Dept. of Water Supply
- Hawaii Dept. of Water Supply
- Hawaii Dept. of Public Works
- Koolau'a NB #28 (Gahu)
- Additional List (Molokai)
- Eric Hirano/Lyann Mizuno
  - DIV. OF AQUATIC RES.

Date agenda due: 11/24/93
Date submittal due: 11/24/93
Date submittal sent to applicant: 
Date application approved OR disapproved: 12/3/93
Date applicant notified of decision: 

Remarks: 

Map, assign well no. (Pencil in INDEX/Summary)
Log in logbook (manual)
Computer (WELL PERMITS)
COMMISSION ON WATER RESO

FROM: ___________ DATE: 7/20

TO: ___________ INIT. ___________ TO: ___________ INIT.

1. BAUER, G. ___________ 6. LOUI, R. ___________
2. CHING, F. ___________ 7. NAKAMA, L. ___________
3. FUJII, N. ___________ 8. NAKANO, D. ___________
4. HARDY, R. ___________ 9. OHYE, M. ___________
5. HIGA, D. ___________ 10. SAKODA, E. ___________
6. HIRANO, E. ___________ 11. SUBIA, S. ___________
7. ICE, C. ___________ 12. SWANSON, S. ___________
8. IMATA, R. ___________ 13. UWaine, J. ___________
9. JINNAI, R. ___________ 10. YODA, K. ___________

Pump test?

Probably not necessary, our geo pumps can provide C- & TOT data - one measurement would be ok.

Education on well completion report is due? Don't forget!
Mr. Lavorn Sparks  

Dear Mr. Sparks:

Well Completion Reports for Well Nos. 1120-11 & 13

We have received your Well Completion Reports for the Moloaa-Sparks Wells 1 & 2 (Well Nos. 1120-11 & 13) and acknowledge that they are complete. We sincerely appreciate your assistance and cooperation in matters related to water resources.

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

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss
Dear Leann,

Thank you for your patience. I have done the chloride test on both wells & they are at 60 ppm. I have included the remainder of the information you requested. It took me a couple of days extra. I hope this will do.

Please call if you need any more info.

Thank you,

Lauren Sparks

Fax to: Leann Naladza
From: Lauren Sparks

RE: Well # 1120-11, 1120+13

Cl level: 60 ppm, 6-11-98

66 below grade

John & Barb
Load Well = 1120-13
Molaa, Kauai

4" Concrete Slab @ Grade

Grade @ 101' Above MSL

169' Grout

20' Gravel packed

Grundfos # 9228 Type SP
Submersible Pump
PC 7805-11, 2HP
Sum # 92283280

Hole - 8"
Casing - @ 8" Schedule 40 PVC
Pump - Peri Casing - @ 5 1/2" Schedule 40 PVC

Well No. 1120-13
Molaa, Sparks

(Pump not installed in well at present 6-15-72)
May 13, 1997  
State of Hawaii  
Dept. of Land and Natural Resources  
Commission on Water Resource Management  
Re: Well completion Repts for Wells #1120-11 & 13  
Attention: Lenore Nakama

Dear Lenore,

Thank you again for your patience during the prolonged time it has taken for me to accumulate the data that you have requested for the well completion reports. I have enclosed the copy of the survey done by Timothy P. Martin, Registered Professional Engineer of the property on 4-18-92. I will shoot the grades on both of the wells from the msl benchmark of the septic system, as per your request, upon my arrival in Kauai in June. As I indicated to you on the phone, I do not live in Kauai full time and so I will have to wait to get some of the required information subsequent to my arrival there on the 11th of June. It should not be any problem for me to complete the requested diagrams, pump type, etc. on well #1120-11. Upon review of my trips to Kauai it appears that we removed the pump from well #1120-13 in approximately July of 1995 after very minimal use for irrigating some new plants. I have kept the pump for a spare in case I need it in the future or if it is required that I reintroduce it into the well to obtain a completion report. I am willing to do whatever is necessary to finalize both of these wells to your satisfaction. If there is any further information that I can provide I will endeavor to produce it as quickly as possible. I am very appreciative of your cooperation and kindness in helping me meet the necessary requirements for these wells. Thank you again.

