December 16, 2003

Transfer of Water Use Permit for Well Nos. 2006-01 to 11
Ewa-Kunia Ground-Water Management Area, Oahu

Thank you for notifying us of the transfer of the water use permit for Well Nos. 2006-01 to 11 from The Estate of James Campbell to Aina Nui Corporation, effective June 25, 2003.

This letter transmits your water use permit for EP 10 (Well Nos. 2006-01 to 11) for use of 0.957 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on January 26, 2000. This water use permit, WUP No. 670, shall supersede WUP No. 535. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa-Kunia Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

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

Sincerely,

Peter T. Young
Chairperson

Attachments
STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
P.O. BOX 921  
HONOLULU, HAWAII 96809  

GROUND-WATER USE PERMIT  
WUP NO. 670  

PERMITTEE  
Permittee/Water User: Aina Nui Corporation  
Address: 1001 Kamokila Blvd.  
Kapolei, HI 96707  

Landowner of Source  
Address: Same  

PERMITTED SOURCE INFORMATION  
Island: Oahu  
Water Management Area: Pearl Harbor  
Aquifer Sector: Ewa-Kunia  
Aquifer System: Ewa-Kunia  
System Sustainable Yield: 16  
Well Name: EP 10  
State Well No.: 2006-01 to 11  

PERMITTED USE INFORMATION  
Reasonable beneficial use: Agriculture  
Withdrawal (12 month moving ave.): 0.957 mgd  
Location of water use  
TMK #: 9-1-15:1  
Address: Ewa  
State land use classification: NA  
County zoning classification: NA  

Pursuant to Hawaii’s State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

11. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.
14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kunia Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

PETER T. YOUNG, Chairperson
Commission on Water Resource Management
Attachment
September 10, 2003

Ref: 2006-02&06.let

Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Cancellation of Water Use Permit Application
EP 10 (Well Nos. 2006-02 & 06)
Ewa-Kunia Ground Water Management Area, Oahu

This follows a September 9, 2003 telephone conversation between George Hiu and my staff regarding the status of the above-referenced application. According to Mr. Hiu, the ground water allocation requested in the application is no longer needed because Chevron has obtained reclaimed water to meet their industrial needs. As such, the above-referenced application is being cancelled.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,


ERNEST Y.W. LAU
Deputy Director

LN:ss

Dear Commission Staff:

Please be informed that on June 25, 2003, the Estate of James Campbell, Deceased, (the "Estate"), transferred or caused the transfer of the water systems in connection with State Well No. 2006-01, State Well No. 2006-02, State Well No. 2006-03, State Well No. 2006-04, State Well No. 2006-05, State Well No. 2006-06, State Well No. 2006-07, State Well No. 2006-08, State Well No. 2006-09, State Well No. 2006-10 and State Well No. 2006-11 (collectively Ewa Pump 10); State Well No. 3957-01 (Kahuku Pump 3); State Well No. 3957-03 (Kahuku Pump 3A); State Well No. 4057-06 (Kahuku Pump 8) and State Well No. 4057-07 (Kahuku Pump 12) to Aina Nui Corporation, a Hawaii corporation, whose address is James Campbell Building, Suite 255, 1001 Kamokila Boulevard, Kapolei, Hawaii 96707.

Pursuant to Hawaii Revised Statutes § 174C-59, the Estate hereby notifies the Water Commission that, as part of such conveyance, it will transfer any and all well and water permits and associated allocations related to the above referenced wells, so long as the place, quantity and purpose of use will remain the same by Aina Nui Corporation.

Please contact the undersigned with any questions.

Sincerely,

THE ESTATE OF JAMES CAMPBELL,
DECEASED

By

Stephen H. MacMillan
Chief Executive Officer
THE ESTATE OF JAMES CAMPBELL
March 14, 2000

Mr. Timothy E. Johns, Chairperson
Commission On Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Johns:

Water Use Permit 535 (EP 10): Water Shortage Plan

Thank you for sending the water use permit for the EP 10. A requirement of the permit is the submission of a water shortage plan identifying what The Estate of James Campbell (the “Estate”) is willing to do should the Commission on Water Resource Management (“Commission”) declare a water shortage situation in the Waipahu-Waiawa Ground Water Management Area.

In summary, the Estate is willing to reduce pumpage below allocations commensurate with general reductions requested of other large users in the Waipahu-Waiawa area while giving due regard for the growing crops of our tenants at the time of the request.

The immediate water needs of the crops now grown in the area served by the EP 10 is much more sensitive to day-to-day variations in water demands than the prior crop of sugarcane. Sugarcane could handle some immediate reductions of water delivery, albeit at the cost of some yield reduction. The crops grown now face not a yield reduction but potential failures if across the board cutbacks in water are made.

The ability to reduce pumpage below allocations in an emergency will basically be handled first by a reduction in ancillary water uses then by a reduction of new plantings. Therefore, although the Estate will certainly cooperate with the Commission as stated above, the response time may involve several weeks. We hope this meets your needs.

Also enclosed with this letter is the signed copy of the water use permit. If you have any questions, please call Bert Hatton at 674-3232.

Very truly yours,

Donna B. Goth
Director, Hawaii Properties

cc: Aloun Farm, Inc.
GROUND-WATER USE PERMIT
WUP NO. 535

PERMITTEE
Permittee/Water User
Address THE ESTATE OF JAMES CAMPBELL
1001 KAMOKILA BLVD.
KAPOLEI, HI 96707

Landowner of Source
Address SAME

PERMITTED SOURCE INFORMATION
Island OAHU
Water Management Area EWA-KUNIA
Aquifer Sector PEARL HARBOR
Aquifer System EWA-KUNIA
System Sustainable Yield 20 mgd
Well Name EP 10
State Well No. 2006-01 TO 11

PERMITTED USE INFORMATION
Reasonable beneficial use AGRICULTURE (based on 330 ACRES)
Withdrawal (12 month moving ave.) 0.957 mgd
Location of water use
TMK # 9-1-VARIOUS
Address EWA, OAHU
State land use classification AGRICULTURE
County zoning classification AG-1

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.
13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-52 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kunia Ground-Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years of the filing of the application.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

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

21. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

TIMOTHY E. JOHNS, 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 and understand that I do not hold a valid permit until I have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the date of this permit approval.

Permittee's Signature: THE ESTATE OF JAMES CAMPBELL
Printed Name: Donna B. Goth
Firm or Title: Director, Hawaii Properties
Date: March 14, 2000

Please sign both copies of this permit, return one to the Commission, and retain the other for your records.
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Notice of Action
Approval of Water Use Permit for Well Nos. 2006-01 to 11
Ewa-Kunia Ground Water Management Area, Oahu

This letter transmits your water use permit for EP 10 (Well Nos. 2006-01 to 11) for use of 0.957 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on January 26, 2000. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 20:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. Standard Condition 18 for interim permits shall not apply.

4. This water use permit, WUP No. 535, shall supersede WUP No. 121.

5. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

The Commission also reclassified the pending application for EP 10 (WUPA No. 493) as an application for a new water use (as opposed to an application to modify WUP No. 121).

Enclosed with this letter of approval are the following:

1. Your water use permit

2. Your official monthly water use report form
Please be sure to read the conditions of your approved permit. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa-Kuila Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission’s overall Water Shortage Plan.

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

Aloha,

TIMOTHY E. JOHNS
Chairperson

Attachments
GROUND-WATER USE PERMIT
WUP NO. 535

PERMITTEE

Permittee/Water User
THE ESTATE OF JAMES CAMPBELL
1001 KAMOKILA BLVD.
KAPOLEI, HI 96707

Landowner of Source
Address SAME

PERMITTED SOURCE INFORMATION

Island
OAHU

Water Management Area
EWA-KUNIA

Aquifer Sector
PEARL HARBOR

Aquifer System
EWA-KUNIA

System Sustainable Yield
20 mgd

Well Name
EP 10

State Well No.
2006-01 TO 11

PERMITTED USE INFORMATION

Reasonable beneficial use
AGRICULTURE (based on 330 ACRES)

Withdrawal (12 month moving ave.)
0.957 mgd

Location of water use

TMK #
9-1-VARIOUS

Address
EWA, OAHU

State land use classification
AGRICULTURE

County zoning classification
AG-1

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
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   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
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4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

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   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
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6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

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   c. Insure adequate conservation measures;
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   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
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Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.
13. A permit may be transferred, in whole or in part, from the permittee to another, if:
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   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kuialina Ground-Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years of the filing of the application.

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__________________________
TIMOTHY E. JOHNS, 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 and understand that I do not hold a valid permit until I have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the date of this permit approval.

Permittee's Signature: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

January 26, 2000
Honolulu, Oahu

The Estate of James Campbell

REVOCATION/MODIFICATION OF WATER USE PERMITS

EP 3,4 (Well Nos. 2102-02, 04 to 22; WUP No. 122)
EP 5,6 (Well Nos. 2202-03 to 14; WUP No. 123)
EP 7,8 (Well Nos. 2202-15 to 20; WUP No. 124)
EP 10 (Well Nos. 2006-01 to 11; WUP No. 121)

Waipahu-Waiawa and Ewa-Kunia Ground Water Management Areas, Oahu

PERMITTEE: The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

LANDOWNER: Same

LOCATION MAP: See Exhibits land 1A

BACKGROUND:

On April 11, 1980, the Board of Land and Natural Resources certified Oahu Sugar Company’s (OSCO) existing water withdrawals and uses for the subject wells, subject to the provisions of applicable laws, rules and regulations.

On January 16, 1992, the Commission on Water Resource Management (Commission) approved adjustments to these and other water use permits in the Pearl Harbor Sector. The adjustments provided for a 5-year reallocation plan which incorporated the conversion of sugar cane cultivation to urban development as well as the estimated OSCO optimum basal ground-water demand.

On December 26, 1994, the water use permits for these sources were effectively transferred from OSCO to The Estate of James Campbell (Campbell).

On December 6, 1995, the Commission revoked 2.792 mgd for the water use permit for EP 5,6 (Well Nos. 2202-03 to 14) due to four (4) years of continuous non-use.

Item 5
On October 22, 1997, the Commission deferred action on Campbell's application to modify the water use permit for EP 7,8 to allow for golf course usage at Ewa Villages pending a decision on the possible modification of the Waipahu-Waiawa sustainable yield.

On July 15, 1998, the Commission deferred action on Campbell's application to modify the water use permit for EP 10 to allow for industrial use by Chevron pending a decision on the possible modification of the Ewa-Kunia sustainable yield.

Table 1 provides a summary of the current permitted uses for the subject wells:

<table>
<thead>
<tr>
<th>WUP No.</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Quantity, mgd</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>122</td>
<td>EP 3,4</td>
<td>2102-02, 04 to 22</td>
<td>3.304</td>
<td>Agriculture</td>
</tr>
<tr>
<td>123</td>
<td>EP 5,6</td>
<td>2202-03 to 14</td>
<td>5.208</td>
<td>Agriculture</td>
</tr>
<tr>
<td>124</td>
<td>EP 7,8</td>
<td>2202-15 to 20</td>
<td>6.113</td>
<td>Agriculture; domestic</td>
</tr>
<tr>
<td>121</td>
<td>EP 10</td>
<td>2006-01 to 11</td>
<td>5.010</td>
<td>Agriculture</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>19.635</td>
<td></td>
</tr>
</tbody>
</table>

In a letter dated July 30, 1999, Campbell outlined their current uses, as well as planned and anticipated uses, for the Commission's consideration (Exhibit 2).

On October 4, 1999, Campbell submitted additional information in support of their diversified agricultural water demand estimates.

ANALYSIS/ISSUES:

Table 2 summarizes the current allocations, current uses (12-month moving average withdrawal; 12-MAV), planned additional uses (refer to Exhibit 2 for additional details), quantities that may be revoked due to four (4) years continuous nonuse, and the staff's recommended allocation:

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Permit Use</th>
<th>MV Water</th>
<th>Actual Use</th>
<th>MV Allocation</th>
<th>Recom. Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waipahu-Waiawa Wells</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP 3,4</td>
<td>3.304</td>
<td>0.110</td>
<td>2.729</td>
<td>1.400</td>
<td>1.510</td>
</tr>
<tr>
<td>EP 5,6</td>
<td>5.208</td>
<td>1.810</td>
<td>3.267</td>
<td>2.900</td>
<td>4.710</td>
</tr>
<tr>
<td>EP 7,8</td>
<td>6.113</td>
<td>0.750</td>
<td>3.122</td>
<td>3.280</td>
<td>4.030</td>
</tr>
<tr>
<td>Ewa-Kunia Well</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP 10</td>
<td>5.010</td>
<td>0.010</td>
<td>2.152</td>
<td>3.450</td>
<td>3.460</td>
</tr>
<tr>
<td>Total</td>
<td>19.635</td>
<td>2.680</td>
<td>11.270</td>
<td>11.030</td>
<td>13.710</td>
</tr>
</tbody>
</table>

1 As of August, 1999
2 Revocable amount as of May, 1999.
WAIPAHU-WAIAWA SOURCES

Water Availability

In a separate item on this agenda, staff is proposing that the Commission reduce the sustainable yield for the Waipahu-Waiawa Aquifer System from 119 mgd to 104 mgd using a milestone approach (Exhibit 5). With current allocations in the aquifer system at 98.513 mgd, this proposed revocation action would bring the total allocations to 89.412 mgd, still in excess of the proposed 82 mgd allocation milestone. The staff is reviewing other allocations for possible revocation due to four years of nonuse.

Agricultural Use(s)

Campbell is requesting that the Waipahu-Waiawa wells (EP 3,4,5,6,7,&8) be considered a battery under a single agricultural water use permit. Water pumped from these sources converge at Station 18 (a.k.a. EP 18), where the water is redistributed to multiple locations (see Exhibit 2). Maps contained in Exhibit 2 show the locations where the pumped water is applied. This setup allows the sources to back up each other when pumps go down, and 0.140 mgd of the planned additional uses are attributed to backup needs (that would be unnecessary if the sources are permitted under a single allocation).

Declaratory Ruling No. DEC-ADM97-A1 provides for administrative approval of water use permit modifications for allocation adjustments that meet the following criteria:

1. The net change in permitted use within an aquifer is zero.
2. The modification would result in more efficient and optimal operation of multiple sources under a single operator.
3. No adverse impacts to water resources or other existing legal uses are anticipated.
4. End use location and type remain unchanged.

The staff finds that Campbell’s request to modify its Waipahu-Waiawa wells (EP 3,4,5,6,7,&8) meets the above criteria. However, since revocation is part of this modification, this needs Commission approval.

The requested allocation for the battery is based on a duty of 3,500 gpd/acre for diversified agriculture on 2,334 acres (1347 acres served by EP 5,6; 587 acres served by EP 3,4; 400 acres west of North-South Road) plus 1.20 mgd potential use at the Navy blast zone (currently served by EP 23; see Exhibit 2). According to Campbell, all these areas are part of the existing agricultural use “footprint” (i.e., in existence at the time of the water management area designation).

An issue is the requested duty of 3,500 gpd/acre. Table 4-4, Oahu Water Requirements Forecast for Selected Crops (1992 Draft Oahu Water Management Plan) indicates that crop requirements range from 905 gpd/ac (for sweet corn) to 40,000 gpd/ac (for pumpkin), with an average requirement for 7,784 gpd/ac. In the Laie Contested Case Hearing, 3,500 gpd/ac was found to be reasonable for diversified agriculture in the Laie area. In the Waiahole Ditch Contested Case Hearing, which concerned agricultural lands immediately mauka across the H1 freeway, 2,500 gpd/ac was found to be a reasonable quantity for diversified agriculture. However, the Hydrology Technical Advisory Committee and the Engineering/Agriculture Technical Advisory Committee, established through the Waiahole Ditch Contested Case Decision and Order, has issued a preliminary assessment of present agricultural activities and plans related to the Waiahole Ditch System. The report notes:
"[b]ecause of the rainfall and soil gradients across central Oahu, the initial estimate of irrigation requirement may be inappropriate for land other than where the data was gathered. Across central Oahu, mean annual rainfall ranges from 569 to 4619 mm, while the soil has estimated available water capacities ranging from 0.09 to 0.16 cm. Using the initial irrigation may be useful, but may be inappropriate if yield is expected to be the same when the same irrigation is applied to other crop areas. The difference is anticipated because the current method assumes that the soil and climate over central Oahu is homogenous, that is, an average value of rain and soil adequately describes a heterogeneous environment to prescribe an irrigation regime."

Because the Commission used 2,500 gpd/ac in their Decision and Order for the Waiahole Ditch water, which concerns agricultural lands adjacent (mauka) to these Ewa agricultural lands, Campbell has presented the following information to support their request for a 3,500 gpd/ac duty (Exhibit 3):

- Higher pan evaporation in the Ewa Area – Pan evaporation data show that lands below the H1 Freeway experience 16% higher pan evaporation rates.
- Measured increases in pan evaporation over time – Pan evaporation data from Kunia Station (740.4) show a 13% increase in evaporation over the last 30 years. This increase is attributed to increased urbanization of former sugarcane lands.
- Higher salinity of pumped groundwater – Pumped groundwater has a higher salt content than the Waiahole Ditch water; this will require periodic leaching and generally more water will be required.
- More sunlight and less rainfall in Ewa more conducive to multiple cropping – More favorable winter weather (i.e., higher sunlight) in Ewa is more conducive to multiple cropping. Also, the Ewa region has a lower rainfall compared to more mauka regions.

The staff finds that the higher evaporation rates observed in the Ewa area, provide adequate justification to support a 16% increase in irrigation water for Ewa agricultural lands below the H1 Freeway. This would increase the diversified agriculture duty from the 2,500 gpd/ac allocated for Waiahole Ditch water to 2,900 gpd/ac. The second point above should already have been incorporated in the Waiahole Ditch water decision and therefore does not support a relatively higher irrigation requirement for Ewa agricultural lands. The last two points may be valid but have not been quantified.

In summary, the staff is recommending that the Commission permit EP 3,4,5,6,7&8 as a battery under a single agricultural use permit for 7,969 mgd based on 2334 acres at 2,900 gpd/ac (6.769 mgd) plus 1,200 mgd for agricultural uses at the Navy blast zone. (The staff is currently working with the Navy to adjust their permitted use for EP 23 (Well No. 2001-01) because there is agreement between the staff and Navy hydrogeologists that the current 5.890 mgd allocation for EP 23 for the blast zone area cannot be accommodated within the 1,000 mg/l chloride cap since sugarcane return irrigation recharge has diminished.) Federal funds have recently been allocated for infrastructure to transport water from Station 18 to the blast zone area.
The staff recognizes that the transition from sugarcane monoculture to diversified agriculture is not immediate, and Campbell is requesting additional time to complete this transition. However, because only 2.680 mgd of the total allocations for these sources are currently being used (whereas 11.270 mgd may be revoked at this time due to four years of nonuse), the staff is recommending that the Commission attach a special condition to the proposed permit to allow for a review in two (2) years for possible additional revocation due to nonuse.

Non-Agricultural Use(s)

There are no longer any current or planned domestic uses of EP 7,8. The current use of EP 7,8 (0.750 mgd 12-MAV) is for the Ewa Villages Golf Course, which is proceeding unauthorized by the Commission. Campbell has filed an application to modify the water use permit for EP 7,8 to allow for golf course usage at Ewa Villages. This application was deferred on October 22, 1997 until a decision is made on the possible modification of the Waipahu-Waiawa sustainable yield estimate in the Water Resources Protection Plan. The staff recommends that this unauthorized quantity of use be revoked from the existing agricultural use permit at this time. The application to allow water to be used for the golf course may be submitted to the Commission as a new use application once the Commission has made a decision regarding the Waipahu-Waiawa sustainable yield. This will preclude the need for a second revocation submittal should the Commission deny Campbell’s request for the golf course usage, and it should not prejudice Campbell because the criteria for modifying a water use permit are identical to the criteria for permitting a new use.

An obvious issue is the potential violation of §174C-57 Haw. Rev. Stat. (Modification of Permit Terms) for the change in use from agriculture to golf course irrigation without Commission approval. This potential violation issue will be fully addressed at the time that the water use permit application for the new golf course use is submitted for action (following the establishment of a new sustainable yield for the Waipahu-Waiawa Aquifer System) and that these proposed revocations should proceed at this time.

EWA-KUNIA SOURCE

In a separate item on this agenda, staff is proposing that the Commission reduce the sustainable yield for the Ewa-Kunia Aquifer System from 20 mgd to 16 mgd using a milestone approach (Exhibit 5). With current allocations in the aquifer system at 18.391 mgd, this proposed revocation action would bring the total allocations to 14.536 mgd, below the proposed 16 mgd allocation milestone.

Agricultural Use(s)

Current and planned agricultural use for EP 10 is for 330 acres within the existing use “footprint”. Using an irrigation requirement of 2,900 gpd/ac, a reasonable allocation for the 330 acres appears to be 0.957 mgd. Similar to the recommendation for new non-agricultural uses for the Waipahu-Waiawa sources, the staff is recommending that the Commission revoke all but the proposed 0.957 mgd agricultural use.

Non-Agricultural Use(s)

Campbell has filed an application to modify the water use permit for EP 10 to allow for industrial use by Chevron. This application was deferred on July 15, 1998 until a decision is made on the possible modification of the Ewa-Kunia sustainable yield estimate in the Water Resources Protection Plan. The staff recommends that this quantity of use be revoked from the existing
agricultural use permit at this time. The application to allow industrial use of the water by Chevron will be submitted to the Commission as a new use application once the Commission has made a decision regarding the Ewa-Kunia sustainable yield. This will preclude the need for a second revocation submittal should the Commission deny Campbell's request for the change in use, and it should not prejudice Campbell because the criteria for modifying a water use permit are identical to the criteria for permitting a new use. Similarly, proposed uses for Grace Pacific stockpile operation and for the Ko Olina Golf Course, which have not yet been applied for, will be processed as a proposed new use upon application by Campbell.

RECOMMENDATION:

Staff recommends that the Commission:

1. Revoke WUP Nos. 122 (for EP 3,4), 123 (for EP 5,6), and 124 (for EP 7,8).
2. Approve the issuance of a permanent water use permit (WUP No. 534) to The Estate of James Campbell for the reasonable and beneficial use of 7.969 mgd of ground water from the Waipahu-Waiau Aquifer System for agricultural uses at locations shown in Exhibit 2 from EP 3,4 (Well Nos. 2102-02, 04 to 22), EP 5,6 (Well Nos. 2202-03 to 14), and EP 7,8 (Well Nos. 2202-15 to 20), subject to the standard water use permit conditions listed in Attachment A and the following special conditions:
   a) Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.
   b) In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.
   c) Standard Condition 18 for interim permits shall not apply.
   d) This water use permit, WUP No. 534, shall supersede WUP Nos. 122 to 124.
   e) The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.
4. Approve the issuance of a permanent water use permit (WUP No. 535) to The Estate of James Campbell for the reasonable and beneficial use of 0.957 mgd of ground water from the Ewa-Kunia Aquifer System for agricultural uses at locations shown in Exhibit 2 from EP 10 (Well Nos. 2006-01 to 11), subject to the standard water use permit conditions listed in Attachment B and the following special conditions:
   a) Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.
   b) In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.
c) Standard Condition 18 for interim permits shall not apply.

d) This water use permit, WUP No. 535, shall supersede WUP No. 121.

e) The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

5. Reclassify the pending application for EP 7,8 (WUPA No. 459) as an after-the-fact application for a new water use permit (as opposed to an application to modify WUP No. 124). To avoid fines and enforcement action, the permittee should provide evidence to support an emergency situation that resulted in unpermitted water use.

6. Reclassify the pending application for EP 10 (WUPA No. 493) as an application for a new water use permit (as opposed to an application to modify WUP No. 121).

Respectfully submitted,

LINNEL T. NISHIOKA
Deputy Director

Attachment(s): A  (Standard Water Use Permit Conditions for WUP No. 534)
B  (Standard Water Use Permit Conditions for WUP No. 535)

Exhibit(s):  1&1A  (Location Map)
2  (July 30, 1999 Letter from Donna B. Goth to Linnel T. Nishioka)
3  (October 1, 1999 Letter from Donna B. Goth to Linnel T. Nishioka)
4  (Graph of 12-Month Moving Average Withdrawal)
5  (Proposed Sustainable Yields)
STANDARD WATER USE PERMIT CONDITIONS

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground water use here must not interfere with surface or other ground water rights or reservations.

5. The ground water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;

ATTACHMENT A
f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
g. carry out such other necessary and proper exercise of the State's and the
Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the
permittee and provide the permittee an opportunity to be heard.

10. If the ground water source does not presently exist, the new well shall be completed, i.e. able
to withdraw water for the proposed use on a regular basis, within twenty-four (24) months
from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly
record of withdrawals, salinity, temperature, and pumping times must be kept and reported
to the Commission on Water Resource Management on forms provided by the Commission
on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Waipahu-Waiawa
Aquifer System's sustainable yield. The amount of water authorized by this permit may be
reduced by the Commission if the sustainable yield of the Waipahu-Waiawa Aquifer System,
or relevant modified aquifer(s), is reduced.

13. A permit may be transferred, in whole or in part, from the permittee to another, if:

a. The conditions of use of the permit, including, but not limited to, place, quantity,
and purpose of the use, remain the same; and
b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a
ground for revocation of the permit. A transfer which involves a change in any condition of
the permit, including a change in use covered in HRS § 174C-57, is also invalid and
constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all
applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for
reasons other than conservation, of the water allowed by this permit for a period of four (4)
continuous years or more may result in a permanent revocation as to the amount of water not
in use. The Commission and the permittee may enter into a written agreement that, for
reasons satisfactory to the Commission, any period of nonuse may not apply towards the
four-year period. Any period of nonuse which is caused by a declaration of water shortage
pursuant to section HRS § 174C-62 shall not apply towards the four-year period of
forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance
of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall
identify what the permittee is willing to do should the Commission declare a water shortage
in the Waipahu-Waiawa Ground Water Management Area.

ATTACHMENT A
18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

20. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.
STANDARD WATER USE PERMIT CONDITIONS

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground water use here must not interfere with surface or other ground water rights or reservations.

5. The ground water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   c. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   d. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;

ATTACHMENT B
f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
g. carry out such other necessary and proper exercise of the State's and the
Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the
permittee and provide the permittee an opportunity to be heard.

10. If the ground water source does not presently exist, the new well shall be completed, i.e. able
to withdraw water for the proposed use on a regular basis, within twenty-four (24) months
from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly
record of withdrawals, salinity, temperature, and pumping times must be kept and reported
to the Commission on Water Resource Management on forms provided by the Commission
on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer
System's sustainable yield. The amount of water authorized by this permit may be reduced
by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant
modified aquifer(s), is reduced.

13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity,
      and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a
ground for revocation of the permit. A transfer which involves a change in any condition of
the permit, including a change in use covered in HRS § 174C-57, is also invalid and
constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all
applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for
reasons other than conservation, of the water allowed by this permit for a period of four (4)
continuous years or more may result in a permanent revocation as to the amount of water not
in use. The Commission and the permittee may enter into a written agreement that, for
reasons satisfactory to the Commission, any period of nonuse may not apply towards the
four-year period. Any period of nonuse which is caused by a declaration of water shortage
pursuant to section HRS § 174C-62 shall not apply towards the four-year period of
forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance
of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall
identify what the permittee is willing to do should the Commission declare a water shortage
in the Ewa-Kunia Ground Water Management Area.
18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

20. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.
HAND DELIVERED

Ms. Linnell Nishioka
Deputy Director
Division of Water Resource Management
Department of Land & Natural Resources
1151 Punchbowl Street, Room 227
Honolulu, HI 96813

Dear Ms. Nishioka:

Subject: Current and Anticipated Uses for The Estate of James Campbell Ewa Wells

EP-10 (2006-1 to 11) and EP-15/16 (2202-21)

The purpose of this letter is to fulfill your request for information regarding current and anticipated non-domestic uses from the above mentioned wells owned by The Estate of James Campbell (the "Estate"). Your staff has been most kind to inform us of the process now taking place regarding the revocation or partial revocation from certain wells due to periods of non-use. We hope this information will facilitate the development of your recommendations to the Water Commission.

General

The Estate has invested significant amounts of capital in upgrading the above mentioned facilities in order to lease out its agricultural land makai of the H-1 Freeway. Our tenants have also invested significantly in the upgrade of existing infrastructure as well as building state of the art packing facilities. Over the past four years, we have been able to lease out all arable acres in this area to several tenants who have begun the process of fully utilizing this land. In addition, the State of Hawaii has finalized several arrangements with some of these same tenants to utilize State land in the area for farming which is solely dependent on water from the sources discussed in this letter. Additional State land formerly in sugar cultivation in this area may also be used for agriculture.

The information contained herein addresses not only the 12-month moving averages ("12 mav") for these systems and where the water is utilized, but also addresses increasing demands on existing systems, current plans in progress for upgrading the system as well as other planned and potential uses. We hope that you will give careful consideration to our planned and anticipated uses as well as our current uses as you formulate your recommendations for partial revocations.
The following discussion of each facility is summarized in Table 1 (see attached).

Station 18

The attached maps indicate the location of Station 18. This facility is not a well location but is a critical location to conceptually understand our irrigation network in context of the individual pumps mentioned later in this letter. As originally conceived by Oahu Sugar, this is a location where waters from EP5, EP3, EP8 and EP15 converge and can be redistributed to multiple locations. The redesign of this station has taken advantage of and generally preserved this design concept. Station 18 does not provide complete fungibility of water use from the primary pumps but allows, through various valving scenarios, primary areas of service for each pump and backup areas of service. Attachment 1 is a schematic diagram of the current system layout, which is revised from time to time, to take advantage of additional operating scenarios.

We request serious consideration be given toward combining EP5, EP3, and EP8 as a single well field with a single allocation for agricultural uses.

Ewa Pump 5 (Wells 2202-3 to 14)

This facility has 3,500 gpm of installed capacity and is the primary irrigation source for about 1,347 acres of diversified agricultural land as indicated on Map 1 (see attached). The current 12 maf is 1.81 mgd. An additional 0.22 mgd (12 maf) also services this area from EP15.

We have designed this area for a demand of 3,500 gallons per acre per day ("gpad") resulting in a total demand of 4.71 mgd.

The current 12 maf for EP5 is about 1.81 mgd. We have seen an increase of intensity of use of the water from this system as the farmers use more of the land more intensively. We expect this increase to continue over the next three to four years leveling off near the 4.71 mgd.

Map 2 shows the agricultural lands where EP5 serves as a backup to other pumps. No demand has been attributed to EP5 for this purpose.
Ewa Pump 3 (Wells 2102-2 to 22)

The current capacity of the pumping unit at EP3 is about 1,050 gpm (1.51 mgd). This facility is the primary source for about 587 acres of diversified agricultural land as shown on Map 1. The demand in this area is calculated also at 3,500 gpd for a total demand expected at 2.04 mgd. (These 587 acres are supplemented by flows from EP8, see discussion below.)

The agricultural lands served include 404 acres owned by the State of Hawaii and currently farmed by Aloun Farm, Inc. ("Aloun"). The remaining 183 acres is owned by the Estate and is also utilized by Aloun. Aloun has just recently begun the process of bringing this area into cultivation. This facility has a small 12 maf at 0.11 mgd because water use is just beginning in this area. In May of this year, usage of the facility was at about 0.56 mgd. It is expected that it may take three to five years to fully bring this area into full production.

Map 2 shows the area where EP3 serves as a backup to other pumps. No water usage has been attributed in Table 1 for this backup purpose for EP3. Map 3 shows where EP3 (as well as EP8) will be able to backup EP5 once anticipated booster modifications are made to Station 18.

Ewa Pump 8 (Wells 2202-15 to 20)

The installed capacity at EP8 is about 2,300 gpm. The facility currently has three functions. The first is the delivery of water to a reservoir at the Ewa Villages Golf Course; the second is the supplemental delivery of water to the EP3 primary use area; and the third is as a backup water source for the EP5 primary service area.

The current 12 maf for EP8 is 0.75 mgd. The majority of the water use during this period was providing water to the Ewa Villages Golf Course reservoir. Within the next year or two, it is expected that the Ewa Villages Golf Course will convert to the use of R1 treated water from the Honouliuli Sewage Treatment Plant.

EP8 has and will serve as a critical backup to EP5 during times when EP5 is partially or totally out of service. Table 1 reflects an estimate of back up service to the EP5 area at about 3% of the time for an average of 0.14 mgd. Table 1 also reflects the critical supplemental flows anticipated to be provided by EP8 to the EP3 primary area to meet the eventual demand of 3,500 gpd. This supplemental flow is calculated to be 0.54 mgd.

Table 1 reflects a potential use of EP8 water for the Navy’s West Loch lands comprising some 1,044 acres. The land is currently partially served by the Navy well on site (EP23,
Well 2001-01). Indications are that approximately 1.2 mgd of additional fresh water is needed at the site to supplement the Navy well for the full utilization of the property for diversified agricultural purposes. We have conducted preliminary engineering investigations and have identified EP8 as the likely candidate for service into this Navy area. This area was served by all wells mentioned earlier and a pipeline still exists to the area.

Table 1 also shows a potential use of about 1.4 mgd for 400 acres of State owned land situated west of the proposed North/South Road alignment. This demand amount was calculated at 3,500 gpm. One of our tenants is currently working with the State to utilize this area.

**Ewa Pump 15 (Well 2202-21)**

The Estate is reviewing converting this facility to potable use.

**Ewa Pump 10 (Wells 2006-1 to 11)**

The current installed pumping capacity at the EP10 pumping facility is 2,400 gpm (3.43 mgd) consisting of three 800 gpm submersible pumps. This facility is the primary source of irrigation water for 330 acres of arable land shown on Map 5. The Estate has recently entered into an agreement with Aloun to cultivate these areas. The soil in this area is of poorer quality generally consisting of stony ground, coral outcrops and soil mix. It is expected that the tenant in this area will take five to seven years to fully develop the land. The demand calculated for this usage at 3,500 gpd is 1.16 mgd.

Table 1 also reflects three additional planned and potential uses of water from this facility. The first item is a potential use by Chevron Products Company ("Chevron") of 1.44 mgd for use at its refinery to replace potable Board of Water Supply use. This is the subject of a current petition before you at this time. The second potential use involves the use by Grace Pacific Corp. ("Grace Pacific") of about 0.10 mgd for washing manufactured sand at its coral stockpile operation near Barbers Point Harbor. This potential use would require approval from the Commission.

The third planned use is for the second Ko Olina golf course. There is currently a pending application by Ko Olina for 1.636 mgd which includes this second golf course which can be easily and economically served by EP10. Table 1 reflects 0.75 mgd for this second golf course.
For your convenience, we have also added Table 2 together with tax maps indicating where the water is used by parcel.

Crops

The Water Commission staff has asked us to report on the crops produced from the lands served by these wells. Part of the new paradigm for agriculture is, of course, the change from monoculture to "multiculture" in certain areas such as the areas served by the wells mentioned here. Additionally, the farmers do not assign a particular crop to a particular field. A particular field or plot of land sees a moveable feast of crops driven by the farmers' anticipation of market needs.

Also, not all lands remain in cultivation at all times. Fields are generally fallow for some period after a particular crop has been harvested. The fallowing is for the purpose of insect and weed control but also, again, may be driven by market and other factors. The list below shows the crops that are growing or have been grown on the lands mentioned above:

<table>
<thead>
<tr>
<th>American Parsley</th>
<th>Corn</th>
<th>Korean Daikon</th>
<th>Red Leaf Lettuce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaheim Chiles</td>
<td>Green Jalepeno Peppers</td>
<td>Korean Melons</td>
<td>Romaine Lettuce</td>
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<td>Bell Peppers</td>
<td>Green Leaf Lettuce</td>
<td>Lemon Grass</td>
<td>Seed Corn</td>
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<td>Bitter Melon</td>
<td>Green Onions</td>
<td>Limes</td>
<td>Sweet Onions</td>
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<td>Bush &quot;String&quot; Beans</td>
<td>Head Lettuce</td>
<td>Long Beans</td>
<td>Tomatoes</td>
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<tr>
<td>Butter Lettuce</td>
<td>Honeydew Melon</td>
<td>Long Eggplant</td>
<td>Watermelon</td>
</tr>
<tr>
<td>Cantaloupe</td>
<td>Italian Parsley</td>
<td>Long Squash</td>
<td>Won Bok</td>
</tr>
<tr>
<td>Chinese Daikon</td>
<td>Kai Choy</td>
<td>Mizuna</td>
<td>Yellow Jalepeno</td>
</tr>
<tr>
<td>Chinese Parsley</td>
<td>Kabocha Pumpkin</td>
<td>Oranges</td>
<td>Peppers</td>
</tr>
<tr>
<td>Choi Sum</td>
<td></td>
<td>Papaya</td>
<td>Zucchini</td>
</tr>
</tbody>
</table>

The farmers on these lands also report to us that other crops are under consideration.
Ms. Linnell Nishioka  
July 30, 1999  
Page 6

Thank you for this opportunity to provide information on our wells and lands in this area. If you have any questions please call George Hiu (674-3289) or Bert Hatton (674-3232).

