DIV. OF WATER & LAND DEVELOPMENT
Dept. of Land & Natural Resources
RM. 227, 1151 PUNCHBOWL STREET
HONOLULU, HAWAII 96813

DATE 1.1.81
TO Files
FROM Mardon

MEMORANDUM

SUBJECT Call from Paul Hiota - Belt Collins Ph. 511.5561

Kam Schools to begin 10-45 development program. Increased water withdrawals are anticipated from their privately-owned well.

I advised Paul to submit water use application to DWNR.
Let's write Ken Schenk to submit progress reports regularly for
next month. Treat just like last.
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

June 10, 1982

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

RESUBMITTAL
The Kamehameha Schools Water Withdrawal and Use Permit Application, Honolulu Ground Water Control Area

The Kamehameha Schools, Bernice P. Bishop Estate has submitted a Water Withdrawal and Use Permit Application to withdraw an additional 0.04 mgd, average annually, from Wells 2052-7 and 2052-11, to service new buildings and new and expanded athletic fields proposed in its 10-year capital improvement program.

The entire water system is owned and operated by The Kamehameha Schools and services only the school campus. The preserved use previously certified by the Board of Land and Natural Resources is 0.189 mgd, averaged annually. No improvements to the existing deep well source are required as the existing source capacity is greater than the increased water needs of the school.

The Kamehameha Schools' request for the withdrawal of 0.04 mgd would increase the permitted pumpage from the Moanalua-Kaimuki Subarea of the Honolulu Ground Water Control Area from 43.327 mgd to 43.367 mgd, which is below the 55 mgd sustainable yield established for the Subarea.

RECOMMENDATION
That the Board approve the issuance of a Water Withdrawal and Use Permit to The Kamehameha Schools for 0.04 mgd, averaged annually, for domestic and irrigation uses. The duration of the permit to use the 0.4 mgd shall be twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The applicant shall be subject to any special conditions and applicable laws, rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

SUSUMU ONO, Chairman

Approved by the Board of Land & Natural Resources at the meeting held on 6/10/82

ITEM D-2
HONOLULU GROUND WATER CONTROL AREA

WATER WITHDRAWAL and USE PERMIT

for

Kamehameha School Wells No. 2052-07 and 2052-11
Honolulu, Oahu

TO: The Kamehameha Schools
Bernice P. Bishop Estate
Kapalama Heights
Honolulu, Hawaii 96817

Permission is hereby granted to The Kamehameha Schools to withdraw and use water from Wells No. 2052-07 and 2052-11 located in Honolulu, Oahu, subject to all requirements of Chapter 177, HRS, DLNR Chapter 166 of Title 13, and the following conditions:

1. The term of the permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

2. The water to be withdrawn under this permit shall be 0.04 million gallons per day for domestic and irrigation use, averaged annually, over and above their present preserved use of 0.189 million gallons per day. The total withdrawal shall be 0.229 million gallons per day, averaged annually. No improvements to the existing source are required as the existing source capacity is greater than the increased water needs of the school.

3. The use authorized by the permit must not interfere substantially and materially with existing individual household uses and existing preserved uses.

4. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

5. This permit may be suspended or revoked, in accordance with Chapter 166.

6. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.
7. The monthly withdrawal from Wells 2052-07 and 2052-11 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the wells.

The Board of Land and Natural Resources may declare this permit null and void, if it determines that the conditions of this permit are not being met.

July 12, 1982
Date of Issuance

SUSUMU ONO, Chairman of the Board

bcc: USGS
     Health Dept
     Hon. BWS
June 10, 1982

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

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ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

SUSUMU ONO, Chairman

Approved by the Board of Land & Natural Resources
at the meeting held on

G 10 82

ITEM D-2
Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

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Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

ITEM D-8
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<td>Albert Ching</td>
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<td>George Matsumoto</td>
<td>___ Review &amp; comment</td>
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<td></td>
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<td>Yoshi Shibuya</td>
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**Susp. Date for Kam School Permit:** 19 July 1982

Suggest we take this up in early June. By all means make comment on our request. Probably June 10 th. Find out from applicant if same urgency for permit. No problem.
<table>
<thead>
<tr>
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<tr>
<td>Yoshi Shibuya</td>
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</tbody>
</table>

- Board submitted
- Public Notice - 10 days prior to BLNR mfg.
- Notify interested parties
- BWS
  - DoH? info
- put done within 1 yr? System already in
Eyer / Not Earth's distance from Earth.

5239

Land out Ken Yarmou

6122

Al Loga - check (AA. Bldg)

120 gal/1000g of new oil. For air.

Residential wired use.

3G5 guidelines for commercial.
PROJECT 38 - MISCELLANEOUS FLOOD CONTROL PROJECTS - MAUI

See Project 23
See Project 23

Preliminary Engineering Study for Kahului Flood Control Project, Kahului, Maui (Kanaha Pond)

Signed: Henry Y. Umemoto, Dir.
5-23-67

James Miyagi
Pahului, Wailuku, Maui

Exhibit P-1
Water Facilities
January 21, 1982

The Kamehameha Schools
Bernice P. Bishop Estate
Kapalama Heights
Honolulu, Hawaii 96817

Gentlemen:

This is to acknowledge receipt of your application for a Permit to Withdraw Water for Beneficial Use and the accompanying filing fee of $100.00.

My staff is reviewing the application and will contact you if further information is needed.

Very truly yours,

SUSUMU ONO
Chairman of the Board
APPLICATION FOR: (check one)
☐ PERMIT TO WITHDRAW WATER FOR BENEFICIAL USE
☐ PERMIT TO SUPPLY WATER FOR BENEFICIAL USE

Instructions: Fill out, sign, and send application with pertinent attachments to Dept. of Land & Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809. A non-refundable filing fee of $100 is required, excepting military, federal, state, and local government agencies.

The Kamehameha Schools/
1. NAME OF APPLICANT: Bernice P. Bishop Estate
   Address: Honolulu, HI 96817
   phone: 842-8270

2. REQUESTED BENEFICIAL USE OF WATER:
   ☐ Domestic ☐ Municipal ☐ Military ☐ Agricultural ☐ Industrial ☐ Other (specify)

   Appropriately describe nature and purpose of requested use:
   See Attachment "A"

   Proposed commencement date of water use:

3. REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:
   Average Annual: 0.040 mgd; Maximum Month: 0.060 mgd; Maximum Day: 0.130 mgd.
   Appropriately describe schedule or times of taking requested withdrawal:
   See Attachment "B"

4. NATURE AND TERM OF REQUESTED PERMIT:
   ☐ Temporary ☐ Permanent

   Requested period of permit

5. PROPOSED SOURCE OF WATER SUPPLY:
   ☐ Existing source ☐ Modification of existing source ☐ New source

   Briefly describe existing or proposed source and any related facilities and submit map, plot plan, and plans or drawings of source of supply:
   See Attachment "C"

   If construction work is proposed for new or modified existing source, give:
   Commencement Date
   Completion Date

6. ASSESSMENT OF REQUESTED WATER USE OR SUPPLY
   See Attachment "D"

   In a separate attachment to this application, applicant must provide a written assessment addressing the desirability of issuing the requested permit, including such considerations as the availability of water, the beneficial purpose of the proposed water use, and the impact, if any, of the proposed water use on existing permitted uses, preserved uses, and individual household uses.

   Signature: ____________________________ Date: 1-23-82
   Water User or Supplier

   Signature: ____________________________ Date: 1-13-82
   Owner of Water Source

In accordance with Department Regulation No. 9, every permit approved and issued by the Board of Land & Natural Resources shall be for a specified period of time, for a specified beneficial use, subject to suspension and revocation, and subject to the shortage and emergency powers of the Board. Consideration of applications for a permit shall include: availability of water, beneficial purpose of water use, non-impairment of the most beneficial use and development of the water resources in the designated area, and no substantial and material interference with existing uses of water.

For Official Use:
Docket No. 180 days 19 JULY 1982
Board Approved Disapproved
Well No. 2052-07-11
2. REQUESTED BENEFICIAL USE OF WATER:

The purpose of the water withdrawal request is to service approximately 156,900 square feet of new buildings and 285,000 square feet of new and expanded athletic fields proposed by The Kamehameha Schools in its reorganization and 10-year capital improvement program.

The reorganization and capital improvement program's primary objectives are to consolidate educational programs into new or renovated facilities, to upgrade the numerous "portable" and substandard facilities and to support the innovative programs of the school's unique extension education program.

The addition of new facilities will be the primary cause for increased water usage. A small increase in the campus population is anticipated in the next ten years so that an increase in water usage due to this factor will be minimal. Similarly, a modest increase in water usage is anticipated with the irrigation of a new athletic field and expansions of existing athletic fields.
ATTACHMENT "B" FOR DLNR WATER WITHDRAWAL PERMIT
THE KAMEHAMEHA SCHOOLS

3. REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:

   a. Annual Average Day Withdrawal Increase.

   Increased water use for the new buildings is based on a consumption rate of 120 gallons per 1,000 square feet of new building floor area per the Board of Water Supply guideline for commercial and residential mixed use. The projected water consumption increase is 20,000 gpd (see Table 2 this attachment).

   The new and enlarged athletic fields are projected to increase the annual average day water withdrawal by 13,000 gpd based on 285,000 square feet of area irrigated at an average application rate of 0.5 inch per week. The application rate is the amount required to supplement rainfall of 1.0 inch per week to provide the normal irrigation requirement of 1.5 inches per week. The median annual rainfall is 50 and 100 inches per year for the lower and upper campuses respectively. The rate of 1.0 inch per week is equivalent to 50 inches of rainfall per year.

   Since a portion of the annual rainfall is not significant and will not contribute to irrigation replacement, a more conservative annual average day irrigation withdrawal of 20,000 gpd, which is equivalent to an average supplemental application rate of 0.8 inch per week has been assumed. (See Table 2).

   The total estimated annual average day water withdrawal increase for the campus is 40,000 gpd covering the new campus facilities and irrigation needs. (See Table 1).
TABLE 1: CONSTRUCTION SCHEDULE AND ESTIMATED WATER USE FOR THE CAMPUS PLAN PROJECTS

Note: See the attached water facilities drawing for the locations of the various proposed projects.