Sincerely,

LaVorn Sparks
TO: The Wastewater Branch, Hawaii State Department of Health

Enclosed is the engineering data and design for an Individual Wastewater System:

NAME OF OWNER: Lavone Sparks
MAILING ADDRESS: [Redacted]
PROJECT ADDRESS: Molaa Rd., Molaa, Kauai, Hi.
TMK NUMBER: 4-9-12-2

A complete set of house plans have been submitted by the property owner to the Department of Health on Kauai, Hawaii. Your earliest review of this IWS is appreciated.

Mahalo,
Mark Olin
General Partner

P.O. Box 2, Hanalei, Hawaii 96714 • (808) 828-2030 • License ABC 14872
# Table of Contents

A. Plot & Site Plan

B. Percolation Rate - Soil Profile
   Elevation - Watertable

D. Absorption Field Trench Section

E. Septic Tank Section

F. Operation and Maintenance Manual

G. Owner Certification

H. Owner's Building Floor Plan
Name of Owner: Mr. & Mrs. Lawrence Sparks
Location: Molaa, Rd., Molaa, Kauai

Number of Test Holes: 6
Depth to Bottom of Holes: 32" Inches.

SOIL PROFILE:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Texture</th>
<th>Structure</th>
<th>Color</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-18&quot;</td>
<td>Si CL</td>
<td>ShK</td>
<td>OK Brn</td>
<td>Small Rocks</td>
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<tr>
<td>18-84&quot;</td>
<td>Si CL</td>
<td>ShK</td>
<td>Brn</td>
<td></td>
</tr>
</tbody>
</table>

Pre-Soaking Time: 8+ Hours.
Diameter of Holes: 6" Inches.

PROFILE:

ELEVATION: 100' MSL

PERCOLATION RATE - SOIL PROFILE

<table>
<thead>
<tr>
<th>PERCOLATION TEST HOLE #</th>
<th>TIME TO CONDUCT TESTS - HOURS</th>
<th>PERC. RATE MINUTES / INCH</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>4+</td>
<td>5.85</td>
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</tr>
<tr>
<td>#2</td>
<td>4+</td>
<td>6.15</td>
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<td>#3</td>
<td>4+</td>
<td>6.00</td>
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<td>#4</td>
<td>4+</td>
<td>7.50</td>
<td></td>
</tr>
<tr>
<td>#5</td>
<td>4+</td>
<td>8.57</td>
<td></td>
</tr>
<tr>
<td>#6</td>
<td>4+</td>
<td>12.63</td>
<td></td>
</tr>
</tbody>
</table>

PERCOLATION RATE = 7.78 MINUTES PER INCH

Minimum Absorption Area = 148 Square Feet Per Bedroom.
TOTAL ABSORPTION AREA 2 Bedroom House = 296 SQUARE FEET.

WATER TABLE:

Depth to Water Table = Water table exceeds seven (7') Feet.
Remarks:

Anini Company License ABC 14872 P. O. Box 2 Hanalei, Hi. (808) 828-2030
NOTE: All setback distances conform to setback requirements per Hawaii Administrative Rules, Chapter 11-62-32, Table II, except that it is known there are some private wells within the Moloa Valley area.
SECTION
CONTACTOR "C" LEACH CHAMBERS BED

M.E. CONSULTING SERVICE
INDIVIDUAL WASTEWATER SYSTEM FOR:
Mr. & Mrs. Lavome Sparks
Molokai, Kauai