Very truly yours,

Donna B. Goth  
Director, Hawaii Properties

cc: Bert Hatton (w/encl.)  
    George Hiu (w/encl.)

Enclosures (as listed below)

Table 1 Summary of Existing, Planned and Potential Uses  
Attachment 1 Schematic of Station 18  
Map 1  
Map 2  
Map 3  
Map 4  
Map 5  
Table 2  
Tax Map 9-1-18  
Tax Map 9-1-17  
Tax Map 9-1-16  
Tax Map 9-1-10  
Tax Map 9-1-14  
Tax Map 9-1-15

jck:01036400\K10060

EXHIBIT 2
### TABLE 1

**ESTATE OF JAMES CAMPBELL**

**EWA PUMPS EXISTING AND ANTICIPATED NON-DOMESTIC USAGE**

<table>
<thead>
<tr>
<th>Pump</th>
<th>Well Number</th>
<th>Current Allocation MGD</th>
<th>Approximate Current 12 NAV MGD</th>
<th>Planned and Potential Add'l Uses MGD</th>
<th>Total Estimated Demand MGD</th>
<th>Notes</th>
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<td>EP-5/6</td>
<td>2202-3 to 14</td>
<td>5.208</td>
<td>1.81</td>
<td>0.22</td>
<td>2.68</td>
<td>4.71</td>
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<td>EP-3/4</td>
<td>2102-2 to 22</td>
<td>3.304</td>
<td>0.11</td>
<td>1.40</td>
<td>1.51</td>
<td>estimated additional demand on about 587 acres based on 3500 gpd (see EP8 below for supplemental flows to this area)</td>
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<td>EP-7/8</td>
<td>2202-15 to 20</td>
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<td>0.75</td>
<td>0.14</td>
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<td>4.03</td>
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<td>EP-9</td>
<td>2006-1 to 11</td>
<td>5.01</td>
<td>0.01</td>
<td>1.16</td>
<td>1.44</td>
<td>New Aloun Farm lease on 330 acres @ 3500 gpm water to Chevron to replace BWS water potential use to Grace stockpile operation planned second Ko Olina Golf Course</td>
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<td><strong>TOTAL</strong></td>
<td><strong>19.64</strong></td>
<td><strong>2.89</strong></td>
<td><strong>11.03</strong></td>
<td><strong>13.71</strong></td>
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TABLE 2

ESTATE OF JAMES CAMPBELL
WATER USE BY WELLS AND TAX MAP KEY

P = primary
S = supplemental
B = backup
I = in progress, application pending, planned or potential use

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</table>

* Gross area is area of parcel except where noted as a portion.
Arable acres are used in all agricultural demand calculations.
Ms. Linell Nishioka  
Deputy Director  
Commission on Water Resource Management  
State of Hawaii  
P. O. Box 621  
Honolulu, HI 96809  

Dear Linell:

Ewa Pump (“EP”) 3/4 (2102-02, 2102-04 to 22), EP 5/6 (2202-03 to 14),  

Thank you for the opportunity to provide further information regarding diversified agriculture demands for water in the Ewa Plain area. As we understand, the standard on which diversified agricultural water needs in the Ewa Plain area are being compared is the diversified agricultural usage rate in the Waiahole decision.

The Waiahole decision used 2,500 gallons per acre per day (“GPAD”) and characterized this number as “conservative”, and “nearer the lower range of estimates”. As you know from our previous correspondence, we have used 3,500 gpad.

We believe 3,500 gpad is justifiable for the lower Ewa area. To show why the higher usage rate is warranted, we have retained Hawaii Agriculture Research Center (“HARC”) to analyze differences between the lands served by Waiahole water and the lands served by the Ewa pumps. Their analysis is attached. Their quantification and discussion of the differences focuses on the following points:

- Higher pan evaporation in the Ewa area
- Measured changes over time in pan evaporation
- Higher salinity in the pump water
- More sunlight and less rainfall in Ewa more conducive to multiple cropping

We hope that you will consider the information in the HARC analysis in the preparation of your recommendations.

If you have any questions, please call Bert Hatton at 674-3232.

Very truly yours,

[Signature]

Donna B. Goth  
Director, Hawaii Properties

Attachment  
job:01036400X10061

EXHIBIT 3

1001 Kamehameha Boulevard, Kapolei, Hawaii 96707  Phone (808) 674-6674  Fax (808) 674-3111  Website: www.kapolei.com
Analysis of the Agricultural Water Requirement for Ewa

Prepared by

Robert V. Osgood, Ph.D. and Frederick C. Meinzer, Ph.D.

Hawaii Agriculture Research Center (HARC)

September 23, 1999
Justification for a Higher Water Allocation for Agricultural Lands in Ewa Irrigated by Wells Compared to Lands Irrigated by the Waiahole Ditch

1. Pan evaporation is a measure of potential evapotranspiration (ET). Historical and current pan evaporation data have been used to predict crop water requirement. Based on published figures (Pan Evaporation State of Hawaii, Department of Land and Natural Resources, August 1985), potential evaporation from the Ewa land is greater than that for land served by the Waiahole Ditch. To compare the potential ET among sites, data from pan evaporation stations were sorted based on latitude (Table 1 and Fig 1). Those stations above 21°23' 18" are above the H1 Freeway and represent lands on Waiahole water, while those fields below this latitude represent Ewa fields. A plot was also made using elevation in place of latitude with the same outcome. The Waiahole sites had an average annual pan evaporation of 72.2 inches compared to 85.6 inches in the Ewa sites. Thus, a 16 percent greater allocation of water should be given to the Ewa sites based on elevated pan evaporation alone.

2. Based on the Hawaii Agriculture Research Center (HARC) evaporation pan at Kunia (740.4), which has been read since 1962, there was a dramatic increase in pan evaporation following the reduction and subsequent complete elimination of sugarcane as a crop in the region and the increased urbanization in the immediate up-wind fetch (Fig 2). Urbanization is a factor because there is increased paving and roofing and air conditioning, all of which contribute to higher temperature. It is likely that potential evaporation has increased throughout Ewa and Kunia as a result of less land in crops and increased urbanization. As a result, crops grown in these regions will require more water than originally calculated based on the historical pan data. Based on the HARC Kunia data, evaporation has increased by about 13 percent over the last 30 years. These data support a higher allocation of water for both the Ewa and Waiahole Ditch-served lands.

3. The Ewa pump water has a higher salt content than the Waiahole water and this will require periodic leaching rounds and generally more water will be required. Good drainage is also a requirement. Without drainage, the application of additional water will be detrimental to crop production. Additional allocation will be needed for the leaching rounds under well-drained conditions.

4. More favorable weather in Ewa in the winter months is more conducive to multiple cropping, thus increasing the potential for higher water use. Pioneer Hi-Bred Seed, Garst and other seed companies are expanding operations on Oahu. It is expected that much of the new acreage will be in the Ewa region owing to good winter growing conditions, thus increasing the likelihood of multiple cropping and greater water use.

5. The Ewa region has a lower rainfall compared to Kunia, implying a higher allocation of water for compensation. Lower rainfall in Ewa and therefore higher sunlight also make the region more desirable for crop production during the winter.
Table 1 Pan Evaporation Data for Ewa and Walahole Ditch Sites
Data sorted by latitude

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Location</th>
<th>Elevation</th>
<th>Evaporation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>latitude</td>
<td>feet</td>
<td>Inches</td>
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<tr>
<td>Walahole pan sites</td>
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<td>Average for Walahole</td>
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<td>Ewa pan sites</td>
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<td>Observatory</td>
<td>211900</td>
<td>5</td>
<td>94.7</td>
</tr>
<tr>
<td>702</td>
<td>USGS</td>
<td>211812</td>
<td>10</td>
<td>74.6</td>
</tr>
<tr>
<td></td>
<td>Average for Ewa</td>
<td></td>
<td></td>
<td>86.4</td>
</tr>
</tbody>
</table>
Fig 1. Comparison of Pan Evaporation in Ewa and Central Oahu (Waiahole Ditch Irrigated) Sites

EXHIBIT 3

<table>
<thead>
<tr>
<th>Evaporation (Inches)</th>
<th>100.0</th>
<th>90.0</th>
<th>80.0</th>
<th>70.0</th>
<th>60.0</th>
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</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>211500</td>
<td>212000</td>
<td>212500</td>
<td>213000</td>
<td></td>
</tr>
</tbody>
</table>

Ewa
Mean = 86.4 inches

Waiahole
Mean = 72.9 inches
Annual Pan Evaporation for HARC Kunia Substation (740.4) 1964-1998

Figure 2

EXHIBIT 3
Campbell Estate Monthly Withdrawal
EP 3,4,5,6,7,8 Combined

EXHIBIT 4

--- monthly pumpage --- 12-MAV --- WUP allocation
Recommendations

- Proposed Sustainable Yields (mgd) continued

<table>
<thead>
<tr>
<th>Aquifer System</th>
<th>Ewa–Kunia</th>
<th>Waipahu-Waiauwa</th>
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<tbody>
<tr>
<td>Present SY</td>
<td>20</td>
<td>119</td>
</tr>
<tr>
<td>Proposed SY</td>
<td>16</td>
<td>104</td>
</tr>
<tr>
<td>Proposed Allocation Milestone</td>
<td>16</td>
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<td>Current Ave. Pumpage</td>
<td>11</td>
<td>50</td>
</tr>
<tr>
<td>Reallocation/Pending WUP</td>
<td>13</td>
<td>59 (76)</td>
</tr>
</tbody>
</table>
Ms. Linell Nishioka  
Deputy Director  
Commission on Water Resource Management  
State of Hawaii  
P. O. Box 621  
Honolulu, HI 96809

Dear Linell:

Ewa Pump ("EP") 3/4 (2102-02, 2102-04 to 22), EP 5/6 (2202-03 to 14),  

Thank you for the opportunity to provide further information regarding diversified agriculture demands for water in the Ewa Plain area. As we understand, the standard on which diversified agricultural water needs in the Ewa Plain area are being compared is the diversified agricultural usage rate in the Waiahole decision.

The Waiahole decision used 2,500 gallons per acre per day ("GPAD") and characterized this number as "conservative", and "nearer the lower range of estimates". As you know from our previous correspondence, we have used 3,500 gpad.

We believe 3,500 gpad is justifiable for the lower Ewa area. To show why the higher usage rate is warranted, we have retained Hawaii Agriculture Research Center ("HARC") to analyze differences between the lands served by Waiahole water and the lands served by the Ewa pumps. Their analysis is attached. Their quantification and discussion of the differences focuses on the following points:

- Higher pan evaporation in the Ewa area
- Measured changes over time in pan evaporation
- Higher salinity in the pump water
- More sunlight and less rainfall in Ewa more conducive to multiple cropping

We hope that you will consider the information in the HARC analysis in the preparation of your recommendations.

If you have any questions, please call Bert Hatton at 674-3232.

Very truly yours,

[Signature]

Donna B. Goth  
Director, Hawaii Properties

Attachment

jek:01036400N10061
Analysis of the Agricultural Water Requirement for Ewa

Prepared by

Robert V. Osgood, Ph.D. and Frederick C. Meinzer, Ph.D.

Hawaii Agriculture Research Center (HARC)

September 23, 1999
Justification for a Higher Water Allocation for Agricultural Lands in Ewa
Irrigated by Wells Compared to Lands Irrigated by the Waiahole Ditch

1. Pan evaporation is a measure of potential evapotranspiration (ET). Historical and current pan evaporation data have been used to predict crop water requirement. Based on published figures (Pan Evaporation State of Hawaii, Department of Land and Natural Resources, August 1985), potential evaporation from the Ewa land is greater than that for land served by the Waiahole Ditch. To compare the potential ET among sites, data from pan evaporation stations were sorted based on latitude (Table 1 and Fig 1). Those stations above 21° 23' 18" are above the H1 Freeway and represent lands on Waiahole water, while those fields below this latitude represent Ewa fields. A plot was also made using elevation in place of latitude with the same outcome. The Waiahole sites had an average annual pan evaporation of 72.2 inches compared to 85.6 inches in the Ewa sites. Thus, a 16 percent greater allocation of water should be given to the Ewa sites based on elevated pan evaporation alone.

2. Based on the Hawaii Agriculture Research Center (HARC) evaporation pan at Kunia (740.4), which has been read since 1962, there was a dramatic increase in pan evaporation following the reduction and subsequent complete elimination of sugarcane as a crop in the region and the increased urbanization in the immediate up-wind fetch (Fig 2). Urbanization is a factor because there is increased paving and roofing and air conditioning, all of which contribute to higher temperature. It is likely that potential evaporation has increased throughout Ewa and Kunia as a result of less land in crops and increased urbanization. As a result, crops grown in these regions will require more water than originally calculated based on the historical pan data. Based on the HARC Kunia data, evaporation has increased by about 13 percent over the last 30 years. These data support a higher allocation of water for both the Ewa and Waiahole Ditch-served lands.

3. The Ewa pump water has a higher salt content than the Waiahole water and this will require periodic leaching rounds and generally more water will be required. Good drainage is also a requirement. Without drainage, the application of additional water will be detrimental to crop production. Additional allocation will be needed for the leaching rounds under well-drained conditions.

4. More favorable weather in Ewa in the winter months is more conducive to multiple cropping, thus increasing the potential for higher water use. Pioneer Hi-Bred Seed, Garst and other seed companies are expanding operations on Oahu. It is expected that much of the new acreage will be in the Ewa region owing to good winter growing conditions, thus increasing the likelihood of multiple cropping and greater water use.

5. The Ewa region has a lower rainfall compared to Kunia, implying a higher allocation of water for compensation. Lower rainfall in Ewa and therefore higher sunlight also make the region more desirable for crop production during the winter.
Table 1 Pan Evaporation Data for Ewa and Waahole Ditch Sites  
Data sorted by latitude

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Location</th>
<th>Elevation</th>
<th>Evaporation</th>
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<tr>
<td></td>
<td></td>
<td>latitude</td>
<td>feet</td>
<td>Inches</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walahole pan sites</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>820</td>
<td>PRI</td>
<td>212800</td>
<td>700</td>
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<td>815</td>
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<tr>
<td>826</td>
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<td>740.3</td>
<td>Fd 18</td>
<td>212318</td>
<td>150</td>
<td>80.1</td>
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Average for Waahole                                    |          |           |             |

Ewa pan sites                                           |          |           |             |
| 737    | Reservior 9      | 212236   | 210       | 84.5        |
| 732    | Reservior 6      | 212054   | 90        | 90.8        |
| 741    | Ewa Mill         | 212038   | 41        | 80.8        |
| 727    | Pump 10          | 212018   | 30        | 93.4        |
| 751    | Rock Pile        | 212000   | 25        | 86.1        |
| 702.2  | Observatory      | 211900   | 5         | 94.7        |
| 702    | USGS             | 211812   | 10        | 74.6        |

Average for Ewa                                        |          |           |             |

Average for Waahole                                    |          |           |             |

Average for Ewa                                        |          |           |             |
Fig 1. Comparison of Pan Evaporation in Ewa and Central Oahu (Waiahole Ditch Irrigated) Sites

Evaporation (Inches)

Latitude

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<td>80.0</td>
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<tr>
<td>213000</td>
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</tr>
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</table>

Waiahole Mean = 72.9 inches
Ewa Mean = 86.4 inches
Annual Pan Evaporation for HARC Kunia Substation (740.4) 1964-1998

Figure 2
TO: Mr. Eric Hirano  
Commission on Water Resource Management  
Department of Land & Natural Resources  
1151 Punchbowl Street, Room 227  
Honolulu, HI 96813

DATE: August 3, 1999

RE: Pumpage Data

☐ Overnight Courier  ☐ Mail  ☒ Hand Delivered  ☐ FAX

THE FOLLOWING IS/ARE TRANSMITTED HEREWITH:

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<tr>
<th>COPIES</th>
<th>DATE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>7/22/99</td>
<td>Pumpage Data</td>
</tr>
</tbody>
</table>

☐ For your information  ☐ Per our conversation  
☒ At your request  ☐ For correction  
☐ For recording/filing  ☐ For signature and return  
☐ For necessary action  ☐ For signature and forward as noted  
☐ For review and comment  ☐  
☐ Approved as noted

REMARKS: These are the pumpage data from Bert Hatton that you called me about this morning.

COPY:

By: George Hiu, Manager  
Planning and Engineering
EP 5/6 Allocation - 5.208 MGD

- 6,000,000
- 5,000,000
- 4,000,000
- 3,000,000
- 2,000,000
- 1,000,000

GPD
12 Mo Avg

Chart 2

EP 3/4 Allocation - 3.304 MGD

- GPD
- 12 Mo Avg
Chart 3

EP 7/8 Allocation - 6.113 MGD

- GPD
- 12 Mo Avg

Chart 4

EP 15/16 Allocation - 12.154 MGD

GPD
- 12 Mo Avg
Dear Ms. Nishioka:

Subject: Current and Anticipated Uses for The Estate of James Campbell Ewa Wells

The purpose of this letter is to fulfill your request for information regarding current and anticipated non-domestic uses from the above mentioned wells owned by The Estate of James Campbell (the “Estate”). Your staff has been most kind to inform us of the process now taking place regarding the revocation or partial revocation from certain wells due to periods of non-use. We hope this information will facilitate the development of your recommendations to the Water Commission.

General

The Estate has invested significant amounts of capital in upgrading the above mentioned facilities in order to lease out its agricultural land makai of the H-1 Freeway. Our tenants have also invested significantly in the upgrade of existing infrastructure as well as building state of the art packing facilities. Over the past four years, we have been able to lease out all arable acres in this area to several tenants who have begun the process of fully utilizing this land. In addition, the State of Hawaii has finalized several arrangements with some of these same tenants to utilize State land in the area for farming which is solely dependent on water from the sources discussed in this letter. Additional State land formerly in sugar cultivation in this area may also be used for agriculture.

The information contained herein addresses not only the 12-month moving averages (“12 mav”) for these systems and where the water is utilized, but also addresses increasing demands on existing systems, current plans in progress for upgrading the system as well as other planned and potential uses. We hope that you will give careful consideration to our planned and anticipated uses as well as our current uses as you formulate your recommendations for partial revocations.
The following discussion of each facility is summarized in Table 1 (see attached).

Station 18

The attached maps indicate the location of Station 18. This facility is not a well location but is a critical location to conceptually understand our irrigation network in context of the individual pumps mentioned later in this letter. As originally conceived by Oahu Sugar, this is a location where waters from EP5, EP3, EP8 and EP15 converge and can be redistributed to multiple locations. The redesign of this station has taken advantage of and generally preserved this design concept. Station 18 does not provide complete fungibility of water use from the primary pumps but allows, through various valving scenarios, primary areas of service for each pump and backup areas of service. Attachment 1 is a schematic diagram of the current system layout, which is revised from time to time, to take advantage of additional operating scenarios.

We request serious consideration be given toward combining EP5, EP3, and EP8 as a single well field with a single allocation for agricultural uses.

Ewa Pump 5 (Wells 2202-3 to 14)

This facility has 3,500 gpm of installed capacity and is the primary irrigation source for about 1,347 acres of diversified agricultural land as indicated on Map 1 (see attached). The current 12 mav is 1.81 mgd. An additional 0.22 mgd (12 mav) also services this area from EP15. We have designed this area for a demand of 3,500 gallons per acre per day ("gpad") resulting in a total demand of 4.71 mgd.

The current 12 mav for EP5 is about 1.81 mgd. We have seen an increase of intensity of use of the water from this system as the farmers use more of the land more intensively. We expect this increase to continue over the next three to four years leveling off near the 4.71 mgd.

Map 2 shows the agricultural lands where EP5 serves as a backup to other pumps. No demand has been attributed to EP5 for this purpose.
Ewa Pump 3 (Wells 2102-2 to 22)

The current capacity of the pumping unit at EP3 is about 1,050 gpm (1.51 mgd). This facility is the primary source for about 587 acres of diversified agricultural land as shown on Map 1. The demand in this area is calculated also at 3,500 gpad for a total demand expected at 2.04 mgd. (These 587 acres are supplemented by flows from EP8, see discussion below.)

The agricultural lands served include 404 acres owned by the State of Hawaii and currently farmed by Aloun Farm, Inc. ("Aloun"). The remaining 183 acres is owned by the Estate and is also utilized by Aloun. Aloun has just recently begun the process of bringing this area into cultivation. This facility has a small 12 mav at 0.11 mgd because water use is just beginning in this area. In May of this year, usage of the facility was at about 0.56 mgd. It is expected that it may take three to five years to fully bring this area into full production.

Map 2 shows the area where EP3 serves as a backup to other pumps. No water usage has been attributed in Table 1 for this backup purpose for EP3. Map 3 shows where EP3 (as well as EP8) will be able to backup EP5 once anticipated booster modifications are made to Station 18.

Ewa Pump 8 (Wells 2202-15 to 20)

The installed capacity at EP8 is about 2,300 gpm. The facility currently has three functions. The first is the delivery of water to a reservoir at the Ewa Villages Golf Course; the second is the supplemental delivery of water to the EP3 primary use area; and the third is as a backup water source for the EP5 primary service area.

The current 12 mav for EP8 is 0.75 mgd. The majority of the water use during this period was providing water to the Ewa Villages Golf Course reservoir. Within the next year or two, it is expected that the Ewa Villages Golf Course will convert to the use of R1 treated water from the Honouliuli Sewage Treatment Plant.

EP8 has and will serve as a critical backup to EP5 during times when EP5 is partially or totally out of service. Table 1 reflects an estimate of back up service to the EP5 area at about 3% of the time for an average of 0.14 mgd. Table 1 also reflects the critical supplemental flows anticipated to be provided by EP8 to the EP3 primary area to meet the eventual demand of 3,500 gpad. This supplemental flow is calculated to be 0.54 mgd.

Table 1 reflects a potential use of EP8 water for the Navy's West Loch lands comprising some 1,044 acres. The land is currently partially served by the Navy well on site (EP23,
Well 2001-01). Indications are that approximately 1.2 mgd of additional fresh water is needed at the site to supplement the Navy well for the full utilization of the property for diversified agricultural purposes. We have conducted preliminary engineering investigations and have identified BP8 as the likely candidate for service into this Navy area. This area was served by all wells mentioned earlier and a pipeline still exists to the area.

Table 1 also shows a potential use of about 1.4 mgd for 400 acres of State owned land situated west of the proposed North/South Road alignment. This demand amount was calculated at 3,500 gpm. One of our tenants is currently working with the State to utilize this area.

Ewa Pump 15 (Well 2202-21)

The Estate is reviewing converting this facility to potable use.

Ewa Pump 10 (Wells 2006-1 to 11)

The current installed pumping capacity at the EP10 pumping facility is 2,400 gpm (3.43 mgd) consisting of three 800 gpm submersible pumps. This facility is the primary source of irrigation water for 330 acres of arable land shown on Map 5. The Estate has recently entered into an agreement with Aloun to cultivate these areas. The soil in this area is of poorer quality generally consisting of stony ground, coral outcrops and soil mix. It is expected that the tenant in this area will take five to seven years to fully develop the land. The demand calculated for this usage at 3,500 gpm is 1.16 mgd.

Table 1 also reflects three additional planned and potential uses of water from this facility. The first item is a potential use by Chevron Products Company ("Chevron") of 1.44 mgd for use at its refinery to replace potable Board of Water Supply use. This is the subject of a current petition before you at this time. The second potential use involves the use by Grace Pacific Corp. ("Grace Pacific") of about 0.10 mgd for washing manufactured sand at its coral stockpile operation near Barbers Point Harbor. This potential use would require approval from the Commission.

The third planned use is for the second Ko Olina golf course. There is currently a pending application by Ko Olina for 1.636 mgd which includes this second golf course which can be easily and economically served by EP10. Table 1 reflects 0.75 mgd for this second golf course.
Tax Maps

For your convenience, we have also added Table 2 together with tax maps indicating where the water is used by parcel.

Crops

The Water Commission staff has asked us to report on the crops produced from the lands served by these wells. Part of the new paradigm for agriculture is, of course, the change from monoculture to "multiculture" in certain areas such as the areas served by the wells mentioned here. Additionally, the farmers do not assign a particular crop to a particular field. A particular field or plot of land sees a moveable feast of crops driven by the farmers' anticipation of market needs.

Also, not all lands remain in cultivation at all times. Fields are generally fallow for some period after a particular crop has been harvested. The fallowing is for the purpose of insect and weed control but also, again, may be driven by market and other factors. The list below shows the crops that are growing or have been grown on the lands mentioned above:

American Parsley  Corn  Korean Daikon  Red Leaf Lettuce
Anaheim Chiles  Green Jalepeno  Korean Melons  Romaine Lettuce
Bell Peppers  Peppers  Lemon Grass  Seed Corn
Bitter Melon  Green Leaf  Limes  Sweet Onions
Bush “String” Beans  Lettuce  Long Beans  Tomatoes
Butter Lettuce  Green Onions  Long Eggplant  Watermelon
Cantaloupe  Head Lettuce  Long Squash  Won Bok
Chinese Daikon  Honeydew Melon  Mizuna  Yellow Jalepeno
Chinese Parsley  Italian Parsley  Oranges  Peppers
Choi Sum  Kai Choy  Papaya  Zucchini
Kabocha Pumpkin  Radish

The farmers on these lands also report to us that other crops are under consideration.
Ms. Linnell Nishioka  
July 30, 1999  
Page 6

Thank you for this opportunity to provide information on our wells and lands in this area. If you have any questions please call George Hiu (674-3289) or Bert Hatton (674-3232).

Very truly yours,

[Signature]
Donna B. Goth  
Director, Hawaii Properties

cc:  Bert Hatton (w/encl.)  
George Hiu (w/encl.)

Enclosures (as listed below)

- Table 1: Summary of Existing, Planned and Potential Uses  
- Attachment 1: Schematic of Station 18  
- Map 1  
- Map 2  
- Map 3  
- Map 4  
- Map 5  
- Table 2  
- Tax Map 9-1-18  
- Tax Map 9-1-17  
- Tax Map 9-1-16  
- Tax Map 9-1-10  
- Tax Map 9-1-14  
- Tax Map 9-1-15

jck:01036400\K10060
## TABLE 1

**ESTATE OF JAMES CAMPBELL**  
**EWA PUMPS EXISTING AND ANTICIPATED NON-DOMESTIC USAGE**

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<tr>
<th>Pump</th>
<th>Well Number</th>
<th>Current Allocation MGD</th>
<th>Approximate Current 12 MAV MGD</th>
<th>Planned and Potential Add'l Uses MGD</th>
<th>Total Estimated Demand MGD</th>
<th>Notes</th>
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<td>2202-3 to 14</td>
<td>5.208</td>
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</tr>
<tr>
<td>EP-3/4</td>
<td>2102-2 to 22</td>
<td>3.304</td>
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<td>1.61</td>
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</tr>
<tr>
<td>EP-7/8</td>
<td>2202-15 to 20</td>
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<td></td>
<td></td>
<td></td>
<td>13.71</td>
</tr>
</tbody>
</table>

**Notes:**
- Replacement of supplemental EP-15/16 water
- Increased usage on the 1347 acres served by EP-5/6 based on 3500 gpd
- Estimated additional demand on about 557 acres based on 3500 gpd
  (see EP8 below for supplemental flows to this area)
- Backup to the EP-5/6 system (3% of EP 5 demand)
- Supplement to EP3/4 system
- Potential use on state lands (400 acres @ 3500 gpd west of North/South Road)
- Potential use to Navy West Loch Area to supplement EP-23 saline water
- New Aloun Farm lease on 330 acres @ 3500 gpm
- Water to Chevron to replace BWS water
- Potential use to Grace stockpile operation
- Planned second Ko Olina Golf Course
From EP 5 / 6

existing 30° D.I. pipeline (not used)

From EP 8

Install Air / Vacuum Release Assembly

Repair As Required

Install BFV

Install Connection

From EP 3 / 4 Pumping Station

EP 18

Cap All Outlets

Repair As Required

To Fields 022 / 024, 025, 026 / 028 & 030

To Fields 054 / 055

To Field 029

To Fields 052 / 050
TABLE 2

ESTATE OF JAMES CAMPBELL
WATER USE BY WELLS AND TAX MAP KEY

P = primary
S = supplemental
B = backup
I = in progress, application pending, planned or potential use

<table>
<thead>
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* Gross area is area of parcel except where noted as a portion.
Arable acres are used in all agricultural demand calculations
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Notice of Action
Water Use Permit Application for Well Nos. 2006-02 & 06
Ewa-Kunia Ground Water Management Area, Oahu

This letter serves as your official notice of action by the Commission on Water Resource Management (Commission) on your water use permit application for Well Nos. 2006-02 & 06.

At their regular meeting of July 15, 1998, the Commission voted to defer action on the water use permit application until a decision is made on the possible modification of the Ewa-Kunia sustainable yield estimate in the Hawaii Water Plan, Water Resources Protection Plan.

We plan to submit a recommendation to the Commission in September, 1998 to initiate the process to update the sustainable yield, which will include a public hearing that must be noticed for ninety (90) days. Action on the pending applications will be scheduled shortly thereafter.

With regard to your pump installation permit application, we note that the pump replacements are tied to the proposed new use by Chevron. Therefore, we will defer any action on this application until a final decision is made on the water use permit application.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

TIMOTHY E. JOHNS
Deputy Director

LN:ss
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

July 15, 1998
Honolulu, Hawaii

The Estate of James Campbell
MODIFICATION OF A WATER USE PERMIT
EP 10 (Well No. 2006-02 & 06), TMK 9-1-15:04
Future Industrial Use for 1.44 mgd
Ewa-Kunia Ground Water Management Area, Oahu

APPLICANT:
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

LOCATION MAP: See Exhibit 1

BACKGROUND:
On April 14, 1998, a completed water use permit application was received from The Estate of James Campbell (Campbell Estate) by the Commission on Water Resource Management (Commission). Additional information regarding the source, use, notification, objections, and field investigation(s) is provided in Attachment A.

ANALYSIS/ISSUES:
Section 174C-49(a) of the State Water Code establishes seven (7) criteria that must be met to obtain a water use permit. An analysis of the proposed permit in relation to these criteria follows:

(1) Water availability

Through the Hawaii Water Plan, the Commission has adopted 20 mgd as the sustainable yield for the Ewa-Kunia Aquifer System. Individual existing water use permits in this aquifer system are shown in Exhibit 2. A summary of the current ground water conditions in the aquifer is provided in Table 1:

Item 5
Table 1. Ewa-Kunia Aquifer System

<table>
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<th>ITEM</th>
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<td>Less: Pending Completed Applications (shown in Exhibit 3)*</td>
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<td>Subtotal (Potential Available Allocation/Allocation Deficit)</td>
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* Does not include applications to modify allocations that are already covered under an existing permit: Campbell Estate, WUP No. 121 for 5.01 mgd

The first issue is the apparent lack of available ground water to satisfy pending requests. Table 1 shows that there is currently 1.609 mgd of water available for allocation, while the application by West Beach Estates is for 1.640 mgd.

A second issue is the cessation of Oahu Sugar Company (OSCo) irrigation practices on lands overlying the aquifer and the associated decrease in return irrigation recharge (40% to 60% of applied irrigation water) that is expected to result in a lower sustainable yield.

The staff is currently engaged in ground water modelling using the U.S. Geological Survey's RASA and Central Corridor ground water model to further refine our estimate of the aquifer's sustainable yield given the loss in return irrigation recharge.

If the new sustainable yield is less than current allocations, then both pending applications would be in competition and the Commission must analyze the competing applications in relation to each other, pursuant to §13-171-16 HAR.

In light of the potential competition situation and given the present uncertainty in the aquifer's current and future sustainable yields, the staff recommends that the Commission defer action on this modification request until a decision is made on a new sustainable yield number for the aquifer.

(2) Reasonable-beneficial

Section 174C-3 HRS defines "reasonable-beneficial use" is

"...the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is both reasonable and consistent with the state and county land use plans and the public interest."
The application is to modify WUP No. 121 to allow 1.44 mgd to be used for industrial use by Chevron Products Company for cooling purposes in their power generation facility at the James Campbell Industrial Park. The remaining 3.57 mgd of permitted use will continue for agricultural use. The source was last pumped in December, 1994 (Exhibit 4). In January, 1999, the existing agricultural use permit (WUP No. 121 for 5.01 mgd for Well Nos. 2006-01 to 11) may be revoked due to four (4) years of nonuse.

The application states that, currently, 1.00 mgd of potable water is being supplied by the Honolulu Board of Water Supply (BWS) for cooling tower makeup water at Chevron. This substitution of non-potable water containing 400 to 500 PPM of chloride will allow potable water containing 160 PPM of chloride or less from the municipal system to be directed to higher uses. Because of the higher chlorides at EP 10, 1.44 mgd is needed to replace the 1.00 mgd of potable water that is currently being used.

Other reasonable-beneficial use criteria are analyzed in the following sections.

(3) **Interference with other existing legal uses**

Because this application is to modify the type of use, and not to increase the quantity of permitted use, other existing legal uses should not be impacted, provided that the allocation is within the aquifer's sustainable yield. Standard Condition 3.c. provides for modification or revocation of the permit should this new use interfere with other existing legal uses.

(4) **Public interest**

The proposed use of nonpotable water to meet nonpotable industrial needs is deemed to be in the public interest, provided that the use complies with the provisions of §174C-49(a) HRS.

(5) **State & county general plans and land use designations**

This proposed use is consistent with the state and county general plans and land use designations.

(6) **County land use plans and policies**

This proposed use is consistent with county land use plans and policies.

(7) **Interference with Hawaiian home lands rights**

All permits are subject to the prior rights of Hawaiian home lands. The Department of Hawaiian Home Lands (DHHL) and the Office of Hawaiian Affairs have reviewed this application.

DHHL has commented that it has no objections to the subject applications provided that there is no impact on DHHL’s existing and pending reservation request for Waipahu-Waiawa Aquifer System ground water.
RECOMMENDATION:

Staff recommends that the Commission defer action on the water use permit application for EP 10 (Well Nos. 2006-02 & 06) until a decision is made on the possible modification of the Ewa-Kunia sustainable yield estimate in the Hawaii Water Plan, Water Resources Protection Plan.

Respectfully submitted,

TIMOTHY E. JOHN
Deputy Director

Attachment(s): A (Water Use Permit Detailed Information)  
                  B (Water Use Permit Standard Conditions)

Exhibit(s): 1 (Location Map)  
             2 (Existing Water Use Permits and 12-Month Moving Average Withdrawal)  
             3 (Pending Water Use Permit Applications)  
             4 (Graph of Pumpage at EP 10)
Staff Submittal

WATER USE PERMIT DETAILED INFORMATION

Source Information

AQUIFER:
Sustainable Yield:
Existing Water Use Permits:
Available Allocation:
Total of other pending allocations:

WELL:
Location:
Year Drilled:
Casing Diameter:
  Elevations (msl = 0 ft.)
  Water Level:
  Ground:
  Bottom of Solid Casing:
  Bottom of Perforated:
  Bottom of Open Hole:

Total Depth:
Grouted Annulus Depth:

Pump Capacity

WELL:
Location:
Year Drilled:
Casing Diameter:
  Elevations (msl = 0 ft.)
  Water Level:
  Ground:
  Bottom of Solid Casing:
  Bottom of Perforated:
  Bottom of Open Hole:

Total Depth:
Grouted Annulus Depth:

Pump Capacity

Ewa-Kunia System, Pearl Harbor Sector, Oahu
20 mgd
18.391 mgd
1.609 mgd
1.640 mgd

EP 10 (Well No. 2006-02)
Ewa, Oahu, TMK:9-1-15:4
  1908
  12 in.
  13.0 ft.
  41 ft.
  -21 ft.
  Na ft.
  -241 ft.