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Description</th>
<th>Schedule</th>
<th>Estimate Annual Avge. Day Water Use (GPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Campus Re-organization</td>
<td>1981</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Lower Campus Access Road/New Lower Campus Counseling Center</td>
<td>1981-1982</td>
<td>240</td>
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<tr>
<td>3</td>
<td>KERI/Elementary Campus Renovation</td>
<td>1981-1983</td>
<td>4,780</td>
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<tr>
<td>4</td>
<td>0-3, 3-5 Program Facility</td>
<td>1981-1983</td>
<td>-</td>
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<tr>
<td>5</td>
<td>New Dining Hall, New Performing Arts Complex, New Student Parking</td>
<td>1981-1984</td>
<td>8,580</td>
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<tr>
<td>6</td>
<td>New Industrial Arts Complex</td>
<td>1982-1984</td>
<td>3,200</td>
</tr>
<tr>
<td>7</td>
<td>Renovate Akahi for Extension Education, Purchasing, Rapid Copy and Mail Room</td>
<td>1982-1984</td>
<td>-</td>
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<tr>
<td>8</td>
<td>Extension Education Parking</td>
<td>1982-1984</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>New Transportation Maintenance Facility and Pad</td>
<td>1983-1984</td>
<td>840</td>
</tr>
<tr>
<td>10</td>
<td>Consolidation of Physical Plant</td>
<td>1985</td>
<td>-</td>
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<tr>
<td>11</td>
<td>Bernice Pauahi Bishop Memorial Chapel</td>
<td>1985-1986</td>
<td>960</td>
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<tr>
<td>12</td>
<td>New Tract/Football Field, Kekuhaupio Parking, New Team Room</td>
<td>1984-1985</td>
<td>18,400</td>
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<tr>
<td>13</td>
<td>Enlargement of Mawaena Field</td>
<td>1986</td>
<td>2,500</td>
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Total Annual Average Day Water Use

40,000 gpd
TABLE 2: SUMMARY OF NEW CAMPUS FACILITIES
WATER DEMAND

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Total New Floor Area (S.F.)</th>
<th>Domestic Use</th>
<th>Irrigation Use</th>
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<tr>
<td></td>
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<td>Average Water Demand (gpd)*</td>
<td>Irrigated Area (S.F.)</td>
</tr>
<tr>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>2</td>
<td>2,000</td>
<td>240</td>
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<td>3</td>
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<td>TOTALS</td>
<td>156,900</td>
<td>19,200</td>
<td>285,000</td>
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*(Based on 120 gal./1,000 sq. ft.)
**(Based on 0.8 inch/week average application rate)
b. Maximum Monthly Amount.

Water consumption records for 1980 showed that maximum month use occurred in September with a maximum month average daily use of 278,200 mgd. The annual average daily use is 190,000 gpd (1980 estimated); therefore, the existing historic maximum to annual average daily use ratio is approximately 1.5. Because the type of activities, albeit modestly expanded, remains essentially unchanged, this ratio is considered applicable to the proposed average annual daily water withdrawal amount of 40,000 gpd to obtain a projected maximum month demand of 60,000 gpd.

c. Maximum Daily Amount.

The estimated annual maximum day demand increase for both the new campus buildings and the new and expanded athletic fields is 130,000 gpd, with 40,000 gpd demand increase for the new campus buildings and the remainder for irrigation needs of the new and expanded fields.

The annual maximum day demand increase for the new campus buildings of 40,000 gpd was computed by multiplying the annual average day flow by the annual maximum day to annual average day ratio of 2. The ratio was selected after review of the water consumption records for 1980 which showed an annual maximum day demand in September of 398,000 gpd and an annual average day demand of 193,000 gpd.

The annual maximum day demand increase for the 285,000 square feet of new and expanded athletic fields is expected to occur during the dry summer periods where the full irrigation application rate of 1.5 inches would be applied in three scheduled applications per week. The annual maximum day irrigation demand increase would therefore be 90,000 gpd per scheduled application and compares to the 20,000 gpd annual average day irrigation demand.
d. Demand Summary.

<table>
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<tr>
<th></th>
<th>Existing (1980)</th>
<th>Increase</th>
<th>Projected</th>
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<td>Average Annual</td>
<td>190,000 GPD</td>
<td>40,000 GPD</td>
<td>230,000 GPD</td>
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<tr>
<td>Maximum Monthly</td>
<td>278,000 GPD</td>
<td>60,000 GPD</td>
<td>338,000 GPD</td>
</tr>
<tr>
<td>Maximum Day</td>
<td>398,000 GPD</td>
<td>130,000 GPD</td>
<td>528,000 GPD</td>
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</tbody>
</table>
5. **PROPOSED SOURCE OF WATER SUPPLY:**

a. **Existing System.**

The Kamehameha Schools private water system is as shown on the attached "Water Facilities" drawing. The entire system is owned and operated by The Kamehameha Schools and services only the school campus.

b. **The Water Source** consists of two 12" diameter deep wells located below the Campus at the intersection of Kapalama Avenue and Kaikuahine Street. Each well is outfitted with a 600 gpm electric motor driven pump. One well operates as the primary supply well while the other serves as a standby. The pump functions are manually switched between the two wells. The proposed capital improvement program will not necessitate any improvements to the existing deep well source.

c. **The Booster Pump Station** has three electric motor driven booster pumps, each capable of pumping 300 GPM at a total dynamic head of 705 ft. The booster pumps feed the campus distribution system which includes the upper storage reservoir. The present system operation utilizes one booster pump operated automatically by a float switch in the upper reservoir with manual switch over to one of two standby pumps. Pump uses are alternated regularly. A single pump operating a full 24 hours should be capable of transmitting the maximum day water use.
d. **Storage Reservoir.**

The lower 200,000-gallon reservoir at the booster pump station site is used to regulate and coordinate the operation of the well and booster pumps. The main upper storage reservoir which serves the entire campus has a capacity of 501,500 gallons. It has a floor elevation of 832.5 ft. and spillway elevation of 849.5 feet.

The primary distribution main system consists of 8-inch diameter unlined steel pipe network which provides service to the various campus facilities between the booster pump station and the main storage reservoir.

**PROPOSED WATER FACILITIES IMPROVEMENTS**

No improvements to the existing deep well system or to the storage reservoirs are required.

The existing water distribution system can adequately provide domestic service for both the existing and proposed campus buildings. The pipe network extensions, however, are planned to service new buildings and to provide fire hydrant coverage. Looping of the existing pipe network between the new Performing Arts Complex, Industrial Arts Complex and the existing Administration Building are being considered to increase fire flow capacity and operational flexibility. Minor modifications to the booster pump station controls consisting of automatic switch over to a standby pump should the operating pump fail during a fire, and installation of 1,000 feet of new pipeline from the existing upper reservoir to the vicinity of Kina'U Dormitory are also being considered to provide adequate fire protection.
6. ASSESSMENT OF REQUIRED WATER USE OR SUPPLY:
   
a. Desirability of Issuing the Permit.

   The Trustees and Administrators of The Kamehameha Schools/Bernice P. Bishop Estate have adopted extensive and ambitious educational goals to be accomplished during the next 10 years. These goals include the reorganization of the secondary school, expansion of the school's research and extension educational programs and the upgrading of substandard facilities. The capital improvements required to meet these goals consist of major renovations of existing facilities, construction of several new buildings, construction or expansion of athletic fields and the improvements to the campus utilities to meet the needs of the proposed new construction.

   The school's goals of providing more educational opportunities to the Hawaiian people will never be realized without the issuance of the water use permit.

b. Availability of Water.

   The existing campus water source and related facilities have adequate capacity to meet the total existing and additional water demands of the campus plan and secondary school reorganization. No improvements to the existing deep well source is required.
C. Impact of the Proposed Water Use On Existing Permitted Uses, Preserved Uses, and Individual Household Uses.

The entire water system, owned and operated by The Kamehameha Schools, services only the school campus. Therefore, there should be no impact on existing permitted uses, preserved uses, and individual household uses in the areas adjacent to the campus.

The campus existing preserved use (certified annual average daily use) is approximately 190,000 gpd. The annual average day water demand with completion of the 10-year capital improvement program is projected to increase by an additional 40,000 gpd to approximately 230,000 gpd. The annual maximum day water demand is projected to increase by 130,000 gpd with 40,000 gpd for the new campus building and 90,000 gpd for irrigation requirements of the new and expanded fields. The annual maximum day water demand based on water consumption records for 1980 was 398,000 gpd; this brings the total annual maximum day water demand to 528,000 gpd. The existing source has a capacity of 576,000 gpd assuming well pump operation at a maximum of 16 hours daily. The existing campus storage and distribution systems also have adequate capacity to meet the total projected water use. Therefore, there should be negligible impact on the facilities servicing existing campus users. The new campus facilities are planned to be integrated within the existing campus organization and structure which includes the existing permitted and preserved water uses.
INVOICE

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>CLASSIFIED</th>
<th>SPACE</th>
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<th>AMOUNT</th>
<th>STATE TAX</th>
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$73.22

G O O D S / S E R V I C E S R E C ’ D I N S A T I S F A C T O R Y

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</tr>
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MAKE CHECKS PAYABLE TO: HAWAII NEWSPAPER AGENCY, INC., AC
IN THE MATTER OF
PUBLIC NOTICE
Consideration of A Water
Withdrawal and Use Permit in the
Honolulu Ground Water Control Area

STATE OF HAWAII,
CITY AND COUNTY OF HONOLULU.

Judith Amancio
being duly sworn, deposes and says, that She is Clerk of the
HAWAII NEWSPAPER AGENCY, INC., agent for GANNETT PACIFIC CORPORATION, publishers of THE
HONOLULU STAR-BULLETIN, a daily newspaper published in the City and County of Honolulu, State of
Hawaii; that the ordered publication in the above entitled
matter of which the annexed is a true and correct printed
notice, was published ............... times in
said daily newspaper, commencing on the........day of
March 82 1st
........... 1982, and ending on the ........day
of ........... March 82 1982 (both days inclusive), to wit,
on ........... March 1, 1982

and that affiant is not a party to or in any way interested
in the above entitled matter.

Subscribed and sworn to before me this ........day of
March ........ A. D. 1982

Notary Public of the First Judicial Circuit,
State of Hawaii
My commission expires AUG 30 1985
February 23, 1982

Hawaii Newspaper Agency, Inc.
P.O. Box 3350
Honolulu, Hawaii 96801

Attention: Legal Notice Department

Gentlemen:


Please bill the Division of Water and Land Development under the enclosed purchase order.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

Enc.
CONSIDERATION OF A WATER WITHDRAWAL AND USE PERMIT IN THE HONOLULU GROUND WATER CONTROL AREA

Public Notice

All interested parties are hereby notified that the Board of Land and Natural Resources plans to consider and act on an application for a Water Withdrawal and Use Permit in the Honolulu Ground Water Control Area at its regularly scheduled meeting on Friday morning, 9:00 a.m., March 12, 1982, Room 132, Kalanikou Building, 1151 Punchbowl Street, Honolulu.