ANINI CO.
Ph. 828-2030
(lc. # ABC 14872)
SAMPLE: WELL WATER SAMPLE FROM MOLOA, KAUAI, HAWAII COLLECTED 10-27-93, 11:57 A.M. RECEIVED 10-28-93 FOR ANALYSIS.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Results</th>
<th>Method Detection Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Al mg/l EPA 200.7</td>
<td>.7</td>
<td>.012</td>
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<tr>
<td>Antimony Sb mg/l EPA 204.2</td>
<td>ND</td>
<td>.0005</td>
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<tr>
<td>Arsenic As mg/l EPA 200.9</td>
<td>ND</td>
<td>.0007</td>
</tr>
<tr>
<td>Barium Ba mg/l EPA 200.7</td>
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<td>.0025</td>
</tr>
<tr>
<td>Beryllium Be mg/l EPA 200.7</td>
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<td>.00030</td>
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<tr>
<td>Cadmium Cd mg/l EPA 213.1</td>
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<td>.0007</td>
</tr>
<tr>
<td>Chromium Cr mg/l EPA 218.2</td>
<td>.003</td>
<td>.0002</td>
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<td>Cond. umhos/cm EPA 120.1</td>
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<td>.1</td>
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<td>Fluoride, F mg/l EPA 300</td>
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<td>Magnesium Mg mg/l EPA 200.7</td>
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<td>Mercury, Hg mg/l EPA 245.1</td>
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<td>Nickel Ni mg/l EPA 249.2</td>
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<td>.0002</td>
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<td>Nitrate NO3-N mg/l EPA 300</td>
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<td>Nitrite NO2-N mg/l EPA 354</td>
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<tr>
<td>Selenium Se mg/l EPA 270.2</td>
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</tbody>
</table>

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them, is reserved pending our written approval as a mutual protection to clients, the public and ourselves.
<table>
<thead>
<tr>
<th></th>
<th>Results</th>
<th>Method Detection Limit</th>
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</thead>
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<tr>
<td>Silver Ag mg/l</td>
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<tr>
<td>Sodium Na mg/l</td>
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<td>.500</td>
</tr>
<tr>
<td>Sulfate SO4 mg/l</td>
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<td>.5</td>
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<tr>
<td>Thallium Tl mg/l</td>
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<td>.0005</td>
</tr>
<tr>
<td>Tot.Dis.Solids mg/l</td>
<td>346</td>
<td>10.0</td>
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<tr>
<td>Temp. deg C at Receipt</td>
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</tr>
<tr>
<td>pH at Receipt</td>
<td>7</td>
<td></td>
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</tbody>
</table>

** ND - INDICATES NONE DETECTED **

** < - INDICATES THE SMALLEST QUANTITY DETECTABLE DUE TO REQUIRED DILUTION **

Samples preserved upon receipt for metals.
Lead - Associated matrix spike biased low.
Mr. Lavon Sparks  
3671B Moloaa Rd.  
Moloaa, HI 96703  

Dear Mr. Sparks:  

Well Completion Report for Well Nos. 1120-11 & 13  

We have received your well completion reports for the Moloaa-Sparks Wells 1 & 2 (Well Nos. 1120-11 & 13). However, matters which must be addressed before we accept your reports as complete are as follows:  

1. Elevation (referenced to mean sea level) surveys by a Hawaii-licensed surveyor for Well Nos. 1120-11 & 13. Please submit official documentation showing surveyor's stamp and signature.  


5. Description of the pump installed in Well No. 1120-11 (pump type, make, serial number).  

6. We note that you did not provide complete pumping test records (including time, pumping rate, drawdown, chloride content, and water quality data), which was required under Conditions 5.e. and 6.e of the well construction/pump installation permits for Well Nos. 1120-11 & 13, respectively. We will waive the requirement for you to submit the pump test data. However, we request that you provide at least one (1) measurement of the chloride concentration and water temperature (°F) for each well.  