EP 10 (Well No. 2006-06)
Ewa, Oahu, TMK:9-1-15:4
  1908
  12 in.
  16.7 ft.
  41 ft.
  NA ft.
  NA ft.
  -124 ft.

  165 ft.
  NA ft.

800 gpm
Use Information

Quantity Requested: 5,010,000 gallons per day.
Existing/Proposed Type of Water Use: Agriculture/Industrial
Place of Water Use: Former OSCo fields/

Chevron Refinery, 91-480 Malakole St. at TMK: 9-1-14:10

Reported Water Usage: 0 gpd

Ewa-Kunia Aquifer System
Current 12-Month Moving Average Withdrawal (See Exhibit 2): 10.832 mgd

Nearby Surrounding Wells and Other Registered Ground Water Use

There are thirteen (13) other wells within a mile of the well (see Exhibit 1). Five (5) of these wells are currently being used for industrial or irrigation use. The remaining eight (8) wells have either been sealed or are currently unused.

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Honolulu Advertiser on May 4 and 11, 1998 and a copy of the notice was sent to the Mayor’s office. Copies of the completed application were sent to the Department/Board of Water Supply, Planning Department, Department of Land Utilization (Oahu only), Department of Health, Department of Hawaiian Home Lands, Office of Hawaiian Affairs, the various divisions within the Department of Land and Natural Resources, and other interested parties for comments. Written comments and objections to the proposed permit were to be submitted to the Commission by May 26, 1998.
Objections

The public notice specifies that an objector meet the following requirements: (1) state property or other interest in the matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; (3) state all grounds for objections to the proposed permits, (4) provide a copy of the objection letter(s) to the applicant, and (5) submit objections meeting the previous requirements to the Commission by May 26, 1998.

To the best of staff's knowledge there are no objectors who have property interest within the EWA-KUNIA Aquifer System or who will be directly and immediately affected by the proposed water use.

Briefs in Support

Responses to objections, or briefs in support, regarding the application are required to be filed with the Commission ten (10) days after an objection is filed and, presumably, copies are served to the applicant. No briefs in support were filed with the Commission.

Field Investigation

The water source was investigated on May 11, 1994.
STANDARD WATER USE PERMIT CONDITIONS

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses mean "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground water use here must not interfere with surface or other ground water rights or reservations.

5. The ground water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its July 15, 1998 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;

ATTACHMENT B
Staff Submittal

July 15, 1998

c. insure adequate conservation measures;
d. require efficiency of water uses;
e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.

13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.

ATTACHMENT B
16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kunia Ground Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

20. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.
### Current Active Water Use Permits

(Excluding salt water use permit)

**ISLAND OF OAHU**

WMA Aquifer System: EWA-KUNIA

**Sustainable Yield = 20 mgd**

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31 Permits Totalling 18.391 Available SY

**EXHIBIT 2**
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<th>Well Name</th>
<th>Well No.</th>
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<th>Agenda</th>
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There are 3 which total 6.646
Monthly Pumpage
EP10 (Well Nos. 2006-01 to 11)

- monthly pumpage
- 12-MAV
- allocated amount
Monthly Pumpage
EP10 (Well Nos. 2006-01 to 11)

pumpage (mgd)

date (latest data 4/98)

monthly pumpage 12-MAV allocated amount
**Current Active Water Use Permits** (Excluding salt water use permits)

**ISLAND OF OAHU**

**WMA Aquifer System:** EWA-KUNIA

**Sustainable Yield = 20 mgd**

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31 Permits Totalling 18.391 mgd

Available SY 10.939 mgd
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Application for Water Use Permit
EP 10 (Well Nos. 2006-02 & 06)
Ewa-Kunia Ground Water Management Area, Oahu

We are forwarding for your review comments from the Planning Department and Board of Water Supply on your water use permit application.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

TIMOTHY E. JOHNS
Deputy Director

LN:ss
Attachment
June 5, 1998

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Water Use Permit Application
for the Estate of James
Campbell, Well Nos. 2006-02 and 06

Enclosed are comments from the Department of Land Utilization (DLU) on the subject application. They were received after we transmitted Planning Department comments to you on May 27, 1998.

Should you have any questions, please call Eugene Takahashi of our staff at 527-6022.

Yours very truly,

PATRICK T. ONISHI
Chief Planning Officer

PTO:lh
Attachment

c: The Honorable Jeremy Harris, Mayor
(Mayor's Control No. 34094)
MEMORANDUM

TO: PATRICK T. ONISHI, CHIEF PLANNING OFFICER
    PLANNING DEPARTMENT

FROM: JAN NAOE SULLIVAN, DIRECTOR
    DEPARTMENT OF LAND UTILIZATION

SUBJECT: WATER USE PERMIT APPLICATION

Applicant: The Estate of James Campbell
Tax Map Key(s): 9-1-14: 10
Type of Use(s): Cooling tower make-up water at Chevron Refinery
Well No(s): 2006-02 and 2006-06

The proposed use on the above-referenced tax map key(s) has been reviewed. We find that the:

1. Current zoning designation is I-2 Intensive Industrial District.
   [X] Proposed use(s) is/are permitted under current zoning.
   [ ] Proposed use(s) may be permitted if the following permit(s) is/are obtained: ________________________________

   [ ] Proposed use(s) is/are not permitted under current zoning.

   The Department of Land Utilization is currently processing a zone change application for the project, which if approved by the City Council, would result in the use being consistent with the proposed district zoning.

   [ ] Yes
   [ ] No
2. [X] Portion of the property is within the Special Management Area (SMA). The project is not within the SMA.

[ ] Use is not within the Special Management Area.

3. Additional Comments: 

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Environmental Review Branch at 523-4077.

JAN NAOE SULLIVAN
Director of Land Utilization

JNS:am
g:ppd\9803114.djt
Dear Mr. Wilson:

Water Use Permit Application
for the Estate of James
Campbell, Well Nos. 2006-02 and 06

This is in response to your memorandum dated April 24, 1998. We have reviewed the subject application and provide the comments below for your consideration.

- The existing refinery operation is located within the Urban Growth Boundary in the Ewa Development Plan. The existing operation within the Barbers Point Industrial Area (which includes Campbell Industrial Park) is consistent with the activities permitted within the boundary.

- We have no objections to use of non-potable water to meet the refinery’s cooling water needs.

- The Board of Water Supply (BWS) commented that the use from the well station was substantially below the permitted use and, therefore, a candidate for reduction. The released water could be applied for by the applicant, but cooling water ranks low in priority. See attached comments.
Should you have any questions, please call Eugene Takahashi of our staff at 527-6022.

Yours very truly,

PATRICK T. ONISHI
Chief Planning Officer

PTO:lh

Attachment

c: The Honorable Jeremy Harris, Mayor
(Mayor's Control No. 34094)
TO: PATRICK T. ONISHI, CHIEF PLANNING OFFICER
PLANNING DEPARTMENT

FROM: BROOKS H. M. YUEN, ACTING MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY

SUBJECT: WATER USE PERMIT FOR THE ESTATE OF JAMES CAMPBELL FOR
WELL NOS. 2006-02 AND 06

May 12, 1998

We do not object to the permit but have the following comments:

The intended use of cooling water by Chevron represents a new use from the agricultural use for the existing permit of 5.010 mgd. A four-year review of the permit would indicate the use from the well station was substantially below the permitted use and, therefore, a candidate for reduction. The released water can be applied for, but cooling water ranks low in priority. The water is too brackish for drinking. Board of Water Supply currently supplies potable cooling water for Chevron which could be potentially released for other uses.

If you have any questions, please contact Chester Lao at 527-5286.
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Division  
State Parks

FROM: Edwin T. Sakoda, Acting Deputy Director  
Commission on Water Resource Management

SUBJECT: Request for Comments  
Water Use Permit Application  
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)

Response:

( ) We have no comments  
( ) We have no objections  
( ) Comments attached

Contact Person: Elaine Soubrane  
Phone:  
Signed:  
Date: 5/12/98
May 6, 1998

Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii  96809

Dear Mr. Wilson:

Subject: Water Use Permit Application
Ewa-Kunia Ground Water Management Area, Oahu
The Estate of James Campbell
Well Nos. 2006-02 & 06

We have reviewed the subject water use permit application, as transmitted by your memorandum dated April 24, 1998, and have the following comments to offer:

1) We confirm that the location of Well Nos. 2006-02, and 2006-06, identified as TMK: 9-1-15: 04, is within the State Land Use Urban District.

This parcel was reclassified from the Agricultural District to the Urban District on February 14, 1991 by approval of LUC Docket No. A90-655/West Beach Estates.

We have enclosed a copy of the Decision and Order map, and conditions imposed upon the reclassified area for your information.

2) We confirm that the location of proposed water use, identified as TMK: 9-1-14: 10, is also within the State Land Use Urban District.

The parcel has been in the Urban District since the initial State Land Use District Boundaries were established, and was not subject to a land use district boundary amendment petition. Further, no conditions were imposed by the Commission upon the parcel.
3) In regards to your request as to whether the proposed water use is appropriate for the state land use district designation, pursuant to Condition No. 18 of the Commission's Decision and Order for LUC Docket No. A90-655/West Beach Estates, the Petitioner is required to develop the property in substantial compliance with the representations made to the Commission.

We note that in LUC Docket No. A90-655, Petitioner represented that the reclassified area would include the following uses: low-density apartments, medium-density apartments, park/open space, portion of public school site, commercial, golf course, roadways/infrastructure, and public facilities.

In addition, pursuant to Chapter 205-2(b), Hawai'i Revised Statutes, permitted activities or uses within the State Land Use Urban District are determined by the respective counties by ordinance or regulations. Therefore, the City and County of Honolulu should be requested to also provide a response as to the appropriateness of the proposed water use in the Urban District.

We have no further comments to offer at this time.

Thank you for the opportunity to provide comments on the subject application.

As requested, please find enclosed the cover memorandum for the subject application.

If you have any questions in regards to this matter, please feel free to contact me or Leo Asuncion of my staff at 587-3822.

Sincerely,

ESTHER UEDA
Executive Officer

EU:th
Enclosures
TO: Ms. Esther Ueda, Executive Officer  
Land Use Commission  
FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
SUBJECT: WATER USE PERMIT APPLICATION  
Ewa-Kunia Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application (i.e. line item 6 or Table 1). Specifically, we request that you inform us of the current state land use designation for the TMK parcel, or portion thereof, for the proposed use area(s) and, secondly, whether the current state land use designation is appropriate for the proposed water use.

We have attached a TMK map(s) that covers the proposed use area(s). Where water is proposed for use on only a portion of a TMK parcel, or on parcels with multiple zoning, the proposed use area(s) has been clearly delineated on the attached map. Please respond by returning this cover memo along with your review comments by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s).  
(x) Comments attached

Contact Person: Phone:

Signed: Esther Ueda Date: 5/6/98
BEFORE THE LAND USE COMMISSION
OF THE STATE OF HAWAII

In the Matter of the Petition of
WEST BEACH ESTATES, a Hawaii general partnership

To Amend the Agricultural Land Use District Boundary into the Urban Land Use District for Approximately 372.6 Acres, at Honouliuli, Ewa, Oahu, Hawaii,
Tax Map Key: 9-1-15: 18 and portion of 4, and 9-1-56: portion of 11 and portion of 12

DOCKET NO. A90-655
WEST BEACH ESTATES, a Hawaii general partnership

This is to certify that this is a true and correct copy of the Decision and Order on file in the office of the State Land Use Commission, Honolulu Hawaii.
FEB 14 1991 by
Date
Executive Officer

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECISION AND ORDER
ORDER

IT IS HEREBY ORDERED that the Property, being the subject of this Docket No. A90-655 by Petitioner WEST BEACH ESTATES, a Hawaii general partnership, consisting of approximately 372.6 acres, situated at Honouliuli, District of Ewa, Island of Oahu, State of Hawaii, and identified as Oahu Tax Map Key Nos.: 9-1-15: 18 portion of 4 and 9-1-56: portion of 11 and 9-1-56: portion of 12, and approximately identified on Exhibit "A" attached hereto and incorporated by reference herein, for reclassification from the Agricultural District to the Urban District, shall be reclassified from the Agricultural District into the Urban District and the State Land Use District Boundaries are amended accordingly, subject to the following conditions:

1. Petitioner shall provide affordable housing opportunities for residents of the State of Hawaii by offering for sale or lease a number of units equal to at least thirty percent (30%) of the residential units in the Property at prices which families with an income range of up to one hundred twenty percent (120%) of the City and County of Honolulu’s median income can afford, and a number of units equal to at least thirty percent (30%) of the residential units in the Property at prices which families with an income range of one hundred twenty to one hundred forty percent (120%-140%) of the City and County of Honolulu’s median income can afford.
a. This condition may be fulfilled through various alternatives, including, but not limited to, the provision of affordable housing on-site or off-site, the provision of an in-lieu contribution, or a combination of these alternatives under such terms as may be mutually agreeable between Petitioner and the Housing Finance and Development Corporation of the State of Hawaii ("HFDC").

b. This condition may also be fulfilled, with the approval of the HFDC through construction of rental units to be made available at rents which families in the specified income ranges can afford.

c. In addition, Petitioner may obtain special credit, as determined by HFDC, for the provision of housing affordable to persons with low and/or very low incomes and for the provision of housing for special needs groups, as determined by the HFDC.

d. Insofar as possible, the Petitioner shall implement this affordable housing requirement concurrently with the completion of market priced units for the residential project.

e. The determination of median income, as the term is used in this condition, shall be based on median income published by the United States Department of Housing and Urban Development at the time that construction of such housing units commences.
2. Petitioner shall participate in the implementation of the Ewa Transportation Master Plan ("ETMP"). In the alternative, should the ETMP not be completed on a schedule compatible with Petitioner's development schedule, Petitioner shall undertake the following on a fair proportionate share basis as determined by the State Department of Transportation ("DOT"):

   a. Petitioner shall participate in the funding and construction of transportation improvements at project access points as identified and deemed necessary by DOT.

   b. Petitioner shall also participate in the funding and construction of other on-site and off-site transportation improvements necessitated by the proposed development of the Property and in designs and schedules accepted by and coordinated with DOT.

   c. With respect to the foregoing requirements, the extent of the Petitioner's participation shall not exceed its fair proportionate share of the increased community impacts in the region.

   d. In the event that the City and County of Honolulu ("C&C") adopts an impact fee for transportation improvements, the foregoing requirements shall be satisfied to the extent that the cost of any specific traffic improvement is also included in the C&C's impact fee computation.

   e. Petitioner shall appoint a transportation manager whose function is the formulation, use, and
continuation of alternative transportation opportunities that would optimize the use of existing and proposed transportation systems. In the alternative, Petitioner may participate in a regional program for transportation management with other developers and/or landowners. This program shall address the formulation, use, and continuation of alternative transportation opportunities that would optimize the use of existing and proposed transportation systems. Participation in the Leeward Oahu Transportation Management Association would satisfy this condition.

3. Petitioner will provide other community benefits to mitigate impacts, which may include adequate golf tee times at affordable rates for public play by Hawaii residents based on prevailing rates for public play at privately owned daily fee golf courses to the satisfaction of the Office of State Planning and the City and County of Honolulu.

4. Petitioner shall provide drainage improvements for the Property and shall, to the extent necessary as determined by the City and County of Honolulu, coordinate off-site improvements with the Estate of James Campbell, the Barbers Point Naval Air Station, adjoining landowners and developers, and/or other Federal, State or City and County of Honolulu agencies.

5. Petitioner shall participate in an air quality monitoring program as specified by the State Department of Health.
6. The Petitioner shall connect the wastewater system for the proposed development in the Property to the Honouliuli Wastewater Treatment Plant (HWTP). Construction of any structure(s) within the Property shall not commence until Petitioner has obtained assurances from the City and County of Honolulu that the capacity at HWTP has been reserved for such structure(s); provided that if the capacity at the HWTP is not sufficient for the proposed structure(s) within the Property, the Petitioner may utilize other alternatives acceptable to the State Department of Health.

7. Petitioner shall implement soil erosion and dust control measures during all phases of the development in compliance with the applicable rules and regulations of the City and County of Honolulu and the State Department of Health.

8. Petitioner, by itself or together with other members of the Ewa Plain Water Development Corporation, shall develop the necessary water source, storage, and transmission facilities to provide an adequate supply of potable and non-potable water to the Property in conjunction with the development of Ko Olina Phase II. Non-potable water shall be used for irrigation.

9. Petitioner shall be responsible for implementing sound attenuation measures to bring noise levels from vehicular traffic in the Property down to levels in compliance with the applicable State Department of Health standards and in cooperation with the State Department of Transportation.
10. Petitioner shall disclose in its deeds to all initial purchasers of residential units in the Property: (a) the possible odor, air, noise, and dust pollution resulting from Farrington Highway, Barbers Point Naval Air Station, Honolulu International Airport, neighboring developments, and any adjacent agricultural operations, and (b) the Hawaii Right-to-Farm Act, Chapter 165, Hawaii Revised Statutes, which limits the circumstances under which pre-existing farm activities may be deemed a nuisance.

11. Petitioner will provide covenants in the deed to initial purchases releasing the State of Hawaii and the United States Government or any subdivision thereof from all liability, and provide that such initial purchasers will not file suit against the State of Hawaii and the United States Government or any subdivision thereof on account of, or resulting from, any inconvenience, disturbance and/or injury due to noise under 65 Ldn in the area affecting such occupants or their property. Such covenants shall run with the land.

12. Petitioner shall immediately stop work on the impacted area and contact the Historic Preservation Division, State Department of Land and Natural Resources should any significant archaeological resources such as artifacts, shell, bones or charcoal deposits, human burial, or rock or coral alignments, paving or walls of historic or prehistoric significance be encountered during the development of the Property.
13. Petitioner shall comply with "The Eight (8) Conditions Applicable to This Golf Course Development", prepared by the State Department of Health dated April, 1990 (Version 3), introduced as the Office of State Planning's Exhibit Number 2.

14. Petitioner shall engage the services of a qualified golf course manager to oversee the irrigation of the golf course and application of fertilizers and pesticides to the golf course within the Property and who shall be qualified in the application of fertilizers and pesticides on those areas.

15. Petitioner shall provide its fair proportionate share for school facilities as may be required by and to the satisfaction of the State Department of Education and the Office of State Planning.

16. Petitioner shall provide its fair proportionate share for police, fire, park and solid waste disposal as may be required by and to the satisfaction of the City and County of Honolulu.

17. Petitioner shall participate with City and State civil defense agencies, with U.S. Department of the Navy, and with adjoining landowners and developers in formulating and implementing an emergency preparedness and evacuation plan for the Property. Petitioner shall fund and install the necessary number of emergency siren units (including infrastructure) within the development area to the specifications and satisfaction of the State Office of Civil Defense.
18. Petitioner shall complete the development on the Property in substantial compliance with the representations made before the Land Use Commission. Failure to so develop may result in the Land Use Commission taking any action authorized under, and pursuant to Act 261.

19. Petitioner shall give notice to the Land Use Commission of any intent to sell, lease, assign, place in trust, or otherwise voluntarily alter the ownership interest in the Property covered by the approved Petition prior to visible commencement of construction on the Property; provided, however, that Petitioner may transfer ownership in the Property to an affiliate or joint venture of which Petitioner is a member or in a manner consistent with prior representations to the Land Use Commission, and may mortgage the Property at any time without notice to the Land Use Commission. A mortgagee under such mortgage may foreclose the mortgage, by judicial foreclosure or under a power of sale contained in such mortgage (provided notice of the date of such foreclosure sale is given to the Land Use Commission), or may, with notice to the Land Use Commission, acquire title to such Property in lieu of foreclosure and the mortgagee or the person acquiring title at such foreclosure or in lieu of foreclosure may also transfer title to the Property with notice to the Land Use Commission.

20. The Commission may fully or partially release these conditions as to all or any portion of the Property upon
timely motion and upon the provision of adequate assurance of satisfaction of these conditions by the Petitioner.

Adequate assurance of satisfaction may be evidenced by execution of a certificate of satisfaction in recordable form stating that such condition has been satisfied, in whole or in part. The Office of State Planning will certify for itself and all state departments and agencies. Petitioner will obtain any applicable certifications from the appropriate county departments and agencies. Any other party to the boundary amendment proceeding may be asked to indicate whether they concur in the certification of satisfaction.

21. Petitioner shall provide annual reports to the Land Use Commission, the Office of State Planning, and the City and County of Honolulu, Department of General Planning in connection with the status of the subject project and the Petitioner's progress in complying with the conditions imposed.
LOCATION MAP

DOCKET NO.: A90-655/WEST BEACH ESTATES

TAX MAP KEY: 9-1-15: por. 4, 18;
9-1-56: por. 11 & por. 12

HONOLULU, EWA, OAHU

SCALE: 1" = 2,000 ft.

EXHIBIT A

APPROVED AREA
TO: 
Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong

Honorable A. Frenchy DeSoto, Chairperson
Office of Hawaiian Affairs

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

Mr. Patrick Onishi, Chief Planning Officer
Planning Department

FROM: 
Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

( ) We have no comments
( ) We have no objections
☒ Comments attached

Contact Person: Rebecca Alakai / Darrell Yagodich

Phone: [redacted]

Signed: Darrell Yagodich

Date: 5/7/98
May 8, 1998

To: Timothy Johns, Deputy Director
   Commission on Water Resource Management

From: Darrell Yagodich, Planning Office Administrator
      Department of Hawaiian Home Lands

Subject: Water Use Permit Application
         The Estate of James Campbell, Well Nos. 2006-02 and 06
         Ewa-Kunia Groundwater Management Area

Thank you for the opportunity to comment on the subject permit application. Campbell Estate is requesting a modification of its permit to allow 1.44 mgd of its current allocation for agriculture to be used instead for industrial use by the Chevron Refinery.

Under Hawaii Revised Statutes (HRS), 174C-49(d), Hawaii Administrative Rules (HAR), 13-171-13(d), and the Hawaiian Homes Commission Act, Section 221, the Department of Hawaiian Home Lands has an existing water reservation and pending reservation request with the Commission on Water Resource Management in the Waipahu-Waiawa groundwater management area. We understand that the sustainable yield of the Waipahu-Waiawa groundwater management area may also be reduced in the near future. Our pending reservation request will then be heard in rule-making procedures. Since the Ewa-Kunia aquifer is hydrologically connected to the Waipahu-Waiawa aquifer we have no objections to Campbell Estate’s subject application provided it has no impact on our existing and pending water reservations.

Should you have any questions, please call Rebecca Alakai of our Planning Office at 587-6423.
TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong

Honorable A. Frenchy DeSoto, Chairperson
Office of Hawaiian Affairs

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

Mr. Patrick Onishi, Chief Planning Officer
Planning Department

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water, the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: WILLIAM WONG
Phone: [Redacted]

Signed: WILLIAM WONG
Date: 5/5/98
MEMORANDUM

To: Edwin T. Sakoda, Acting Director
   Commission on Water Resource Management
From: William Devick, Acting Administrator
   Division of Aquatic Resources
Subject: Comments on _x_ Water Use Permit Application

Comments Requested By: Edwin T. Sakoda
Date of Request: 4/24/98 Suspense Date: 5/26/98

Summary of Project

   Title: Estate of James Campbell; Wells Nos. 2006-02 & 06
   Proj. By: Estate of James Campbell
   Location: Ewa-Kunia Ground Water Management Area, Oahu

Brief Description:

The Estate of James Campbell (Estate) currently has a water use permit of 5.01 MGD for agriculture use from EP-10. The Estate is requesting a modification of the EP-10 water use permit to allow 1.44 MGD of the allocation to be used by Chevron Products Company for cooling purposes in their power generation facility at the James Campbell Industrial Park. If the modification is approved, the existing 5.01 MGD water use allotment (EP-10) for the Estate will be distributed as follows: 1.44 MGD for industrial use, and 3.57 MGD for agricultural use.

Currently, 1.00 MGD of potable water is being supplied by the Board of Water Supply (BWS) for cooling tower makeup water at Chevron. This substitution of non-potable water containing 400 to 500 PPM chloride from EP-10, for potable water containing 160 PPM or less of chlorides will proceed only if Chevron has certainty that the quality, volume and cost of the replacement water they are seeking will be continually available. Approval of the permit modification is a part of gaining that certainty. Its approval would also exemplify a commitment to the concept of highest and best use of water that the Commission on Water Resource Management advocates.

Comments:

We have no objection to the proposed request.
TO:  
Honorable Kali Watson, Chairperson  
Department of Hawaiian Home Lands  

Honorable Lawrence Miike, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  

Honorable A. Frenchy DeSoto, Chairperson  
Office of Hawaiian Affairs  

Mr. Raymond Sato, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  

Mr. Patrick Onishi, Chief Planning Officer  
Planning Department  

FROM:  
Michael D. Wilson, Chairperson  
Commission on Water Resource Management  

SUBJECT:  
Water Use Permit Application  
Ewa-Kunia Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)  

Response:  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  

Contact Person:  
Phone:  
Signed:  
Date: 5/98
Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Wells Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

We have no comments

We have no objections

Comments attached

Contact Person: Phone: 429-7222

Signed: Date:
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Division  
State Parks

FROM: Edwin T. Sakoda, Acting Deputy Director  
Commission on Water Resource Management

SUBJECT: Request for Comments  
Water Use Permit Application  
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

We have no comments
We have no objections
Comments attached

Contact Person:

Signed:

APR 29 1998

COMMISSION ON WATER RESOURCE MANAGEMENT

Phone:

Date:
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Division  
State Parks  

FROM: Edwin T. Sakoda, Acting Deputy Director  
Commission on Water Resource Management  

SUBJECT: Request for Comments  
Water Use Permit Application  
Ewa-Kunia Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)  

Response:

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  

Contact Person: Cecil Santos  
Signature: Cecil Santos  
Phone: 587-0433  
Date: 4/29/98
PUBLIC NOTICE

Applications for Water Use Permits
Puuloa and Ewa-Kunia Ground Water Management Areas, Oahu

The following applications for water use permits have been received and are hereby made public in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas."

Coral Creek Temporary Construction (Well No. 1901-04)
Applicant: R.H.S. Lee, Inc.
96-1414 Waihona Place
Pearl City, HI 96782
Date Completed Application Received: March 31, 1998
Aquifer: Puuloa System, Ewa Caprock Sector, Oahu
Water Source: Coral Creek Temporary Construction Well (Well No. 1901-04) at Coral Creek Golf Course, Oahu, Tax Map Key 9-1-69:7
Quantity Requested: 200,000 gallons per day.
New Water Use: Construction Water (74 acres)
Place of Water Use: Coral Creek Golf Course at Tax Map Key: 9-1-69:7

Goodfellows Construction (Well No. 2002-16)
Applicant: Goodfellows Bros., Inc.
P.O. Box 700728
Kapolei, HI 96709
Date Completed Application Received: April 21, 1998
Aquifer: Puuloa System, Ewa Caprock Sector, Oahu
Water Source: Goodfellows Construction Well (Well No. 2002-16) at Coral Creek Golf Course, Oahu, Tax Map Key 9-1-69:10
Quantity Requested: 200,000 gallons per day.
New Water Use: Construction Water (50 acres)
Place of Water Use: Coral Creek Golf Course at Tax Map Key: 9-1-69:10

EP 10 (Well No. 2006-02 & 06)
Applicant: The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707
Date Completed Application Received: April 24, 1998
Aquifer: Ewa-Kunia System, Pearl Harbor Sector, Oahu
Water Source: EP 10 (Well Nos. 2006-02 & 06) at Ewa, Oahu, Tax Map Key 9-1-15:4
Quantity Requested: 5,010,000 gallons per day.
New Water Use: Request is to modify existing water use permit to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use.)
Place of Water Use: Chevron Refinery, Kapolei, Oahu at Tax Map Key: 9-1-14:10

Written objections or comments on the above applications may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply, any person who will be directly and immediately affected by the proposed water uses, or any other interested person. Written objections shall: (1) state property or other interest in the matter (provide TMK information); (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; and (3) state all grounds for objections to the proposed permit. Written objections must be received by May 26, 1998. Objections must be sent to 1) the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809 and 2) the applicants at the above addresses.

COMMISSION ON WATER RESOURCE MANAGEMENT

EDWIN T. SAKODA, Acting Deputy Director for
MICHAEL D. WILSON, Chairperson

Dated: APR 24 1998

Publish in: Honolulu Advertiser issues of May 4 and 11, 1998
Ms. Donna B. Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707

Dear Ms. Goth:

We acknowledge receipt, on April 24, 1998, of your completed water use permit application for EP 10 (Well Nos. 2006-02 & 06). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

Enclosed is a copy of the public notice for your water use permit application which will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

Please be aware that there may be objections to your application. If objections are made, the objector is required to file such objections with the Commission and is also required to send you a copy of the objections.

You, or any other party, may respond to objections by filing a brief in support of your application with the Commission within ten (10) days of the filing of an objection. You, or the other party, must also send a copy of the response to the objector.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

EDWIN T. SAKODA  
Acting Deputy Director

LN:ss  
Enclosure
Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: _________________ Phone: _________________

Signed: _________________ Date: _________________
TO: Other Interested Parties

FROM: Edwin T. Sakoda, Acting Deputy Director
Commission on Water Resource Management

SUBJECT: Request for Comments
Water Use Permit Application
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the attached application for any conflicts or interferences with the programs, plans, and objectives of the organization or agency that you represent. Written objections should be made in accordance with Section 13-171-18 of our Administrative Rules and must be filed by the May 26, 1998 deadline.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: _________________________________ Phone: ______________________

Signed: _________________________________ Date: ______________________
Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached application (i.e. line item 6 or Table 1). Specifically, we request that you inform us of the current state land use designation for the TMK parcel, or portion thereof, for the proposed use area(s) and, secondly, whether the current state land use designation is appropriate for the proposed water use.

We have attached a TMK map(s) that covers the proposed use area(s). Where water is proposed for use on only a portion of a TMK parcel, or on parcels with multiple zoning, the proposed use area(s) has been clearly delineated on the attached map. Please respond by returning this cover memo along with your review comments by May 26, 1998.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s).
( ) Comments attached

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
TO:          Ms. Jan Sullivan, Director
            Department of Land Utilization
FROM:       Michael D. Wilson, Chairperson
            Commission on Water Resource Management
SUBJECT:     WATER USE PERMIT APPLICATION
            Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for
The Estate of James Campbell for Well Nos. 2006-02 & 06. The request is to modify the
existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower
make-up water; the remaining 3.57 mgd will continue to be for agricultural use. Public notice of
this application will be published in the Honolulu Advertiser issues of May 4 and 11, 1998.

We would appreciate your review of the proposed use that is described in the attached
application (i.e. line item 6 or Table 1). Specifically, we request that you inform us of the
current zoning designation for the TMK parcel, or portion thereof, for the proposed use area(s)
and, secondly, whether the current zoning designation is appropriate for the proposed water use.

We have attached a TMK map(s) that covers the proposed use area(s). Where water is
proposed for use on only a portion of a TMK parcel, or on parcels with multiple zoning, the
proposed use area(s) has been clearly delineated on the attached map. Please respond by
returning this cover memo along with your review comments by May 26, 1998.

If you have any questions, require additional information, or would like to request an
extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s).
( ) Comments attached

Contact Person: ________________________________ Phone: ________________________________

Signed: ________________________________ Date: ________________________________
Honorable Jeremy Harris, Mayor  
City & County of Honolulu  
City Hall  
Honolulu, HI 96813

Dear Mayor Harris:

Notice of an Application for Water Use Permit  
Ewa-Kunia Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice and water use permit application for The Estate of James Campbell for Well Nos. 2006-02 & 06, which will be published in the Honolulu Advertiser. The request is to modify the existing water use permit (WUP No. 121 for 5.010 mgd) to allow 1.44 mgd for cooling tower make-up water; the remaining 3.57 mgd will continue to be for agricultural use.

In addition, Section 13-171-13(b), of our Administrative Rules, states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We understand that the Planning Department is responsible for coordinating the review comments for City agencies. In accordance with the procedure that has been established by the Planning Department, we have also sent copies of the application and individual requests for comments to the Planning Department, the Department of Land Utilization, and the Board of Water Supply to facilitate and expedite City agencies review. We will look forward to receiving the review comments from the Planning Department within the next sixty (60) days, on whether this water use is consistent with county plans, policies, and land use designations.

Very truly yours,

[Signature]

MICHAEL D. WILSON
Chairperson

Enclosures
DEPARTMENT OF LAND AND NATURAL RESOURCES

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TOTAL 50.00

REMARKS: LINE (1) Well No. 2206-02 & 06 (WUPA)
LINE (2) Well No. 2006-02 & 06 (PIPA)
LINE (3)

THE ESTATE OF JAMES CAMPBELL
1001 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

DATE
APR 24 98

TO THE ORDER OF
Commission on Water Resource Management
P. O. Box 621
Honolulu HI 96809

CHASE MANHATTAN BANK DELAWARE
WILMINGTON DE 19801
IN COOPERATION WITH
BANK OF HAWAII

62-26 311

AMOUNT
25.00

THE ESTATE OF JAMES CAMPBELL
1001 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

DATE
APR 24 98

TO THE ORDER OF
Commission on Water Resource Management
P. O. Box 621
Honolulu HI 96809

CHASE MANHATTAN BANK DELAWARE
WILMINGTON DE 19801
IN COOPERATION WITH
BANK OF HAWAII

62-26 311

AMOUNT
25.00
Mr. Timothy Johns  
Deputy Director  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI  96809

Dear Mr. Johns:

Modification of a Portion of EP-10 (Well Nos. 2006-02 thru 06)  
Water Use Permit from Agriculture to Non-Potable Industrial

The Estate of James Campbell (Estate) currently has a water use permit of 5.01 MGD for agriculture use from EP-10. The Estate is requesting a modification of the EP-10 water use permit to allow for 1.44 MGD of the allocation to be used by Chevron Products Company for cooling purposes in their power generation facility at the James Campbell Industrial Park (see enclosed application). If the modification is approved, the existing 5.01 MGD water use permit for the Estate will be made up of 1.44 MGD for industrial use and 3.57 MGD for agricultural use.

Currently, 1.00 MGD of potable water is being supplied by the Board of Water Supply ("BWS") for cooling tower makeup water at Chevron. This substitution of non-potable water containing 400 to 500 PPM chloride from EP-10 for potable water containing 160 PPM or less of chlorides will proceed only if Chevron has certainty that the quality, volume, and cost of the replacement water they are seeking will be continually available. Approval of the permit modification is a part of gaining that certainty. Its approval would also exemplify a commitment to the concept of highest and best use of water that the Commission on Water Resource Management ("CWRM") advocates.

Two 1,000 GPM pumps, installed in two wells at EP-10 (Well Nos. 2006-02 and 06), will be required to meet Chevron’s water requirements. One of these pumps would be on-line continuously and the other would be a standby pump. A water delivery pipeline would be installed from the EP-10 pumping station to the Chevron property (See Exhibit “A”).

Construction of the original pump complex at the current EP-10 pumping station began in 1908, and included three separate pumps (EP-10, EP-11, and EP-12). The combined pumping capacity of EP-10/11/12 was 20 MGD with an average withdrawal potential of about 1,275 GPM from each of the eleven original wells at this location. The proposed 1,000 GPM withdrawal per well is less than the initial average withdrawal per well by OSCo.
If you have any questions, please contact George Hiu at 674-3289 or Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth
Director, Hawaii Development

Enclosure
APPLICATION FOR WATER USE PERMIT

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR WATER USE PERMIT

☐ Ground Water or ☐ Surface Water

Instructions: Please print in ink or type and send completed application with attachments plus 18 copies to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225 (neighbor islands, 1-800-468-4644).