The applicant, The Kamehameha Schools, requests permission to withdraw 0.04 million gallons per day, averaged annually, from their existing wells 2052-07 and 2052-11 to supply new campus facilities.

For further information, please contact the Division of Water and Land Development of the Department of Land and Natural Resources at 548-7539.

State of Hawaii
BOARD OF LAND & NATURAL RESOURCES

SUSUMU ONO, Chairman

Dated: February 24, 1982
Publish in: The Honolulu Star Bulletin
issue of March 1, 1982
Publication of "Public Notice" attached
Consideration of Water Use PermitX in the
Honolulu Ground Water Control Area

Publish in: Honolulu Star Bulletin, issue
of 3/1/82
(2-column by necessity with border)
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

June 10, 1982

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

RESUBMITTAL
Terms of Water Withdrawal and Use Permits

The Department's Administrative Rules on ground water control require that the Board specify the period or duration of permits and the commencement and completion dates for the construction of ground water sources. After investigation and study of this matter, DOWALD is ready to make specific recommendations for adoption by the Board of Land and Natural Resources.

The Ground Water Use Law specifies that permits may be issued up to a maximum of 50 years and allows for extension of the permit after one-half of the permit period has lapsed. The staff is recommending that the duration of each permit be established at twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The staff feels that 20 years is a reasonable time for regulating ground water withdrawals and uses at this early stage of the program. As the Department gains experience in ground water regulation, the duration of the permits may be reviewed and adjusted as appropriate in the future.

On the commencement and completion dates, the staff recommends that a period of 24 months be established for completing the development of the ground water source. This construction period is a reasonable time for drilling, testing, and for the installation of permanent pumps and controls to fully bring the ground water source into operation. The period may be extended upon a showing of good cause and good faith performance. The permit and construction dates should commence on the date the permit is issued by the Department.

It is recommended that the above terms be standardized for all water withdrawal and use permits issued by the Board, subject to adjustments required by the Board for any permit.

RECOMMENDATION:

That the Board establish the terms of ground water withdrawal and use permits at 20 years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit and that the development of the ground water source be completed within 24 months from the date of permit issuance for all permits issued by the Board, subject to adjustments required by the Board for any permit.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

SUSUMU OINO, Chairman

Approved by the Board of Land & Natural Resources at the meeting held on

B12
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

September 11, 1981

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Certification of Ground Water Withdrawals and Uses,
Honolulu Ground Water Control Area, Cahu

The Honolulu Ground Water Control Area was designated by the Board of Land and Natural Resources on February 27, 1981 under authority of Chapter 177, HRS, and Chapter 166 of Title 13, Administrative Rules entitled "Rules for the Control of Ground Water Use in the State of Hawaii". The Department's regulatory procedures provide for water users to declare their existing water uses within a ninety-day period which ended June 4, 1981 and allows the Board 180 days to certify the declared uses.

The recommended certification of total annual, average daily, and maximum daily withdrawals for individual wells and/or well fields is tabulated in the attachment, "Certification of Ground Water Withdrawals and Uses, Honolulu Ground Water Control Area", for the Moanalua-Kaimuki Subarea and Wailuku-Hawaii Kai Subarea. A comparison of the recommended quantity for certification and the sustainable yield adopted by the Board on July 24, 1981 is tabulated below:

<table>
<thead>
<tr>
<th>Subarea</th>
<th>Sustainable Yield (mgd)</th>
<th>Recommended Certification (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moanalua-Kaimuki</td>
<td>58</td>
<td>41.827</td>
</tr>
<tr>
<td>Wailuku-Hawaii Kai</td>
<td>5</td>
<td>1.100</td>
</tr>
</tbody>
</table>

The remaining ground water supplies may be withdrawn by obtaining permits from the Board of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing withdrawals and uses for each well tabulated on the attached "Certification of Ground Water Withdrawals and Uses, Honolulu Ground Water Control Area" dated September 11, 1981, subject to any special conditions and applicable laws, rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

Approved by the Board of Land & Natural Resources at the meeting held on

ITEM D-9
### State of Hawaii
#### DEPARTMENT OF LAND AND NATURAL RESOURCES

**CERTIFICATION OF GROUND WATER WITHDRAWALS AND USES**

**Honolulu Ground Water Control Area**

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Source Use</th>
<th>5-yr. Ave. Withdrawal</th>
<th>Maximum Daily Withdrawal</th>
<th>Total Annual Withdrawal</th>
<th>Average Daily Withdrawal</th>
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<tr>
<td><strong>MOANALUA-KAIMUKI Subarea</strong></td>
<td></td>
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<td></td>
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<tr>
<td><strong>Board of Water Supply</strong></td>
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<tr>
<td>Kaimuki Station</td>
<td>1748-03 to 10</td>
<td>8</td>
<td>Mun. 22.32</td>
<td>3.69</td>
<td>Mun. 14.17</td>
<td>1,246.85</td>
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<td>Palolo Well</td>
<td>1847-01</td>
<td>1</td>
<td>Mun. 1.51</td>
<td>1.31</td>
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<td>478.15</td>
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<td>Wai'alea Station</td>
<td>1849-13 to 16</td>
<td>6</td>
<td>Mun. 10.08</td>
<td>5.75</td>
<td>Mun. 10.08</td>
<td>2,088.75</td>
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<td>Beretania Station</td>
<td>1851-12, 13, 24, 31 to 38, 67</td>
<td>9</td>
<td>Mun. 22.536</td>
<td>6.64</td>
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<td>Kalili Pump</td>
<td>1952-08 to 08. 16 to 19, 22</td>
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<td>Mun. 14.112</td>
<td>4.63</td>
<td>Mun. 11.82</td>
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<td>2052-08</td>
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<td>Mun. 17.28</td>
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<td>Mun. 17.28</td>
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<td>Mun. 6.048</td>
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<td>Amana H.C &amp; D.</td>
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<td>Ind. 0.576</td>
<td>0.139</td>
<td>Ind. 0.576</td>
<td>50.74</td>
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<td>Army - Tripler</td>
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<td>Dom. 1.555</td>
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<td>Dom. 1.555</td>
<td>222.28</td>
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<td>Del Monte Corp.</td>
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<td>Ind. Nat. Flow</td>
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<td>Ind. 7.117</td>
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<td>Hawaii Electric Co., Ltd.</td>
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<td>Mun. 0.144</td>
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<td>Kukuiwai Kogo</td>
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<td>Palama Settlement</td>
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<td>Punahou School</td>
<td>1949-10</td>
<td>1</td>
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<td>Dom. 0.728</td>
<td>51.82</td>
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<td>Dom. 1.000</td>
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<td>S.M. Damon Estate</td>
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<td>0.021</td>
<td>Oth. 0.144</td>
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<td>27.864</td>
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<td>121.177</td>
<td>41.627</td>
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### WAIALAE-HAWAII KAI Subarea

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<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Source Use</th>
<th>5-yr. Ave. Withdrawal</th>
<th>Maximum Daily Withdrawal</th>
<th>Total Annual Withdrawal</th>
<th>Average Daily Withdrawal</th>
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<tr>
<td><strong>Board of Water Supply</strong></td>
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<td>Ala Moana</td>
<td>1746-01</td>
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<td>Mun. 0.504</td>
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<td>0.19</td>
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<tr>
<td>Waialae Shaft</td>
<td>1747-02</td>
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<td>Mun. 2.890</td>
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<td>Mun. 0.504</td>
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<td><strong>Subtotal (DWS Wells)</strong></td>
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<td><strong>Private User</strong></td>
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<td></td>
</tr>
<tr>
<td>Waialae Country Club</td>
<td>1848-01</td>
<td>1</td>
<td>Irr. 0.854</td>
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<td></td>
<td></td>
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<td>4.752</td>
<td>1.100</td>
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FIELD MEMORANDUM

WELL(S) NO. 2052-07, 11    DATE 4-28-81

LOCATION  Corner of School St. and Kapalena Ave.

SUBJECT  Field check of wells

PRESENT  Mr. Ray Yamauchi of Kan. School, M.Y. and NI of O&WALD

FIELD NOTES  Well site clearly visible from the street. Well No. 2052-11, the recently drilled well (1977) is located at corner near the pumphouse. Flow is measured by a flowmeter along the line. The older well No. 2052-07 is located in the pumphouse. Flow on this well is measured by performance charts. Both wells easily accessible however fence surrounding wells is locked.

Also note that data not available from 1979-1978.

Mr. Yamauchi stated that accurate records were not kept however, he estimates approximately 200,000 qpd.

* sent duplicate copy ofdeclarative to Ray Y - at his request

N. Inada
4/28/81
April 10, 1981

The Kamehameha Schools
Kapalama Heights
Honolulu, Hawaii 96817

Gentlemen:

Honolulu Ground Water Control Area

We acknowledge receipt on March 24, 1981, your Declaration of Existing Water Withdrawal and Use in the Honolulu Ground Water Control Area. Our staff will review the data and may contact you for a field inspection of your well(s) before certification of your declared water use is made by the Board of Land and Natural Resources.

We appreciate your early filing of the declaration of existing water use.

Very truly yours,

Robert T. Chuck
Manager-Chief Engineer

ES: dh
DECLARATION OF EXISTING WATER WITHDRAWAL AND USE
Honolulu and Waialua Ground Water Control Areas

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before June 4, 1981, in accordance with Regulation 9 of the Department. Submit the form with any attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

1. WATER USER: Name: KOHEHAWEA SCHOOLS
   Mailing address: KOHOLĀHA HEIGHTS
   Phone: 842-8270

2. WATER USER'S WELL CONNECTED BATTERY OF WELLS:
   User's Well Name and Location: DEEPWELL - 1619 KOHOLĀHA AVE
   Tax Map Key: 1-6-27-77
   User's Well No. (s) Pump or natural flow capacity (gpm): 1
   Capacity determined by flowmeter, nameplate, orifice, etc. (specify): NO NAMEPLATE
   Year pump inst./modified: 1984
   Old #610.8580/78
   New 11/6/17

3. BENEFICIAL USE OF WATER:
   (a) Major Use: 
   (specify)
   (b) Minor Uses: (specify)
   (c) For Agriculture Use list crop(s) total acreage irrigated , and attach map showing acreage irrigated by the well source.