7. Please check the elevation information for Well No. 1120-13, your data show the water level in your well is below sea level. Also, the map elevations and benchmarks on your well completion reports for Well Nos. 1120-11 & 13 do not match.
Lastly, your well completion report for Well No. 1120-11 shows that a pump was installed without the necessary approval. We draw your attention to Condition 3. of the well construction/pump installation permit for Well No. 1120-11, which states that no permanent pump may be installed and no water used from the well without the Chairperson's approval. Although the installation of a pump in Well No. 1120-11 without the Chairperson's approval is a violation of the well construction/pump installation permit for Well No. 1120-11, we will not recommend that the Commission pursue this as a violation subject to fines, provided that you respond to the above items within thirty (30) days of this letter's date. Failure to do so may result in fines of up to $1000 per day.

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

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
WELL COMPLETION REPORT

3/20/96 WCR Form

(Check Appropriate Box)  [X] Well Construction  [ ] (Permanent) Pump Installation

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

1. State Well No.: 1120-13  Well Name: Moloaa-Sparks Well 2  Island: Kauai
2. Location/Address: Moloaa, Kauai  Tax Map Key: 4-9-12:2

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: [SELF - FOREIGN CONSTRUCTION]
4. Name of driller who performed work: [LAVEN SPARKS/GEOLICAL EVENTRE]
5. Type of rig/construction: [ROTARY]
6. Date(s) Well Construction and pump tests (if any) completed: [Sept 93]
7. GROUND ELEVATION (referenced to mean sea level, msl): [33] ft.
8. DRILLER’S LOG: [Please attach geologic log (if available or if required by permit)]
   Depths (ft.)  Rock Description, Water Level, Dates, etc.  Depths (ft.)  Rock Description, Water Level, Dates, etc.
   0' to 20'  CLAY/SILT/gravels  40' to 70'  HARD PAW/ROCK
   20' to 40'  CLAY/ROCK/HARD PAW  70' to 90'  PUMPS/PAW/ROCK
   (If more space is needed, continue on back.)
9. Total depth of well below ground: [90] ft.
10. Hole size: [6] in. dia. from [0] ft. to [90] ft. below ground
    [6] in. dia. from [90] ft. to [0] ft. below ground
    [6] in. dia. from [0] ft. to [90] ft. below ground
    Casing Material/Slot Size: [ ]
12. Annulus: [Gravel packed from [75] ft. below ground to [0] ft. below ground]
13. Initial water level: [38] ft. below ground.  Date and time of measurement:
14. Initial chloride: [ ] ppm  Date and time of sampling:
15. Initial temperature: [70] °F  Date and time of measurement:
16. PUMPING TESTS: Reference Point (R.P.) used: [ ] which elevation is [ ] ft.
   (1) Step-Drawdown Test Date
      Start water level [20] ft. below R.P.
      End water level [3] ft. below R.P.
   (2) Long-term Aquifer Test Date
      Start water level [ ] ft. below R.P.
      End water level [ ] ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/1/96 LTAT Form) attached? [ ] Yes [X] No
18. As-built drawings attached attached? [ ] Yes [X] No
19. Other remarks/comments: [On back of this form]

Well Drilling Contractor (print) [LAVEN SPARKS]  C-57 Lic. No. [N/A]
Signature ______________________________ Date ____________

Surveyor (print) [WAGNER ENGINEERING]  Lic. No. [S074]
Signature ______________________________ Date ____________

Applicant (print) [LAVEN SPARKS]
Signature ______________________________ Date ____________

Date 3-12-97
PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: SELF
21. Name of person performing work: LAUREN SPARKS
22. Date Pump Installation Completed: DEC 93

23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: SUBMERSIBLE
   Capacity: 10 gpm
   Motor type, H.P., Voltage, rpm: 1/2 hp - 110V AC
   Depth of Pump Intake Setting ft. below ______, which elevation is ______ ft.
   Depth to bottom of airline ft. below ______, which elevation is ______ ft.
   Pumping Head is ______ ft. Type of flow meter: ________ which measures in ______

24. As-built drawings attached attached? Yes \ No
25. Other remarks/comments: (See below)

Pump Installation Contractor (print) LAUREN SPARKS C-57 Lic. No. N/A
Signature ____________________________ Date 3/12/93
Applicant (print) LAUREN SPARKS
Signature ____________________________ Date 3/12/93