PERMITTEE INFORMATION

1. (a) APPLICANT

Firm Name: The Estate of James Campbell
Contact Person: Donna B. Goth
Address: 1001 Kamokila Boulevard, Kapolei, HI 96707
Phone: Fax: 674-3111

(b) LANDOWNER OF SOURCE

Firm Name: The Estate of James Campbell
Contact Person: Donna B. Goth
Address: 1001 Kamokila Boulevard, Kapolei, HI 96707
Phone: Fax: 674-3111

SOURCE INFORMATION

2. WATER MANAGEMENT AREA: Ewa/Kuia

3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER:

(b) PROPOSED (NEW) WELL/DIVERSION NAME:

(c) LOCATION: Address in Ewa, Hawaii

Tax Map Key 9-1-15: 04

NOTE: (Attach a USGS map, scale 1"=2000", and a property tax map showing source location referenced to established property boundaries.)

4. SOURCE TYPE (check one):

☐ Stream ☐ Basal

☐ Dike-confined ☐ Perched

☐ Caprock

☐ Other (explain)

5. METHOD OF TAKING WATER (check one):

☐ Artesian ☐ Well & Pump

☐ Diverted Surface ☐ Other (explain)

USE INFORMATION

6. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)

(a) PUC-Regulated System ☐ Intended Dedication to Dept./Board of Water Supply ☐ Non-PUC-Regulated Private System

(b) Proposed use of water is:

☐ Existing ☐ New ☐ Both existing & new uses

(c) Tax Map Key: 9-1-14: 10

(If location of use is over multiple TMKs, please complete Table 1 on back of application)

(d) Address: 91-480 Malakole Street, Kapolei, HI 96707 (James Campbell Industrial Park)

(e) Current State Land Use District(s):

☐ Urban ☐ Agriculture ☐ Conservation ☐ Rural

(f) Current County Zoning District(s):

Industrial (I-2)

7. QUANTITY OF WATER REQUESTED: 1,000 gallons per day (averaged over 1 year)

8. METHOD OF MEASUREMENT:

☐ Flowmeter ☐ Open-pipe ☐ Weir ☐ Orifice ☐ Other (explain)

9. QUALITY OF WATER REQUESTED:

☐ Fresh ☐ Brackish ☐ Salt ☐ Potable ☐ Non-Potable

10. PROPOSED USE:

☐ Municipal (including hotels, stores, etc.) ☐ Individual Domestic

☐ Irrigation ☐ Military

☐ Other (explain)

For questions 11 & 12: If multiple TMKs are involved where water is to be used, please complete Table 1 on back of application.

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: N/A

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP:

☐ (acres) ☐ (crop)

13. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:

24 hours per day (daytime hours of operation, ex. 7 a.m. to 2 p.m.)

14. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:

(a) Can be accommodated with the available water source.

(b) Is a reasonable-beneficial use as defined in section 13-171-2, HARS. (see backside of this application)

(c) Will not interfere with any existing legal use.

(d) Is consistent with the public interest.

(e) Is consistent with state and county general plans and land use designations.

(f) Is consistent with county land use plans and general policies.

15. REMARKS, EXPLANATIONS: (see backside of this application)

NOTE: Signing below indicates that the signatories understand and swear that: 1) the information provided on this application is accurate and true to the best of the their knowledge; 2) Item 14 is the responsibility of the applicant prior to Commission approval; 3) If necessary, further information may be required before the application is considered complete; 4) If a water use permit is granted by the Commission, this permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses; and 5) Upon permit approval, a water shortage plan must be submitted by the applicant should the Commission require one.

Applicant (print): The Estate of James Campbell
Signature: Donna B. Goth, Director, Hawaii Dep.
Date: 4/2/99

Landowner (print): The Estate of James Campbell
Signature: Donna B. Goth, Director, Hawaii Dep.
Date: 4/2/99

WUPAFORM(8/27/96)
"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

15. REMARKS, EXPLANATIONS (cont'd):
14. To the best of my knowledge, the proposed use will meet all of these conditions.
15. By utilizing 1,000 gpm of non-potable water from EP-10 for Chevron's cooling tower makeup water, it would be possible to release the currently used 700 gpm of BWS potable water for domestic use on Oahu.

<table>
<thead>
<tr>
<th>TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJECT NAME</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>Chevron Cooling Tower Make-Up Water New Non-potable I-2 N/A 1,440,000 1,440,000 1,440,000 1,440,000 1,440,000 gal./day</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TOTAL GPD</td>
</tr>
</tbody>
</table>
Mr. Kenneth Williams  
West Beach Estates  
91-100 Kamoana Place  
Ewa Beach, HI 96707

Dear Mr. Williams:

Applications for Water Use Permit and  
Well Construction/Pump Installation Permit  
EP 10 (Well Nos. 2006-01,02,10)  
Ewa-Kunia Groundwater Management Area, Oahu

By their letters dated February 9, 1995 and May 3, 1995, The Estate of James Campbell has withdrawn their signature as landowner, which renders the above applications incomplete. As such, please find enclosed your applications which we are returning to you for your records.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LN:ss  
Attach.
Ms. Donna B. Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707

Dear Ms. Goth:

Water Use Permit Applications  
Waipahu-Waiawa and Ewa-Kunia Ground Water Management Areas, Oahu

We have confirmed, with George Hiu of your staff, that you no longer wish to proceed with the water use permit applications that were submitted on May 9 and 20, 1994, for the following sources in the Waipahu-Waiawa and Ewa-Kunia ground water management areas:

- EP 5, 6 (Well Nos. 2202-03 to 14)
- EP 7, 8 (Well Nos. 2202-15 to 20)
- EP 15, 16 (Well No. 2202-21)
- EP 10 (Well Nos. 2006-01 to 11)

As such, please find enclosed the original applications which we are returning to you for your record. A copy of your applications will be kept in our files.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss  
Attachments
APPLICATION FOR WATER USE PERMIT

Ground Water or Surface Water

PERMITTEE INFORMATION

1. (a) APPLICANT

Firm/Name: The Estate of James Campbell
Contact Person: Donna Goth
Address: 1001 Kapolei Boulevard
Kapolei, HI 96707

(b) LANDOWNER OF SOURCE

Firm/Name: The Estate of James Campbell
Contact Person: Donna Goth
Address: 1001 Kapolei Boulevard
Kapolei, HI 96707

SOURCE INFORMATION

2. WATER MANAGEMENT AREA: Ewa/Kunia

3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER: EP-10; Well No. 2006-01 through 11

(b) PROPOSED (NEW) WELL/DIVERSION NAME: EP-10

(c) LOCATION: Address: Kapolei, HI

USGS Tax Map Key: 9-1-15-4

4. SOURCE TYPE (check one): □ Stream □ Artesian □ Wall & Pump □ Diverted Surface □ Other (explain)

5. METHOD OF TAKING WATER (check one): □ Artesian □ Wall & Pump □ Diverted Surface □ Other (explain)

USE INFORMATION

6. LOCATION OF PROPOSED WATER USE: (If possible, show on same map as source location. Otherwise, attach similar maps)

(a) Proposed use of water is: □ Existing □ New □ Both existing & new uses

(b) Tax Map Key: See Table 1. (If location of use is over multiple TMKs, please complete Table 1 on back of application)

(c) Address: Ewa

(d) Current Land Use District: □ Urban □ Agriculture □ Conservation □ Rural

(e) Current County Zoning Code: AG-1; AG-2; I-2

7. QUANTITY OF WATER REQUESTED: 3,258,000 gallons per day (averaged over 1 year)

8. METHOD OF MEASUREMENT: □ Flowmeter □ Open-pipe □ Wier □ Office □ Other (explain)

9. QUALITY OF WATER REQUESTED: □ Fresh □ Brackish □ Salt □ Potable □ Non-Potable

10. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Other (explain)

□ Industrial □ Military □ Other (explain)

For questions 12 & 13: If multiple TMKs are involved, please complete Table 1 on back of application.

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: 543 Various

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP: 24 hours per day (daytime hours of operation, ex. 7 a.m. to 2 p.m.)

13. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day (daytime hours of operation, ex. 7 a.m. to 2 p.m.)

14. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON WATER USE:

(a) Impact on Sustainable yield (?): None

(b) Instream Flow Standards affected (?): None

(c) Hawaiian Home Lands use affected (?): None

(d) Other existing legal uses affected (?): None

(e) Other (pending permits, EIS, etc.) (?): None

15. REMARKS, EXPLANATIONS: This is a continuation in use of this water for irrigation and is the only certain source of irrigation water we have. EP-10 has been supplying irrigation water to

If more space is needed, continue on back side

Application (print): The Estate of James Campbell
Signature: Donna Goth, Director, Hawaii Development
Date:

For Official Use Only:
Date Received
Date Accepted

Hydrologic Unit No.

Landowner (print): The Estate of James Campbell
Signature: Donna Goth, Director, Hawaii Development
Date:
The estimated water requirement of 6,000 gallons per day per acre (GPD/acre) is an approximate average of water consumption for the wide variety of crops that will be grown on these lands. As indicated in your Table 4-4 "Oahu Water Requirements Forecast for Selected crops" (see Attachment 1), the range in GPD/acre water requirements for some of our potential crops is as follows:

<table>
<thead>
<tr>
<th>Crops</th>
<th>GPD/acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Feed and forage</td>
<td>7,700</td>
</tr>
<tr>
<td>2) Solanaceous and cucurbit crops</td>
<td>6,700</td>
</tr>
<tr>
<td>3) Leafy vegetables</td>
<td>4,725</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>6,375</strong></td>
</tr>
</tbody>
</table>

The arithmetic average of this grouping is 6,375 GPD/acre, so it appears that our estimated water requirement of 6,000 GPD/acre is in line with stated crop requirements.

The two columns in Table 4-4 that are of interest to Campbell Estate are "Crop" and "Gal/Ac/Day". The rest of the table refers to a forecast of acres per crop and MGD per crop up through 2010. These figures do not include our diversified agricultural cropping areas from ex-OsCo sugar lands.

### TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>TMK</th>
<th>CURRENT COUNTY ZONING CODE</th>
<th>UNITS NET ACRES</th>
<th>GPD/UNIT GPD/ACRE</th>
<th>TOTAL GPD</th>
<th>% OF TOTAL TO BE USED OVER NEXT 4 YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well No. 2006-01 thru 11</td>
<td>9-1-15:1</td>
<td>AG-2, 1-2</td>
<td>163</td>
<td>6,000</td>
<td>978,000</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>9-1-15:4</td>
<td>AG-1</td>
<td>380</td>
<td>6,000</td>
<td>2,280,000</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>543</td>
<td>3,258,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------</td>
<td>------------</td>
<td>---------------</td>
<td>---------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>SUGARCANE (a)</td>
<td>6,800</td>
<td>24,300</td>
<td>21,981</td>
<td>19,838</td>
<td>17,905</td>
<td>16,159</td>
</tr>
<tr>
<td>PINEAPPLE (b)</td>
<td>1,000</td>
<td>13,002</td>
<td>12,229</td>
<td>10,910</td>
<td>9,734</td>
<td>8,584</td>
</tr>
<tr>
<td>AQUACULTURE (II)</td>
<td>36,000</td>
<td>403</td>
<td>550</td>
<td>630</td>
<td>710</td>
<td>791</td>
</tr>
<tr>
<td>FLORICULTURE &amp; NURSERY TOTAL (a/c/d)</td>
<td>7,400</td>
<td>493</td>
<td>614</td>
<td>702</td>
<td>790</td>
<td>878</td>
</tr>
<tr>
<td>FOLIAGE PLANTS</td>
<td>5,000</td>
<td>144</td>
<td>202</td>
<td>223</td>
<td>241</td>
<td>255</td>
</tr>
<tr>
<td>DENDROBIUM ORCHID</td>
<td>3,500</td>
<td>67</td>
<td>78</td>
<td>91</td>
<td>103</td>
<td>115</td>
</tr>
<tr>
<td>PROTEA</td>
<td>2,250</td>
<td>9</td>
<td>12</td>
<td>13</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>BANANA (u)</td>
<td>3,019</td>
<td>540</td>
<td>711</td>
<td>834</td>
<td>957</td>
<td>1,080</td>
</tr>
<tr>
<td>GUAVA (d)</td>
<td>4,400</td>
<td>373</td>
<td>401</td>
<td>577</td>
<td>662</td>
<td>748</td>
</tr>
<tr>
<td>MACADAMIA NUTS (b)</td>
<td>4,400</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PAPAYA (d)</td>
<td>5,000</td>
<td>46</td>
<td>70</td>
<td>78</td>
<td>82</td>
<td>89</td>
</tr>
<tr>
<td>PASSION FRUIT</td>
<td>10,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Note:** This guideline was prepared by the Dept. of Agriculture and is included in the Oahu Water Management Plan.
Ms. Donna B. Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Thank you for disclosing the non-agricultural uses of water being supplied by the following groundwater sources:

EP 3, 4  (Well Nos. 2102-02, 04 to 22)
EP 5, 6  (Well Nos. 2202-03 to 14)
EP 7, 8  (Well Nos. 2202-15 to 20)
EP 10  (Well Nos. 2006-01 to 11)
EP 15, 16  (Well No. 2202-21)

The water use permits for these sources have been transferred from Oahu Sugar Company to The Estate of James Campbell, effective December 26, 1994. Please inform us when the non-agricultural uses of EP 8 are discontinued or if you should become aware of any other non-agricultural uses of these facilities.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
Ms. Donna Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707

Dear Ms. Goth:

Thank you for your letter of January 25, 1995 informing us of the transfer of water use permits for five (5) groundwater sources in the Pearl Harbor Groundwater Management Area from Oahu Sugar Company to The Estate of James Campbell, effective December 26, 1994.

Our records show that adjustments to the allocations specified in the water use permits for these sources were approved at the Commission on Water Resource Management (Commission) meeting of January 16, 1992. The water use permit for Well Nos. 2202-15 to 20 was further modified at the October 19, 1994 Commission meeting. At present, the allocations for these permits are as follows:

- EP 3, 4 (Well Nos. 2102-02, 04 to 22) 3.304 mgd
- EP 5, 6 (Well Nos. 2202-03 to 14) 8.000 mgd
- EP 7, 8 (Well Nos. 2202-15 to 20) 6.113 mgd
- EP 10 (Well Nos. 2006-01 to 11) 5.010 mgd
- EP 15, 16 (Well No. 2202-21) 12.154 mgd

Pursuant to the January 16, 1992 Commission action, please be advised that these water use permits will be subject to review and possible adjustment in 1995.

Permits may be transferred under Section 174C-59 provided that "[t]he conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same". Accordingly, your letter states that the conditions of use will remain the same in that the lands previously irrigated for agriculture will continue to be irrigated by these sources. If there are any non-agricultural uses of these sources, including other irrigation uses (i.e. landscape, golf courses, etc.), we request that these uses be identified for each source. Please submit this information in writing no later than March 20, 1995. If there are no non-agricultural uses, please confirm this in writing by the March 20, 1995 deadline. The transfer of the above permits will be complete upon receipt of your written response.
Lastly, enclosed please find our official water use report form. Please use this form to report your monthly total water usage. Monthly water use reporting is a condition of the water use permits and is required under Administrative Rule 13-168-7.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
Enclosure

c: Bert Hatton, Oahu Sugar Co.
    George Hiu, The Estate of James Campbell
### MONTHLY GROUND WATER USE REPORT FOR

**THE ESTATE OF JAMES CAMPBELL**  
1001 KAMOKILA BLVD.  
KAPOLEI, HI 96707

Month of __________, 19__

Date Measurement(s) Taken  
__/__/__  
(Month / Day / Year)

**INSTRUCTIONS:** Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu HI 96806. For assistance, please call 587-0265 (Oahu only) or 1-800-468-4644 (neighbor islands).

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Water Level (ft. above msl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100-03, 04 to 22</td>
<td>EP 3.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2200-08 to 14</td>
<td>EP 6.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2300-15 to 30</td>
<td>EP 7.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000-01 to 11</td>
<td>EP 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2300-21</td>
<td>EP 15,18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other comments or additional information:

Submitted by (print) ________________________________  
Title ________________________________  
Signature ________________________________  
Date ________________________________
Ms. Rae M. Loui  
Deputy Director  
Department of Land and Natural Resources  
Commission on Water Resource Management  
1151 Punchbowl St., Room 227  
Honolulu, HI 96813

Dear Ms. Loui:

West Beach Estates Water Use Permit and Pump Installation Permit  

On February 9, 1995, we sent a letter to Chairperson Michael Wilson of the Commission on Water Resource Management (CWRM), indicating that West Beach Estates’ right to use EP 10/Gilbert Pumps had terminated and therefore, their applications regarding EP10/Gilbert Pumps that were pending action by the Water Commission should be amended accordingly. A copy of our letter to Mr. Wilson is attached.

We have noted, however, that the May issue of CWRM’s Water Resource Bulletin contains permit applications by West Beach Estates that reference EP 10/Gilbert Pumps as the source. Accordingly, we request these applications be corrected with regard to the reference to EP 10/Gilbert Pumps to prevent any issuance of improper permits to West Beach Estates.

If you have any questions on this matter, please contact George Hiu at 674-3289.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

Attachment  
cc: Bill Blaisdell
February 9, 1995

Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, HI 96809

Dear Mr. Wilson:

Re: Application for Water Use Permit for West Beach Estates

On or about November 1, 1994, West Beach Estates filed an Application for Water Use Permit with the Commission on Water Resource Management requesting an allocation of 1,636,000 gallons per day of brackish water which would be obtained from State Well Nos. 2006 to 2011 (EP10/Gilbert Pumps). This water source, which will be referred to in this letter as "Pump 10", is located on lands owned by the Campbell Estate which signed the Application as landowner.

At the time the Application was filed, West Beach Estates had rights to use water from Pump 10 under an Agreement on Water Usage between the Campbell Estate and West Beach Estates dated December 1, 1986. However, West Beach Estates' rights to Pump 10 under the Agreement on Water Usage have now terminated. As a result, West Beach Estates no longer has any rights to use water withdrawn from Pump 10 and therefore its pending Application should be amended accordingly.

Please call me at 674-3229 if you have any further questions regarding this matter.

Very truly yours,

Donna B. Goth
Director, Hawaii Development

cc: William Blaisdell, General Manager,
West Beach Estates
By this letter, Campbell is withdrawing their signature as landowner for well site. This invalidates water heater WPA. They need to reapply.

No response necessary.
Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, HI 96809

Dear Mr. Wilson:

Re: Application for Water Use Permit for West Beach Estates

On or about November 1, 1994, West Beach Estates filed an Application for Water Use Permit with the Commission on Water Resource Management requesting an allocation of 1,636,000 gallons per day of brackish water which would be obtained from State Well Nos. 2006 to 2011 (EP10/Gilbert Pumps). This water source, which will be referred to in this letter as "Pump 10", is located on lands owned by the Campbell Estate which signed the Application as landowner.

At the time the Application was filed, West Beach Estates had rights to use water from Pump 10 under an Agreement on Water Usage between the Campbell Estate and West Beach Estates dated December 1, 1986. However, West Beach Estates' rights to Pump 10 under the Agreement on Water Usage have now terminated. As a result, West Beach Estates no longer has any rights to use water withdrawn from Pump 10 and therefore its pending Application should be amended accordingly.

Please call me at 674-3229 if you have any further questions regarding this matter.

Very truly yours,

Donna B. Goth
Director, Hawaii Development

cc: William Blaisdell, General Manager,
West Beach Estates
Mr. Kenneth Williams  
West Beach Estates  
91-100 Kamoana Place  
Ewa Beach, HI 96707

Dear Mr. Williams:

Applications for Water Use Permit and  
Well Construction/Pump Installation Permit  
EP 10 (Well Nos. 2006-01,02,10)  
Ewa-Kunia Groundwater Management Area, Oahu

For your review and record, please find attached a copy of the comments from the  
Honolulu Board of Water Supply on the above applications.

Please notify our office when you wish to re-activate these applications. Upon receipt of  
verbal or written notification, we will proceed to schedule a date for Commission action.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss  
Attach.

c: Cheryl D. Soon, City and County of Honolulu, Planning Dept.  
Raymond Sato, Honolulu Board of Water Supply
MEMORANDUM

Ref: LM:NV

TO: Rae M. Loui, Deputy Director
   Commission of Water Resource Management

FROM: Cecil Santos, Oahu District Land Agent
       Land Management Division

SUBJECT: Water Use Permit and Pump Installation Permit Application for West Beach Estates for Well Nos. 2006-01 to 11, Ewa-Kunia Groundwater Management Area, Oahu

The Department of Land and Natural Resource (DLNR) Land Management Division (LMD) Oahu District has reviewed the subject application.

The proposed project does not affect or significantly impact on State-owned land, managed by DLNR Land Management Division.

Thank you for allowing us the opportunity to review and comment on the proposed project. Should you have any questions, please contact Nicholas Vaccaro at 587-0433.
March 20, 1995

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Water Use Permit Application
for West Beach Estates,
Wells No. 2006-01 to 11

Enclosed are comments from the Board of Water Supply (BWS) on the subject application. They were received after we transmitted the agency comments to you on January 17, 1995.

Should you have any questions, please call Eugene Takahashi of our staff at 527-6022.

Sincerely,

CHERYL D. SOON
Chief Planning Officer

CDS:lh
Enclosure

cc: The Honorable Jeremy Harris, Mayor
(Mayor’s Control No. 21264)
TO: CHERYL D. SOON, CHIEF PLANNING OFFICER  
PLANNING DEPARTMENT 

FROM: RAYMOND H. SATO, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY 

SUBJECT: WATER USE AND PUMP INSTALLATION PERMIT APPLICATIONS FOR WEST BEACH ESTATES FOR WELLS 2006-01 TO 11, EP-10, GILBERT

March 3, 1995

We rescind our previous comments regarding the applications. We have no objections regarding the use of the wells for irrigation purposes as we have no plans to develop any potable water further inland for higher and better uses.

There is no certainty that wells can be developed further inland and therefore, if the brackish water wells can be used for identified developments, we believe that they should be allowed to use the water.

If you have any questions, please contact Herbert H. Minakami at 6183.

cc: Community Planning, Inc.
Mr. Kenneth Williams
West Beach Estates
91-100 Kamoana Place
Ewa Beach, Hawaii 96707

Dear Mr. Williams:

For your review and record, please find attached comments from the Planning Department and Board of Water Supply, City and County of Honolulu, on your applications for water use and pump installation permits for Well Nos. 2006-01, 02 & 10.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

LN:ky

Attachments
January 17, 1995

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Water Use Permit Application for
West Beach Estates, Wells No. 2006-01 to 11

Thank you for the opportunity to review and comment on the subject application. The comments of the Board of Water Supply (BWS) are attached.

The proposed Ko'Olina Resort Development and the golf courses are shown on the Ewa Development Plan Land Use Map (DPLUM). The DP policy on the irrigation of golf courses is to promote water conservation by the use of non-potable water sources for irrigation. BWS comments indicate that fresh water could be available from this groundwater source. We strongly recommend that the Commission consider resiting the wells to optimize the withdrawal of fresh water.

Should you have any questions, please call Eugene Takahashi of our staff at 527-6022.

Sincerely,

CHERYL D. SOON
Acting Chief Planning Officer

CDS:lh

Attachment

cc: The Honorable Jeremy Harris, Mayor
    (Mayor's Control No. 21264)
January 6, 1995

TO:  
CHERYL D. SOON, CHIEF PLANNING OFFICER
PLANNING DEPARTMENT

FROM:  
RAYMOND H. SATO, ACTING MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY

SUBJECT:  WATER USE AND PUMP INSTALLATION PERMIT APPLICATIONS BY WEST BEACH ESTATES FOR WELLS 2006-01 TO 11, EP-10 GILBERT

Thank you for the opportunity to comment on the permit applications to use the water for "various" urban uses--such as for landscape and golf course irrigation. It should be noted that these wells are in the Waianae basal aquifer in competition with existing sources. Although the wells are brackish, the water is a mix of approximately 98 percent fresh water and two percent sea water. Of the requested 1.636 mgd, the pumpage represents 1.472 mgd fresh water which could be developed further inland for higher and best uses.

If you have any questions, please call Herbert H. Minakami at 527-6183.

cc: Mayor Jeremy Harris
Mr. Dante K. Carpenter  
Office of Hawaiian Affairs  
711 Kapiolani Blvd., Suite 500  
Honolulu, HI 96813  

Dear Mr. Carpenter:  

This is in response to your review comments, dated January 5, 1995, on the application for a water use permit by West Beach Estates for EP 10 (Well Nos. 2006-01, 02, & 10).  

Please be aware that, at the time that a new application is sent for your review and comment, a complete picture of potential impacts on: (i) other legal uses, (ii) the aquifer, and (iii) the environment is generally not available. The public review process is a means by which any such issues and concerns can be raised. Aquifer-related impacts are assessed by technical staff of the Commission. The results of the staff’s analysis are included in the submittal to the Commission, along with any issues brought forth as a result of the public review process.  

If the Office of Hawaiian Affairs (OHA) has a specific legal interest in the water being requested by West Beach Estates or any future applicant, you must clearly identify and describe the nature of OHA’s interest.  

With regard to your concerns that adequate provisions be made for future uses, we recommend that you coordinate with the County Department of General Planning so that your plans may be incorporated in the Oahu Water Use and Development Plan, the document which provides guidance to the Commission in decision-making on water allocations.  

If you have any questions, please contact Ms. Rae Loui at 587-0214.  

Very truly yours,  

Michael D. Wilson  
Deputy
Mr. Kenneth Williams
West Beach Estates
91-100 Kamoana Place
Ewa Beach, HI 96707

Dear Mr. Williams:

For your review and record, please find attached comments from Gentry Development Company (Gentry) on your applications for water use and pump installation permits for Well Nos. 2006-01, 02, & 10. A copy of our response to Gentry’s request for a public hearing will be forwarded to you.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

Attachment

c: Donna Goth, The Estate of James Campbell
Mr. Norm Dyer
Gentry-Pacific, Ltd.
P.O. Box 295
Honolulu, HI  96809

Dear Mr. Dyer:

We acknowledge receipt, on January 26, 1995, of your comments on West Beach Estates’ (WBE) applications for water use permit and pump installation permit for EP 10 (Well Nos. 2006-01, 02, & 10).

Your comments will be included in the staff’s submittal of WBE’s applications to the Commission on Water Resource Management (Commission). We recommend that a representative from The Gentry Companies attend the action meeting to provide testimony. Your request for a public hearing may be submitted directly to the Commission at that time.

WBE has requested that Commission action on their applications be deferred until further notice. Please review the agendas for upcoming Commission meetings for notice of action on the applications. If you wish to be included on the distribution list to receive Commission agendas, please call 587-0226.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss

c:  Kenneth Williams, West Beach Estates
    Donna Goth, The Estate of James Campbell
Ms. Rae Loui  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

Re: Comments on West Beach Estates’ Water Use and Pump Installation Permit Applications - Wells 2006-01 to -11 in the Ewa-Kunia Aquifer

Dear Ms. Loui:

Gentry Development Company hereby requests a public hearing on the Water Use and Pump Installation permit applications of West Beach Estates for the EP 10 battery of wells (Nos. 2006-01 to -11). These wells tap into the limited available supply of the Ewa-Kunia basalt aquifer.

Gentry, as one of the four members of the Ewa Plain Water Development Corporation (EPWDC), has pending applications for Honouliuli Wells 7, 8 and 9 (Nos. 2303-07 to -09). These applications were submitted prior to West Beach’s for EP 10. EPWDC’s applications are for drinking water supply, not the landscape irrigation envisioned by West Beach’s application. West Beach is also a member of EPWDC. Its pursuit of groundwater supply outside of the EPWDC organization violates EPWDC’s Ewa Water Facilities Agreement.

It is our understanding that Campbell Estate has applied for a transfer of 3.2 MGD of OSCo’s EP 10 allocation for diversified agriculture. If this transfer and West Beach’s permit are granted, there would be an insufficient remaining supply in the
aquifer for EPWDC's pending application. For all these reasons, Gentry respectfully requests that a public hearing be held at which time these concerns can be fully addressed.

Sincerely,

GENTRY DEVELOPMENT COMPANY
By: Its General Partner,
Gentry-Pacific, Ltd.

[Signature]
Norm Dyer
President
Mr. Kenneth Williams
West Beach Estates
91-100 Kamoana Place
Ewa Beach, HI 96707

Dear Mr. Williams:

Applications for Water Use Permit and
Well Construction/Pump Installation Permit
EP 10 (Well Nos. 2006-01,02,10)
Ewa-Kunia Groundwater Management Area, Oahu

Pursuant to the discussion on January 18, 1995 with Lenore Nakama of my staff, action by the Commission on Water Resource Management (Commission) on the above applications will not be scheduled at this time. Please notify our office when you wish to re-activate these applications. Upon receipt of verbal or written notification, we will proceed to schedule a date for Commission action.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

LN:ss
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
Department of Land & Natural Resources  
P. O. Box 621  
Honolulu, HI 96809

Re: Transfer of Certain Water Use Permits held by  
Oahu Sugar Co. to The Estate of James Campbell

January 18, 1995

Dear Ms. Loui:

This letter will notify the Commission on Water Resource Management of the transfer, as of December 26, 1994, of Oahu Sugar Company, Limited’s (“OSCo”) water use permits to The Estate of James Campbell (“Estate”) for Wells EP 3, 4 (Well Nos. 2101-02, 04 to 22); EP 5, 6 (Well Nos. 2202-03 to 14); EP 7, 8 (Well Nos. 2202-15 to 20; EP 10 (Well Nos. 2206-01 to 11); and EP 15, 16 (Well Nos. 2202-21). This transfer was made possible in connection with a December 26, 1994 agreement with OSCo for early surrender of portions of the OSCo lease. (See attached agreement)

This notification of the transfer of the permits for the use of water associated with the above wells is made pursuant to Section 174C-59 of the State Water Code.

As we mentioned to you in our letter of October 2, 1994, the conditions of use of the permits will remain the same; the lands previously irrigated for agriculture will continue to be irrigated by these sources and the amounts of usage shall not increase. To the extent the Estate becomes aware of future changes or the need for changes in place, quantity or purpose of use for any of these permits, the Estate shall follow through with permit modification requests to the Commission pursuant to the State Water Code.

The Estate would appreciate the Commission’s acknowledgement of receipt of this notification of the transfer.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

ks:01034600\K10156
December 26, 1994

Trustees Under the Will and of The
Estate of James Campbell, Deceased
1001 Kamokila Boulevard
Kapolei, Hawaii 96707

Re: Oahu Sugar Company, Limited ("OSCO") Lease dated January 2, 1929,
as amended ("Lease"), with The Trustees under the Will and of the
Estate of James Campbell, Deceased (the "Estate"): Transfer of Oahu
Sugar Company Water Permits

Gentlemen:

In anticipation of the termination of our Lease with the Estate, we have agreed to
formally evidence the transfer to the Estate of water permits held in OSCO's name. These
permits, and the allocations of water they represent, are for the withdrawal of water from the
wells and water sources listed in Exhibit A attached hereto. The transfer includes all permits
and rights associated with the permits for water use issued to OSCO by the Commission on
Water Resource Management ("Water Commission") pursuant to the State Water Code (Chapter
174C, HRS) or previously issued pursuant to the provisions of the Ground Water Use Act
(Chapter 177, HRS), as well as all existing preserved uses of water from the wells and water
sources, and any other permits, rights, or privileges appropriate to the continued use and
operation of such wells and water sources ("Permits"). OSCO represents that it has not
previously transferred or encumbered the Permits.

By our execution of this letter, and for good and sufficient consideration received by
OSCO, OSCO hereby transfers, delivers, and assigns to the Estate the Permits and all rights and
privileges of OSCO in and to the water from the wells and water sources referred to in the
Permits. Such transfer and assignment shall be fully effective December 26, 1994.

By its execution of this letter, the Estate agrees to notify the Water Commission of this
transfer, as required by law. If the Estate desires to modify any of the Permits, the Estate will
make any necessary applications at its own expense. Upon the Estate's request, OSCO agrees
to cooperate with the Estate, if necessary, in its application for such modifications.
Trustees Under the Will and of The
Estate of James Campbell, Deceased
December 26, 1994
Page 2

Please evidence the Estate's acceptance of the terms of this letter and of the transfer
referred to above by returning an executed copy of this letter to OSCO.

Very truly yours,

OAHU SUGAR COMPANY, LTD.

By: ____________________________
   Its Vice President

ACCEPTED:

TRUSTEES UNDER THE WILL AND OF
THE ESTATE OF JAMES CAMPBELL,
DECEASED, acting in their fiduciary and not
in their individual/corporate capacities

[Signatures]

[Approved Non Standard Form]
Contents: ____________________________
Checked: ____________________________
Approved: ____________________________
Date: 12/22/94
EXHIBIT A

All permits, including all extensions, modifications and renewals thereof, issued by the Department of Land and Natural Resources of the State of Hawaii or the Commission on Water Resource Management of the State of Hawaii for the use and withdrawal of water from the wells and water sources listed below on the lands originally leased by Oahu Sugar Company, Ltd. from the Trustees Under the Will and of the Estate of James Campbell, Deceased and all rights, and privileges necessary or appropriate to the continued withdrawal and use of water from such wells and water sources, and together with all existing preserved uses of such wells and water sources:

<table>
<thead>
<tr>
<th>WELL NAME</th>
<th>STATE WELL NO.(S)</th>
<th>ORIGINAL PERMIT DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. EP - 3/4</td>
<td>2102-02, 04 to 22</td>
<td>August 12, 1985</td>
</tr>
<tr>
<td>2. EP - 5/6</td>
<td>2202-03 to 14</td>
<td>August 12, 1985</td>
</tr>
<tr>
<td>4. EP - 10</td>
<td>2006-01 to 11</td>
<td>August 12, 1985</td>
</tr>
<tr>
<td>5. EP - 15/16</td>
<td>2202-21</td>
<td>September 11, 1986</td>
</tr>
</tbody>
</table>
January 17, 1995

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Water Use Permit Application for
West Beach Estates, Wells No. 2006-01 to 11

Thank you for the opportunity to review and comment on the subject application. The comments of the Board of Water Supply (BWS) are attached.

The proposed Ko‘Olina Resort Development and the golf courses are shown on the Ewa Development Plan Land Use Map (DPLUM). The DP policy on the irrigation of golf courses is to promote water conservation by the use of non-potable water sources for irrigation. BWS comments indicate that fresh water could be available from this groundwater source. We strongly recommend that the Commission consider resiting the wells to optimize the withdrawal of fresh water.

Should you have any questions, please call Eugene Takahashi of our staff at 527-6022.

Sincerely,

CHERYL D. SOON
Acting Chief Planning Officer

CDS:lh

Attachment

cc: The Honorable Jeremy Harris, Mayor
(Mayor’s Control No. 21264)
January 6, 1995

TO:            CHERYL D. SOON, CHIEF PLANNING OFFICER
               PLANNING DEPARTMENT

FROM:         RAYMOND H. SATO, ACTING MANAGER AND CHIEF ENGINEER
              BOARD OF WATER SUPPLY

SUBJECT: WATER USE AND PUMP INSTALLATION PERMIT APPLICATIONS BY WEST
          BEACH ESTATES FOR WELLS 2006-01 TO 11, EP-10 GILBERT

Thank you for the opportunity to comment on the permit applications to use the water for "various" urban uses—such as for landscape and golf course irrigation. It should be noted that these wells are in the Waianae basal aquifer in competition with existing sources. Although the wells are brackish, the water is a mix of approximately 98 percent fresh water and two percent sea water. Of the requested 1.636 mgd, the pumpage represents 1.472 mgd fresh water which could be developed further inland for higher and best uses.

If you have any questions, please call Herbert H. Minakami at 527-6183.

cc: Mayor Jeremy Harris
TO:                 Aquatic Resources  
                   Forestry and Wildlife/Natural Area Reserve System  
                   Historic Preservation  
                   Land Management  
                   Office of Conservation and Environmental Affairs  
                   State Parks  
                   Water and Land Development  

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

SUBJECT: Request for Comments  
         Applications for Water Use Permit and Pump Installation Permit  
         Ewa-Kunia Ground Water Management Area, Oahu  

Transmission for your review and comment are copies of the applications for water use permit and pump installation permit for **West Beach Estates** for Well Nos. **2006-01 to 11**. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of **December 21, 1994 and December 28, 1994**.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. **Please return this cover memo form by January 12, 1995.**

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

LN: ss  
Attachment(s)  

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

Contact person: Steve Tagawa  

Signed: ___________  
Date: ___________
January 05, 1994

Mr. Mike Wilson
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Wilson:

Thank you for the opportunity to review the water use permit application for West Beach Estates for Wells No. 2006-01 to 11. West Beach Estates is requesting 1.6 million gallons of water per day from the Pearl Harbor, Ewa-Kunia aquifer.