4. BENEFICIALLY USED WATER WITHDRAWALS:
   (a) All figures given in (b) are records of: 
   Metered flow  Nameplate pump capacity
   Orifice  Weir  Other (specify)
   (b) Records available (in million gallons per day, three decimal places):
   
<table>
<thead>
<tr>
<th>Month</th>
<th>1975</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>5194.350</td>
<td>0.166 MGD</td>
</tr>
<tr>
<td>Feb.</td>
<td>4850.600</td>
<td>0.171 MGD</td>
</tr>
<tr>
<td>Mar.</td>
<td>5072.400</td>
<td>0.154 MGD</td>
</tr>
<tr>
<td>Apr.</td>
<td>5421.150</td>
<td>0.181 MGD</td>
</tr>
<tr>
<td>May</td>
<td>5769.300</td>
<td>0.193 MGD</td>
</tr>
<tr>
<td>June</td>
<td>4501.850</td>
<td>0.157 MGD</td>
</tr>
<tr>
<td>July</td>
<td>5251.440</td>
<td>0.169 MGD</td>
</tr>
<tr>
<td>Aug.</td>
<td>6881.250</td>
<td>0.232 MGD</td>
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<tr>
<td>Sep.</td>
<td>7223.300</td>
<td>0.257 MGD</td>
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<tr>
<td>Oct.</td>
<td>7014.750</td>
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</tr>
<tr>
<td>Nov.</td>
<td>6132.700</td>
<td>0.204 MGD</td>
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<tr>
<td>Dec.</td>
<td>4929.050</td>
<td>0.160 MGD</td>
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<tr>
<td>Yr. total</td>
<td>65819.800</td>
<td>2.114 MGD</td>
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<tr>
<td>Mo. Ave</td>
<td>5181.78</td>
<td>0.443 MGD</td>
</tr>
<tr>
<td>5-year average:</td>
<td>mgd</td>
<td>highest day use 468.200 mgd on 11-25-1979</td>
</tr>
</tbody>
</table>

(c) For Agriculture Use only: description of withdrawal schedule (include times of day and days of week):

5. WELL DESCRIPTION:
   On the attached sheet, make corrections or additions thereon in red pencil as necessary and return with Declaration form. If information is readily available in another form, you may submit it in lieu of the corrected sheet.

Declaration: Under penalties provided in Regulation 9 of the Department of Land and Natural Resources, the undersigned declare and certify that this declaration has been examined, including accompanying statements, and to the best of our knowledge and belief, it is true, correct, and complete.

Water User: KOHEHAWEA SCHOOLS
   (print)  Ray L. Breyer, Principal
   (signature)  Date: 3/10/81

Landowner of Well Site: KOHEHAWEA SCHOOLS
   (print)
   (signature)  Date:

For Official Use: Last day to certify Date certified Amount certified WELL(S) No.
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

<table>
<thead>
<tr>
<th>Well Number: 8052-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name or Location: Kamehameha School 2</td>
</tr>
<tr>
<td>Owner or User: Bishop Estate</td>
</tr>
<tr>
<td>Year drilled: 1977</td>
</tr>
<tr>
<td>Driller: Water Resources International</td>
</tr>
<tr>
<td>Ground Surface Elevation in feet referenced to mean sea level: 90</td>
</tr>
<tr>
<td>Casing Diameter in inches: 12</td>
</tr>
<tr>
<td>Total depth of well in feet: 334</td>
</tr>
<tr>
<td>Casing depth in feet: 129</td>
</tr>
<tr>
<td>Major Use:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Static Water Level in feet: 86</td>
</tr>
<tr>
<td>Chloride content of water in milligrams/liter:</td>
</tr>
<tr>
<td>Installed pump capacity in million gallons per day: 0.86</td>
</tr>
<tr>
<td>Average annual draft in million gallons per day:</td>
</tr>
</tbody>
</table>
Mr. Ed Sakoda, Geologist  
Division of Water and Land Development  
Department of Land and Natural Resources  
1151 Punchbowl Street  
Honolulu, Hawaii  96813  

Dear Ed:  

Pursuant to your recent request, I am transmitting a list of the public water systems and sources presently on our inventory of public water systems for the newly designated Waialua and Honolulu Groundwater Control Areas. As mentioned, a public water system as defined by Chapter 49, Public Health Regulations is any system which serves 25 or more persons 60 days per year. The enclosed list, therefore, does not include sources for water systems serving less than 25 persons.

<table>
<thead>
<tr>
<th>System No.</th>
<th>Sources No.</th>
<th></th>
</tr>
</thead>
</table>
| 301        | Dole Pineapple Canning Water System | USGS 1952-11  
|            |                      | USGS 1952-13  
|            |                      | USGS 1952-20  
|            |                      | USGS 1952-21  |
| 308        | MTL Water System     | USGS 1851-20  
| 312        | Queen's Medical Center | USGS 1851-11  
| 319        | Kamehameha Schools   | USGS 2052-07  
| 323        | Pacific Club         | USGS 1851-07  
| 324        | Punahou School       | USGS 1849-10  
| 330        | Sheraton Hotels      | USGS 1749-19  |
NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: KAMEHAMEHA SCHOOL

OWNER OF WELL: BISHOP ESTATE

DRILLING COMPANY: WATER RESOURCE INIT

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Waste Disposal (type)
(f) Soils Invest.
(g) Foundation Invest.
(h) Others (specify)

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY:

NEXT TO WELL #133

Date Submitted: 5/4/77

Signature of Owner

Title (If Applicable)

FOR DRILLER'S USE

Job Name: KAM SCHOOL

Job No.: 107

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


FOR OFFICIAL USE

Latitude: 21.20.17

Longitude: 157.52.11

Well No.: 2052-11

Material from: USGS 4/82.
August 24, 2004

Mr. Lance Inouye
Ralph S. Inouye Co., Ltd.
2831 Awaawaloa Street
Honolulu, HI 96819

Dear Mr. Inouye:

Well Abandonment Reports for Well Nos. 2052-07 & 11

We received your Well Abandonment Reports for the Kamehameha Schools Wells #1 & #2 (Well Nos. 2052-07 & 11) on August 17, 2004 and acknowledge that they are complete.

If you have any questions, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]

YVONNE Y.IZU
Deputy Director

LYN:ss

c: Dwight Ho, Beylik Drilling, Inc.
Mike Lum, Kamehameha Schools
WELL ABANDONMENT REPORT

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

1. State Well No. 20-52-07

2. Location / Address SCHOOL ST BUS TERMINAL, Island OAHU

3. Contractor BEYLK DRILLING, INC.

4. Type of Rig / Construction CRANE TRUCK

Casing Diameter 12 in.

Finished Grade Elevation 71.3 ft.

Total Measured Depth 320 ft.

Check Material Used

Grout Seal: [ ] Cement

Sand/Cement Ratio 1 / 1

Measured Depth of Blank Casing 115 ft.

Measured Depth of Perforated Casing NA ft.

Measured Depth of Open Hole 205 ft.

Remarks: The well was located in the basement of a CMU building, 8.5' below ground level.

Well Abandonment Contractor (print) BEYLK DRILLING, INC.

Signature ____________________________ Date 8/9/04

C-57 Lic. No. AC-21896

Applicant (print) Ralph S. Inouye Co., Ltd.

Signature ____________________________ Date 8-12-04

WAR Form (4/29/03)
**WELL ABANDONMENT REPORT**

1. **State Well No.** 20-52-11
2. **Location/Address:** SCHOOL ST BUS TERMINAL
   - Island: OAHU
   - Town: MAKAKI
3. **Contractor:** BEYLIK DRILLING, INC.
4. **Type of Rig:** CRANE TRUCK
5. **Date of Well Sealing Completion:** 6/26/04

<table>
<thead>
<tr>
<th>Check Material Used</th>
<th>Cement</th>
<th>Sand/Cement Ratio</th>
<th>1:1</th>
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</table>

<table>
<thead>
<tr>
<th>Measured Depth of Blank Casing</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured Depth of Perforated Casing</td>
<td>123</td>
</tr>
<tr>
<td>Measured Depth of Open Hole</td>
<td>241</td>
</tr>
</tbody>
</table>

**Remarks:**
- Well Abandonment Contractor (Print) BEYLIK DRILLING, INC.
- License No. AC-21866
- Lie No. AC-21866
- Signature: Ralph S. Inouye
- Date: 8/12/04

**Applicant (Print):** Ralph S. Inouye

**Date:** 8/9/04

**Signature:** Ralph S. Inouye

**Locked Gate Elevation:** 60.0 ft.

**Casing Diameter:** 12 in.

**Grout Seal:**
- [ ] Cement
- [x] Sand/Cement Ratio 1:1

**Total Measured Depth:** 241 ft.

**Measured Depth of Perforated Casing:** 123 ft.

**Measured Depth of Blank Casing:** NA

**Date of Well Sealing Completion:** 6/26/04

**War Form (4/29/03):**

**For Official Use Only:**

**Received: AUG 17 A1D: 5**
LETTER OF TRANSMITTAL

TO Commission of Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Attention: ____________________________

WE ARE SENDING YOU X Attached ______ Under separate cover via ______ the following items:

____ Shop drawings ______ Prints ______ Plans ______ Samples
____ Copy of letter ______ Change Order ______ Specifications ______ Other

<table>
<thead>
<tr>
<th>Copies</th>
<th>Date</th>
<th>No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>Well Abandonment Report - State Well No. 20-52-07</td>
</tr>
<tr>
<td>Original</td>
<td></td>
<td></td>
<td>Well Abandonment Report - State Well No. 20-52-11</td>
</tr>
</tbody>
</table>

THESE ARE TRANSMITTED as checked below:

____ For approval ______ Approved as submitted ______ Resubmit ______ copies for approval
____ For your use ______ Approved as noted ______ Submit ______ copies for distribution
X As required ______ Returned for corrections ______ Return ______ corrected prints
____ For review and comment ______ For ____________________

FOR BIDS DUE ________________ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

___________________________________________________________

___________________________________________________________

___________________________________________________________

COPY TO ________________________________________________

SIGNED: ____________________________

If enclosures are not as noted, kindly notify us at once.
MEMORANDUM FOR THE RECORD

FROM: Lenore Nakama
SUBJECT: Sealing of Kam School Wells

Muris Mitchell spoke with Kevin Gooding on 6/9/04 re: the sealing of Well No. 2052-11. They put 6 yards of 1:1 and it was up 30 ft. Later, they put 16 yards of 1:1 and it was up only 3 ft. Muris requested to put in ¾ inch rock, and it was approved.
MEMORANDUM FOR THE RECORD

From: Lenore Nakama
Subject: Start of Work Notice for Sealing of Well Nos. 2052-07 & 11

5/25/04 Bill Moore of Beylik called to let us know the contractor will begin sealing work this Thursday 5/27/04. The name of the person doing the actual work is Muris Mitchell (cell: 478-2963).
TO State of Hawaii
Department of Land and Natural Resources
1151 Punchbowl Street, Room 227
Honolulu, Hawaii 96809

Attention: Ms. Lenore Y. Nakama

WE ARE SENDING YOU X Attached

Under separate cover via the following items:

____ Shop drawings   ____ Prints
____ Copy of letter   ____ Change Order
____ Plans           ____ Samples
____ Specifications  ____ Other

Copies Date No. Description

 Orig. Well Construction Permit to Abandon/Seal

THESE ARE TRANSMITTED as checked below:

____ For approval      ____ Approved as submitted      ____ Resubmit ____ copies for approval

____ For your use      ____ Approved as noted         ____ Submit ____ copies for distribution

X. As requested       ____ Returned for corrections  ____ Return ____ corrected prints

____ For review and comment

____ FOR BIDS DUE _____________          ____ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

COPY TO

SIGNED: Lenore Y. Nakama

If enclosures are not as noted, kindly notify us at once.
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kamehameha Schools #1 & #2, Well No. 2052-07 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11) at 1624 Kalihi St., Oahu, TMK 1-S-77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well, or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be completed within two (2) years.