8.(cont’d) DRILLER’S LOG (cont’d):

<table>
<thead>
<tr>
<th>Water Level Dates (ft.)</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks</th>
<th>Water Level Dates (ft.)</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks</th>
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</thead>
<tbody>
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</tbody>
</table>

19. & 25. Remarks: THIS WELL IS ONLY OCCASIONALLY USED TO IRRIGATE NEW PLANTS IN THE SUMMER TIME WHEN PUMPS ARE INOPERATIVE. IT WAS NOT WET IN 92 & 93, EXPECTED TO BE USED TO MUCH IN 97. IT IS NOT PUMPING WELL FOR DRINKING AT PRESENT.
"Woodrose Plantation Condominium Project
Map Showing
UNIT A & UNIT B of
EXCEPTION 7
Moloaa Hui Lands
being portion of
Grant 1125 to Constance Fortin
at
Moloaa, Kauai, Hawaii

Prepared for:
La Vorn Sparks
P.O. Box 643
Anahola, HI 96703

May 3, 1983

Wagner Engineering Services, Inc.
P.O. Box 851 Hanalei, HI 96714 (808) 826-7256

THIS MAP WAS PREPARED BY ME OR UNDER MY SUPERVISION

RONALD J. WAGNER
Registered Professional Land Surveyor
Certificate No. 5074

Project No. 0554
Mr. Lavorn Sparks

Dear Mr. Sparks:

Notice of Expiration of Well Construction/Pump Installation Permits
Moloaa-Sparks Well 1 (Well No. 1120-11)
Moloaa-Sparks Well 2 (Well No. 1120-13)
Moloaa, Kauai

Our records show that well construction/pump installation permits were issued for the subject wells on April 1, 1992 and November 9, 1993, respectively (attached).

Since we did not receive any written notice of the start of work (Standard Condition 1) for the subject wells, we assume that no work was done under these permits, which have expired. Be advised that new applications for well construction/pump installation permits must be made and approved by the Commission on Water Resource Management prior to any future well construction or pump installation work.

In the event that the wells were constructed under the permits, please submit the following items that are required under Standard Conditions 5 and 6, respectively, within thirty (30) days from the date of this letter:

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

Be advised that failure to comply with the terms of your permit may result in daily fines of up to $1000.

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

Sincerely,

[Signature]
RAE M. LOUI
Deputy Director

LN:ss
Enclosure
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by NOV 4 1993.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kauai</td>
<td>Moloaa-Sparks 2</td>
<td>1120-13</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Kauai</td>
<td>Moloaa-Mattson 2</td>
<td>1120-14</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Kauai</td>
<td>Moloaa-Littlefield</td>
<td>1120-15</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Kauai</td>
<td>Moloaa-Boiser</td>
<td>1120-16</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Kauai</td>
<td>Moloaa-Daniels 1 &amp; 2</td>
<td>1120-17 &amp; 18</td>
<td>Well Construction</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
X Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: William Wong
Phone: 986-4258
Date: OCT 3 1993
Reference is made to your letter dated October 14, 1993, concerning wells being drilled in the Moloaa area, Wells No. 1120-13 to 18.

A notice should be sent to the persons planning to drill in the Moloaa area, that DBCP has been found in sources in this area. The owner of any new well(s) should have the well(s) tested for drinking water contaminants before the water is used for domestic consumption. Besides DBCP, levels of nitrates have exceeded drinking water maximum contaminant levels.

If you have any questions, please call William Wong, Chief, Safe Drinking Water Branch at 586-4258.
November 1, 1993

Ms. Rae M. Loui  
Deputy Director  
DLNR - COWARM  
P. O. Box 621  
Honolulu, HI 96809

Re: Well Construction and Pump Installation Permit Applications for Moloaa-Sparks Well 2, Moloaa-Mattson Well 2, Moloaa-Littlefield Well, Moloaa-Boiser Well and Moloaa-Daniels Well 1 and 2

We have no objections to these Well Construction and Pump Installation Permit Applications.