Consistent with its position of opposing to the allocation of large amounts of water without having a clear picture of potential impacts on: (i) other users, (ii) the aquifer itself (impact on sustainability and quality), and (iii) the environment (on- and off-site impacts derived from the use), OHA once again urges the Commission to halt the granting of this water use permit.

The Office of Hawaiian Affairs is also adamant to the granting of water use permits without a masterplan that reflects current Oahu realities. As the Commission is aware, the island of Oahu is experiencing dramatic changes in land and water use which requires a comprehensive long-term water resources masterplan.
This masterplan must have clear-cut provisions for allocating water reserves for uses and for users which presently have virtually no access to existing water resources. Without such a framework, there is a danger that water allocations like that requested by Campbell Estate will further perpetuate unequal access and use of water resources.

Sincerely yours,

Dante K. Carpenter
Administrator

IM: lm
cc: BOT
TO: Honorable Hoaliku L. Drake, Director  
Department of Hawaiian Home Lands  
Dr. Peter A. Sybinsky, M.D., Director  
Department of Health  
Mr. Clayton H. W. Hee, Chairperson  
Office of Hawaiian Affairs  
Mr. Kazu Hayashida, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Donald A. Clegg, Director  
Department of Land Utilization  
Ms. Cheryl Soon, Chief Planning Officer  
Planning Department

FROM: Keith W. Ahue, Chairperson  
Commission on Water Resource Management

SUBJECT: Applications for Water Use Permit and Pump Installation Permit  
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, or objectives specific to your organization or department only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

Attachment(s)

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

Contact person: Luis A. Manrique  
Phone: [redacted]  
Signed: [redacted]  
Date: 01/05/95

(If more space is needed, continue on back)
January 6, 1995

Mr. Michael Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Subject: Your Letter of December 20, 1994 on the Water Use and Pump Installation Permit Applications by West Beach Estates for Wells 2006-01 to 11, EP 10 Gilbert

Thank you for the opportunity to comment on the permit applications to use the water for "various" urban uses--such as for landscape and golf course irrigation. It should be noted that these wells are in the Waianae basal aquifer in competition with existing sources. Although the wells are brackish, the water is a mix of approximately 98 percent fresh water and two percent sea water. Of the requested 1.636 mgd, the pumpage represents 1.472 mgd fresh water which could be developed further inland for higher and best uses.

Enclosed is the cover memo accordingly marked. If you have any questions, please call Herbert H. Minakami at 527-6183.

Very truly yours,

[Signature]
RAYMOND H. SATO  
Acting Manager and Chief Engineer

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

FROM: Manabu Tagomori, Manager-Chief Engineer, DOWALD

SUBJECT: Request for Comments
Applications for Water Use Permit and Pump Installation Permit
Ewa-Kunia Ground Water Management Area

We do not have any objections to this water use permit application for 1,636,000 gpd or brackish water for irrigation (golf courses and landscape) purposes. However, for your information a number of potable water wells are programmed and planned by DOWALD and BWS in their Capital Improvement Programs (CIP) for the Waipahu/Ewa-Kunia area. The 1995-97 biennium CIP submittal to the State Legislature for DLNR includes the design, construction and development of a "Leeward Potable Water Well" project ($3.6 million).

ME:ek
TO: Aquatic Resources
    Forestry and Wildlife/Natural Area Reserve System
    Historic Preservation
    Land Management
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development

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

SUBJECT: Request for Comments
          Applications for Water Use Permit and Pump Installation Permit
          Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

Response:
1/03/95
(✓) We have no comments
(✓) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact person: Wayne Ching, Res. Mgmt. Forester
Signed: MICHAEL G. BUCK

Phone: 
Date: 1/3/95
December 29, 1994

MEMORANDUM

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

FROM: Don Hibbard, Administrator
       Historic Preservation Division

SUBJECT: Application for Water Use Permit and Pump Installation
         Permit for West Beach Estates for Well Nos. 2006-01 to 11
         Ewa-Kunia Ground Water Management Area, Oahu
         Honouliuli, Ewa, O'ahu
         TMK: 9-1-15:004

Thank you for the opportunity to review this project. The applicant proposes to use water from an existing source and replace an existing well pump. Since an approved permit will not authorize any ground disturbing activities we believe that there will be "no effect" on historic sites.

EJ: jk
Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, or objective specific to your organization or department only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

Attachment(s)

Response:

☑ We have no comments

☐ We have no objections

☐ Comments attached

☐ Additional information requested

☐ Extended review period requested

Contact person: Bill Wong

Signed: Bill Wong
SUBJECT: Request for Comments
Applications for Water Use Permit and Pump Installation Permit
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)
Response:

☑ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Contact person: [Signature]
Signed: [Signature]
Phone: [Redacted]
Date: 12/30/94
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Commission on Water Resource Management
Honolulu, Hawaii

TO: Aquatic Resources
Forestry and Wildlife/Natural Area Reserve System
Historic Preservation
Land Management
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development

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

SUBJECT: Request for Comments
Applications for Water Use Permit and Pump Installation Permit
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

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

Contact person: ____________________________ Phone: ____________________________
Signed: ____________________________ Date: ____________

(Handwritten signature)
Mr. Kenneth Williams  
West Beach Estates  
91-100 Kamoana Place  
Ewa Beach, HI 96707  

Dear Mr. Williams:

We acknowledge receipt, on November 2, 1994, of your completed application for a water use permit and your application for a pump installation permit for the EP 10 battery (Well Nos. 2006-01 to 11).

We request that you identify the three wells in the EP 10 battery for which permits are currently being sought by marking and returning the attached schematic drawing. Upon receipt of this information, your pump installation permit application will be completed. Timely submittal of this information will allow both applications to be processed concurrently and scheduled for Commission action on the January 25, 1994 agenda. Please be aware that this scheduled date for Commission action is tentative at this time.

Pursuant to your telephone conversation on December 8, 1994 with Lenore Nakama of my staff, line item 6(a) of your pump installation permit application now shows a proposed withdrawal of 1,636,000 gallons per day (gpd), rather than 1,363,000 gpd. Also, line items 14(d) and 14(e) of your water use permit application have been completed to indicate that, to the best of your knowledge, there are no other legal uses that will be affected by the proposed use, and there are no other pending permits for the project.

Enclosed is a copy of the public notice for your water use permit application which will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

Please be aware that there may be objections to your water use permit application. If objections are made, the objector is required to file such objections with the Commission and is also required to send you a copy of the objections.

You, or any other party, may respond to objections by filing a brief in support of your application with the Commission within ten (10) days of the filing of an objection. You, or the other party, must also send a copy of the response to the objector.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LN:ss  
Encl.
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Management  
Office of Conservation and Environmental Affairs  
State Parks  
Water and Land Development

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

SUBJECT: Request for Comments  
Applications for Water Use Permit and Pump Installation Permit  
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)

Response:

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

Contact person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
TO: Other Interested Parties
FROM: Rae M. Loui, Deputy Director
SUBJECT: Request for Comments
Applications for Water Use Permit and Pump Installation Permit
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and
pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use
permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and

We would appreciate your review of the attached applications for any conflicts or interferences
with the programs, plans, and objectives of the organization or agency that you represent. Written
objections should be made in accordance with Section 13-171-18 of our Administrative Rules and must
be filed by the January 12, 1995 deadline.

If you have any questions regarding these applications, please contact Lenore Nakama at
587-0218.

LN:ss
Attachment(s)
__________________________________________________________

Response:

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

Contact person: ____________________________ Phone: ______________

Signed: ____________________________ Date: ______________
TO: Honorable Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

    Dr. Peter A. Sybinsky, M.D., Director
    Department of Health

    Mr. Clayton H. W. Hee, Chairperson
    Office of Hawaiian Affairs

    Mr. Kazu Hayashida, Manager & Chief Engineer
    Honolulu Board of Water Supply

    Donald A. Clegg, Director
    Department of Land Utilization

    Ms. Cheryl Soon, Chief Planning Officer
    Planning Department

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Applications for Water Use Permit and Pump Installation Permit
Ewa-Kunia Ground Water Management Area, Oahu

Transmitted for your review and comment are copies of the applications for water use permit and pump installation permit for West Beach Estates for Well Nos. 2006-01 to 11. Notice of the water use permit application will be published in the Honolulu Star Bulletin issues of December 21, 1994 and December 28, 1994.

We would appreciate your review of the attached applications for any conflicts or inconsistencies with the programs, plans, or objective specific to your organization or department only. Please return this cover memo form by January 12, 1995.

If you have any questions regarding these applications, please contact Lenore Nakama at 587-0218.

Attachment(s)

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

Contact person: ____________________________ Phone: ________________

Signed: ____________________________ Date: ________________
Honorable Jeremy Harris, Mayor  
City & County of Honolulu  
City Hall  
Honolulu, HI  96813  

Dear Mayor Harris:

Notice of an Application for a Water Use Permit  
Ewa-Kunia Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for West Beach Estates for Well Nos. 2006-01 to 11, which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b), of our Administrative Rules, states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

KEITH W. AHUE

Enclosures
PUBLIC NOTICE

Applications for Water Use Permit
Ground Water Management Areas, Oahu

The following applications for water use permit have been received and are hereby made public in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas."

EP 10 (Well Nos. 2006-01 to 11)
Applicant: West Beach Estates
91-100 Kamoana Place
Ewa Beach, HI 96707
Date Completed Application Received: November 2, 1994
Aquifer: Ewa-Kunia System, Pearl Harbor Sector, Oahu
Water Source: EP 10 Battery (Well Nos. 2006-01 to 11) at Pump 10 Road, Ewa, Oahu, Tax Map Key 9-1-15:4
Quantity Requested: 1,636,000 gallons per day.
New Water Use: Irrigation of Phase II golf course and landscape
Place of Water Use: Ko Olina Resort at Tax Map Key: 9-1-15, 56, 57

HAUULA (Well No. 3755-03)
Applicant: E.L.C. Foundation
P.O. Box 240367
Honolulu, HI 96824
Date Completed Application Received: November 1, 1994
Aquifer: Koolauloa System, Windward Sector, Oahu
Water Source: Hauula Well (Well No. 3755-03) at 54-230 Kamehameha Hwy., Oahu, Tax Map Key 5-4-4:2
Quantity Requested: 19,400 gallons per day.
New Water Use: Irrigation of 2-acre nursery and landscape
Place of Water Use: 54-230 Kamehameha Hwy. at Tax Map Key: 5-4-4:2

Written objections or comments on the above applications may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply, any person who will be directly and immediately affected by the proposed water use, or any other interested person. Written objections shall: (1) state property or other interest in the matter (provide TMK information); (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; and (3) state all grounds for objections to the proposed permit. Written objections must be received by January 12, 1995. Objections must be sent to 1) the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809 and 2) the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

RAE M. LOUI for
KEITH W. AHUE
Chairperson

Dated: 12/4/94

November 2, 1994

Ms. Rae M. Loui
Department of Land and Natural Resources
Commission on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

SUBJECT: RESUBMISSION OF APPLICATION FOR A WATER USE PERMIT FOR EP-10 IN THE EWA-KUNIA AQUIFER

Dear Ms. Loui:

This responds to your letter of June 28, 1994 (enclosed) returning WBE's application for water use permit for EP-10.

Please find enclosed the following:

1. A completed water use permit application signed by Campbell Estate as landowner.

2. A pump installation permit application as suggested in your letter dated June 28, 1994 so that it may be scheduled for Commission Action on the same agenda.

Your favorable consideration will be appreciated. Please call if you have any questions.

Sincerely,

Kenneth Williams
Senior Project Manager

Enclosures
APPLICATION FOR WATER USE PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 631, Honolulu, Hawaii 96808. Application must be accompanied by 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 587-0215 (neighbor islands), 1-800-684-4744.

PERMITTEE INFORMATION

1. (a) APPLICANT
   Firm/Name: West Beach Estates
   Contact Person: Ken Williams
   Address: 91-100 Kamaona Place
   Kapolei, Hawaii 96707

(b) LANDOWNER OF SOURCE
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Gath
   Address: 1001 Kamokila Boulevard
   Kapolei, Hawaii 96707

SOURCE INFORMATION

2. WATER MANAGEMENT AREA: Pearl Harbor, Ewa-Kunia Aquifer
   ISLAND: Oahu

3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER: 2006-01 to 11 (EP 10/Gilbert Pumps)

(b) PROPOSED (NEW) WELL/DIVERSION NAME:

(c) LOCATION: Address Along OSCO's Pump 10 Road in Ewa
   Tax Map Key 9-1-15:04
   (Attach a USGS map, scale 1" = 2000', and a property tax map showing source location referenced to established property boundaries.)

4. SOURCE TYPE (check one): Stream Aquifer Dike-Confined Perched Caprock

5. METHOD OF TAKING WATER (check one): Artesian Well & Pump Diverted Surface Other (explain)

USE INFORMATION

6. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Proposed use of water is: Existing New Both existing & new uses
   (b) Tax Map Key: Table 1
   (c) Address: Ko Olina Resort

7. QUANTITY OF WATER REQUESTED: 1,636,000 gallons per day

8. METHOD OF MEASUREMENT: Flowmeter Open-pipe Well Office Other (explain)

9. QUALITY OF WATER REQUESTED: Fresh Brackish Salt Potable Non-Potable

10. PROPOSED USE: Municipal (including hotels, stores, etc.) Individual Domestic Industrial Military

   Other (explain)

   For questions 12 & 13: If multiple TMKs are involved, please complete Table 1 on back of application.

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: Golf Course & Landscape (large) (small)

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP:

13. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: On Demand Throughout the Day (days/weeks of operation, etc. 7 a.m. to 2 p.m.)

14. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON WATER USE:
   (a) Impact on Sustainable yield (?): After June 1995, No Adverse Impact
   (b) Instream Flow Standards affected (?): No
   (c) Hawaiian Home Lands use affected (?): No
   (d) Other existing legal uses affected (?): No
   (e) Otherpending permits, EIS, etc.(?):

15. REMARKS, EXPLANATIONS: See Other Side
Ms. Rae Loui
Deputy Director
Commission on Water Resource Management
Department of Land & Natural Resources
P. O. Box 621
Honolulu, HI 96809

Re: EP 5, 6 (Well Nos. 2202-03 to 14);
EP 7, 8 (Well Nos. 2202-15 to 20);
EP 15, 16 (Well Nos. 2202-21);
and EP 10 (Well No. 2006-01 to 11)

Dear Ms. Loui:

Thank you for your letter of July 5, 1994 relating to wells, EP 5, 6, EP 7, 8; EP 10 and EP 15, 16 ("Wells") in the Waipahu-Waiawa and Ewa-Kunia ground water management areas. We wish to inform you of the pending transfer to the Campbell Estate of the water withdrawal permits for these wells in accordance with the provisions of Chapter 174 - CH.R.S. ("Water Code").

As you are aware, Oahu Sugar Company, Limited ("OSCO") is a lessee of the Estate of James Campbell ("Estate") under a lease ("Lease") that will terminate June 30, 1995, and possibly sooner if the parties so agree. OSCO has for many years maintained and operated the Estate's Wells on the Estate's premises demised by the Lease. At the end of the Lease, however, OSCO will surrender, and the Estate will succeed to, all rights and interests in such wells, waters, permits, allocations and uses as are now being used or held by OSCO. All of OSCO's permits for the withdrawal of water from the Wells pursuant to the Water Code and under former Chapter 177, H.R.S., will therefore automatically be transferred to the Estate not later than June 30, 1995.

Under § 174C-59(2) of the State Water Code, the Commission is to be informed of permit transfers within 90 days. Inasmuch as the 1995 termination and surrender are automatic, occurring as a consequence of Lease termination, it is not necessary for OSCO to "transfer the allocations...effective within 90 days." OSCO's permits for the use of the water from the Wells will be deemed transferred not later than June 30, 1995. However, because of the number and importance of these Wells, the Estate determined that it was appropriate to advise the Commission of the impeding transfer at this time, well in advance of Lease termination, in order to allow the Commission time to plan for the transition.
We realize that § 174C-59 requires that for any transfer of permit to be effective, "[T]he conditions of use of the permit, including but not limited to, place quantity and purpose of the use [must] remain the same..." We will provide evidence under separate cover establishing (1) the water from the Wells will be used to irrigate the same or substantially the same acreage as before; (2) the agricultural purpose of the water will remain the same (diversified agriculture will replace sugar cane); and (3) the quantities of use shall remain the same or less. We shall further advise the Commission of any instances where the foregoing conditions might not be met, such that the Estate may seek Commission action and permit modification under appropriate water use permit applications already filed by the Estate as identified and acknowledged in your July 5, 1995 letter. In addition, the Estate shall advise the Commission of the identities and crops of new lessees which the Estate is putting into place on the OSCO lands beginning with OSCO's surrender of the Lease. The Estate shall furnish other information upon request pertinent to the transfer and use of the water from these Wells.

Finally, while we are approaching this matter as a de jure transfer of the wells and permits not later than June 30, 1995, the Estate reserves all of its rights to assert that, inasmuch as the Water Code deals with landowners in leasehold contexts as joint applicants/holders of water use permits, the Estate is already the joint holder with OSCO of all of the above permits with the Estate succeeding to the entire interest in the permits as sole holder upon termination of the Lease. While the Estate is willing now to respond to your information requests as if the matter is a conventional transfer, the Estate does so without waiver of the Estate's right to assert any other position in the future to which the Estate has a legal right.

As the termination date approaches, the Estate will be pleased to work closely with the Commission regarding the transition.

Very truly yours,

[Signature]

Denna B. Goth
Director, Hawaii Development

ks:01034600\K10146
September 27, 1994

Mr. Keith Ahue, Chair and Members of the Commission on Water Resource Management
State of Hawaii
Kalanimoku Building
1151 Punchbowl Street
Honolulu, HI 96813

Chair Ahue and Commissioners:

Letters of Intent between The Estate of James Campbell and Potential Tenants of Estate Agricultural Lands in Kunia and East Kapolei Areas

This letter will document that Letters of Intent to farm agricultural lands owned by the Campbell Estate have been agreed upon and signed with potential new tenants on 4,378 acres of irrigable lands in the Kunia and East Kapolei areas.

Potential new tenants with signed Letters of Intent are:

Aloun Farm
Del Monte Fresh Fruit
ICI Seeds
Larry Jefts

Negotiations are being finalized for another 270-acre parcel of land in East Kapolei. Although the Letter of Intent has not yet been signed, this land will be farmed during 1995.

Early occupancy of these lands by the new tenants prior to the end of the OSCo lease on June 30, 1995 has been discussed on many occasions with OSCo. This concept is contingent on availability of irrigation water for these lands.

Since the content of these Letters of Intent are confidential, The Estate of James Campbell is using this means to assure you that commitments have been made (and are being made) for these lands.

Sincerely,

Wouter Nicolai
Manager, Agriculture/Natural Resources
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Water Use Permit Applications
Waipahu-Waiawa and Ewa-Kunia Ground Water Management Areas, Oahu

We acknowledge receipt, on May 9, 1994 and May 20, 1994, of your applications for water use permit for the following sources in the Waipahu-Waiawa and Ewa-Kunia ground water management areas:

- EP 5,6 (Well Nos. 2202-03 to 14)
- EP 7,8 (Well Nos. 2202-15 to 20)
- EP 15,16 (Well No. 2202-21)
- EP 10 (Well Nos. 2006-01 to 11)

As was discussed during our meeting on July 1, 1994, the following items should be submitted to support your applications:

1. A signed letter agreement from Oahu Sugar Co. to transfer the allocations described in the subject applications to Campbell Estate, effective within 90 days.

2. Signed letters of intent from future tenants that identify the TMK at which the water is to be used, estimated irrigable acreage, estimated use per acre (i.e. gpd/acre), and the projected date on which actual use of the wells will begin.

3. Property tax maps that show the locations of the source and specific locations of the proposed water use within each TMK.

4. The $25 filing fee for each of your four applications (total amount due is $100).
5. A document that confirms the zoning for TMK 9-1-17:4 is appropriate for agriculture uses. Our records indicate that this parcel is zoned R-5.

Upon receipt of the requested information, we will continue to process your applications. You will receive a copy of the public notice and any further information regarding the status of your applications.

If you have any question, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ko
Mr. Ken Williams  
West Beach Estates  
91-100 Kamoana Place  
Ewa Beach, HI 96707  

Dear Mr. Williams:  

Application for a Water Use Permit  
Ewa-Kunia Ground Water Management Area, Oahu  

We have reviewed the supplemental information that was submitted to complete your water use permit application for the EP 10 battery (Well Nos. 2006-01 to 11).  

The Short Form Development Agreement does not fulfill the requirement for the landowner's signature. We will accept a copy of the actual Development Agreement, provided that the acquisition of TMK 9-1-15:4 by West Beach Estates is specifically stated therein. The other option is to have the landowner sign the application form. We have enclosed your original application so that you have the ability to exercise either option.  

In addition, please indicate your four-year demand projections for each of the projects listed on Table 1 (on the back of the application form). This information should be entered in the last column of Table 1.  

Upon receipt of your completed permit application, we will continue to process your application. You will receive a copy of the public notice and any further information regarding your application status. In addition, we may need to visit and verify your proposed water source and use sites if we have not done so already under our registration program.  

Lastly, your application states that the large capacity pumps will be replaced by pumps of appropriately lesser capacity. We suggest that you apply for a pump installation permit at this time so that both permit applications may be scheduled for Commission action on the same agenda. This should facilitate and expedite the process. We have enclosed a pump installation permit application form for your convenience.  

If you have any questions, please contact Lenore Nakama at 587-0218.  

Sincerely,  

[Signature]  

RAE M. LOUI  
Deputy Director  

LN:ko  
Encl.
APPLICATION FOR WATER USE PERMIT

3-30-94

PERMITTEE INFORMATION

1. (a) APPLICANT
   Firm/Name: West Beach Estates
   Contact Person: Ken Williams
   Address: 91-100 Kamoana Place, Ewa Beach, Hawaii 96707

2. (b) LANDOWNER OF SOURCE
   Firm/Name: The Estate of James Campbell
   Contact Person: Ken Williams
   Address: 91-100 Kamoana Place, Ewa Beach, Hawaii 96707

SOURCE INFORMATION

3. WATER MANAGEMENT AREA: Pearl Harbor, Ewa-Kunia Aquifer
   ISLAND: Oahu

4. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER:
   2006-01 to -11 (EP 10/Gilbert Pumps)

5. (b) PROPOSED (NEW) WELL/DIVERSION NAME:

6. (c) LOCATION: Address Along OSGO's Pump 10 Road in Ewa
   Tax Map Key 9-1-15:04
   (Attach a USGS map, scale 1" = 2000', and a property tax map showing source location referenced to established property boundaries)

7. SOURCE TYPE (check one):
   Stream
   Well & Pump
   Diverted Surface
   Other (explain)

8. METHOD OF TAKING WATER (check one):
   Stream
   Well & Pump
   Diverted Surface
   Other (explain)

USE INFORMATION

9. LOCATION OF PROPOSED WATER USE: (if possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Proposed use of water:
      Existing
      New
      Both existing & new use
   (b) Tax Map Key:
      Table 1:
      (If location of use is over multiple TMKs, please complete Table 1 on back of application)
   (c) Address:
      Ko Olina Resort
   (d) Current Land Use District (check one):
      Urban
      Agriculture
      Conservation
      Rural
   (e) Current County Zoning Code:

10. QUANTITY OF WATER REQUESTED: 1,636,000 gallons per day

11. METHOD OF MEASUREMENT:
   Flowmeter
   Open-pipe
   Well
   Office
   Other (explain)

12. QUALITY OF WATER REQUESTED:
   Fresh
   Brackish
   Salt
   Potable
   Non-Potable
   Other (explain)

13. PROPOSED USE:
   Municipal (including hotels, stores, etc.)
   Industrial
   Irrigation
   Military
   Other (explain)

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:
   On Demand Throughout the Day
   (Daytime hours of operation, ex. 7 a.m. to 2 p.m.)

15. REMARKS, EXPLANATIONS:
   See Other Side

For questions 12 & 13: If multiple TMKs are involved, please complete Table 1 on back of application.

For Official Use Only:

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

Applicant (print):
Signature:
Date:

Landowner (print):
Signature:
Date:

Diversion Works No.
16. REMARKS, EXPLANATIONS (cont’d):

Through a development agreement dated December 1, 1986, West Beach Estates is the developer of the existing Ko Olina Resort, including Phase II on TMK 9-1-15:04, a parcel of land currently owned by Campbell Estate. To date, irrigation supply has been obtained for the Phase I golf course (from Well 2006-13) and a portion of the non-potable supply for other development parcels in Phase I (from Wells 2006-14 and -15 of the BWS Barbers Point Non-Potable System). This application is for irrigation supply for the Phase II golf course and for landscape irrigation for the remainder of Phase I and the development parcels in Phase II. These areas are listed in Table 1 below and depicted on accompanying maps.

Use of Well 2006-01 to -11 (EP 10) for these irrigation uses would start after Oahu Sugar Company’s lease ends in mid-1995. At that time, a conversion from the plantation’s electric power to Hawaiian Electric would be implemented and the large pumps would be replaced by pumps of appropriately lesser capacity.

<table>
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<tr>
<th>Project Name</th>
<th>TMK</th>
<th>Current County Zoning Code</th>
<th>Net Acres</th>
<th>GPD/Acre</th>
<th>Total GPD</th>
<th>% of Total To Be Used Over Next 4 Years</th>
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<td>Phase II Golf Course</td>
<td>9-1-15:Portion 4</td>
<td>AG-1</td>
<td>183</td>
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<td>9-1-15:Portion 4</td>
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<tr>
<td>Phase I Landscaping</td>
<td>9-1-56 and 57</td>
<td>A-1, A-2, B-2, P-2, and Resort</td>
<td>272</td>
<td>2,025</td>
<td>551,000</td>
<td></td>
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</table>
Ko Olina Resort
Phase I

- Resort, Residential Park, and Commercial Parcels
SHORT FORM DEVELOPMENT AGREEMENT

THIS SHORT FORM DEVELOPMENT AGREEMENT is made this 1st day of December, 1986 by and between F. E. TROTTER, INC., W. H. McVAY, INC., P. R. CASSIDAY, INC., and H. C. CORNUELLE, INC., all Hawaii professional corporations, the duly appointed, qualified and acting TRUSTEES UNDER THE WILL AND OF THE ESTATE OF JAMES CAMPBELL, DECEASED, acting in their fiduciary and not in their individual corporate capacities (hereinafter called "CE"), whose principal place of business and mailing address is Suite 500, 828 Fort Street Mall, Honolulu, Hawaii 96813, and WEST BEACH ESTATES ("WBE"), a Hawaii general partnership, the principal place of business and mailing address of which is Kalihi Square Building, 2024 North King Street, Honolulu, Hawaii 96819.

W I T N E S S E T H:

That upon the consideration, terms and conditions set forth in that certain unrecorded Amended and Restated Ko Olina Resort Development Agreement dated December 1, 1986 but effective as of July 1, 1980, entered into between CE and WBE as amended from time to time ("Development Agreement"), CE has agreed to transfer to WBE and WBE has agreed to acquire
from CE and to thereafter develop, all of those certain parcels of land more fully described in Exhibit "A" attached hereto and incorporated herein by reference, on the terms, covenants and conditions contained in the Development Agreement, all of which are hereby made a part hereof as fully and completely as if specifically set out in full herein.

IN WITNESS WHEREOF, CE and WBE have executed these presents on the day and year first above written.

TRUSTEES UNDER THE WILL AND OF THE ESTATE OF JAMES CAMPBELL, DECEASED, ACTING IN THEIR FIDUCIARY AND NOT IN THEIR INDIVIDUAL CAPACITIES

F. E. Trotter, Inc.
By ____________________
Its President

WEST BEACH ESTATES, a Hawaii General Partnership
By Horita Corporation
Its General Partner
By ____________________
Its President

W. H. McVay, Inc.
By ____________________
Its President

By SKG Properties a Hawaii general partnership
By T.S.O., Inc., Its General Partner
By ____________________
Its President

P. R. Cassiday, Inc.
By ____________________
Its

By TSK, Inc., Its General Partner
By ____________________
Its President

H. C. Cornuelle, Inc.
By ____________________
Its President

CE

WBE
STATE OF HAWAII 
) 
CITY AND COUNTY OF HONOLULU ) 

On this 25th day of November, 1986, before 
me appeared Fred E. Trotter, W. H. McVay, P. R. Cassiday, and 
H. C. Cornuelle, to me personally known, who being by me duly 
sworn did say that Fred E. Trotter, W. H. McVay, P. R. 
Cassiday, and H. C. Cornuelle are President, sole shareholder 
and sole director of F. E. TROTTER, INC., W. H. McVAY, INC., 
P. R. CASSIDAY, INC., and H. C. CORNUELLE, INC., respectively, 
Hawaii professional corporations and Trustees under the Will 
and of The Estate of James Campbell, Deceased; that the 
foregoing instrument was signed by each of the persons listed 
as appearing before me in the respective capacity above 
indicated (that is, as President of a Hawaii professional 
corporation which is a Trustee); that said corporations are 
corporations without seals; that the President of each and 
every corporation which is a signatory hereto acknowledged that 
the aforesaid instrument was signed on behalf of said 
corporation with the authority of the sole shareholder and 
director and as the free act and deed of said corporation as 
such Trustee.

[Signature]
Notary Public, State of Hawaii

My Commission expires: Feb. 11, 1988
STATE OF HAWAII  
CITY AND COUNTY OF HONOLULU  

On this 28th day of December, 1986, before me appeared HERBERT K. HORITA, to me personally known, who, being by me duly sworn, did say that he is the President of HORITA CORPORATION, a Hawaii corporation; and that said corporation is the general partner of WEST BEACH ESTATES, the Hawaii general partnership named in the foregoing instrument; that said instrument was executed by said corporation as the duly authorized general partner of and on behalf of WEST BEACH ESTATES; that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was so executed by said corporation by authority of its board of directors; and said officers severally acknowledged said instrument to be the free act and deed of said partnership.

[Signature]
Notary Public, State of Hawaii

My Commission expires: 10-5-88
STATE OF HAWAII
CITY AND COUNTY OF HONOLULU

On this 28th day of November, 1986, before me appeared Tatayuki Futa, to me personally known, who, being by me duly sworn, did say that he is the President of T.S.O., INC., a Hawaii corporation; and that said corporation is the general partner of SKG PROPERTIES, the Hawaii general partnership named in the foregoing instrument; that SKG PROPERTIES is a general partner of WEST BEACH ESTATES, a Hawaii general partnership; that said instrument was executed by said corporation as the duly authorized general partner of and on behalf of SKG PROPERTIES, a duly authorized general partner of WEST BEACH ESTATES; that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was so executed by said corporation by authority of its board of directors; and said officer acknowledged said instrument to be the free act and deed of said partnerships.

Notary Public, State of Hawaii
My Commission expires: 1-15-87
STATE OF HAWAII
CITY AND COUNTY OF HONOLULU

On this 1st day of December, 1926, before me appeared TAKEKI SHIGUCHI, to me personally known, who, being by me duly sworn, did say that he is the President of TSK, INC., a Hawaii corporation; and that said corporation is the general partner of SKG PROPERTIES, the Hawaii general partnership named in the foregoing instrument; that SKG PROPERTIES is a general partner of WEST BEACH ESTATES, a Hawaii general partnership; that said instrument was executed by said corporation as the duly authorized general partner of and on behalf of SKG PROPERTIES, a duly authorized general partner of WEST BEACH ESTATES; that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was so executed by said corporation by authority of its board of directors; and said officer acknowledged said instrument to be the free act and deed of said partnerships.

Charlene S. Shimabukuro
Notary Public
State of Hawaii

My commission expires: 1/20/89
All of those certain parcels of land situate at Honouliuli, District of Ewa, City and County of Honolulu, State of Hawaii, described as follows:

FIRST: Lot 4016 containing an area of 311.403 acres, as shown on Map 404 filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii with Land Court Application No. 1069 of the Trustees Under the Will and of the Estate of James Campbell, deceased.

Being a portion of the land described in Transfer Certificate of Title No. 28441 issued to the Trustees Under the Will and of the Estate of James Campbell, deceased.

SECOND: Lot 4018 containing an area of 5.503 acres, as shown on Map 404 filed in said Office with Land Court Application No. 1069 of the Trustees Under the Will and of the Estate of James Campbell, deceased.

Being a portion of the land described in Transfer Certificate of Title No. 28441 issued to the Trustees Under the Will and of the Estate of James Campbell, deceased.

THIRD: Lot 4020 containing an area of 301.277 acres, as shown on Map 404 filed in said Office with Land Court Application No. 1069.

Being a portion of the land described in Transfer Certificate of Title No. 28441 issued to the Trustees Under the Will and of the Estate of James Campbell, deceased.

FOURTH: Lot 4023 containing an area of 2.200 acres as shown on Map 405 filed in said Office with Land Court Application No. 1069.

Being a portion of the land described in Original Certificate of Title No. 15,790 issued to the Trustees Under the Will and of the Estate of James Campbell, deceased.

Note: Lot 4016 has direct access to Farrington Highway, a public road, and Lots 4018 and 4020 have indirect access to Farrington Highway, as follows:

a. Lot 4018: By way of Easement 1425 as shown on Map 404 of Land Court Application No. 1069, Exclusion 2 of Land Court Application No. 1069, and Easements 35, 36, and 38 all as shown on Map 19 of Land Court Application No. 1069 all as set forth by Land Court Order No. 81444.

b. Lot 4020: By way of Exclusion 2 as provided in Land Court Order Nos. 81444, 17263 and 60098, and Easements 35, 36 and 38 as aforesaid.

EXHIBIT "A"
FIFTH:

ALL that certain piece or parcel of land being Lot 2679-B and a portion of Lot 4017 of Land Court Application 1069 as shown on Maps 311 and 404 respectively filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii and being a portion of the land described in Owner's Transfer Certificate of Title No. [illegible] issued to the Trustees under the Will and of the Estate of James Campbell, deceased.

Situate at Honouliuli, Ewa, Oahu, Hawaii.