7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 28, 2003
Expiration Date: None

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: Michael Lum
Date: Feb. 10, 2004
Printed Name: MICHAEL LUM
Firm or Title: KAMEHAMEHA SCHOOLS
Contractor's Signature: Dwight A
License #: AE 21896
Date: 12/11/96
Printed Name: Dwight A
Firm or Title: BEBI DRILLING INC.

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

USGS Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
There were 2 specific license classes on this licensee!

<table>
<thead>
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<th><strong>CLASS CODE</strong></th>
<th><strong>CLASS TYPE</strong></th>
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<th><strong>RESTRICTED</strong></th>
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<td>A</td>
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<td>B</td>
<td>GENERAL BUILDING</td>
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<-Back   New Search->

EMPLOYEES LIST | EMPLOYERS LIST | INSURANCE/BOND | LICENSE CLASS

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Hawaii State homepage | DCCA | Professional and Vocational Licensing Division

LICENSE SCREEN

[ Look up License Type Codes-> ]

Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

LIC ID: CT-457
NAME: RALPH S INOUYE CO LTD
TRADE NAME:
STATUS: CURRENT, VALID & IN GOOD STANDING
ENTITY: CORPORATION
ORIG LIC DATE: 7/24/59
CLASS PREFIX: ABC
RESTRICTION:
BUSINESS ADDR: 2831-B AWAAWALOA ST HONOLULU HI 96819
MAILING ADDR:

Active/Inactive: ACTIVE
NAME:
LICENSEE
*****

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808)587-3295.

<-Back New Search->

EMPLOYEES LIST || EMPLOYERS LIST || INSURANCE/BOND || LICENSE CLASS

License information on this site reflects information in the Professional and Vocational Licensing Division as of February 23, 2004; however, applications and forms are subject to standard processing time, and the information here does not reflect pending changes which are being reviewed. The site is updated daily, Monday through Friday, except holidays. The State of Hawaii makes no guarantees as to the accuracy of the information accessed, the timeliness of the delivery of transactions, delivery to the correct party, preservation of the privacy and security of users and makes no warranties, including warranty of merchantability and fitness for a particular purpose. User is advised that if the information obtained herein is to be reasonably relied upon, user should confirm the accuracy of such information with the provider thereof.

LETTER OF TRANSMITTAL

04 FEB 19 A8:05

TO: State of Hawaii
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Attention: Mr. Peter T. Young, Chairperson
Commission on Water Resource Management

WE ARE SENDING YOU X Attached _____ Under separate cover via _____ the following items:

- Shop drawings
- Prints
- Plans
- Samples
- Copy of letter
- Change Order
- Specifications
- Other

### Copies | Date | No. | Description
--- | --- | --- | ---
Orig. | | | Well Construction Permit to Abandon/Seal

THESE ARE TRANSMITTED as checked below:

- For approval
- Approved as submitted
- Resubmit ___ copies for approval
- For your use
- Approved as noted
- Submit ___ copies for distribution
- As required
- Returned for corrections
- Return ___ corrected prints
- For review and comment
- For ___

FOR BIDS DUE _____________________ PRINTS RETURNED AFTER LOAN TO US

REMARKS:


COPY TO

SIGNED: __________________________

If enclosures are not as noted, kindly notify us at once.
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works" this document permits the abandonment/sealing of Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11) at 1624 Kailukine St., Oahu, TMK 1-6-27:77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner’s or operator’s expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be completed within two (2) years

7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 28, 2003
Expiration Date: None

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee’s Signature: Michael Lum __________________________ Date: 07-10-2004
Printed Name: MICHAEL LUM Firm or Title: KAMEHAMEHA SCHOOLS
Contractor’s Signature: __________________________ License #: ABC-457 Date: 02-18-04
Printed Name: Herbert S. Inouye Firm or Title: Vice President Ralph S. Inouye Co., Ltd.

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
February 17, 2004

Mr. Mike Lum
Kamehameha Schools
567 South King Street
Honolulu, HI 96813

Dear Mr. Lum:

Well Abandonment Permit Applications for Well Nos. 2052-07 & 11

This follows a February 10, 2004 telephone call from my staff, notifying you that the Well Abandonment Permit for Well Nos. 2052-07 & 11, issued on May 8, 2003 (attached), is still valid. As such, we are returning your applications for new permits to abandon/seal these sources.

Please sign, and have your contractor sign, the attached copy of the permit and return a fully executed permit to our office prior to the start of any work.

If you have any questions about your permit application, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]

ERNEST Y.W. LAU
Deputy Director

LYN:ss
Attachments

c: Dwight Ho, Beylik Drilling
Hi Mike,

As discussed, I am transmitting a copy of the abandonment permit, which is still valid. Please sign and have your contractor sign the permit and return an executed copy to us. Please do not forget to submit a Well Abandonment Report after the work is done.

I will be sending another copy of the abandonment permit via regular mail, along with your new applications with a cover letter explaining that new applications are unnecessary.

Please call me at 587-0218 if you have any questions.

Aloha,
Lenore
<table>
<thead>
<tr>
<th>SRC/D</th>
<th>COST</th>
<th>OBJ</th>
<th>CTR</th>
<th>PROJECT</th>
<th>PH ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
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<tr>
<td>04</td>
<td>326</td>
<td>C</td>
<td>1026</td>
<td>0752</td>
<td></td>
<td>(1) $50.00 Beylik Drilling, Inc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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**TOTAL** $ 50.00

**REMARKS:**
LINE (1) Well Nos. 2052-07 & 11
LINE (2) 
LINE (3) 
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10) 

2/6/04 Fiscer already deposited the check. Application does say 'non-refundable' so we'll refund only if KS requests. (P.O. will take ~6 weeks to process)
### State of Hawaii
**COMMISSION ON WATER RESOURCE MANAGEMENT**
Department of Land and Natural Resources

**APPLICATION FOR PERMIT**

*Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit [http://www.state.hi.us/dlnr/cwwm](http://www.state.hi.us/dlnr/cwwm).*

#### APPLICANT INFORMATION:
Fill out all three, if applicable, and place a check next to the primary contact.

1. **(a)** WELL OWNER: Kamehameha Schools  
   - Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813  
   - Contact Person: Mike Lum  
   - Phone: 808-534-3942

2. **(b)** LAND OWNER: Kamehameha Schools  
   - Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813  
   - Contact Person: Mike Lum  
   - Phone: 808-534-3848

3. **(c)** CONTRACTOR: Beylik Drilling, Inc.  
   - Mailing Address: 91-259A Olai Street, Kapolei HI 96707  
   - Contact Person: Dwight Ho  
   - Phone: 808-682-5554  
   - Fax: 808-682-5554  
   - E-mail: ho@beylik.com  
   - Lic #: AC-21896

#### WELL & PUMP INFORMATION:
(Please fill in the diagram on the back of this form.)

2. **WELL NAME:** School Street Deepwell  
   - Island: Oahu  
   - Address: School St Bus Terminal  
   - Tax Map Key: Zone 1, Sec 6, Plat 27, Parcel 77

3. **PROPOSED WORK:**
   - (check all that apply)
     - Construct New Well
     - Modify Existing Well
     - Abandon/Seal*  

4. **CONSTRUCTION:**
   - Drilled  
   - Dug  
   - Shaft  
   - Tunnel

5. **PROPOSED PUMPING RATE:**
   - (in gallons per minute)

6. **PROPOSED USE:**
   - (check all that apply)
     - Municipal (including hotels, stores, etc.)
     - Domestic (individual, noncommercial water system)
     - Irrigation (crop)
     - Other (explain)  

7. **PROPOSED AMOUNT OF WITHDRAWAL:**
   - (in gallons per day)

8. **METHOD OF FLOW MEASUREMENT:**
   - Flowmeter  
   - Open-pipe  
   - Weir  
   - Orifice  
   - Other (explain)  

#### OTHER IMPORTANT INFORMATION:

8. **LEGAL REQUIREMENTS:**
   - If required, these permits must be obtained before the Commission can legally issue a permit.
   - Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   - Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEOC at 586-4165
   - Special Management Area Permit (SMAP) To determine if an SMAP is necessary: on Oahu, call 527-5374; on Hawaii, call 961-8288; for Maui county, call 270-7235; on Kauai, call 241-9677.

9. **ARCHEOLOGICAL REQUIREMENTS:**
   - To find out if an archeological work is required: on Oahu, call Elaine Jurandane at 692-8027; on Hawaii, call MaryAnne Malagat at 327-3690, for Maui county, call Cathy Denny at 692-8023, on Kauai, call Nancy McCormack at 742-7053.