[Signature]
Jeremiah M. Kaluna  
Acting Manager and Chief Engineer

ED:rm
November 18, 1993

Mr. Keith W. Ahue, Chairperson
Commission of Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ahue:

Thank you for transmitting a copy of the letter addressed to Moloaa Water Users concerning the construction, testing and installation of well pumps at Moloaa Bay, Kauai. Since drilling of wells are viable alternatives, we wish to specifically address the concerns pertaining to potential noise impacts from such activities.

Noise and vibration associated with drilling operations can have adverse effects on the residential communities. Since background (or environmental) sound levels are anticipated to be extremely low within the Moloaa Bay area of Kauai, noise emanating from such an operation can definitely be a potential nuisance. Noise monitoring of similar activities have resulted in sound levels of 65 - 70 dBA at a distance of approximately 50 feet.

In terms of regulating such activities, there are currently no regulations pertaining to vibration. The Department of Health has the authority to regulate excessive noise levels through its noise rules, however, these rules are presently applicable only to the island of Oahu. The department has proceeded with the development of a draft statewide noise rules and is proceeding toward adoption of these rules.
November 18, 1993

Although our current authority on noise control does not extend to the neighbor islands, we wish to take this opportunity in recommending that mitigative actions be implemented to reduce potential excessive noise levels from drilling operations. Such actions may include adequate muffling and coverings on drill rig engines, restrictions on hours of drilling operations, establishment of buffer zones between the drilling activity and impacted residents, as well as, developing an effective communication program, informing the impacted community of the proposed activities.

We emphasize that the health and well-being of the residential community should be an important consideration in terms of possible noise impacts resulting from such construction activities. In absence of rules regulating noise disturbances on Kauai from such operations, we are recommending that positive measures be considered in minimizing potential noise problems.

Should you have any questions or require additional information, please call me at 586-4576 or Mr. Jerry Y. Haruno, Environmental Health Program Manager, Noise and Radiation Branch, at 586-4701.

Very truly yours,

[Signature]

James K. Ikeda, Chief
Environmental Health Services Division
TO: Moloaa Water Users

The Commission on Water Resource Management (Commission), on October 27, 1993, took action on six permits for the construction, testing, and installation of pumps in wells at Moloaa Bay, Kauai.

The Commission considered denying the permits due to the possibility of contamination of the wells from nearby cesspools and/or septic tanks. Alternatives were discussed, such as connecting to the Department of Water’s system or the formation of a private water system to serve all of the residents in the area. Since some of the issues raised are not within the jurisdiction of the Commission, and since property owners have the right to drill a well on their own property, the Commission reluctantly approved the permits, with the condition that the applicants, other users in the area, and State and County officials be notified of the Commission’s concerns. By this letter we are so notifying you.

We will discuss this matter with State and County officials to determine if the Commission can be of assistance in any way.

Very truly yours,

KEITH W. AHUE

cc: State Department of Health
   Environmental Management Division
   Environmental Health Services Division
   County of Kauai, Dept. of Public Works
   County of Kauai, Dept. of Water
TO: Moloaa Water Users

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Very truly yours,

KEITH W. AHUE

cc: State Department of Health
    Environmental Management Division
    Environmental Health Services Division
    County of Kauai, Dept. of Public Works
    County of Kauai, Dept. of Water
WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT

for

Moloaa-Sparks Well 2
Well No. 1120-13
Moloaa, Kauai

TO: La Vorne Sparks
3671B Moloaa Road
Moloaa, HI 96703

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Moloaa-Sparks Well 2 (Well No. 1120-13), for domestic use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction, testing, and installation of a 10 gpm capacity, or less, pump in the well. The applicant shall submit the test results and permanent pump information to the Commission.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from the well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The applicant shall not be required to measure and report monthly water use if the quantity of use (averaged over a one-year period) remains below 50,000 gallons per month.