Beginning at the north corner of this parcel of land, the same being the east corner of Lot 1173 of Land Court Application 1069 as shown on Map 130 and being on the south side of Farrington Highway and thence running by azimuths measured clockwise from true South:

1. 276° 46' 158.58 feet along Farrington Highway;
   Thence along Farrington Highway on a curve to the right with a radius of 2,985.91 feet, the chord azimuth and distance being

2. 279° 41' 28'' 86.04 feet;
   Thence along Farrington Highway on a curve to the right with a radius of 2,221.83 feet, the chord azimuth and distance being

3. 289° 11' 40'' 670.45 feet;
   Thence along Farrington Highway on a curve to the right with a radius of 2,985.91 feet, the chord azimuth and distance being
<table>
<thead>
<tr>
<th></th>
<th>Azimuth</th>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>299° 44' 50&quot;</td>
<td></td>
<td></td>
<td></td>
<td>195.39 feet;</td>
</tr>
<tr>
<td>5</td>
<td>301° 37' 20&quot;</td>
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<td>475.30 feet along Farrington Highway;</td>
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<tr>
<td>6</td>
<td>295° 54' 40&quot;</td>
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<td></td>
<td></td>
<td>50.25 feet along Farrington Highway;</td>
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<tr>
<td>7</td>
<td>301° 37' 20&quot;</td>
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<td></td>
<td></td>
<td>300.00 feet along Farrington Highway;</td>
</tr>
<tr>
<td>8</td>
<td>304° 29' 05&quot;</td>
<td></td>
<td></td>
<td></td>
<td>100.12 feet along Farrington Highway;</td>
</tr>
<tr>
<td>9</td>
<td>323° 25' 25&quot;</td>
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<td></td>
<td></td>
<td>53.85 feet along Farrington Highway;</td>
</tr>
<tr>
<td>10</td>
<td>301° 37' 20&quot;</td>
<td></td>
<td></td>
<td></td>
<td>150.00 feet along Farrington Highway;</td>
</tr>
<tr>
<td>11</td>
<td>279° 49' 15&quot;</td>
<td></td>
<td></td>
<td></td>
<td>53.85 feet along Farrington Highway;</td>
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<tr>
<td>12</td>
<td>301° 37' 20&quot;</td>
<td></td>
<td></td>
<td></td>
<td>100.00 feet along Farrington Highway;</td>
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<tr>
<td>13</td>
<td>295° 54' 40&quot;</td>
<td></td>
<td></td>
<td></td>
<td>50.25 feet along Farrington Highway;</td>
</tr>
<tr>
<td>14</td>
<td>301° 37' 20&quot;</td>
<td></td>
<td></td>
<td></td>
<td>1305.40 feet along Farrington Highway;</td>
</tr>
</tbody>
</table>

Thence along Farrington Highway on a curve to the right with a radius of 2,990.91 feet, the chord azimuth and distance being

<table>
<thead>
<tr>
<th></th>
<th>Azimuth</th>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>303° 29' 50&quot;</td>
<td></td>
<td></td>
<td></td>
<td>195.72 feet;</td>
</tr>
</tbody>
</table>

Thence along Farrington Highway on a curve to the right with a radius of 2,477.71 feet, the chord azimuth and distance being

<table>
<thead>
<tr>
<th></th>
<th>Azimuth</th>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>311° 59' 50&quot;</td>
<td></td>
<td></td>
<td></td>
<td>513.82 feet;</td>
</tr>
</tbody>
</table>

Thence along Farrington Highway on a curve to the right with a radius of 2,226.83 feet, the chord azimuth and distance being

<table>
<thead>
<tr>
<th></th>
<th>Azimuth</th>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>320° 29' 50&quot;</td>
<td></td>
<td></td>
<td></td>
<td>195.72 feet;</td>
</tr>
</tbody>
</table>

Thence along Farrington Highway on a curve to the left with a radius of 2,477.71 feet, the chord azimuth and distance being

<table>
<thead>
<tr>
<th></th>
<th>Azimuth</th>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>322° 22' 20&quot;</td>
<td></td>
<td></td>
<td></td>
<td>431.51 feet along Farrington Highway;</td>
</tr>
</tbody>
</table>
19. 319° 36' 05" 239.55 feet; Thence along Farrington Highway on a curve to the left with a radius of 1,874.34 feet, the chord azimuth and distance being

20. 316° 02' 36" 51.50 feet;
21. 319° 58' 15" 52.10 feet along Farrington Highway;
   Thence along Farrington Highway on a curve to the left with a radius of 1,879.34 feet, the chord azimuth and distance being

22. 309° 42' 52" 259.47 feet;
23. 299° 27' 35" 52.11 feet along Farrington Highway;
   Thence along Farrington Highway on a curve to the left with a radius of 1,874.34 feet, the chord azimuth and distance being

24. 301° 01' 26" 205.92 feet;
25. 297° 52' 30" 50.00 feet along Farrington Highway;
26. 299° 01' 20" 50.01 feet along Farrington Highway;
27. 297° 52' 30" 150.02 feet along Farrington Highway;
   Thence along Farrington Highway on a curve to the left with a radius of 1,830.00 feet, the chord azimuth and distance being

28. 297° 14' 50" 40.10 feet;
29. 26° 37' 10" 740.80 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
30. 15° 23' 1124.58 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
31. 105° 23' 3039.67 feet along Exclusion 2, Ld. Ct. App. 1069;
32. 195° 14' 30" 219.68 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
33. 148° 12' 54" 1901.30 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
34. 96° 00' 225.00 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
35. 76° 15' 794.87 feet along the remainder of Lot 4017, Ld. Ct. App. 1069;
36. 180° 00' 1208.09 feet along Lot 4016, Ld. Ct. App. 1069;
37. 92° 00' 99.62 feet along Lot 4016, Ld. Ct. App. 1069;

Thence along Lot 4016, Ld. Ct. App. 1069 on a curve to the right with a radius of 2,645.34 feet, the chord azimuth and distance being

38. 100° 00' 736.32 feet;
39. 108° 00' 484.36 feet along Lot 4016, Ld. Ct. App. 1069;
40. 198° 00' 302.73 feet along Lot 4016, Ld. Ct. App. 1069;
41. 114° 20' 1543.73 feet along Lot 4016, Ld. Ct. App. 1069;

Thence along Lot 4016, Ld. Ct. App. 1069 on a curve to the right with a radius of 3,730.00 feet, the chord azimuth and distance being

42. 175° 03' 08.5" 816.16 feet;
43. 181° 20' 115.00 feet along Lot 4016, Ld. Ct. App. 1069;
44. 215° 36' 30"
45. 271° 20'
46. 1° 20'
47. 271° 20'
48. 42° 27' 08"

44. 225.27 feet;
45. 31.14 feet along Farrington Highway;
46. 15.00 feet along Farrington Highway;
47. 23.79 feet along Farrington Highway;
48. 15.50 feet along the westerly boundary of the Honokai Hale Subdivision;

Thence along Lot 4016, Ld. Ct. App. 1069 on a curve to the right with a radius of 200.00 feet, the chord azimuth and distance being

49. 27° 39' 04"
50. 12° 51'
51. 357° 18'
52. 295° 05'
53. 199° 02'

49. 253.42 feet;
50. 87.54 feet along the westerly boundary of the Honokai Hale Subdivision;
51. 208.40 feet along the westerly boundary of the Honokai Hale Subdivision;
52. 2958.60 feet along the southerly boundary of the Honokai Hale Subdivision;
53. 969.40 feet along the easterly boundary of the Honokai Hale Subdivision to the point of beginning and containing an area of 372.600 acres.
SUBJECT, HOWEVER, TO the following:

1. Portion of Easements 35 and 36 as shown on Map 19.
2. Sanitary Sewer Easement as shown on Map 132.
3. Easements 769 and 770 as shown on Map 250.
4. Easements 860 and 861 as shown on Map 281.
5. Easement for Road and Water Line Purposes as shown on Map 311.
6. Easements 1438, 1443 and 1444 as shown on Map 407.
7. Portion of Easement 1440 as shown on Map 407.
8. Restriction of Access along Farrington Highway as shown on Map 281.
9. A 40-Foot Building Setback Line along the southerly boundary of the above described parcel of land.
10. All other easements either recorded or unrecorded affecting said premises.

WALTER P. THOMPSON, INC.

Honolulu, Hawaii November 20, 1986
November 24, 1986
KO OLINA RESORT PHASE II
Land Use Plan

LAND USE SUMMARY

<table>
<thead>
<tr>
<th>AC.</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.D.A.</td>
<td>105.5</td>
</tr>
<tr>
<td>M.D.A.</td>
<td>50.7</td>
</tr>
<tr>
<td>COMM.</td>
<td>32.9</td>
</tr>
<tr>
<td>O.C.</td>
<td>158.0</td>
</tr>
<tr>
<td>P.F.</td>
<td>2.8</td>
</tr>
<tr>
<td>O.S.</td>
<td>0.5</td>
</tr>
<tr>
<td>CIRC.</td>
<td>14.3</td>
</tr>
</tbody>
</table>

375.8 3500

Total: 375.8

1500

Total: 3500

Ewa, Oahu
<table>
<thead>
<tr>
<th>DATE</th>
<th>INVOICE NO.</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
<th>DISCOUNT</th>
<th>NET AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/07/94</td>
<td>Draw 76</td>
<td>Water Use Permit Filing Fee</td>
<td>25.00</td>
<td></td>
<td>25.00</td>
</tr>
</tbody>
</table>

**Check Total**
25.00  
25.00
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Reservoir Management  
Dept. of Land & Natural Resources  
P. O. Box 621  
Honolulu, HI  96809

Dear Ms. Loui:

Application for Water Use Permit  
Well No. 2206-01 through 11

This application is to provide for a continuation in use of this water for irrigation of various agricultural crops on Campbell Estate lands. Well No. 2206-01 through 11 (EP-10) has been supplying water for agricultural irrigation during the past 86 years.

Water from this well is currently allocated to Oahu Sugar Company, Ltd. for irrigation of sugar cane, but the company is phasing-out of sugar operations by June 30, 1995. Campbell Estate must be in a position to provide irrigation water for an orderly transition to new tenants for diversified agricultural cropping.

It is anticipated that 100 percent of the water use application will be used over the next four years.

If you have any questions, please contact George Hiu at 674-3289.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

1001 Kamokila Boulevard, Kapolei, Hawaii 96707  Phone (808) 674-6674  Facsimile (808) 674-3111
APPLICATION FOR WATER USE PERMIT

PERMITTEE INFORMATION
1. (a) APPLICANT
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Goth
   Address: 1001 Kamokila Boulevard
   Kapolei, HI 96707

(b) LANDOWNER OF SOURCE
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna Goth
   Address: Kapolei, HI 96707

SOURCE INFORMATION
2. WATER MANAGEMENT AREA: Ewa/Kunia
   ISLAND: Oahu
3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER: EP-10; Well No. 2006-01 through 11
(b) PROPOSED (NEW) WELL/DIVERSION NAME: EP-10
(c) LOCATION: Address: Ewa (Attach a USGS map, scale 1" = 2000", and a property tax map showing source location referenced to established property boundaries.)

STATE: Hawaii
   COUNTY: Ewa
   TOWNSHIP: 25
   RANGE: 11

4. SOURCE TYPE (check one): Stream  阪  潜流
   (d) Other explain)
5. METHOD OF TAKING WATER (check one): Artesian  Wall & Pump  Diverted Surface  Other (explain)

USE INFORMATION
6. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) Proposed use of water is: Existing  New  Both existing & new uses
   (b) Tax Map Key: see Table 1
   (c) Location: Address: Ewa
   (d) Current Land Use District:  农业
   (e) Current County Zoning Code: AE-1; AE-2

7. QUANTITY OF WATER REQUESTED: 3,258,000 gallons per year (averaged over 1 year)

8. METHOD OF MEASUREMENT:
   Flowmeter  Open-pipe  Well  Office  Other (explain)

9. QUALITY OF WATER REQUESTED:
   Fresh  Brackish  Salt  Potable  Non-Potable

10. PROPOSED USE:
    - Municipal (including hotels, stores, etc.)
    - Individual Domestic  Irrigation
    - Industrial  Military
    - Other (explain)

   For questions 12 & 13: If multiple TMKs are involved, please complete Table 1 on back of application.
11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: 543
12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP:
    - Various (acres)
    - 24 hours per day (daytime hours of operation, ex. 7 a.m. to 2 p.m.)

13. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:

14. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON WATER USE:
    (a) Impact on Sustainable yield (?): None
    (b) Instream Flow Standards affected (?): None
    (c) Hawaiian Home Lands use affected (?): None
    (d) Other existing legal uses affected (?): None
    (e) Other (pending permits, EIS, etc.) (?): None

15. REMARKS, EXPLANATIONS: This is a continuation in use of this water for irrigation and is the only current source of irrigation water we have. EP-10 has been supplying irrigation water to

   (If more space is needed, continue on back side)

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resources Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

Applicant (print): The Estate of James Campbell
Signature: Donna Goth
Date: 5/19/93

Landowner (print): The Estate of James Campbell
Signature: Donna Goth
Date: 5/19/93
The estimated water requirement of 6,000 gallons per day per acre (GPD/acre) is an approximate average of water consumption for the wide variety of crops that will be grown on these lands. As indicated in your Table 4-4 "Oahu Water Requirements Forecast for Selected crops" (see Attachment 1), the range in GPD/acre water requirements for some of our potential crops is as follows:

<table>
<thead>
<tr>
<th>Crops</th>
<th>GPD/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Feed and forage</td>
<td>7,700</td>
</tr>
<tr>
<td>2) Solanaceous and cucurbit crops</td>
<td>6,700</td>
</tr>
<tr>
<td>3) Leafy vegetables</td>
<td>4,725</td>
</tr>
<tr>
<td>Average</td>
<td>6,375</td>
</tr>
</tbody>
</table>

The arithmetic average of this grouping is 6,375 GPD/acre, so it appears that our estimated water requirement of 6,000 GPD/acre is in line with stated crop requirements.

The two columns in Table 4-4 that are of interest to Campbell Estate are "Crop" and "Gal/Ac/Day". The rest of the table refers to a forecast of acres per crop and MGO per crop up through 2010. These figures do not include our diversified agricultural cropping areas from ex-OSCo sugar lands.

### TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>TMK</th>
<th>CURRENT COUNTY ZONING CODE</th>
<th>UNITS or NET ACRES</th>
<th>GPD/UNIT or GPD/ACRE</th>
<th>TOTAL GPD</th>
<th>% OF TOTAL OVER NEXT 4 YEARS</th>
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</thead>
<tbody>
<tr>
<td>Well No. 2006-01 thru 11</td>
<td>9-1-15:1</td>
<td>AG-2, I-2</td>
<td>163</td>
<td>6,000</td>
<td>978,000</td>
<td>100%</td>
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<tr>
<td></td>
<td>9-1-15:4</td>
<td>AG-1</td>
<td>380</td>
<td>6,000</td>
<td>2,280,000</td>
<td>100%</td>
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<tr>
<td></td>
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<td>543</td>
<td></td>
<td>3,258,000</td>
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</tr>
<tr>
<td>Crop</td>
<td>Gal/Ac/Day</td>
<td>Acres 1988</td>
<td>Estimated Acres 1990</td>
<td>Forecast</td>
<td></td>
<td></td>
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<tr>
<td>----------------------------</td>
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<td>------------</td>
<td>----------------------</td>
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<td></td>
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</tr>
<tr>
<td>SUGARCANE a/</td>
<td>6,800</td>
<td>24,300</td>
<td>105.24</td>
<td>24,355</td>
<td>165.61</td>
<td>21,941</td>
</tr>
<tr>
<td>PINEAPPLE b/</td>
<td>1,000</td>
<td>13,002</td>
<td>13.00</td>
<td>13,308</td>
<td>13.40</td>
<td>12,229</td>
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<tr>
<td>AQUACULTURE li</td>
<td>38,000</td>
<td>403</td>
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<td>470</td>
<td>18.93</td>
<td>550</td>
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<td>325</td>
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<td>338</td>
<td>2.80</td>
<td>92</td>
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<td>FLORICULTURE &amp; NURSERY TOTAL b/c/d/l</td>
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<td>3.85</td>
<td>427</td>
<td>3.18</td>
<td>614</td>
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<td>FOLIAGE PLANTS</td>
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<td>177</td>
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<td>0.23</td>
<td>65</td>
<td>0.23</td>
<td>78</td>
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<tr>
<td>BANANA b/</td>
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<td>540</td>
<td>1.63</td>
<td>588</td>
<td>1.77</td>
<td>711</td>
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<td>GUAVA c/</td>
<td>4,400</td>
<td>373</td>
<td>1.84</td>
<td>408</td>
<td>1.78</td>
<td>491</td>
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<td>1.62</td>
<td>274</td>
<td>1.84</td>
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</tbody>
</table>

**Note:** Received from Rae M. Loui, Commission on Water Resource Management - 2/17/94

This guideline was prepared by the Dept. of Agriculture and is included in the Oahu Water Management Plan.
Ko Olina Resort

April 6, 1994

Mr. Keith Ahue
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

SUBJECT: Water Use Permit Application for
EP 10 in the Ewa-Kunia Aquifer

Dear Mr. Ahue:

Enclosed are a water use permit application and $25 filing fee for use of Wells 2006-01 to -11 (also known as EP 10) after Oahu Sugar Company ends its use in June 1995. Presently, OSCO has a water use allocation of 5.01 MOD for this battery of wells. The water pumped is brackish with a chloride concentration of 400 to 420 milligrams per liter. In years past when OSCO’s cane acreage was greater and irrigation was by the furrow method, the battery of wells produced 15 MOD.

Our request is for 1.636 MOD. The water would be used to irrigate Ko Olina Resort’s second 18 hole golf course and for landscape irrigation of roadways and development parcels throughout the Resort. After OSCO ceases operation, our requested use would not cause the total of allocated uses to exceed the aquifer’s sustainable yield.

West Beach Estates has investigated all practical alternative sources of irrigation supply before making this request. These other sources have included:

- **Reuse of Honolulu WWTP Effluent.** Due to a recent court decision, the City and County has suspended plans for secondary treatment of wastewater at Honolulu. This has made reuse of effluent, which would require secondary and tertiary stages of treatment, economically impractical.

- **Use of the Ewa Limestone Aquifer.** Ko Olina Resort is located in the Malakole sector of this aquifer. In our area, the marly limestone and cemented sands provide virtually no yield to drilled wells. Since the groundwater in this sector is also too saline for irrigation use, this aquifer is not a practical alternative for us.
• Use of the Malakole Sector of the Ewa-Kunia Aquifer. Several years ago, the Water Commission set aside the western end of the Ewa-Kunia aquifer as a separate, Malakole sector. Subsequent field investigations conducted for Ewa Plain Water Development Corp. and Waste Management, Inc. have more accurately delineated this aquifer’s boundary in and around the Waimanalo Gulch Sanitary Landfill. Its areal extent is less than was assumed when the Water Commission recognized this sector. Its potential yield is very small and its salinity increases to unusable levels at very small pumping rates. West Beach Estates will continue to explore this alternative. However, it will not be able to meet the bulk of our supply requirements.

It is our conclusion that EP 10 may be the only practical source of irrigation supply for the Resort. Since the battery of wells has been used since the early 1900’s at much higher pumping rates than we envision in the post-OSCO future, we hope that you will favorably consider our application.

Sincerely,

Kenneth Williams
Senior Project Manager

KW:js
Mr. Ken Williams
West Beach Estates
91-100 Kamoana Place
Ewa Beach, Hawaii 96707

Dear Mr. Williams:

Application for a Water Use Permit
Ewa-Kunia Ground Water Management Area, Oahu

We acknowledge receipt of your water use permit application for the EP 10 battery (Well Nos. 2006-01 to 11), on February 2, 1994.

However, your application is incomplete. Please furnish TMK maps showing the locations of the proposed water uses, the signature of the landowner of the source (or a copy of the development agreement dated December 1, 1986, if permission is explicitly granted therein), and the current land use district for the proposed water use site. Also, because this is for a future water use, please be sure to fill out Table 1 on the back of the application form as completely and accurately as possible to justify your requested water allocation. Please list the golf course and landscape irrigation separately on Table 1.

Upon receipt of your completed permit application, we will continue to process your application. You will receive a copy of the public notice and any further information regarding your application status. In addition, we may need to visit and verify your proposed water source and use sites if we have not done so already under our registration program.

Lastly, your application states that the large capacity pumps will be replaced by pumps of appropriately lesser capacity. We suggest that you apply for a pump installation permit at this time so that both permit applications may be scheduled for Commission action on the same agenda. This should facilitate and expedite the process. We have enclosed a pump installation permit application form for your convenience.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ky
Enclosure
SISTER QUESTIONS:

Sister questions are not addressed in the text.

SUBJECT: Water Use Permit Application for EP 10 in the Ewa-Kunia Aquifer

Dear Mr. Ahue:

Enclosed are a water use permit application and $25 filing fee for use of Wells 2006-01 to -11 (also known as EP 10) after Oahu Sugar Company ends its use in June 1995. Presently, OSCO has a water use allocation of 5.01 MGD for this battery of wells. The water pumped is brackish with a chloride concentration of 400 to 420 milligrams per liter. In years past when OSCO’s cane acreage was greater and irrigation was by the furrow method, the battery of wells produced 15 MGD.

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Mr. Keith Ahue  
February 3, 1994, Page two

• **Use of the Malakole Sector of the Ewa-Kunia Aquifer.** Several years ago, the Water Commission set aside the western end of the Ewa-Kunia aquifer as a separate, Malakole sector. Subsequent field investigations conducted for Ewa Plain Water Development Corp. and Waste Management, Inc. have more accurately delineated this aquifer's boundary in and around the Waimanalo Gulch Sanitary Landfill. Its areal extent is less than was assumed when the Water Commission recognized this sector. Its potential yield is very small and its salinity increases to unusable levels at very small pumping rates. West Beach Estates will continue to explore this alternative. However, it will not be able to meet the bulk of our supply requirements.

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Sincerely,

Kenneth Williams  
Senior Project Manager

KW:js
PAY TO THE ORDER OF Depart of Land & Natural Resources

<table>
<thead>
<tr>
<th>DATE</th>
<th>AMOUNT</th>
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</thead>
<tbody>
<tr>
<td>1/27/94</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

W. Beach Estates

The attached check is in payment of items described below. If not correct please notify us promptly. No receipt desired.

Deluxe Form Two-4 V-2

<table>
<thead>
<tr>
<th>DATE</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Water Use Permit</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Qane & Faith 2/10/93
FIELD INSPECTION INFORMATION CHECKLIST
(Ver 4/3/91)

PART I: USE OF WATER

1. Tax Map Key where the water is used: 9-1-15-4/4 Does the declarant own this land? No
   If not, who does? Campbell Estate

2. What is the water used for? Sugar cane irrigation
   If for irrigation, how many acres are being irrigated by crop type? 622.719 acres in 1 field # 3, 4, 6, 8
   If for livestock, how many and what kind? N/A
   If for drinking, at how many houses? N/A by how many people?

3. Is the quantity of water use being measured? No
   If yes, document the location of the measurement point and method of measurement; also get use records if these were not submitted previously.

4. If this person takes from a multi-user pipe or ditch system: N/A
   How is the water taken from the system?
   What is the capacity for taking (gpm)?
   How often is it taken (used)?

PART II: WATER SOURCE

Source #: 2006-01-11 Name: EP10 Battery

1. Where does the water come from / what kind of source is this? Drilled well
   Types of sources include:
   1) Wells (drilled, dug, tunnel)
   2) Diversions (ditch, pipe, pump, or livestock from a stream, spring, swamp, pond)
   3) Multi-source systems. (Declared use cannot be traced to a single well or diversion)
   NOTE: If a multi-user system: take from pipe or ditch (need to determine whether this is a multi-source or single-source system before the data can be input to the computer
   4) Instream (i.e., crops planted along water edge)

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? Pump 10A only one in use 300 HP Siemens-Allis pump
   What is the capacity for taking (gpm)? 5725 gpm
   How often is it taken (used)?

3. Tax Map Key at the source: 9-1-15-4. Determine declarant's relation to source. Does the declarant:
   1) Operate and maintain the source? Yes
      If not, who does?
   2) Own the land at the source? No
      If not, who does? Campbell Estate
   3) Use the water from this source? Yes
      If not, who does?
   4) Own the land where the water is being used? No
      If so, why did they file?
   5) None of the above? If so, why did they file?

4. Does anyone else also use water from this source? No
   If yes, is their use included in this user's declaration? Yes
   Who are the other users? Did they file?

VERIFIED BY: Susan Swanson/Richard Jinnel DATE: 5-11-94

* Also there is a 7.5 HP Siemens Allis pump 40 gpm capacity pump off pump 13 that previously was used for domestic water for a poultry farm. No longer in use.
Palailai - (Ewa Plantation) EP 10 - a battery of 11 wells

FIELD INSPECTION INFORMATION FOR WATER USE DECLARATIONS FOR OAHU SUGAR CO. WELLS

Inspection Date: May 11, 1994

Water Use Declarant: Oahu Sugar Co. Telephone #: 671-4330 (Hugh Morita)

Present: Hugh Morita, Irrigation Engineer, Oahu Sugar Co.
Richard Jinnai
Susan Swanson

Tax Map Key of Source: 9-1-15:4
Tax Map Key of Use: 9-1-14:2, 9-1-15:1 & 4

Pump Name and Numbers: EP 10, State Well #'s 2006-01 to 2006-11

Description of Well Battery: A series of eleven 12" diameter artesian wells drilled between 1908 and 1923 that transmit water to three main pumps known as EP 10, 11 & 12. There is also a smaller pump "13" (7.5 hp) that is connected to the Pump 12 pipeline. The wells have had several names and numbering systems designating them. OSCo provided us with a diagram of the locations of the eleven 12" wells but didn't know the well numbers for the specific casings. Glen Oyama, BWS, provided us with a 1926 well diagram with the well numbers 228A-K, later changed to 276A-276K. The State Well Registry lists the new state well numbers for each casing, 2006-01 to 11. The attached diagram combines both sources of information.

Draw sketches of pumphouse with location of each pump, the well locations and any other pertinent information. - attached.

How many pumps are present? There are three main headers EP 10, 11 & 12. Present are: a pump and motor for pump 10 (now called 10A), nothing of old pump 11 (now called 10B), the pump but no motor for pump 12, and a pump and motor (called Pump 13), which also takes off the pump 12 header.

How many pumps are in functioning condition? Two - a 300 hp (10A) and a 7-1/2 hp (EP 13)

How many pumps are being used? One - 10A, a 300 hp Siemens Allis Chalmers pump used to irrigate 622 acres of sugar cane. Last date you r. 12/26/94

How many wells are connected to each pump? If the BWS sketch is correct, 4 wells to EP 10; 4 wells to EP 11; three wells to EP 12.

Are several pumps operated at the same time? not currently
EP 10 - State Wells 2006-01 to 11  
Field Inspection Memo  
Inspected 5/11/94

<table>
<thead>
<tr>
<th>Old Pump #</th>
<th>New Pump #</th>
<th>Pump Make</th>
<th>Model/HP</th>
<th>GPM</th>
<th>IN USE ??</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 10</td>
<td>Pump 10A</td>
<td>Siemens Allis</td>
<td>300 hp</td>
<td>5750 gpm</td>
<td>yes</td>
</tr>
<tr>
<td>Pump 11</td>
<td>Pump 10B</td>
<td>No motor</td>
<td>No pump</td>
<td></td>
<td>no</td>
</tr>
<tr>
<td>Pump 12</td>
<td>3500 gpm pump/no motor present</td>
<td>Siemens Allis</td>
<td>No motor</td>
<td>3500 gpm</td>
<td>no</td>
</tr>
<tr>
<td>Pump 13</td>
<td>40 gpm pump, not currently being used</td>
<td>Siemens Allis</td>
<td>7-1/2 hp</td>
<td>40 gpm</td>
<td>no, but operable</td>
</tr>
</tbody>
</table>

Pump type: all electrically powered

Area of Use: At the time of declaration (5/89) listed 578 acres of sugar cane plus water for a poultry farm. At time of inspection, Fields 3, 4, 6, 8 (sugar cane) were being irrigated, totaling 622.717 acres. With Oahu Sugar's demise in 1995, these are some of the last fields to be harvested (3/95). Fields 3, 6 & 8 were irrigated to the end of December 1994, and are expected to "ripen" until March.

Susan Swanson, CWRM Staff
December 6, 1991

Mr. Manabu Tagomori  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P. O. Box 373  
Honolulu, HI 96809

Dear Manabu:

Enclosed are a listing of fields actually withdrawn from Oahu Sugar Company's demise by Campbell Estate via Area and Rental Agreements and a list of basal well by well pumpage requirement to total 60.62 MGD when our present allocation is readjusted.

If any other information is required, please give me a call.

Very truly yours,

[Signature]

W. D. Balfour, Jr.  
Vice President and Manager

WDB:yk  
enclosures
OAHU SUGAR COMPANY, LTD.
Recommended Distribution of Revised 60.62 MGD
Basal Groundwater Allocation

Koolau Sub-area:
'EP2' 0.000 MGD
EP3,4 3.304 MGD
EP5,6 8.000 MGD
EP7,8 6.813 MGD
EP15,16 12.154 MGD
WP17A,17B 0.000 MGD
WP1 1.151 MGD
WP2A,2B 5.594 MGD
WP2C,4C 5.594 MGD
WP4A,4B 4.000 MGD
WP6A,6B 0.000 MGD
WP7A,7B,7C 9.000 MGD

TOTAL 55.610 MGD

Waianae Sub-area:
WP5 0.000 MGD
EP10 5.010 MGD

TOTAL 60.620 MGD
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<tr>
<th>Rental Agrmt #</th>
<th>Effective Date</th>
<th>Signed Date</th>
<th>Field Number</th>
<th>Cane Area Withdrawn</th>
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<td>Completed Agreements:</td>
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<tr>
<td>61</td>
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<td>8/16/88</td>
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<td>10/12/90</td>
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</table>
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 ONO, Chairman

6/10/82

ITEM D-1

R12
RESUBMITTAL

(Deferred Item D-2 of March 26, 1980 meeting)

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

April 11, 1980

Gentlemen:

Certification of Water Withdrawals and Uses
Pearl Harbor Ground Water Control Area, Oahu

The Pearl Harbor Ground Water Control Area (GWCA) which includes the Ewa and Wahiawa judicial districts, was designated for State regulation by the Board of Land and Natural Resources (BLNR) in September 1979 under authority of Chapter 177, HRS., and the Department of Land and Natural Resources (DLNR) Regulation 9. The regulatory procedures call for the BLNR to certify existing water withdrawals and uses and to issue permits for new ground water developments in the Pearl Harbor Ground Water Control Area.

The users of water within the Pearl Harbor Ground Water Control Area have submitted records of pumpage to the Department and from these submittals the annual withdrawals and maximum daily pumpage for individual wells and/or well fields are tabulated as shown in the attached "Certification of Water Withdrawals and Uses" which is made a part herein. As a result, the following is recommended for certification of existing uses:

<table>
<thead>
<tr>
<th>User</th>
<th>Average Annual Withdrawal (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Water Supply</td>
<td>78.350</td>
</tr>
<tr>
<td>U.S. Navy</td>
<td>22.350</td>
</tr>
<tr>
<td>U.S. Army</td>
<td>5.455</td>
</tr>
<tr>
<td>Private</td>
<td>5.851</td>
</tr>
<tr>
<td>Oahu Sugar Company</td>
<td>115.000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>224.413</strong></td>
</tr>
</tbody>
</table>

Oahu Sugar Company submitted figures which exceeded the 115 mgd listed above but because their submission represents unmeasured pumpages, the Department's staff is recommending that 115 mgd be certified. Oahu Sugar, in the meantime, will investigate the matter and if deemed necessary will request that the Board hold a hearing as is allowed under Section 4.4 of Regulation 9 of the Department of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing uses and quantity of withdrawal for each well as indicated in the attached "Certification of Water Withdrawals and Uses" dated April 11, 1980 which reflects the recommended withdrawal quantity as follows: Board of Water Supply at 78.35 mgd; U.S. Navy, 22.35 mgd; U.S. Army, 5.455 mgd; Private, 5.851 mgd; and Oahu Sugar Company, 115.0 mgd; subject to the provisions of applicable laws and rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

A5
MOTION

Based on the submittal of the staff dated April 11, 1980, I move that the Board approve the issuance of conditional certification to the major users of the ground water who have filed the prescribed declarations, in the amounts recommended by the staff in its submittal dated April 11, 1980, subject to the following:

1. Submission by each user of a water use plan, meeting the management objectives and policies of the Board, within 3 months from the issuance of such objectives and policies by the Board in the State's water management plan.

2. Approval of the water use plans by the Board.

3. Review of the conditional certification within the next 3 years.

4. Reduction in the quantity of water conditionally certified in the event that such water is not being beneficially used as defined by law or that the water use plan is not being implemented effectively.

5. Adjustment in quantity, in the case of Oahu Sugar, upon the installation of a new and more accurate metering system, but in no event will said adjustment exceed the amount of the 1979 withdrawal as contained in the declared use attached to the submittal.
# STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

CERTIFICATION OF WATER WITHDRAWALS AND USES
Pearl Harbor Ground Water Control Area
April 11, 1960

## DECLARED EXISTING USE

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Use</th>
<th>Source Capacity (mgd)</th>
<th>5-Year Average (mgd)</th>
<th>1979 (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OAHU SUGAR CO.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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## BOARD OF WATER SUPPLY

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<th>Source Capacity (mgd)</th>
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<th>1979 (mgd)</th>
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Subtotal (In-District) 43 65.10 20.670 22.620 61.910 5,055.000 22.620

Export to Honolulu

Kalama Wall 2119-03 1 Muni. 22.00 15.600 14.200 16.970 5,213.200 (14.200)
Kahaluu Wall 2134-06, 07 3 Muni. 6.00 1.070 1.920 2.140 736.200 (1.920)
Kohala Wall 2333-37 to 39 3 Muni. 13.00 10.900 11.750 13.620 4,264.000 (11.750)
Puunene Wall 2457-06, 09 to 13 6 Muni. 13.50 12.050 11.970 14.540 4,260.000 (11.970)
Kahului Wall 2200-01, 02, 03 6 Muni. 13.00 12.050 11.970 13.620 4,264.000 (11.970)
Waianae Wall 2201-02, 09, 11 3 Muni. 5.00 0.660 1.130 1.150 486.150 (1.130)
Kaimuki Wall 2201-02, 09, 11 3 Muni. 5.00 0.660 1.130 1.150 486.150 (1.130)

Subtotal (Export to Honolulu) 23 85.10 46.600 45.800 64.800 13,513.200 (45.800)

Export to Ewa-Walama

Ewa-Walama

Koae Wall 2201-02, 09, 11 6 Muni. 14.40 8.450 8.620 12.000 2,512.600 (8.620)

Subtotal (Export to Ewa-Walama) 18 24.00 16.900 11.280 22.000 4,163.200 (11.280)

TOTAL (Board of Water Supply) 76 162.00 72.340 78.660 129.600 30,000.700 (78.660)
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*Withdrawal to be certified shall be equal to the existing pump capacity.*
WATER USE PERMIT NO. 670

This report has been prepared in accordance with 13-171-22(b) of the Hawaii Revised Statutes requiring a 20-year review of issued water use permits to determine permit compliance. Following is a summary of permit information, site characteristics, methodology, findings, and recommendations for this State permit file.

Permit Information

| Water User:                  | Aina Nui Corporation  
|                             | 1001 Kamokila Blvd.  
|                             | Kapolei, HI 96707    |
| Landowner of Source:         | Aina Nui Corporation  
|                             | 1001 Kamokila Blvd.  
|                             | Kapolei, HI 96707    |
| Permitted Withdrawal Rate:    | 0.957 mgd (Based upon a 12-month moving average) |
| Water Management Area:       | Ewa-Kunia            |
| Island:                      | Oahu                 |
| Aquifer Sector/System:       | Pearl Harbor/Ewa-Kunia |
| System Sustainable Yield:    | 16 mgd               |
| Water Type:                  | Non-Potable          |
| Original CWRM Date:          | January 26th, 2000   |
| Standard Conditions:         | 1-19                 |
| Special Conditions:          | 1-2                  |

Water Source

| State Well Number(s):        | 2006-02, 2006-04, 2006-06 |
| Well Name:                   | EP 10                    |
| Water Source TMK Number(s):  | 1st Division, 9-1-015:004 |
| State Land Use Classification(s): | Agriculture/Urban |
| County Zoning Classification(s): | AG-1                     |
| Geographical Coordinates:    |                          |
| Well No. 2006-06             | Latitude 21° 20' 05.2" North  
|                             | Longitude 158° 06' 25.6" West |
| Well No. 2006-04             | Latitude 21° 20' 04.6" North  
|                             | Longitude 158° 06' 25.5" West |
| Well No. 2006-02             | Latitude 21° 20' 04.9" North  
|                             | Longitude 158° 06' 26.2" West |
End Use

End Use TMK Number(s): 1st Division, 9-1-014:027, 9-1-015:001
State Land Use Classification(s): Agriculture/Urban
County Zoning Classification(s): AG-1/1-2/1-3
Beneficial Use Explanation: Use for dust control at mulch production site

Background Information

State Well Nos. 2006-02, 2006-04, and 2006-06 were originally part of a larger battery of wells (State Well Nos. 2006-01 thru -11) that were property of Oahu Sugar Company. The 11 wells were all subsurface wells that emptied into a large chamber. A pump house built at grade above the chamber pumped water from the chamber, through a valve and metering station, and into the irrigation system of various sugar cane fields. In 1995, modifications were made to the EP 10 battery that involved the abandonment of seven of the wells and the EP 10 chamber. According to the drawings, four wells were modified for future use by extending the well casing to grade and removing the necessary connections from the shaft that fed water into the EP 10 chamber. Reference the permit file for drawings of the previous system and proposed improvements.