10. **REMARKS, EXPLANATIONS:**

**NOTE:** Signing below indicates the signatories understand and swear that the information provided in this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/lad abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

**Well Owner**  
- Kamehameha Schools
  - Signature: [Signature]
  - Date: 1/22/04

**Landowner**  
- Kamehameha Schools
  - Signature: [Signature]
  - Date: 1/22/04

**Contractor**  
- Beylik Drilling, Inc.
  - Signature: [Signature]
  - Date: 1/20/04

**For official use only**  
- Aquifer System No.  
- State Well No.
APPLICATION FOR PERMIT

Applicant Information:
1. (a) ☐ Well Owner: Kamehameha Schools  
   Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813
   Phone: 808-534-3948
   Fax: 808-534-3948
   Contact Person: Mike Lum
   E-mail: 

   (b) ☐ Land Owner: Kamehameha Schools  
   Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813
   Phone: 808-534-3948
   Fax: 808-534-3948
   Contact Person: Mike Lum
   E-mail: 

   (c) ☐ Contractor: Beylik Drilling, Inc.  
   Mailing Address: 91-259A Olai Street, Kapolei HI 96707
   Phone: 808-682-5554
   Fax: 808-682-5554
   Contact Person: Dwight Ho
   E-mail: ho@beylik.com
   Lic#: AC-21896

WELL & PUMP INFORMATION:
2. WELL NAME: School Street Deepwell  
   Island: Oahu
   Address: School St Bus Terminal
   Tax Map Key: Zone 1  Sec 6  Plat 27  Parcel 77
   Attatch: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quadrant map (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK:  
   (check all that apply)  
   ☐ Construct New Well  
   ☐ Install New Pump  
   ☐ Modify Existing Well  
   ☐ Abandon/Send
   "State Well No.: 20-52-11 (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION:  
   ☐ Drilled  
   ☐ Dug  
   ☐ Shaft  
   ☐ Tunnel
   Is this well part of a battery of wells? ☐ Yes ☐ No (Please describe)

5. PROPOSED PUMPING RATE:  
   gallons per minute

6. PROPOSED USE:  
   (check all that apply)  
   ☐ Municipal (including hotels, stores, etc.)  
   ☐ Industrial
   ☐ Domestic (individual, noncommercial water system)
   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? ☐ Yes ☐ No
   ☐ Irrigation (crop)  
   ☐ No  
   ☐ Other (explain):  

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:  
   gallons per day
   (b) METHOD OF FLOW MEASUREMENT:  
   ☐ Flowmeter  ☐ Open-pipe  ☐ Weir  ☐ Orifice  ☐ Other (explain)

OTHER IMPORTANT INFORMATION:
8. LEGAL REQUIREMENTS:  
   If required, these permits must be obtained before the Commission can legally issue a permit.  
   Conservation District Use Permit (CDUP): To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   ☐ Not Required  
   ☐ If required, date approved
   Environmental Impact Statement (EIS) or Environmental Assessment (EA): To determine if an EIS or EA is necessary, call OECO at 596-4185  
   ☐ Not Required  
   ☐ If required, date published in OECO bulletin
   Special Management Area Permit (SMAP): To determine if an SMAP is necessary: on Oahu, call 527-5374; on Hawaii, call 681-8288; for Maui county, call 270-7295; on Kauai, call 241-6677.
   ☐ Not Required  
   ☐ If required, date approved

9. ARCHEOLOGICAL REQUIREMENTS:  
   To find out if an archeological work is required: on Oahu, call Elaine Jourdane at 692-8027; on Hawaii, call Mary Anne Maigret at 327-3690; for Maui county, call Cathy Gager at 692-8023; on Kauai, call Nancy McMahon at 742-7033.
   ☐ Not Required  
   ☐ If required, please attach letter from DLNR Historic Preservation

10. REMARKS, EXPLANATIONS:

   (If more space is needed, please attach additional sheet)

NOTE: Signing below indicates the signatories understand and agree that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute the determinations consistent with water rights and shall not constitute the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought to compliance, and any work done while the permit is in suspension may result in fines of up to $1,000 per day.

Well Owner: Kamehameha Schools  
Signature: __________________________  
Date: 1/22/04

Land Owner: Kamehameha Schools  
Signature: __________________________  
Date: 1/22/04

Contractor: Beylik Drilling, Inc.  
Signature: __________________________  
Date: 1/20/04

For official use only
Latitude: __________________________  
Longitude: __________________________  
State Well No.: ________________________

Applicant: __________________________  
Date: __________________________

Applicant: __________________________  
Date: __________________________

Applicant: __________________________  
Date: __________________________

Applicant: __________________________  
Date: __________________________
TO

COMMISSION ON WATER RESOURCE MGMT.

P.O. BOX 621

HONOLULU, HI 96809

WE ARE SENDING YOU

attached □ Under separate cover via

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐

<table>
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<td>APPLICATION FOR PERMIT - STATE WELL NO. 20-52-11</td>
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THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit ______ copies for approval

☐ For your use ☐ Approved as noted ☐ Submit ______ copies for distribution

☐ As requested ☐ Returned for corrections ☐ Return ______ corrected prints

☐ For review and comment ☐ FOR PROCESSING ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

□ PRINTS RETURNED AFTER LOAN TO US

SIGNATURE:

If enclosures are not as noted, kindly notify us at once. DREW MARTIN, DIVISION MGR.

COPY TO 9358H/C FILE

SIGNED:

Dwight Ho, Division MGR.
May 8, 2003

Ref: 2052-07&11.wap

Mr. Mike Lum
Kamehameha Schools
567 S. King St.
Honolulu, HI 96813

Dear Mr. Lum:

Well Abandonment Permit
Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. Separate Well Abandonment Reports shall be filed for each well.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosures

c: Ken Ishizaki, Engineering Concepts, Inc.
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kamehameha Schools #1 & #2, Well No. 2052-07 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11) at 1624 Kaliakahi St., Oahu, TMK 1-6-27:77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

5. The permittee shall comply with all applicable laws, rules, and ordinances.

6. The sealing shall be completed within two (2) years.

7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: April 28, 2003
Expiration Date: None

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee’s Signature: __________________________ Date: __________________________
Printed Name: __________________________ Firm or Title: __________________________

Contractor’s Signature: __________________________ License #. __________________________ Date: __________________________
Printed Name: __________________________ Firm or Title: __________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment: USGS
Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
DEPARTMENT OF LAND AND NATURAL RESOURCES

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MARKS: LINE (1)   WELL NO. 2052-07, 11
LINE (2)
LINE (3)
LINE (4)

THIS PORTION IS NON-NECOTIABLE

KAMEHAMEHA SCHOOLS

VOID 90 DAYS AFTER
04/17/03
PAY THIS AMOUNT
$25.00

PAY TO THE ORDER OF
STATE OF HAWAII-DLNR
1151 PUNCHBOWL ST #310
P O BOX 821
HONOLULU HI 96809

TWO SIGNATURES REQUIRED FOR CHECKS GREATER THAN $100,000.

AUTHORIZED SIGNATURE

KAMEHAMEHA SCHOOLS

VOID 90 DAYS AFTER
04/17/03
PAY THIS AMOUNT
$25.00

PAY TO THE ORDER OF
STATE OF HAWAII-DLNR
1151 PUNCHBOWL ST #310
P O BOX 821
HONOLULU HI 96809

TWO SIGNATURES REQUIRED FOR CHECKS GREATER THAN $100,000.

AUTHORIZED SIGNATURE
ENGINEERING CONCEPTS, INC.  
1150 South King Street, Suite 700  
Honolulu, HI 96814  
Ph. (808)591-8820  Fax (808)591-9010  
E-mail address: eci@ecihawaii.com

TO:  Department of Land and Natural Resources  
Commission on Water Resource Management  
Kalanikou Bldg., Room 227  
1151 Punchbowl Street, Honolulu, HI

WE ARE SENDING YOU  ☒ Attached  ☐ Under separate cover via ___ the following items  
☐ Shop drawings  ☐ Prints  ☐ Plans  ☐ Samples  ☐ Specifications  
☐ Copy of letter  ☐ Change order  ☒ Other:  See below

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☐ For approval  ☐ No Exceptions Taken  ☐ Resubmit ___ copies for approval  
☒ For your use  ☐ Note Markings/Corrections  ☐ Submit ___ copies for distribution  
☐ As requested  ☐ Returned for corrections  ☐ Return ___ correct prints  
☐ For review & comment  ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS:  
For Processing.

COPY TO:  
SIGNED:  Ken Ishizaki

If enclosures are not as noted, kindly notify us at once.
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  
APPLICATION FOR PERMIT  

| 1. (a) WELL OWNER: | Kamehameha Schools  
| Contact Person: | Mike Lum  
| Mailing Address: | 567 S. King St., Honolulu, Hawaii 96813  
| Fax: | (808)534-3848  
| E-mail: | NILUM@KSBE.EDU  
| 2. WELL NAME: | Kamehameha School #1  
| Island: | Oahu  
| Address: | 1624 Kaukahine St.  
| Tax Map Key: | 1 6 27 77  
| Zone: | 6  
| Sec: | 27  
| Plat: | 77  
| Parcel: | 1  
| 3. PROPOSED WORK: |  
| (check all that apply) |  
| □ Construct New Well  
| □ Modify Existing Well*  
| □ Abandon/Seal*  
| State Well No.: | 20-52-07  
| (if unknown, please call Commission at 587-0225)  
| 4. CONSTRUCTION: |  
| □ Drilled  
| □ Dug  
| □ Shaft  
| □ Tunnel  
| Is this well part of a battery of wells? | □ Yes □ No (Please describe)  
| 5. PROPOSED PUMPING RATE: | gallons per minute  
| 6. PROPOSED USE: |  
| (check all that apply) |  
| □ Municipal (including hotels, stores, etc.)  
| □ Domestic (individual, noncommercial water system)  
| □ Industrial  
| □ Irrigation (crop)  
| □ No. of Acres: |  
| □ Military  
| □ Other (explain): |  
| 7. (a) PROPOSED AMOUNT OF WITHDRAWAL: | gallons per day  
| (b) METHOD OF FLOW MEASUREMENT: |  
| □ Flowmeter  
| □ Open-pipe  
| □ Weir  
| □ Orifice  
| □ Other (explain): |  

OTHER IMPORTANT INFORMATION:  

8. LEGAL REQUIREMENTS:  
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□ Not Required  
If required, date approved  
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Well Owner  
Kamehameha Schools  
Signature: Michael Lum  
Date: 4/11/03  
Landowner  
Kamehameha Schools  
Signature:  
Date:  
Contractor  
Kamehameha Schools  
Signature: Michael Lum  
Date: 4/11/03  

For official use only  
Latitude:  
Longitude:  
Aquifer System No.:  
State Well No.:  

For further information and updates to this application, please visit the Department of Land and Natural Resources website.
10. PROPOSED WELL SECTION  

**Please attach schematic if different from diagram provided below**

**Hole Diameter:** _______ in.

**Elevation at top of casing:** ______ ft., masl

Cement Grout: ______ ft.  
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Annular space between hole and casing (min.3"):

______ in.

**Rock or Gravel Packing:**

Total Depth: ______ ft.