6. The following shall be submitted to the Commission within 30 days after completion of the work:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
d. Plot plan and map showing the exact location of the well.

e. Complete pumping test record; including time, pumping rate, drawdown, chloride content, and water quality data.

7. The permit application and staff submittal approved by the Commission at its meeting on October 27, 1993 shall be incorporated herein by reference.

8. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within two years from the date of permit approval.

9. Water from the well shall not be used for drinking water unless properly tested and treated.

10. The applicant shall contact the State Historic Preservation Division (Telephone: 587-0047) before starting any work on the project. The applicant shall obtain a written statement from the State Historic Preservation Division indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission before work is started on the project.

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: ___________________ Date: __________

Printed Name: ________________________________

Firm or Title: ________________________________

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

cc: USGS
   Department of Health
   Safe Drinking Water Branch
   Ground Water Protection Program
   Wastewater Branch
   Kauai Department of Water
   State Historic Preservation Division
   P.R. Drilling
MEMORANDUM

TO: Rae M. Loui, Deputy Director & Edward Sakota
Commission on Water Resource Management

FROM: Don Hibbard, Administrator
State Historic Preservation Division

SUBJECT: Historic Preservation Review -- Application for Well Construction & Pump Installation Permit Application
Well No. 1120-13 (Moloaa - Sparks 2)
Well No. 1120-14 (Moloaa - Mattson 2)
Well No. 1120-15 (Moloaa - Littlefield)
Well No. 1120-16 (Moloaa - Bosier)
Well No. 1120-17 & 18 (Moloaa - Daniels)
Moloaa, Kawaihau, Kauai

We have reviewed the above permit applications. No archaeological surveys have taken place in any of the projects area, so we are uncertain if significant historic sites are present. If the land is altered, then sites may not be present. However, if the land is unaltered then sites could be present. A review of our files indicates that several burials sites and possible abandoned taro pondfields exist nearby. This makes it likely that historic sites are present, if the land is not disturbed.

Given this information we recommend two alternatives to all of these permits. One, if the land is unaltered:

To insure that no significant historic sites are present, i.e., buried cultural deposits or human remains, a qualified archaeologist shall monitor the ground disturbing activities associated with the well construction. Soil core samples shall be taken for analysis. A report on the findings shall be submitted to the State Historic Preservation Office for review and approval. All work must stop in the area if intact human burials are found.

Alternatively, if a well site has had its land surface extensively disturbed in the past, the applicant should submit a description of the disturbance, so we can process a "no effect" determination.

If you have any questions, please call Ms. Nancy McMahon at 587-0006.

NM amk
The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ahue:

Well & Pump Permits

Thank you for the opportunity to respond to the following Kaua'i applications:

Moloaa-Sparks 2 (1120-13)
Moloaa-Mattson 2 (1120-14)
Moloaa-Littlefield (1120-15)
Moloaa-Boiser (1120-16)
Moloaa-Daniels 1 & 2 (1120-17, 18)

These are not expected to affect Hawaiian home lands; we have no specific objections. We note that, with the addition of these wells, the overall density of withdrawals is significantly increased. While no pumps are proposed to withdraw large amounts, it would appear that groundwater management must begin to scrutinize them carefully.

Warmest aloha,

[Holographic Signature]
Hoaliku L. Drake, Chairman
Hawaiian Homes Commission

HLD:BH:ci
OCT 14 1993

MEMORANDUM

TO: Dr. Don Hibbard, Director
   Historic Preservation Program

FROM: Mr. Henry M. Sakuda, Administrator
      Division of Aquatic Resources

SIGNED: Rae M. Loui, Deputy Director
         Commission on Water Resource Management

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by

NOV - 4 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: __________________________

Signed: Henry M. Sakuda Date: 10/2/1/93
Mr. La Vorne Sparks
3671B Moloaa Road
Moloaa, Kauai, HI 96203

Dear Mr. Sparks:

We have received your application and filing fee for a permit to construct Moloaa-Sparks 2 Well (Well No. 1120-13) at Moloaa, Kauai (TMK 4-9-12:2). We are reviewing the application for completeness.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

JZ:ky
MEMORANDUM

TO: Dr. Don Hibbard, Director
    Historic Preservation Program

Mr. Henry M. Sakuda, Administrator
Division of Aquatic Resources

FROM: Rae M. Loui, Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by

Nov - 4 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: _________________________ Phone: ____________

Signed: _________________________ Date: ____________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by NOV 4 1993.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: __________________________

Signed: __________________________ Date: __________________________
Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by Nov 4, 1993.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

JZ:ky
Enc.

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
Mr. Raymond Sato  
Manager & Chief Engineer  
Department of Water  
County of Kauai  
4398 Pualoke Street  
Lihue, HI 96766

Dear Mr. Sato:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by NOV 18 1993.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: _______________________________ Phone: _______________________________

Signed: _______________________________ Date: _______________________________
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

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Sincerely,

RAE M. LOUI
Deputy Director

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ________________________ Phone: ____________
Signed: __________________________ Date: ________________
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Mr. Clayton H.W. Hee, Chairman & Trustee At Large
Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by NOV - 5 1993.

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JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: _____________

Signed: ___________________________ Date: _______________
APPLICATION FOR: □ Well Construction or □ Pump Installation PERMIT

Instructions: Please print or type and send completed application with attachments to the Div. of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7643, Hydrology/Geology Section for assistance.

1. WELL LOCATION/NAME: Kayak
   Address _____________________________ Tax Map Key 4-9-12-2
   (Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

2. (a) WELL OWNER:
   Firm Name ____________________________
   Contact Person ____________________________
   Address _____________________________
   Ph: ____________________

   (b) LANDOWNER:
   Firm Name ____________________________
   Contact Person ____________________________
   Address _____________________________
   Ph: ____________________

3. PROPOSED CONTRACTOR:
   Name: P. R. DRILLING
   Address: 235 Kellog St. Waialua, HI 96786
   Contractor's License No. FAX 622-0082 Ph: 632-0231

4. PROPOSED WORK:
   □ Drill New Well □ Deepen □ Redrill
   □ Alter □ Seal □ Abandon
   □ Install New Pump □ Replace Pump □ Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.) □ Military
   □ Domestic (individual, noncommercial water sys.) □ Industrial
   □ Irrigation (specify) ____________________________
   □ Other (specify) ____________________________

6. PROPOSED AMOUNT OF WITHDRAWAL: _______ gallons per day

7. PROPOSED PUMP INFORMATION:
   Pump Type: □ Vertical Turbine □ Submersible □ Centrifugal
   Motor: □ Diesel □ Gas □ Electric, at a rated horsepower of _______
   Rated Pump Capacity: _______
   Gallons per minute _______

Well Owner (print) LAVORNE SPARKS
Signature: La Verne Sparks
Date: 9-7-93

Landowner (print) SAME
Signature: ____________________________
Date: ____________________________

For Official Use Only:
Field Checked By ____________________________
Date: ____________________________

Latitude ____________________________
Longitude ____________________________
Hydrologic Unit ____________________________
State Well No. 2-1120-13
Briefly describe the proposed work:

**DRILL CASE & SEAL DOMESTIC WATER SUPPLY WELL APPRX. 90' DEEP**

---

**PROPOSED SECTION OF WELL**

Elevation at top of casing:

_______ ft., msl.

Ground Elevation: **14** ft., msl

Cement Grout: ____ ft.

Solid Casing:

- Material ____________________
- Length _______________ ft.
- Diameter _______________ in.
- Wall thickness _______________ in.

Casing: □ Perforated  □ Screen

- Material ____________________
- Length _______________ ft.
- Diameter _______________ in.
- Wall thickness _______________ in.
- Openings _______________ sq. in./L.F.

Rock Packing: ____ ft.

Open Hole:

- Length _______________
- Diameter _______________ in.

---

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