Consistent water use reporting records are available for at least the past four years. The permittee’s 12-month moving average has not exceeded the permitted allocation of 0.957 mgd during this time. Reference the permit file for additional information on reporting history.

Water Use Permit 670 was approved for transfer on December 16th, 2003 by the Commission on Water Resource Management. Standard conditions 1-19 and special conditions 1-2 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the final summary report to the Legislature for this 20-year Water Use Permit Review.

Field Investigation Information

Contact: Peter Gibson
Site Address: EP 10 Battery
Kapolei, HI 96707

Brown and Caldwell conducted a field investigation on March 27th, 2008 from 9:00 a.m. until 11:00 a.m. with Mr Peter Gibson. During this time, type of water usage was verified, GPS coordinates of well head(s) were recorded, flow meter installation and functionality were documented, and property TMK information was verified. The wellhead, its related
appurtenances, and water usage area were visually inspected to assess compliance with permit
conditions. Visual inspection of water loss/waste was limited to outdoor areas within the usage
boundary. The physical location of this site is down a dirt access road that runs west from the
Honolulu Advertiser building in Kapolei. Reference the TMK and GIS maps in the permit file
for a visual representation of the site.

Summary of Findings for Water Use Permit No. 670

After investigation, it was found that there are only three wells present at the EP 10 battery site.
The permittee has advised that the location of the fourth well that was included in the 1995 EP
10 improvements is unknown. It is the opinion of Brown and Caldwell that the location of this
fourth well should be investigated further. The wells present are 2006-06, 2006-04, and 2006-02
and shall be named Well 1, Well 2, and Well 3. Within the fenced in area using the control
system housing as a reference point, Well 1 is to the northeast, Well 2 is to the southeast, and
Well 3 is to the west. The wells are located on TMK parcel 9-1-015:004 inside of a fenced in site
at 21° 20' 05.2" N, 158° 06 25.6" W (±15 ft.), 21° 20' 04.6" N, 158° 06 25.5" W (±15 ft.), and
21° 20' 04.9" N, 158° 06 26.2" W (±15 ft.), respectively. Currently, only Well 1 and Well 2 are in
use. Well 3 is being serviced and is planned to be put back into use in the future. Flow from
Well 1 and Well 2 are combined at a valve and metering station and sent via underground PVC
piping to TMK parcels 9-1-014:027 and 9-1-015:001 where the water is used for dust control in a
mulch production operation. The system is manually controlled by an operator that monitors the
pressure on a daily basis. Reference the Appendix for photographs of the previously described
system components.

The only evidence of the old EP 10 system is a gate valve that sits at the bottom of a 4-ft.
diameter shaft that extends approximately 40-ft. below grade. Fine dust and sand have nearly
submerged the entire valve, indicating that it has not been in use for quite some time. Pictures of
the aforementioned shaft and gate valve have also been included in the Appendix.

Based upon visual inspection of the system, all components appear to be in full working order.
The permittee demonstrated functionality of an installed flowmeter and provided access to the
site grounds where no wasting of water or water loss was observed. Water use is currently being
reporting on a monthly basis with no recent evidence of overpumpage violations.

However, the following are a list of standard condition(s) that the permittee is found to be in
non-compliance with:

B R O W N  A N D  C A L D W E L L
Summary Report for Water Use Permit No. 670
An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis.

Since no salinity reports are being submitted to the Commission, the permittee is found to be in violation of Standard Condition (10).

The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

Since a number of wells permitted under WUP 670 have been abandoned without notification to the Commission, the permittee is found to be in violation of Standard Condition (15).

Recommendations

- Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  - Water source and end use TMK numbers
  - Beneficial use explanation
  - State land use and county zoning classifications
- Address issue of the status/location of the fourth well that was included in the 1995 renovations to the EP 10 well battery
- Address violation of Standard Condition (10) regarding non-reporting of salinity levels.
- Address violation of Standard Condition (15) regarding non-use of wells for over a four year period with no notification to the Commission.
20-Year Water Use Permit Review
Water Use Permit No. 670

APPENDIX

Field Investigation Photographs
Summary Report for Water Use Permit No. 670
Figure 3 – State Well No. 2006-02 (Well 3)

Figure 4 – Valve and metering station
Figure 5 - System flowmeter

Figure 6 - Distribution piping to end use location
Figure 7 – System controls

Figure 8 – Control system housing
Figure 9 - End use for dust control at mulch production site

Figure 10 - Shaft leading to valve from old EP 10 system (approx 40 ft deep)
Figure 11 – Old gate valve
Standard Conditions List

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization, which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its <Insert Date> meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

Variations of Standard Condition (8) are as follows:
   i. Modification of any permit condition shall be approved by the Commission. Modification of any permit condition without notification may result in the revocation of the water use permit.
9. This permit may be modified by the Commission and the amount of water initially
granted to the permittee may be reduced if the Commission determines it is
necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as
      of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if
      applicable; or
   g. Carry out such other necessary and proper exercise of the State’s and the
      Commission’s police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action
to the permittee and provide the permittee an opportunity to be heard

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a
    monthly record of withdrawals, salinity, temperature, and pumping times must be
    kept and reported to the Commission on Water Resource Management on forms
    provided by the Commission on a monthly basis (attached).

Variations of Standard Condition (10) are as follows:
   i. The applicant shall keep monthly pumpage estimates to be submitted
      annually to the Commission.
   ii. An approved flowmeter(s) need not be installed to measure monthly
       withdrawals and a monthly record of withdrawals, salinity, temperature, and
       pumping times must be kept and reported to the Commission on Water
       Resource Management on forms provided by the Commission on a yearly
       basis (attached).
   iii. An approved flowmeter(s) must be installed to measure withdrawals and a
        monthly record of withdrawals, water-levels, salinity, and temperature must
        be kept and reported to the Commission on a monthly basis in accordance
        with the Commission’s September 16, 1992 action on reporting
        requirements.
   iv. Approved flowmeters must be installed to measure monthly withdrawals
       and a monthly record of withdrawals must be kept and reported to the
       Commission on Water Resource Management on a monthly basis.
   v. An approved flowmeter(s) must be installed to measure monthly
      withdrawals and a monthly record of withdrawals, salinity, temperature, and
      pumping times must be kept and reported to the Commission on Water
      Resource Management on forms provided by the Commission on a
      quarterly/yearly basis (attached).
   vi. An approved flowmeter shall be installed to measure water withdrawals
   vii. An approved flowmeter(s) must be installed to measure withdrawals; and a
        record of the withdrawals must be kept and reported to the Department of
Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, HI 96809, on a monthly basis.

viii. Although not stated as a condition of the permit §13-168-7 HAR requires you to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form.

ix. An approved flowmeter shall be installed and the withdrawal from Well 1851-73 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the well.

x. The withdrawals from these wells shall be recorded and reported to the DLNR on a monthly basis by the BWS.

xi. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting water usage on a monthly basis.

xii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

xiii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission along with water level and salinity measurements.

11. This permit shall be subject to the Commission's periodic review of the <Aquifer> Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the <Aquifer> Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

   Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The uses(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter
into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the <Aquifer>Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter or attached exhibits are incorporated herein by reference.

20. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

Variations of Standard Condition (20) are as follows:

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

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission’s prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
Special Conditions List

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff's review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kaluakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health’s Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.’s application for uses in excess of those uses existing on July 15, 1992 will be considered “new” uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant’s staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant’s request as opposed to staff’s calculations.
   c. The Commission’s enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, &-04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this 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.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfered substantially and materially with existing individual household uses and existing uses.

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

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

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to in form the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH’s requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as “DO NOT DRINK, NON-POTABLE” to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac+) and the associated TMK’s for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to by and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission's sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission’s sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health’s Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at 808-586-4258 (Honolulu).

101. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

102. The water to be withdrawn under this permit shall be a total of 0.03 mgd (0.02 mgd preserved plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use

103. Existing well 1851-09 shall be properly sealed by a licensed drilling contractor. A well modification permit application, enclosed, shall be submitted to the Department for approval of the well sealing. A filing fee for sealing the well will not be required.
104. The permittee is required to test the source using a certified private laboratory and submit the test results to the Commission within three (3) months. The Commission will then forward the results to the Department of Health for their review. The Department of Health recommends that the well be routinely tested for microbiological and chemical parameters thereafter.

105. The permittee is required to submit a completed Registration of Well and Declaration of Water use by <Insert Date>.

106. The permittee shall contact the Department of Health for a written determination on the status of their water system and comply with any Department of Health requirements for monitoring and testing.

107. In the event that the original spring source decontaminates, the new well authorized will be shut down.

108. That within each aquifer the total permitted use shall not exceed the sustainable yield.

109. That any water available for allocation shall be for in-district use.

110. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an Osco lease or sub-lease, whichever occurs later.

111. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

112. That the permit shall be an interim permit for a new use which is afforded to existing users as specified in §13-171-20.

113. That the original allocation of 0.200 mgd shall be taken to hearing for possible revocation at a later date to complete the transfer of the water use permit entirely to Well No. 3407-02. This revocation would reduce the current allocation afforded to the Kunihiro Well (Well No. 3406-06) to zero.

114. This allocation incorporates the unspecified domestic needs of the applicant and therefore necessitates a single meter be installed at the well.

115. Should any impacts to nearby wells or streams be established by the use of this well, the applicant shall address these issues to the satisfaction of the Commission.

116. If an economically feasible nonpotable source is identified, the applicant shall convert to the alternative nonpotable source.

117. The permit shall be subject to the Chairperson’s approval of a water use plan recommending possible measures to prevent or minimize saltwater contamination and establish courses of action to follow should the aquifer become to saline to use.
118. Permittee shall provide the necessary end-use information on the 10th residence to allow regulation of the use under Chapter 174C.

119. Standard Conditions 10 & 18 shall not apply.

120. Standard Condition 10 is modified to exempt the permittee from the requirement to install a flowmeter. Salt water withdrawals may instead be estimated based on pumping capacity and run time.

121. The applicant shall review the existing year long period of pumpage and streamflow data and provide analysis on ground and surface water interaction. Deadline is January 25, 1994.

122. The water use permit for Well Nos. 2301-27 to -32 for 0.75 mgd (WUP No. 419) shall be revoked upon issuance of a pump installation permit for the well.

123. The permittee shall use mulching to decrease evaporative losses and manage irrigation scheduling to minimize water demand.

124. The permittee shall submit a detailed agricultural plan to support any future water use permit application for increased agricultural use at this parcel.

125. If not already obtained, the permittee shall seek and obtain any necessary permits from the Department of Health for the proposed discharge to Malaekahana Stream.

126. Standard Condition 10 is modified to waive the requirement for installing a water meter on Well Nos. 2358-21, 22, and 29. The permittee shall install a water meter on Well No. 2358-26 to measure total monthly flow through the discharge line. This quantity should then be assumed to be the rate of natural flow from the other three wells for monthly reporting purposes.

127. The permit shall be effective upon submittal of documentation by Navy that it has met the DOH requirements for a public system.

128. This WUP shall be subject to Army's application for a WUP to reduce the permitted use of the Army's Schofield Shaft (2901-02 to 04, 10) by 0.208 mgd to a new total of 5.648 mgd. The Army's application shall be submitted within 60 days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the CWRM prior to use of Well No. 3100-02 and issuance of this WUP.

129. Navy shall submit an after-the-fact PIPA, and approval of the permit shall be obtained prior to use of the well.

130. The well shall not be used for drinking water purposes unless it is properly tested and treated.
131. This permit is approved subject to reclaimed water becoming a practical alternative and provided that the Department of Health approves the reuse application.

132. Should any opae ula be recovered in the well water, the permittee shall notify the Division of Aquatic Resources and provide specimens to the Division of Aquatic Resources for analysis.

133. If a single meter at the well is used, the Commission shall allow an additional 1,000 gallons per day to the water use permit amount for the domestic needs of two residences, although a permit for individual domestic consumption is not required. Otherwise, the applicant must provide a meter to separately measure the irrigation consumption.

134. This permit is approved under the requirement that conversion to either: 1) treated wastewater becoming available for reuse as an alternative supply source, provided that Department of Health concerns over the use of treated effluent over the potable water aquifer have been addressed; and/or 2) other nonpotable source becoming available will occur in a timely manner.

135. These permits shall be subject to a review of actual use within four years for possible modification of the permitted amount.

136. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

137. The allocation is based on the projects listed in Exhibit 5 (of Item 10 of the May 20, 1998 Staff Submittal), except for the Queen’s Beach GC (TMK 139-11-2,3), Lot 9 (TMK 139-17-51), and Varsity Place (TMK 128-24-35).

138. Kamehameha Schools Bishop Estate/Honolulu Board of Water Supply shall transfer the water use permit within ninety (90) days of the effective date of the transfer of the pump station to the Honolulu Board of Water Supply, pursuant to §174C-59 Hawaii Revised Statutes.

139. The permittee shall ensure that the water is recycled by either directing it into the Waiahole Ditch for use by downstream farmers (subject to the approval of the Agribusiness Development Corporation’s Board) or into Waieke Farm’s existing irrigation system.

140. The permittee shall file a completed application to modify WUP No. 758 to reduce the allocation by 0.100 mgd within 60 days. If a completed water use permit modification application is not received within 60 days from this submittal’s date, then the subject water use permit application (WUPA No. 767) shall be deemed denied without prejudice without the need for another hearing.

141. The water withdrawn shall be for municipal use. No improvements to the existing sources are required as the existing source capacities are greater than the increase.
142. Water license must be determined through LM.

143. Proposed other uses will be considered at a later date.
Water Use Permit Survey
(Please complete one survey form for each WUP)

Contact Information (of the person who will be present at site visit):
Name: Peter Gibson
Phone (for phone interview): ____________ Fax: 674-3111
Email: ____________ Best time to reach for phone interview: 8am - 4pm

Property Information (of the water use/well location):
Address: E P 10
City: Kapolei Zip: 96707
Well Location TMK (list all if multiple wells present): 9-1-15-1
Water Use TMK (list all if used on multiple lots): 9-1-14-33

Water Use/Well Information:
Is the water source currently in use? Yes X No
If no, please explain: ____________________________

What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences"): Production of mulch.

Is a flow meter installed and working properly? Yes X No
If no, please explain: ____________________________

Do you submit monthly water use reports to the State? Yes X No
If no, please explain: ____________________________

Field Investigations:
A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (M-F): Tuesday Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]
Option #2 Date (M-F): Wednesday Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]
Option #3 Date (M-F): Thursday Time: 9:00 am [ ] 12:00 pm [ ] 3:00 pm [ ]

Once this survey is returned, a Brown and Caldwell representative will be contacting you to conduct a phone interview and finalize the exact date and time of your field investigation. Please fax/mail completed surveys by December 12th, 2007 and direct any questions related to this survey to Mr. Milo Smith of Brown and Caldwell at:
1099 Alakea Street, Suite #2400
Honolulu, HI 96813
Tel: (808) 203-2661
Fax: (808) 533-0226
mcsmith@brwncald.com

Received: 12/21/07 Information Updated: 12/26/07 Phone Interview Complete: 3/1/10
Notes/Comments: ____________________________

For Official Use Only
Phone Interview

WUP Number: 670
Well Number(s): 2006-01 to -11

Contact Name: Peter Gibson

Attempt #1: Date/Time: 3/1/06 (3:03) Phone Number: 674-3279
Result: Reached

Attempt #2: Date/Time: N/A
Result: N/A

Well Location TMK(s): 9-1-016:001
Water Use TMK(s): 9-1-014:033

Water Source Address: ED 10 wells
City: Kapolei
Zip Code: 96707

Currently using water source? Yes ☑ No ☐

Notes/Comments: Use for production of mulch

How often is the water source being used? Daily ☐ Weekly ☐ Monthly ☐

Notes/Comments:

How long have you been using this water source?:

Has there been any rezoning of the water source/water use properties? Yes ☐ No ☑
Have you reported the rezoning to the State? Yes ☐ No ☐ N/A ☑
If no, explain:

Scheduled field investigation day/time: 3/27/06 @ 9:00

Notes (Special directions, site conditions, potential hazards, general notes, etc.):

• Meet at Honolulu Advertiser building parking lot (Mauka side)
• Peter will be driving a white Toyota Tacoma

Comments To Make:
• Although we prefer that you do not change your scheduled field investigation time, if you require a reschedule, you must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.
• A representative from Brown & Caldwell will be making a reminder phone call to you sometime during the week prior to your scheduled field investigation.
• It is very important that you provide access to the site at the day and time agreed upon. Due to a very tight schedule, if you fail to provide access at the agreed upon time and/or do not reschedule with at least a five (5) working day notice, a makeup date will not be allowed.
• If for some reason you don’t know where your well head is located, it would be a good idea to locate it prior to your field investigation to help make the visit go quickly and smoothly.

Interviewed By: M.S. Date: 3/1/06 Time: 3:00 p.m.
# Field Investigation Checklist

**WUP Number:** 670  
**Well Number(s):** 2006-01 to -11

## Water Source

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Location TMK(s):</td>
<td>9-1-015:004</td>
</tr>
<tr>
<td>Well Head GPS Coordinates:</td>
<td></td>
</tr>
<tr>
<td>Latitude:</td>
<td>Below</td>
</tr>
<tr>
<td>Longitude:</td>
<td>Below</td>
</tr>
<tr>
<td>Well Type:</td>
<td>Submersible Pump</td>
</tr>
<tr>
<td>Currently using water source?</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>Notes/Comments:</td>
<td>2 wells in use, 1 non-operational. Only 3 wells total; not 11 as listed on permit.</td>
</tr>
<tr>
<td>Is there a flow meter installed?</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>Is the flow meter operational</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>Notes/Comments:</td>
<td></td>
</tr>
</tbody>
</table>

## Water Use

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Use TMK(s):</td>
<td>9-1-015:001, 9-1-014:027</td>
</tr>
<tr>
<td>What is the water being used for?</td>
<td>Menchone Green/Hawaiian Earth Products Dust control at a mulch production site</td>
</tr>
<tr>
<td>Is the water being used within the permitted boundaries?</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>If no, explain</td>
<td></td>
</tr>
<tr>
<td>Is there any observed wasting of water or water loss?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>If no, explain</td>
<td></td>
</tr>
<tr>
<td>Are the permit conditions being complied with?</td>
<td>Yes ☒ No ☐</td>
</tr>
<tr>
<td>If no, explain</td>
<td></td>
</tr>
</tbody>
</table>

## Other

<table>
<thead>
<tr>
<th>Photographs of:</th>
<th>Value</th>
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<tbody>
<tr>
<td>Water Source</td>
<td>☒</td>
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<tr>
<td>Water Meter</td>
<td>☒</td>
</tr>
<tr>
<td>Usage Area</td>
<td></td>
</tr>
<tr>
<td>Pump/Motor</td>
<td>☒</td>
</tr>
</tbody>
</table>

| General Notes/Comments: | Only 3 wells at site; permittee was unsure as to why 11 wells were listed. |

**Investigated By:** M.S  
**Date:** 3/27/06  
**Time:** 9:00 a.m.
December 16, 2003

Mr. Bert Hatton
Aina Nui Corporation
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Mr. Hatton:

Transfer of Water Use Permit for Well Nos. 2006-01 to 11
Ewa-Kunia Ground-Water Management Area, Oahu

Thank you for notifying us of the transfer of the water use permit for Well Nos. 2006-01 to 11 from The Estate of James Campbell to Aina Nui Corporation, effective June 25, 2003.

This letter transmits your water use permit for EP 10 (Well Nos. 2006-01 to 11) for use of 0.957 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on January 26, 2000. This water use permit, WUP No. 670, shall supersede WUP No. 535. As part of the Commission’s approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

**Special Conditions**

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa-Kunia Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission’s overall Water Shortage Plan.

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

Sincerely,

[Signature]
Peter T. Young
Chairperson

Attachments
# GROUND-WATER USE PERMIT

## WUP NO. 670

### PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aina Nui Corporation</td>
<td>Same</td>
</tr>
<tr>
<td>1001 Kamokila Blvd.</td>
<td></td>
</tr>
<tr>
<td>Kapolei, HI 96707</td>
<td></td>
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</tbody>
</table>

### PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>Pearl Harbor</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>Ewa-Kunia</td>
</tr>
<tr>
<td>Aquifer System</td>
<td></td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>16</td>
</tr>
<tr>
<td>Well Name</td>
<td>EP 10</td>
</tr>
<tr>
<td>State Well No.</td>
<td>2006-01 to 11</td>
</tr>
</tbody>
</table>

### PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.957 mgd</td>
</tr>
<tr>
<td>Location of water use</td>
<td></td>
</tr>
<tr>
<td>TMK #</td>
<td>9-1-15:1</td>
</tr>
<tr>
<td>Address</td>
<td>Ewa</td>
</tr>
<tr>
<td>State land use classification</td>
<td>NA</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>NA</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:

---

*Footer information*
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

11. This permit shall be subject to the Commission's periodic review of the Ewa-Kunia Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.
14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kunia Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

PETER T. YOUNG, Chairperson
Commission on Water Resource Management
September 10, 2003

Ref: 2006-02&06.let

Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Cancellation of Water Use Permit Application
EP 10 (Well Nos. 2006-02 & 06)
Ewa-Kunia Ground Water Management Area, Oahu

This follows a September 9, 2003 telephone conversation between George Hiu and my staff regarding the status of the above-referenced application. According to Mr. Hiu, the ground water allocation requested in the application is no longer needed because Chevron has obtained reclaimed water to meet their industrial needs. As such, the above-referenced application is being cancelled.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

[Signature]
ERNEST Y.W. LAU
Deputy Director

LN:ss
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Notice of Action
Approval of Water Use Permit for Well Nos. 2006-01 to 11
Ewa-Kunia Ground Water Management Area, Oahu

This letter transmits your water use permit for EP 10 (Well Nos. 2006-01 to 11) for use of 0.957 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on January 26, 2000. As part of the Commission’s approval, the following special conditions were added and are part of your permit under Standard Permit Condition 20:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. Standard Condition 18 for interim permits shall not apply.

4. This water use permit, WUP No. 535, shall supersede WUP No. 121.

5. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

The Commission also reclassified the pending application for EP 10 (WUPA No. 493) as an application for a new water use (as opposed to an application to modify WUP No. 121).

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form
Please be sure to read the conditions of your approved permit. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa-Ku'ula Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission’s overall Water Shortage Plan.

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

Aloha,

TIMOTHY E. JOHNS
Chairperson

Attachments
GROUND-WATER USE PERMIT
WUP NO. 535

PERMITTEE

Permittee/Water User
THE ESTATE OF JAMES CAMPBELL
1001 KAMOKILA BLVD.
KAPOLEI, HI 96707

Landowner of Source
SAME

PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>OAHU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>EWA-KUNIA</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>PEARL HARBOR</td>
</tr>
<tr>
<td>Aquifer System</td>
<td>EWA-KUNIA</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>20 mgd</td>
</tr>
<tr>
<td>Well Name</td>
<td>EP 10</td>
</tr>
<tr>
<td>State Well No.</td>
<td>2006-01 TO 11</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

| Reasonable beneficial use | AGRICULTURE (based on 330 ACRES) |
| Withdrawal (12 month moving ave.) | 0.957 mgd |
| Location of water use | |
| TMK #                 | 9-1-VARIOUS |
| Address               | EWA, OAHU |
| State land use classification | AGRICULTURE |
| County zoning classification | AG-1 |

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   - Can be accommodated with the available water source;
   - Is a reasonable-beneficial use as defined in HRS § 174C-3;
   - Will not interfere with any existing legal use of water;
   - Is consistent with the public interest;
   - Is consistent with State and County general plans and land use designations;
   - Is consistent with County land use plans and policies; and
   - Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   - A separate water use permit for surface water must be obtained in the case the area is also designated as a surface water management area;
   - The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its January 26, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   - Protect the water sources (quantity or quality);
   - Meet other legal obligations including other correlative rights;
   - Insure adequate conservation measures;
   - Require efficiency of water uses;
   - Reserve water for future uses, provided that all legal existing uses of water as of June, 1967 shall be protected;
   - Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   - Carry out such other necessary and proper exercise of the State’s and the Commission’s police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission’s periodic review of the Ewa-Kunia Aquifer System’s sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Ewa-Kunia Aquifer System, or relevant modified aquifer(s), is reduced.
13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee’s water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Ewa-Kunia Ground-Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years of the filing of the application.

19. The water use permit shall be subject to the Commission’s establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

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

21. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

TIMOTHY E. JOHNS, 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 and understand that I do not hold a valid permit until I have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the date of this permit approval.

Permittee's Signature: ___________________________________ Date: ______________________

Printed Name: ___________________________________ Firm or Title: ______________________

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

Attachment
December 18, 2003

Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI 96707

Dear Ms. Goth:

Cancellation of Pump Installation Permit Application
EP 10 (Well Nos. 2006-02 & 06)

This is further to our letter of September 10, 2003 (attached), notifying you of the cancellation of the water use permit application for the subject well. We neglected to mention the concurrent cancellation of the pump installation permit application for the source and are doing so now by way of this letter.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

ERNEST Y.W. LAU
Deputy Director

LN:ss
Attachment
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI  96707

Dear Ms. Goth:

Notice of Action
Water Use Permit Application for Well Nos. 2006-02 & 06
Ewa-Kunia Ground Water Management Area, Oahu

This letter serves as your official notice of action by the Commission on Water Resource Management (Commission) on your water use permit application for Well Nos. 2006-02 & 06.

At their regular meeting of July 15, 1998, the Commission voted to defer action on the water use permit application until a decision is made on the possible modification of the Ewa-Kunia sustainable yield estimate in the Hawaii Water Plan, Water Resources Protection Plan.

We plan to submit a recommendation to the Commission in September, 1998 to initiate the process to update the sustainable yield, which will include a public hearing that must be noticed for ninety (90) days. Action on the pending applications will be scheduled shortly thereafter.

With regard to your pump installation permit application, we note that the pump replacements are tied to the proposed new use by Chevron. Therefore, we will defer any action on this application until a final decision is made on the water use permit application.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

TIMOTHY E. JOHNS
Deputy Director

LN:ss
TO:       Honorable Lawrence Miike, Director  
          Department of Health  
          Attention: Dennis Tulang, Wastewater Branch  
          William Wong, Safe Drinking Water Branch
FROM:     Michael D. Wilson, Chairperson  
          Commission on Water Resource Management
SUBJECT:  Well Construction Permit Application  
          EP 10 (Well Nos. 2006-02 & 06)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 1998.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

LN:ss  Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use. To comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-40-20.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow prevention device and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [ ]is [ ] is not located near the proposed well site (information attached).

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] No comments/objections

Contact Person: WILLIAM WONG  
Phone: ____________________________

Signed: WILLIAM WONG  
Date: 5/5/98
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809
APR 24 1998

TO: Honorable Lawrence Miike, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application
EP 10 (Well Nos. 2006-02 & 06)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 1998.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

LN: ss
Attachment(s)

RESPONSE:
[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 80 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [ ] is [ ] not located near the proposed well site (information attached).

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Lori N. Kajiwara

Signed: _________________ Date: _________________
Ms. Donna B. Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707  

Dear Ms. Goth:  

Pump Installation Permit Application for Well Nos. 2006-02 & 06  

We acknowledge receipt, on April 24, 1998, of your completed pump installation permit application for EP 10 (Well Nos. 2006-02 & 06). You can expect your application to be processed within ninety (90) days from this date.  

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

Sincerely,  

Edwin T. Sakoda  
Acting Deputy Director  

LN:ss
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction Permit Application
   EP 10 (Well Nos. 2006-02 & 06)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 1998.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at 587-0218.

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-20.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [ ] is [ ] not located near the proposed well site (information attached).

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] No comments/objections

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
Mr. Timothy Johns  
Deputy Director  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI  96809

Dear Mr. Johns:

Modification of a Portion of EP-10 (Well Nos. 2006-02 and 06)  
Pump Installation Permit to 1,000 GPM Capacity

The enclosed application is a request by The Estate of James Campbell (Estate) to modify its pump installation permit for EP-10 by increasing the withdrawal capacity of Well Nos. 2006-02 and 06 from 800 GPM to 1,000 GPM. The requested increase is related to our water use permit application to modify the use of water from EP-10 to supply non-potable water to Chevron Products Company for evaporation makeup in the cooling tower of their power generation facility at the James Campbell Industrial Park.

Currently, 700 GPM of potable water from the Board of Water Supply (BWS) system is being used for cooling tower makeup water at Chevron. The use of non-potable water from EP-10 for this purpose would release the currently used 700 GPM of BWS potable water to accommodate other domestic uses on Oahu.

The existing EP-10 pumping station has 800 GPM pumps on Well Nos. 2006-02 and 06 that will be upgraded to 1,000 GPM pumps, to meet Chevron’s water requirements. One of these pumps would be online continuously, while the other would be used as standby. The external housing for the existing 800 GPM pumps would remain the same. Internally, however, there would be a slight modification in the two-stage bowl assembly of each pump to convert them to 1,000 GPM pumps. A water delivery pipeline would also be installed from the EP-10 pumping station to the Chevron property (See Exhibit “A”), as part of the project.

We believe the requested 1,000 GPM withdrawal will not overtax the yield limits of the affected wells because the average withdrawal by Oahu Sugar Company at the onset of EP-10 being placed in service was 1,275 GPM per well.

Construction of the original pump complex at the current EP-10 pumping station began in 1908, and included three separate pumps (EP-10, EP-11, and EP-12). The combined pumping capacity of EP-10/11/12 was 20 MGD with an average withdrawal potential of about 1,275 GPM from each of the eleven original wells at this location.
If you have any questions, please contact Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth
Director, Hawaii Properties

Enclosure
Location of 12" HDPE Pipe Line
From Pump EP-10 to Chevron Property Line

Pump EP-10

Coral Stockpile

12" HDPE Pipe Line

Chevron Refinery

Kalsepa Blvd.

Malakole Road

Exhibit A
APPLICATION FOR PERMIT

☐ Well Construction  ☐ Pump Installation

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 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 808-587-4225.

1. APPLICANT: (circle primary contact a, b, or c)
(a) WELL OWNER
FirmName: The Estate of James Campbell
Contact Person: Donna B. Goth
Address: 1001 Kamokila Boulevard
Kapolei, HI 96707

(b) LANDOWNER
FirmName: The Estate of James Campbell
Contact Person: Donna B. Goth
Address: 1001 Kamokila Boulevard
Kapolei, HI 96707

(c) CONTRACTOR
FirmName: Roscoe-Moss Hawaii
Contact Person: William Moore, President
Address: 51-939A 01ST Street, Kapolei, HI 96707

2. WELL LOCATION/NAMES: EP-10; Well No. 2006-02,06
Address: Ewa, Hawaii
Tax Map Key: Island Oahu 9-1-15:04

3. (a) PROPOSED WORK:
☐ Drill New Well
☐ Modify Existing Well
☐ Abandon/Seal *

(Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

(b) WELL TYPE:
☐ Dug ☐ Bored ☐ Driven ☐ Drilled ☐ Radial

Is this well a part of a battery of wells? ☐ Yes ☐ No
(Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
Rated Pump Capacity: 2 pumps @ 1,000 gallons per minute each.

Pump Type:
☐ Deep Well Turbine ☐ Rotary ☐ Propeller ☐ Diesel
☐ Submersible ☐ Rotary-Displacement ☐ Reciprocating ☐ Gas
☐ Centrifugal ☐ Rotary-Gear ☐ Impulse ☐ Electric, rated horsepower: 100. HP
If Pump Replacement, Existing Pump Capacity: 2 pumps @ 800 gallons per minute each.

5. PROPOSED USE:
☐ Municipal (including hotels, stores, etc.) ☐ Military
☐ Domestic (individual, noncommercial water sys.) ☐ Industrial
☐ Irrigation (crop) ☐ Other (explain)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 1,440,000 gallons per day
(b) METHOD OF FLOW MEASUREMENT:
☐ Flow-meter ☐ Open-pipe ☐ Orifice Plate ☐ Weir

7. PENDING ACTIONS:
☐ CDUA ☐ SMA ☐ EIS ☐ EA ☐ NONE ☐ Other (explain)
Completion Date:

8. REMARKS, EXPLANATIONS:
Modification of two pumps to 1,000 gpm pumping capacity will meet non-potable water requirements for Chevron's cooling tower evaporation makeup, Waikele.

I 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/abandonment report within 30 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.

Well Owner The Estate of James Campbell
Landowner The Estate of James Campbell
Contractor Roscoe-Moss Hawaii

Signature: Donna B. Goth, Director
Date

Signature: Donna B. Goth, Director
Date

Signature: William Moore, President
Date

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Date

Latitude

Longitude

Aquifer System Name

State Well No.

11/05/95 WCPH Form
9. PROPOSED WELL SECTION

Elevation at top of casing
______ ft., msl.

Cement Grout: _______ ft.

Rock Packing ______ ft.

Hole Diameter: _______ in.

Total Depth ______ ft.

Ground Elevation: ______ ft., msl

Solid Casing:
Material
Length
Diameter
Wall thickness

Casing: ☐ Perforated ☐ Screen
Material
Length
Diameter
Wall thickness
Openings _______ sq. in./A.F.

Open Hole:
Length
Diameter

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
LEGEND

EP-10 Pumping Station
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii 96809  

Dear Ms. Loui:

After-the-Fact Pump Installation Permit  
EP-10 (Well Nos. 2006-02, 04, 06)

The terms and conditions of the approved After-the-Fact Pump Installation Permit for EP-10 (Well Nos. 2006-02, 04, 06) are accepted. The attached signed copy of this permit is hereby being returned to you for Commission records.

If you have any questions, please contact Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

Enclosure

jck:01045300\K10101
AFTER-THE-FACT PUMP INSTALLATION PERMIT

EP 10 Well, Well Nos. 2006-02,04,06

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 pump installations for EP 10 (Well Nos. 2006-02,04,06) at Ewa, Oahu, TMK 9-1-15:04, subject to the following conditions:

STANDARD PERMIT CONDITIONS

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of an 800 gpm capacity, or less, pump in each of the three (3) wells.

3. The permittee shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Commission (attached).

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

5. The applicant shall complete and submit as-built drawings and Part II - ( Permanent ) Pump Installation Report of the Well Completion Report ( attached ) to the Commission within thirty (30) days after completion of work.

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

7. The pump installation permit application is incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the applicant must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

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

Date of Approval: 09/26/96
Expiration Date: 09/26/98

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

Applicant's Signature: 

Printed Name: Donna B. Goth, Director, Hawaii Development

Firm or Title: The Estate of James Campbell

Date: 10/10/96

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

Attachment
C: USGS
Department of Health/ Safe Drinking Water & Wastewater Branches
Honolulu Board of Water Supply
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, Hawaii 96707

Dear Ms. Goth:

After-the-Fact Pump Installation Permit
EP 10 (Well Nos. 2006-02,04,06)

Enclosed are two (2) copies of your approved Pump Installation Permit for the captioned well(s). As part of the Commission’s approval, the following special conditions were added and are part of your permit under Standard Permit Condition 10:

Special Conditions

1. Standard Condition 5 is waived.

Please sign the permit copies and return one for our files. Also, copies of the well completion report and your water use report forms are enclosed for your use.

If you have any questions, please call Rae M. Loui, Deputy Director, at 587-0214.

Aloha,

[Signature]

MICHAEL D. WILSON
Chairperson

Enclosures
AFTER-THE-FACT PUMP INSTALLATION PERMIT

EP 10 Well, Well Nos. 2006-02.04.06

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 pump installations for EP 10 (Well Nos. 2006-02.04.06) at Ewa, Oahu, TMK 9-1-15:04, subject to the following conditions:

STANDARD PERMIT CONDITIONS

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 800 gpm capacity, or less, pump in each of the three (3) wells.

3. The permittee shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Commission (attached).

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

5. The applicant shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Commission within thirty (30) days after completion of work.