Material:

- Crushed Basalt
- Rounded Gravel

**Estimated Water Level Elev.:** ______ ft., masl

**Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**

**Ground Elevation:** ______ ft., masl

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev.))

- Total Length: ______ ft.
- Nominal Diameter: ______ in.
- Wall Thickness: ______ in.
- Bottom Elevation: ______ ft., masl

Open Casing:

- Total Length: ______ ft.
- Nominal Diameter: ______ in.
- Wall Thickness: ______ in.
- Bottom Elevation: ______ ft., masl

- note: Neither bentonite nor mud should be used in saturated zone during drilling

**Open Hole:**

- Length: ______ ft.
- Diameter: ______ in.
- Bottom Elevation: ______ ft., masl

**Solid Casing Material:**

- Carbon Steel: compliant with (check one or more):
  - ANSI/WWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
  - Other

  And compliant with (check one or more):
  - ASTM A422
  - Type E
  - Type S
  - Grade B
  - Other

- Stainless Steel: (check one):
  - ASTM A409 (production wells)
  - ASTM A312 (monitor wells)

- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)
  - Schedule 40
  - Schedule 80

- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)
  - Schedule 40
  - Schedule 80
  - Schedule 120

- Thermoset Plastic: (check one)
  - Filament Wound Resin Pipe conforming to ASTM D2996
  - Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - FEP Fluorocarbon Tubing conforming to ASTM D3296

- Open Casing Material:
  - Carbon Steel: compliant with (check one or more):
    - ANSI/WWA C200
    - API Spec. 5L
    - ASTM A53
    - ASTM A139

  And compliant with (check one or more):
  - ASTM A422
  - Type E
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For non-salt water Basal Wells - bottom elevation of well should not deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = \( \text{Ground Elev.} \div 4 \)

Example: Estimated = 2 ft. Water Level Elev. —> Bottom Elevation of Well Limit = \( \frac{\text{Ground Elev.}}{4} - \frac{1}{4} \times \text{Water Level Elev.} \) = -18.5 ft.

**Solid Casing Material:**

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  - ANSI/WWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139

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Example: Estimated = 2 ft. Water Level Elev. —> Bottom Elevation of Well Limit = \( \frac{\text{Ground Elev.}}{4} - \frac{1}{4} \times \text{Water Level Elev.} \) = -18.5 ft.
### APPLICANT INFORMATION:
(Fill out all three, if applicable, and place a check next to the primary contact)

1. **(a) WELL OWNER:** Kamehameha Schools Bishop Estate  
   Mailing Address: 567 S. King St.  
   Honolulu, Hawaii 96813  
   Fax: (808)534-3848  
   E-mail: MILUM@KSB.E.EDU  
   Contact Person: Mike Lum

2. **(b) LAND OWNER:** Kamehameha Schools Bishop Estate  
   Mailing Address: 567 S. King St.  
   Honolulu, Hawaii 96813  
   Fax: (808)534-3848  
   E-mail: MILUM@KSB.E.EDU  
   Contact Person: Mike Lum

3. **(c) CONTRACTOR:** To be submitted later  
   Mailing Address:  
   Fax:  
   E-mail:  
   Lic #:  
   Phone: 

### WELL & PUMP INFORMATION:
(Please fill in the diagram on the back of this form.)

2. **WELL NAME:** Kamehameha School #2  
   Island: Oahu  
   Address: 1624 Kaikushe St.  
   Tax Map Key:  
   Tax Location:

3. **PROPOSED WORK:** (check all that apply)  
   - [ ] Construct New Well
   - [ ] Modify Existing Well
   - [ ] Abandon/Seal
   - [ ] Install New Pump
   - [ ] Modify Pump
   *State Well No.: 20-52-11* (if unknown, please call Commission at 587-0225)

4. **CONSTRUCTION:**  
   - [ ] Drilled
   - [ ] Dug  
   - [ ] Shaft
   - [ ] Tunnel
   Is this well part of a battery of wells?  
   - [ ] Yes  
   - [ ] No  
   (Please describe)

5. **PROPOSED PUMPING RATE:**
   - [ ] Municipal (including hotels, stores, etc.)
   - [ ] Domestic (individual, noncommercial water system)
   - [ ] Industrial
   - [ ] No. of Acres:  
   - [ ] Other (explain):  
   - [ ] Irrigation (crop)
   - [ ] No.
   - [ ] Military
   - [ ] Other (explain):

6. **PROPOSED USE:** (check all that apply)  
   - [ ] Municipal (including hotels, stores, etc.)
   - [ ] Domestic (individual, noncommercial water system)
   - [ ] Industrial
   - [ ] No. of Acres:  
   - [ ] Other (explain):

7. **(a) PROPOSED AMOUNT OF WITHDRAWAL:**
   - [ ] Gallons per minute  
   - [ ] Gallons per day  
   - [ ] Flowmeter  
   - [ ] Open-pipe  
   - [ ] Weir  
   - [ ] Orifice  
   - [ ] Other (explain):

8. **LEGAL REQUIREMENTS:** If required, these permits must be obtained before the Commission can legally issue a permit.
   - [ ] Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   - [ ] Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at 585-4185
   - [ ] Special Management Area Permit (SMAP) To determine if a SMAP is necessary on Oahu, call 527-5374; on Hawaii, call 961-8288; for Maui county, call 270-7235; on Kauai, call 241-6677.
   - [ ] Other (explain):

9. **REMARKS, EXPLANATIONS:**
   (if more space is needed, please attach additional sheet)

### Other Important Information:

- **For Official Use Only:**
  - **Date:**
  - **Signature:**

### Well Information:
- **Well Owner:** KAMEHAMEHA SCHOOLS (print legibly)  
  - **Signature:**  
  - **Date:**

- **Landowner:** KAMEHAMEHA SCHOOLS (print legibly)  
  - **Signature:**  
  - **Date:**

- **Contractor:** (print legibly)  
  - **Signature:**  
  - **Date:**

### For official use only:
- **Latitude:**  
- **Longitude:**  
- **Aquifer System No.:**  
- **State Well No.:**
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

<table>
<thead>
<tr>
<th><strong>Solid Casing Material:</strong></th>
<th>Carbon Steel: compliant with (check one or more):</th>
<th>ANSI/AWWA C200</th>
<th>API Spec. 5L</th>
<th>ASTM A53</th>
<th>ASTM A139</th>
</tr>
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<tbody>
<tr>
<td>And compliant with (check one or more):</td>
<td>ASTM A242</td>
<td>Type E</td>
<td>Type S</td>
<td>Grade B</td>
<td>Other</td>
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<tr>
<td><strong>ABS Plastic conforming to ASTM F480 and ASTM D1527:</strong> (check one)</td>
<td>Schedule 40</td>
<td>Schedule 80</td>
<td></td>
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<td></td>
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<td>Centrifugally Cast Resin Pipe conforming to ASTM D2997</td>
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<td>FEP Fluorocarbon Tubing conforming to ASTM D3296</td>
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Example: Estimated = 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = (2 - (2 - 5.4) / 4) = -18.5 ft.

**Solid Casing Material:**
- Total Depth: __________ ft.
- Rock or Gravel Packing:
  - Material: __________ ft.
  - Crushed Basalt
  - Rounded Gravel
- Estimated Water Level Elevation: __________ ft., msl*
- Minimum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)
- Hole Diameter: __________ in.
- Ground Elevation: __________ ft., msl*
- Cement Grout: __________ ft.
  (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)
- Annular space between hole and casing (min.3):
  __________ in.
- Open Casing:
  - Perforated
  - Screen
  - Total Length: __________ ft.
  - Nominal Diameter: __________ in.
  - Wall Thickness: __________ in.
  - Bottom Elevation: __________ ft., msl*
- Open Hole:
  - Length: __________ ft.
  - Diameter: __________ in.
  - Bottom Elevation: __________ ft., msl*

**Open Casing Material:**
- Total Depth: __________ ft.
- Annular space between hole and casing (min.3):
  __________ in.
- Rock or Gravel Packing:
  - Material: __________ ft.
  - Crushed Basalt
  - Rounded Gravel

---

* Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.

---

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  - Screen
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  - Wall Thickness: __________ in.
  - Bottom Elevation: __________ ft., msl*
- Open Hole:
  - Length: __________ ft.
  - Diameter: __________ in.
  - Bottom Elevation: __________ ft., msl*
Date of report: 6/24/77
Person filing report: D.R. Craddick

A. OWNER: BISHOP ESTATE  
NAME: KAMEHAMEHA SCHOOL 2  
ISLAND: OAHU

B. GENERAL LOCATION: KAPALAMA

C. DRILLING COMPANY: WATER RESOURCES INTERNATIONAL

D. TYPE OF RIG: SH 3500

DRILLING COMPLETED: 7/17  
DRILLER: S. Viera

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

F. HOLE SIZE:  
10 inch dia. to 129.1 ft. below drilling platform.  
11 inch dia. to 353.5 ft. below drilling platform.  

G. CASING INSTALLED:  
12 in. I.D. x 9 1/2 in. wall solid section to 129.1 ft. below drilling platform.  
12 in. I.D. x 9 1/2 in. wall perforated section to 353.5 ft. below drilling platform.  

H. ANNULUS: Grouted  
129.1 ft. to 129.1 ft. below drilling platform.  
Gravel packed  
129.1 ft. to 129.1 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no: 17-3801  
- GE 40 HP 460 V 1800 rpm  
- Motor type, H.P., voltage, r.p.m.  
- Capacity: 620 g.p.m.  
- Depth of pump intake setting: 110 ft. below discharge hd.  
- Depth of bottom of airline: 100 ft. below discharge hd.  
- which elevation is  
- ft.

HYDROLOGY

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

K. INITIAL CHLORIDE: 50  
ppm, total depth of well:  
ft. below drilling platform.

L. PUMPING TESTS:
- Reference point (R.P.) used:  
- which elevation is  
- ft.  
- Date  
- Start water level:  
- ft. below R.P.  
- End water level:  
- ft. below R.P.  
- Depth of well:  
- ft. below R.P.  

- Elapsed Time (hours)  
- Rate (gpm)  
- Draw-down (ft.)  
- CI (ppm)  
- Temp. °F  

<table>
<thead>
<tr>
<th>Start of Test</th>
<th>Elapsed Time</th>
<th>Rate</th>
<th>Draw-down</th>
<th>CI</th>
<th>Temp.</th>
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M. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level, ft.</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level, ft.</th>
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<td>Hard</td>
<td>0.5</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 96829.

NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: KAMEHAMEHA SCHOOL

OWNER OF WELL
BISHOP ESTATE
Mailing Address

DRILLING COMPANY
WATER RESOURCE INT'L
Mailing Address
Z & Z 860 KEO P. O. BOX 57

Proposed Construction Date 6/77
Proposed Completion Date 9/77
Proposed Depth 350'

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Waste Disposal (type)
(f) Soils Invest.
(g) Foundation Invest.
(h) Others (specify)

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY:
NEXT TO WELL 
#133

Date Submitted 5/4/77
Signature of Owner

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

from
ROY YAMAGUCHI
Head, Physical Plant

Pump Info - Both are the same.

PEABODY Flowby Pump
SIZE 10
TYPE DKM
STAGE 5
40 H.P.
600 GPM
1770 RPM
TDH - 170

G.E. MOTOR Hollowshaft
40 H.P. 1750 RPM. 3 PHASE
230/460 VOLTS.
100.2/50.1 AMPS.
TYPE K
FRAME G3247/6
MODEL. 5KG2374N584A
SER. # GNJ 706452

NO. 1 PUMP. SER. # 78-1650
NO. 2 - SER. # 77-3881

Any ? Please Be Feel To Call Me.
Tel. 842-8270

THE KAMEHAMEHA SCHOOLS · Honolulu, Hawaii
"OVER"
Note. 1 - Flow-meter for both pumps.
We alternate pumps.
## WELL INFORMATION SHEET

**Instructions:** The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

<table>
<thead>
<tr>
<th>Well Number:</th>
<th>2092-07</th>
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<tbody>
<tr>
<td>Name or Location:</td>
<td>Kapalama Ave.</td>
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<tr>
<td>Owner or User:</td>
<td>Kamehameha Schools/Bishop Estate</td>
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<td>Year drilled:</td>
<td>1927 1977</td>
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<td>Driller:</td>
<td>McCandless</td>
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<td>Ground Surface Elevation in feet referenced to mean sea level:</td>
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<tr>
<td>Casing Diameter in inches:</td>
<td>12 12''</td>
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<tr>
<td>Total depth of well in feet:</td>
<td>321 333.5'</td>
</tr>
<tr>
<td>Casing depth in feet:</td>
<td>118 129'</td>
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<tr>
<td>Major Use:</td>
<td>[ ] Domestic [ ] Disposal</td>
</tr>
<tr>
<td>Static Water Level in feet:</td>
<td>25.7 26</td>
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<tr>
<td>Chloride content of water in milligrams/liter:</td>
<td>39-190</td>
</tr>
<tr>
<td>Installed pump capacity in million gallons per day:</td>
<td></td>
</tr>
<tr>
<td>Average annual draft in million gallons per day:</td>
<td>0.2</td>
</tr>
</tbody>
</table>
March 16, 1981

The Kamehameha Schools
Kapalama Heights
Honolulu, Hawaii 96817

On February 27, 1981, the Board of Land and Natural Resources designated the Honolulu and Waialua Districts as the Honolulu Ground Water Control Area and the Waialua Ground Water Control Area. By this action, the Department of Land and Natural Resources is now responsible for regulating all uses of ground water in these areas.

If you are currently using ground water from any well or spring source, you are required to declare such water use to the Department of Land and Natural Resources if you wish to continue your present use. Specifically, you must fill out, sign, and return the enclosed Declaration of Existing Water Withdrawal and Use form to the Department by June 4, 1981, in accordance with Regulation 9 of the Department of Land and Natural Resources.

According to our records, you have 2 well(s) located on your property (Tax Map Key ________). Please complete the enclosed form and return it as soon as possible to: Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

If you have any questions or need help in filling out the form, please call the Division of Water and Land Development at 548-7619. Thank you for your cooperation.

Very truly yours,

[Signature]
SUSUMU ONO
Chairman of the Board

Enc.
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Well Number: 2092-07

Name or Location: Kapalama Ave.

Owner or User: Bishop Estate

Year drilled: 1927

Driller: McCandless

Ground Surface Elevation in feet referenced to mean sea level: 80

Casing Diameter in inches: 12

Total depth of well in feet: 321

Casing depth in feet: 118

Major Use:

- Domestic
- Municipal
- Irrigation
- Industrial
- Unused
- Sealed
- Observation
- Disposal
- Lost
- Recharge
- Other (specify) ________

Static Water Level in feet: 28.7

Chloride content of water in milligrams/liter: 39-190

Installed pump capacity in million gallons per day: ________

Average annual draft in million gallons per day: 0.2
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

<table>
<thead>
<tr>
<th>Well Number:</th>
<th>2052-11</th>
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<tbody>
<tr>
<td>Name or Location:</td>
<td>Kamehameha School 2</td>
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<tr>
<td>Owner or User:</td>
<td>Bishop Estate</td>
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<tr>
<td>Year drilled:</td>
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<td>Driller:</td>
<td>Water Resources International</td>
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<td>Ground Surface Elevation in feet referenced to mean sea level:</td>
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<td>Casing depth in feet:</td>
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<td>Major Use:</td>
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<td>Disposal</td>
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<td>Municipal</td>
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<td>Unused</td>
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<td></td>
<td>Other (specify)</td>
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<tr>
<td>Static Water Level in feet:</td>
<td>__________________________</td>
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<tr>
<td>Chloride content of water in milligrams/liter:</td>
<td>__________________________</td>
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<tr>
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<td>__________________________</td>
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<td>Initials</td>
<td>Name</td>
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<td>----------</td>
<td>-------------------------------</td>
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<tr>
<td></td>
<td>Robert T. Chuck</td>
</tr>
<tr>
<td></td>
<td>Walter O. Watson</td>
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<tr>
<td></td>
<td>Takeo Fujii</td>
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<td>James Yoshimoto</td>
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<td>Hong Fong Chang</td>
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<td>Albert Ching</td>
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<td>George Morimoto</td>
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<tr>
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<td>Manabu Tagomori</td>
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<td>Harold Sakai</td>
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<td>Daniel Lum</td>
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<td>Herbert Morimatsu</td>
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<td>Paul Matsuo</td>
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<td>Harada Sakai</td>
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<td>Lorraine Nanbu</td>
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<td>Elsie Yonamine</td>
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<tr>
<td></td>
<td>Elsie Yonamine</td>
</tr>
</tbody>
</table>

Plot plan missing.

2052-11
July 29, 1977

Mr. Robert Chuck  
Manager and Chief Engineer  
Dept. of Land & Natural Resources  
Division of Water & Land Development  
P. O. Box 373  
Honolulu, Hawaii 96809

Dear Mr. Chuck:

Subject: Well Application and Permit to Water Resources International to Drill a Well at Kamehameha Schools

Enclosed for your information and files are copies of the well application and approved well permit issued to Water Resources International for the drilling of an artesian well at Kamehameha Schools.

Please call Chester Lao at 548-5276 if you have any questions regarding this permit.

Very truly yours,

Herbert H. Minakami  
Chief, Planning and Engineering Division

Enc.
TO: Water Resources International  
2828 Paa Street, Room 2085  
Honolulu, Hawaii  96819

ATTN: Mr. Ed. Craddick, President

Your application of July 14, 1977 to drill a well has been approved in accordance with our Rules and Regulations for the Protection, Development and Conservation of Water Resources in the City and County of Honolulu. Your completion of the well on July 14, 1977 despite warnings not to proceed without a valid permit is being pursued. Moreover, the casing length should have been at least 150 feet rather than 129 feet.

You are hereby granted a permit to drill a well at TMK: 1-16-27: 77 in accordance with the drawings submitted with your application.

This permit is granted subject to the Rules and Regulations of the Board of Water Supply and the following conditions:

1. Mr. Chester Lao of the Board of Water Supply, telephone 548-5276, shall be notified before any work covered by this permit commences.

2. An accurate metering device shall be installed to record output from the well.

3. The combined average pumpage from this well and the existing well, number 2052-07 (old 133), shall not exceed 150,000 gallons per day.

4. Electric logging of the well shall be performed by the Board of Water Supply.

5. A hole shall be drilled in the pump base to permit water levels to be measured.

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Pure Water... man's greatest need - use it wisely.
6. A log of formations and water levels encountered during drilling and pump testing of the as-built well and system connections to the well shall be submitted to the Board of Water Supply at the completion of construction.

We will not issue a permit in the future if work is done before receiving approval.

Edward Y. Hirata
Manager and Chief Engineer
Board of Water Supply

JUL 28 1977
Date of Permit

cc: Mr. Ed Oakes
Kamehameha Schools
APPLICATION FOR DRILLING, MODIFYING, RECASING
OR REUSING WELLS

INSTRUCTIONS: Please send 1 copy to Honolulu Board of Water Supply, who
will distribute to other agencies concerned. In filling out, refer to
Rules and Regulations of the Honolulu Board of Water Supply adopted on
May 10, 1976 and applicable rules and regulations of the State Department
of Health.

OWNER: (See BWS Rules and Regulations Chapter III, Sec. 3-305, Item 1a)

Attention: Ed Oakes

ADDRESS:
Kamahamah Schools
Kapalama Heights
Honolulu, HI 96817

1. APPLICATION FOR WELL: (See Chapter III, Sec. 3-305, Item 1)

Drill X
Modification
Change in use

2. WORK TO BE PERFORMED BY: (See Chapter III, Sec. 3-311)

Water Resources International
2828 Paa Street Room 2085
Honolulu, HI 96819

State License #AC 5058
Contractors C-57

WR 900 (Rev. 10-76)
3. USE OF WELL: (See Chapter III, Sec. 3-305, Item 1c)

Domestic use for persons attending or living at
Kamahamaha Schools.

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kapalama See plot plan enclosed.
   Tax Map Key: Oahu 16-2777

b. Land area served: (Attach map showing exact location of well and area served. See Chapter III, Sec. 3-305, Items 1b and 1d)
   See enclosed map

c. Description of well and appurtenant details: (See Chapter III, Sec. 3-305, Item 1e)
   5/16" wall 12" ID casing 129' 1 1/2" annulus grouted from the bottom up. 204.5' 11 1/2" ID open hole.
   Casing bottom elev-39 open hole bottom - 243 ground elev + 90.
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Twenty-five Thousand Dollars ($25,000.00), said amount of the bond to be set by the Engineer, are required for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

(See Chapter III, Sec. 3-305, Items 2 and 2a)

6. The Owner hereby agrees to the following special conditions for this well:

[Signature]

Date Submitted

[Name of applicant if other than Owner]