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

7. The pump installation permit application is incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the applicant must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

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

Date of Approval: 09/26/96
Expiration Date: 09/26/98

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

Applicant's Signature: _______________________________ Date: ____________

Printed Name: ______________________________________

Firm or Title: _______________________________________

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

Attachment

USGS
Department of Health/ Safe Drinking Water & Wastewater Branches
Honolulu Board of Water Supply
DEPARTMENT OF LAND AND NATURAL RESOURCES

DOCUMENT NO.: 000000  UAC OR ATTACHED WORKSHEET: 0  DATE: 9/11/96

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REMARKS:
LINE (1) Well No. 3956-01 (PIPA)
LINE (2) Well No. 2006-02, 04, 06 (PIPA)
LINE (3) _________
LINE (4) _________

THE ESTATE OF JAMES CAMPBELL
KAPOLEI, HAWAII

TO THE ORDER OF

Department of Land & Natural Resources
P.O. Box 621
Honolulu, HI 96809

PLEASE DETACH BEFORE DEPOSITING CHECK

DATE
AUG 22, 1996

CHECK NO. 50-00

AMOUNT
Fifty DOLLARS

VOID AFTER 90 DAYS
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, HI 96809

Dear Ms. Loui:

Filing Fees for Pump Installation Permit Applications

The attached check for $50.00, payable to the Department of Land and Natural Resources, is for filing fees for two pump Installation Permit Applications as follows:

1. $25 filing fee for Pump Installation Permit Application for Malaekahana Well (Well No. 3956-01); and

2. $25 filing fee for After-the-Fact Pump Installation Permit Application for EP-10 (Well No. 2006-02, 04, and 06).

The filing fees were inadvertently overlooked when the two Pump Installation Permit Applications were originally hand delivered. We apologize for our oversight. They are now being submitted as requested in Exhibits "A" and "B".

If you have any questions, please contact Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

Enclosure

jck:01045300\K10093
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, Hawaii 96707

Dear Ms. Goth:

Pump Installation Permit Application
Malaekahana Well (Well No. 3956-01)
Koolauloa Ground Water Management Area, Oahu

We acknowledge receipt, on July 26, 1996, of your application to replace two (2) existing 120 gpm capacity pumps in Well No. 3956-01 with equal or lesser capacity pumps.

A review of our record for this well shows that the current twelve-month moving average withdrawal (0.048 mgd as of July, 1996) is in excess of the current permitted use quantity (0.040 mgd). Please provide an explanation for the overpumpage and an estimate for the length of time that you will need to come into compliance with the terms of your permit. We request that you respond in writing within thirty (30) days from the date of this letter. Your pump installation permit application will be considered incomplete pending your response to this letter. In addition, the following items should be submitted to complete your application:

1. $25.00 check for the filing fee payable to the Department of Land and Natural Resources.

Our review of permits previously issued to The Estate of James Campbell in the Koolauloa Aquifer System shows numerous other violations for non-reporting of water use, delinquent well completion reports, and/or overpumpage. Because we understand that the pump replacement work for Malaekahana Well is urgent, we will be following up on the other violations in a separate letter; however, you should resolve all violations before any new applications for permits are submitted for this water management area.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
Ms. Donna Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707  

Dear Ms. Goth:  

After-the-Fact Pump Installation Permit Application  
EP 10 (Well Nos. 2006-02, 04, 06)  
TMK 9-1-15:04 Ewa, Oahu  

We acknowledge receipt, on July 26, 1996, of your after-the-fact pump installation permit application for Well Nos. 2006-02, 04, 06.  

We have reviewed your application and find that it is incomplete. Please submit the following items to complete your application:  

1. $25.00 check for the filing fee payable to the Department of Land and Natural Resources.  

Upon receipt of the items requested above, we will continue to process your application. If you have any questions about your application, please contact Lenore Nakama at 587-0218.  

Sincerely,  

[Signature]  
RAE M. LOUI  
Deputy Director  

LN:ss  

EXHIBIT B
Ms. Donna Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707

Dear Ms. Goth:

After-the-Fact Pump Installation Permit Application  
EP 10 (Well Nos. 2006-02, 04, 06)  
TMK 9-1-15:04 Ewa, Oahu

We acknowledge receipt, on July 26, 1996, of your after-the-fact pump installation permit application for Well Nos. 2006-02, 04, 06.

We have reviewed your application and find that it is incomplete. Please submit the following items to complete your application:

1. $25.00 check for the filing fee payable to the Department of Land and Natural Resources.

Upon receipt of the items requested above, we will continue to process your application. If you have any questions about your application, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, Hawaii 96809

Response to Notice of Pump Installation  
Permit Violation at EP-10

Dear Ms. Loui:

In response to your July 16, 1996 notice of pump installation permit violation at EP-10 (Well Nos. 200 6-02, 04, 06), an after-the-fact application for Pump Installation permit for EP-10 has been prepared and is being submitted as Exhibit 1.

It appears that through an oversight on our part, we were not aware that there was a violation of the original pump installation permit which was approved on November 30, 1995. We had thought that since the planned withdrawal amount (2,400 gpm) did not change, there would be no need to re-apply for a pump installation permit when we changed from four 600 gpm pumps to three 800 gpm pumps. Unfortunately, this was not correct, and as requested, the remainder of this letter explains why the change was made.

The Campbell Estate application for a permit to install four 600 gpm pumps at EP-10 was submitted to CWRM on July 26, 1995, and the permit was approved on November 30, 1995. Subsequent to that time, several problems developed which resulted in significant potential over-expenditure on this capital project. It appeared possible to maintain the original budget cost by using three 800 gpm pumps instead of the originally planned four 600 gpm units. The intended total pumping capacity of 2,400 gpm did not change. The exact same model pump was used, but the discharge setting was adjusted to 800 gpm instead of the 600 gpm originally designed. It was felt that either the 600 gpm or the 800 gpm withdrawal potential per well would be acceptable, since they were both much less than the initial 1,275 gpm average withdrawal from each well by Oahu Sugar Company. The well completion report submitted on June 19, 1996 showed that three 800 gpm pumps has been installed.

Construction of the original pump complex at the current EP-10 pumping station began in 1908, and included three separate pumps (EP-10, EP-11, and EP-12). The combined pumping capacity of EP-10/11/12 was 20 MGD with an average withdrawal potential of about 1,275 gpm from each well.
By comparison, the current pumping station involves submersible pumps installed in three of the eleven original wells with 800 gpm pumping potential from each of these three wells, for a total of 2,400 gpm (3.43 MGD). The to-date installation of 3.43 MGD pumping capacity is an incremental step toward total use of the 5.01 MGD water allocation at EP-10.

We apologize for the problems created as a result of our oversight. Your assistance in correcting the situation is greatly appreciated. If you have any further questions, please contact Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth
Director, Hawaii Development

Attachment

blk:01036400\K10007
APPLICATION FOR PERMIT

**1. APPLICANT:**
- (a) WELL OWNER
  - Firm/Name: The Estate of James Campbell
  - Contact Person: Donna Goth
  - Address: 1001 Kamokila Boulevard Kapolei, HI 96707
- (b) LANDOWNER
  - Firm/Name: The Estate of James Campbell
  - Contact Person: Donna Goth
  - Address: P.O. Box 458 - 66-079 Kamehameha Highway, Haleiwa, HI 96712
- (c) CONTRACTOR
  - Firm/Name: Irrigation Technology Corp.
  - Contact Person: Mike Farrell
  - Address: P.O. Box 458 - 66-079 Kamehameha Highway, Haleiwa, HI 96712

**2. WELL LOCATION/NAMES:**
- EP-10; Well No. 2006-01 thru 11 Island: Oahu
- Address: Ewa, HI
- Gal: 3.5 MeD.

**3. (a) PROPOSED WORK:**
- Drill New Well
- Modify Existing Well
- Replace Pump

**3. (b) WELL TYPE:**
- Dug
- Bored
- Driven
- Radial

**6. (a) PROPOSED AMOUNT OF WITHDRAWAL:**
- 3,429,000 gallons per day

**7. PENDING ACTIONS:**
- CDUA
- SMA
- EIS
- EA
- Completion Date: 2/15/96

**8. REMARKS, EXPLANATIONS:**
- The 3 new pumps will allow for greater flexibility at flows below 3.5 MGD. Existing station has 1 pump presently with rated capacity of 5,725 GPM.

---

1. I 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/abandonment report within 30 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.

**Signatures:**
- Well Owner: The Estate of James Campbell
- Landowner: The Estate of James Campbell
- Contractor: Irrigation Technology Corp.

**Date:**
- Donna Goth, Dir., HI Development
- Donna Goth, Dir., HI Development
- Michael D. Farrell, Date: 11/05/95 WCPI Form

---

**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 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 Regulatory Branch at 587-0225.
9. PROPOSED WELL SECTION

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<tr>
<th>Elevation at top of casing</th>
<th>ft., msl.</th>
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*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
Ms. Donna Goth  
The Estate of James Campbell  
1001 Kamokila Blvd.  
Kapolei, HI 96707  

Dear Ms. Goth:  

Notice of Pump Installation Permit Violation  
Well Nos. 2006-02, 04, 06, TMK 9-1-15:4  
Ewa-Kunia Ground Water Management Area, Oahu  

We received a well completion report on June 21, 1996 showing that three (3) 800 gpm capacity pumps were installed in Well Nos. 2006-02, 04, 06 (Exhibit 1). The pump installation permit that was approved on November 30, 1995 was for the installation of four (4) pumps with capacities equal to or less than 600 gpm (Exhibit 2). (We note that a pump was not installed in Well No. 2006-03.)  

Please provide an explanation for the violation of your pump installation permit. In addition, we recommend that you submit an after-the-fact application to cover the work that was done. We have attached an application form for your use. Please submit a written response to this letter by August 31, 1996.  

Be advised that failure to comply with the terms of your permit may result in Commission fines up to $1000 per day and/or revocation of the permit. HRS §174C-15(b), §174C-84(g).  

If you have any questions, please contact Lenore Nakama at 587-0218.  

Sincerely,  

[Signature]  
RAE M. LOUI  
Deputy Director  

LN:ss  
Attachments  

C: Michael Farrell, Irrigation Engineering
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1. PIP - Permit allows for installation of 4 pumps @ 600 gpm each.
2. They installed 3 pumps @ 800 gpm ea. (Violation?)
Ms. Rae M. Loui  
Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI 96809

Dear Ms. Loui:

Well Completion Reports on  

We transmit the following documents in response to the requirements cited in your letter of May 15, 1996 to Mr. Michael D. Farrell of Irrigation Technology Corp. regarding completion of the pump installation permits for the subject wells.

1 Original  

1 Original  

1 Original  

If you have any further questions or require further information, please contact Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

Enclosures

ejck:01036400\K10005
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**DEPARTMENT OF LAND AND NATURAL RESOURCES**

**WELL COMPLETION REPORT**

(3/20/96 WCR Form)

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0225, or 1-800-468-4844 Extension 70225.

1. **State Well No.:** 2-1006-01  **Well Name:** EP-10  **Location/Address:** EWA, OAHU  **Tax Map Key:** 9-1-13584

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<td>GROUND ELEVATION (referenced to mean sea level, msl): ft.</td>
</tr>
<tr>
<td>DRILLER’S LOG: Please attach geologic log (if available or if required by permit)</td>
</tr>
<tr>
<td>Depths (ft.) Rock Description, Water Level, Dates, etc.</td>
</tr>
<tr>
<td>Depths (ft.) Rock Description, Water Level, Dates, etc.</td>
</tr>
<tr>
<td>(If more space is needed, continue on back.)</td>
</tr>
<tr>
<td>Total depth of well below ground: ft.</td>
</tr>
<tr>
<td>Hole size: inch dia. from ft. to ft. below ground</td>
</tr>
<tr>
<td>inch dia. from ft. to ft. below ground</td>
</tr>
<tr>
<td>Casing installed: in. I.D. x in. wall solid section to ft. below ground</td>
</tr>
<tr>
<td>in. I.D. x in. wall perforated section to ft. below ground</td>
</tr>
<tr>
<td>Casing Material/Slot Size:</td>
</tr>
<tr>
<td>Annulus: Grouted from ft. below ground to ft. below ground</td>
</tr>
<tr>
<td>Gravel packed from ft. below ground to ft. below ground</td>
</tr>
<tr>
<td>Initial water level: ft. below ground. Date and time of measurement:</td>
</tr>
<tr>
<td>Initial chloride: ppm Date and time of sampling:</td>
</tr>
<tr>
<td>Initial temperature: °F Date and time of measurement:</td>
</tr>
<tr>
<td>PUMPING TESTS: Reference Point (R.P.) used: ft. below ground, which elevation is ft.</td>
</tr>
<tr>
<td>(1) Step-Drawdown Test Date (2) Long-term Aquifer Test Date</td>
</tr>
<tr>
<td>Start water level ft. below R.P. Start water level ft. below R.P.</td>
</tr>
<tr>
<td>End water level ft. below R.P. End water level ft. below R.P.</td>
</tr>
<tr>
<td>Aquifer Pump Test Procedures data &amp; graphs (1/96 LTAT Form) attached? Yes No</td>
</tr>
<tr>
<td>As-built drawings attached? Yes No</td>
</tr>
<tr>
<td>Other remarks/comments: (On back of this form)</td>
</tr>
</tbody>
</table>

**Well Drilling Contractor (print):** C-57 Lic. No.  
Signature Date

**Surveyor (print):**  
Signature Lic. No. Date

**Applicant (print):**  
Signature Date
## PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. **Pump Installation Company:** IRRIGATION ENGINEERING, INC.

21. **Name of person performing work:** MIKE SEYMOUR

22. **Date Pump Installation Completed:** 2/15/96

23. **PUMP INSTALLATION:**
   - **Pump Type, Make, Serial No.:** SEE BELOW
   - **Capacity:** 800 gpm
   - **Motor type, H.P., Voltage, rpm:** SEE BELOW
   - **Depth of Pump Intake Setting:** 64 ft. below Ground Level
     - Which elevation is 41 ft.
   - **Depth to bottom of airline**
     - N/A ft. below N/A
     - Which elevation is N/A ft.
   - **Pumping Head is:** 92.4 ft.
   - **Type of flow meter:** PROPELLER which measures in GALLONS

24. **As-built drawings attached:** Yes

25. **Other remarks/comments:** (See below)

---

**Pump Installation Contractor (print):** IRRIGATION ENGINEERING, C-57 Lic. No. C-17293

**Signature:**

**Applicant (print):** The Estate of James Campbell

**Signature:**

**Date:** 6/1/96

---

8. **(cont’d) DRILLER’S LOG (cont’d):**

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19. & 25. **Remarks:**

#23. 3-ea. Byron Jackson Turbine Pumps, SNS 95WR0028 Thru 30, Franklin Electric motor, 50 HP each 460 vac, 3600 RPM

#24. The as built drawings were sent to the Commission on 5/3/96 by the Estate of James Campbell.
State Well #’s 2006-01 to 2006-11, formerly 276A-K, old #’s 228A-K

Pumps #10, #11, #12
Ewa Plantation

KNV 2-3-26
State Well #’s 2006-01 to 2006-11, formerly 276A-K, old #’s 228A-K

Pumps #10, #11, #12
Ewa Plantation

KIN 2-3-26
### RECORDS OF DRILLED WELLS ON OAHU

#### Observations—Well 274 (Continued)

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#### Well 276 (Continued)

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#### Observations

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#### 274 A to K (old 288 A to K).

#### 275 (old 289-1).

#### 276 (old 290).

---

**Notes:**
- Well 276 was drilled in 1933 by McCandless Bros. to a depth of 147 ft. Diameter, 12 in. Head (ft.), Jan. 6, 1933, 19.2. Drawdown, 6 in. when pumped at the rate of 465 gal. per minute. Salt content increased with depth. Chloride (p.p.m.), 467 before pumping and 500 after pumping 8 hours.

---

**Editor's Note:**
- The data provided includes information on drilled wells on Oahu, including dates, heads, and chloride levels. The data is organized in tables, with columns for date, head, and chloride levels. The text also notes the method of drilling and the depth at which certain levels were reached. The data is useful for understanding the water resources and drilling methods in the early 20th century on Oahu.
### Observations—Well 276 (Continued)

<table>
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<tr>
<th>Date</th>
<th>Head (ft.)</th>
<th>Chloride (p.p.m.)</th>
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**Chloride (p.p.m.) of Individual Wells**

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</tr>
</tbody>
</table>

**277 (old 229). Kamakai Pumph 9, 134 mile northwest of Waianae B. R. station. Owner, Waianae Plantation Co. Altitude, about 30 ft. Diameter, 12 in. Use, irrigation. Data furnished by Waianae Plantation Co. A record of the depth of each of the 27 wells in this battery in feet and the length of casing in feet is given on page 176.**
Mr. Michael D. Farrell
Irrigation Technology Corp.
P.O. Box 458
Haleiwa, HI 96707

Dear Mr. Farrell:

We understand that you have recently completed pump installation work for The Estate of James Campbell for the following wells:

- EP 5, 6 (Well Nos. 2202-03 to 14)
- EP 10 (Well Nos. 2006-01 to 11)
- EP 15, 16 (Well No. 2202-21)

We request that you submit well completion reports pursuant to §13-168-13, which states:

"Within thirty days after the completion of any well, the well driller or pump installation contractor, as the case may be, shall file with the commission on forms provided by the commission a well completion report."

We have enclosed a copy of our official well completion report form. (You should make copies of the well completion report form as needed.) Please complete Part II. (Permanent) Pump Installation Report and return the form to our office. Be advised that failure to submit the required well completion reports may result in the imposition of fines by the Commission of up to $1000 per violation.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss

Enclosure
Ms. Rae Loui  
Deputy Director  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI  96809

Dear Ms. Loui:

In compliance with condition 5 of the November 30, 1995 Pump Installation Permits for EP-5/6, EP-10, and EP-15/16, we submit the as-built sectional drawings together with the following explanatory comments.

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. EP-5/6 (Well Nos. 2202-03 to 14)</td>
<td>Three of the four planned pumps have been installed. The fourth pump increment will be installed later (see Exhibit &quot;A&quot;). We do not have a definite installation schedule for the fourth pump at this time. However, the pump will be installed in conformance with the drawings submitted. The Estate will apply for another pump installation permit to install the fourth pump when it is needed to come on line.</td>
</tr>
<tr>
<td>2. EP-10 (Well Nos. 2006-01 to 11)</td>
<td>Three of the four planned pumps have been installed. The fourth pump increment will be installed later (see Exhibit &quot;B&quot;). We do not have a definite installation schedule for the fourth pump at this time. However, the pump will be installed in conformance with the drawings submitted. The Estate will apply for another pump installation permit to install the fourth pump when it is needed to come on line.</td>
</tr>
<tr>
<td>3. EP-15/16 (Well No. 2202-21)</td>
<td>The pumps and appurtenances have been installed in accordance with the permit (see Exhibit &quot;C&quot;).</td>
</tr>
</tbody>
</table>

If you have any questions or need any further information, please call Jim Russell at 674-3338.

Very truly yours,

[Signature]

Donna B. Goth  
Director, Hawaii Development

Enclosure  
jck:01032500K10075
**NOTE:** DRAWINGS ARE FOR GENERAL PURPOSES ONLY, AND ARE NOT INTENDED TO BE DETAILS CONSTRUCTION DRAWINGS. IT IS THE RESPONSIBILITY OF THE BIDDER TO VERIFY ALL LOCATIONS, DIMENSIONS, CONNECTIONS & UTILITIES IN ORDER TO PROVIDE A FINISHED WORKING SYSTEM.

**NOTE:** ALL MACHINERY TO BE REMOVED PRIOR TO BACKFILL. EXISTING PUMP CHAMBER STRUCTURE IS TO BE OUT BELLOW FINISHED GRADE PRIOR TO BACKFILL.

- PROJECT ALL PIPES & APPARATUS TO EXISTING PUMP CHAMBER PRIOR TO BACKFILL.
- INSTALL HOPE PIPE ABOVE GRADE.
- SUPPORT & RESTRAIN ALL PIPING TO PREVENT DAMAGE & MOVEMENT OF PIPING.
- MAKE NECESSARY REPAIRS & MODIFICATIONS TO EXISTING HEADER SYSTEM SO THAT NONE OF THE EXISTING WELL ARE ABANDONED.

**TOTAL PUMP CAPACITY**

<table>
<thead>
<tr>
<th>PUMP</th>
<th>HORSE POWER</th>
<th>FLOW RATE (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BYRON JACKSON MODEL NO. ANOL</td>
<td>50</td>
<td>600</td>
</tr>
<tr>
<td>2 STAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYRON JACKSON MODEL NO. ANOL</td>
<td>50</td>
<td>600</td>
</tr>
<tr>
<td>2 STAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYRON JACKSON MODEL NO. ANOL</td>
<td>50</td>
<td>600</td>
</tr>
<tr>
<td>2 STAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYRON JACKSON MODEL NO. ANOL</td>
<td>50</td>
<td>600</td>
</tr>
<tr>
<td>2 STAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>200</td>
<td>2400</td>
</tr>
</tbody>
</table>

**Pump not yet yet installed.**

**HOPE PIPE RESTRAINT DETAIL**

**20-FOOT MODIFICATIONS**

**EP. 10 INDIVIDUAL WELL SYSTEM LAYOUT**
December 5, 1995

Ms. Rae M. Loui
Deputy Director
Commission on Water Resource Management
P. O. Box 621
Honolulu, HI 96809

Dear Ms. Loui:

Pump Installation Permit for
EP-5/6 (Well Nos. 2202-03 to 14)
EP-10 (Well Nos. 2006-01 to 11)
EP-15/16 (Well No. 2202-21)

This is to notify you that work in connection with the subject Pump Installation Permits has commenced and is estimated to be completed by the end of March 1996.

If you have any questions concerning this notification, please call Mr. Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth
Director, Hawaii Development
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809

PUMP INSTALLATION PERMITS

for

EP 5/6 (Well Nos. 2202-03 to 14)
EP 10 (Well Nos. 2006-01 to 11)
EP 15/16 (Well No. 2202-21)

To: Estate of James Campbell
1001 Kamokila Boulevard
Kapolei, Hawaii 96707

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install pumps in EP 5/6 (Well Nos. 2202-03 to 14), EP 10 (Well Nos. 2006-01 to 11), and EP 15/16 (Well No. 2202-21) at Honoluluui and Makakilo, Ewa, Oahu, TMKs 9-1-17:4, 9-1-15:4, and 9-2-1:1, respectively, is approved, subject to the following conditions:

STANDARD PERMIT CONDITIONS

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

2. The pump installation permits shall be for installation of pumps equal to or less than capacities as follows:

   EP 5/6: one at 1300 gpm, two at 2200 gpm, one 25-hp primer pump
   EP 10: four at 600 gpm
   EP 15/16: one at 700 gpm

3. The permittee shall provide and maintain approved meters or other appropriate means for measuring and reporting withdrawals and water-levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured and reported to the Commission on a monthly basis, on forms provided by the Commission (attached).

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

5. As-built sectional drawings of the pump installations shall be submitted to the Commission within thirty (30) days after completion of work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.

7. The pump installation permit application and staff submittal approved by the Chairperson are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

Date of Issuance: NOV 30 1995
Date of Approval: NOV 30 1995

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

Applicant's Signature: __________________________ Date: 12/4/95

Printed Name: Donna B. Goth
Firm or Title: The Estate of James Campbell

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

Attach.
cc: USGS
    Department of Health
    Safe Drinking Water Branch
    Ground Water Protection Program
    Wastewater Branch
    Honolulu Board of Water Supply
Mr. James Russell  
Estate of James Campbell  
1001 Kamokila Boulevard  
Kapolei, Hawaii 96707  

Dear Mr. Russell:

Pump Installation Permit  
EP 5/6 (Well Nos. 2202-03 to 14)  
EP 10 (Well Nos. 2006-01 to 11)  
EP 15/16 (Well No. 2202-21)  

Please find enclosed two copies of your permit for the captioned pump installations. Please sign both and return one copy for our files.

Also enclosed is a water use report form, for your convenience, indicating the pertinent reportage required in your permit.

Aloha,

[Signature]

MICHAEL D. WILSON

Enclosures
PUMP INSTALLATION PERMITS

for

EP 5/6 (Well Nos. 2202-03 to 14)
EP 10 (Well Nos. 2006-01 to 11)
EP 15/16 (Well No. 2202-21)

To: Estate of James Campbell
1001 Kamokila Boulevard
Kapolei, Hawaii 96707

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install pumps in EP 5/6 (Well Nos. 2202-03 to 14), EP 10 (Well Nos. 2006-01 to 11), and EP 15/16 (Well No. 2202-21) at Hounaliuli and Makakilo, Ewa, Oahu, TMKs 9-1-17:4, 9-1-15:4, and 9-2-1:1, respectively, is approved, subject to the following conditions:

STANDARD PERMIT CONDITIONS

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

2. The pump installation permits shall be for installation of pumps equal to or less than capacities as follows:

   EP 5/6: one at 1300 gpm, two at 2200 gpm, one 25-hp primer pump
   EP 10: four at 600 gpm
   EP 15/16: one at 700 gpm

3. The permittee shall provide and maintain approved meters or other appropriate means for measuring and reporting withdrawals and water-levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured and reported to the Commission on a monthly basis, on forms provided by the Commission (attached).

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

5. As-built sectional drawings of the pump installations shall be submitted to the Commission within thirty (30) days after completion of work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.

7. The pump installation permit application and staff submittal approved by the Chairperson are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

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

Applicant's Signature: ___________________________ Date: ____________

Printed Name: ______________________________

Firm or Title: ________________________________

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

Attach. cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Honolulu Board of Water Supply
State Well #’s 2006-01 to 2006-11, formerly 276A-K, old #’s 228A-K

Pumps #10, #11, #12
Ewa Plantation
Mr. Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809

Dear Mr. Wilson:


Thank you for the opportunity to comment on this application. We have no objections to a permit to replace pumps EP 10 with lower capacity units for agricultural use. The cover letter form is returned accordingly marked.

If you have any questions, please contact Herbert H. Minakami at 527-6183.

Very truly yours,

RAYMOND H. SATO  
Manager and Chief Engineer

Attachment
TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Miike, Director
Department of Health
Attention: Dennis Tulang
Attention: William Wong

Honorable Clayton H.W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply

Ms. Cheryl D. Soon, Chief Planning Officer
Planning Department
City & County of Honolulu

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application for Well Nos. 2006-01 thru 11

Transmitted for your review and comment is a copy of a pump installation permit application for Campbell Estate for Well Nos. 2006-01 thru 11.

We would appreciate your comments on the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by September 22, 1995.

If you have any questions about this pump installation permit application, please contact Mr. Charley Ice of the Commission staff at 587-0251.

Attachment(s)

Response:

☐ We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: Herbert H. Minakami
Signed: RAYMOND H. SATO
Manager and Chief Engineer

Phone: _______________ Date: 9/26/95

Signed: [Signature]

RA YMON D H. SATO
Manager and Chief Engineer
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: MURAK
DATE: 9-UG
FILE IN: EP 10 2006-01-11

TO: INIT:

- Y. SHIROMA
- F. Ching
- R. Jinnai
- M. Ohye
- I. Kunimura
- S. Swanson
- K. Yoda

PLEASE:

- See Me
- Call
- Review & Comment
- Take Action
- Investigate & Report
- Draft Reply
- Acknowledge Receipt
- Type Draft
- Type Final
- Xerox ___ copies

REMARKS:

#9 REMARKS, EXPLANATIONS
1 EXISTING PUMP @ 5725 GPM.
4 NEW PUMPS

#32. PROPOSED WORK
INSTALL 4 NEW PUMPS
REPLACE 1 PUMP

FOR YOUR:

- R. LOUI
- S. Kokubun
- E. SAKODA
- E. HIRANO

- Approval
- Signature
- Information

SEE ATTACHED DRAWING
NO DRAWINGS ARE FOR GENERAL PURPOSES ONLY, AND ARE NOT INTENDED TO BE DETAILED CONSTRUCTION DRAWINGS. IT IS THE RESPONSIBILITY OF THE OWNER TO VERIFY ALL LOCATIONS, DIMENSIONS, CONNECTINGS AND UTILITIES IN ORDER TO PROVIDE A FINISHED WORKING SYSTEM.

NOTE: ALL MACHINERY TO BE REMOVED PRIOR TO BACKFILL.

- EXISTING PUMP CHAMBER STRUCTURE IS TO BE CUT BELOW FINISHED GRADE PRIOR TO BACKFILL.
- PROJECT ALL PIPE & APPURTENANCES IN PUMP CHAMBER PRIOR TO BACKFILL.
- INSTALL HOPE PIPE ABOVE GRADE.
- SUPPORT & RESTRAIN ALL PIPE TO PREVENT DAMAGE & MOVEMENT OF PIPING.
- MAKE NECESSARY REPAIRS & MODIFICATIONS TO EXISTING HEADER SYSTEM SO THAT NONE OF THE EXISTING WELLS ARE ABANDONED.

HOPE PIPE RESTRAINT DETAIL

NOT TO SCALE
Ms. Donna Goth
The Estate of James Campbell
1001 Kamokila Blvd.
Kapolei, HI  96707

Dear Ms. Goth:

Pump Installation Permit Application for Well Nos. 2006-01 thru 11

We acknowledge receipt, on August 2, 1995, of your completed pump installation permit application for the EP 10 Wells (Well Nos. 2006-01 thru 11). You can expect your application to be processed within ninety (90) days from the date of receipt.

If you have any questions about your pump installation permit application, please contact Mr. Charley Ice of the Commission staff at 587-0251.

Sincerely,

RAE M. LOUI
Deputy Director
REF:CWRM-SS

TO: Honorable Kali Watson, Chairperson
   Department of Hawaiian Home Lands

   Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang
   Attention: William Wong

   Honorable Clayton H.W. Hee, Chairperson
   Office of Hawaiian Affairs

   Mr. Raymond Sato, Manager & Chief Engineer
   Honolulu Board of Water Supply

   Ms. Cheryl D. Soon, Chief Planning Officer
   Planning Department
   City & County of Honolulu

FROM: Michael D. Wilson, Chairperson
   Commission on Water Resource Management

SUBJECT: Pump Installation Permit Application for Well Nos. 2006-01 thru 11

Transmitted for your review and comment is a copy of a pump installation permit application for Campbell Estate for Well Nos. 2006-01 thru 11.

We would appreciate your comments on the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by September 22, 1995.

If you have any questions about this pump installation permit application, please contact Mr. Charley Ice of the Commission staff at 587-0251.

Attachment(s)

Response:

( ) We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: ________________
Signed: ________________________________ Date: ________________
TO: Other Interested Parties

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

SUBJECT: Request for Comments: Pump Installation Permit Application
Ewa Caprock Groundwater Management Area, Oahu

Transmitted for your review and comment is a copy of a pump installation permit application for Campbell Estate for Well Nos. 2006-01 thru 11.

We would appreciate your comments on the attached application by returning this cover memo form by September 22, 1995.

If you have any questions about this pump installation permit application, please contact Mr. Charley Ice of the Commission staff at 587-0251.

Cl:ss
Attachment(s)

Response:

( ) We have no objections
( ) Not subject to our regulatory authority & permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: __________________

Signed: ___________________________ Date: ________________
INTERESTED OTHERS LIST

Mr. David Martin  
Native Hawaiian Advisory Council  
1088 Bishop St., Suite 1204  
Honolulu, Hawaii 96813

Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
223 South King Street  
Austin Bldg., Suite 400  
Honolulu, HI 96813

Mr. Calvin Kawamoto  
Waipahu Neighborhood Board No. 22  
P.O. Box 576  
Waipahu, Hawaii 96797

Mr. David Gilbert  
Ewa Neighborhood Board No. 23  
P.O. Box 1633  
Pearl City, Hawaii 96782
Ms. Rae Loui  
Deputy Director  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI 96809

Dear Ms. Loui:

Re: Water Use Permit Transfer Notification and Submittal of Pump Installation Applications

This letter is to notify the Commission on Water Resource Management (CWRM) of the transfer, as of July 1, 1995, of Oahu Sugar Co.’s (OSCo) Water Use Permit for EP 21 (Well No. 2000-01).

EP 21 is situated on Estate land that was being leased to OSCo. This transfer is now possible because the OSCo lease expired on June 30, 1995. The notification of transfer is made pursuant to Section 174C-59 of the State Water Code and is within the 90 day notification period stipulated in the rules. The conditions of the permit will remain the same. The water use will continue to be for agriculture irrigation on lands that were formerly irrigated by EP 21. The Estate would appreciate CWRM’s acknowledgement of receipt of this notification of transfer.

In addition to the notification of transfer, enclosed are three applications by the Estate for Pump Installation Permits for EP 5, 6 (Well No. 2202-03 through 14), EP 10 (Well No. 2006-01 through 11) and EP 15, 16 (Well No. 2202-21).

If you have any questions concerning the basis of the transfer notification or the pump installation permit applications, please call Jim Russell at 674-3338.

Very truly yours,

Donna B. Goth  
Director, Hawaii Development

ks:01034600\K10198
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
       Firm/Name: The Estate of James Campbell
       Contact Person: Donna Goth
       Address: 1001 Kamokila Boulevard
       Kapolei, HI 96707
   (b) LANDOWNER
       Firm/Name: The Estate of James Campbell
       Contact Person: Donna Goth
       Address: 1001 Kamokila Boulevard
       Kapolei, HI 96707
   (c) CONTRACTOR
       Firm/Name: Irrigation Technology Corp.
       Ph: 637-5078
       Address: P. O. Box 459 - 66-679 Kamehameha Highway
       Haleiwa, HI 96712

2. WELL LOCATION/NAMES:
   Island: Oahu
   Address: Ewa, HI
   Tax Map Key: 9-1-15:04
   (Attach a USGS map, scale 1"=2000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   Drill New Well
   Modify Existing Well
   Redrill
   Install New Pump
   * Alter Location
   * Abandon/Sell
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   Dug
   Bored
   Driven
   Drilled
   Radial
   Is this well a part of a battery of wells? Yes No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 4 pumps @ 600 gallons per minute each.
   Pump Type:
   Deep Well Turbine
   Submersible
   Centrifugal
   Rotary
   Rotary-Displacement
   Rotary-Gear
   Propeller
   Reciprocating
   Impulse
   Motor:
   Diesel
   Gas
   Electric, rated horsepower of 200 HP

5. PROPOSED USE:
   Municipal (including hotels, stores, etc.)
   Domestic (individual, noncommercial water sys.)
   Irrigation (crop)
   State Land Use District:
   Urban
   Agriculture
   Rural
   Conservation
   County Zoning (describe)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   3,429,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   Flow-meter
   Open-pipe
   Office Plate
   Weir
   CDUA
   SMA
   EIS
   EA
   NONE
   Other (explain)

7. PENDING ACTIONS:
   CDUA
   SMA
   EIS
   EA
   NONE
   Other (explain)

8. REMARKS, EXPLANATIONS:
   Existing station has 1 pump presently with rated capacity of 5,725 GPM. The 4 new pumps will allow for greater flexibility at flows below 3.5 MGD.
   (If more space is needed, continue below remarks, explanations.)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit 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.

Well Owner The Estate of James Campbell
Landowner The Estate of James Campbell
Contractor Irrigation Technology Corp.

Signature Donna Goth, Dir., Hawaii Development 7/7/95
Signature Donna Goth, Dir., Hawaii Development 7/7/95
Signature

Date Field

For Official Use Only:
Latitude

Aqullifer System Name

State Well No.

6/26/92 WCR
9. PROPOSED WELL SECTION

Elevation at top of casing: _____ ft., msl.

Ground Elevation: _____ ft., msl

Cement Grout: _____ ft.

Rock Packing: _____ ft.

Solid Casing:
- Material
- Length: _____ ft.
- Diameter: _____ in.
- Wall thickness: _____ in.

Hole Diameter: _____ in.

Total Depth: _____ ft.

Casing: ☐ Perforated ☐ Screen
- Material
- Length: _____ ft.
- Diameter: _____ in.
- Wall thickness: _____ in.
- Openings: _____ sq. in./L.F.

Open Hole:
- Length: _____ ft.
- Diameter: _____ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
2" NIPPLE w/ 2" GATE VALVE FT/WT

6" RD ELBOW

1" WT TAP w/ 1" BALL VALVE FT/WT

6" FERC detector check valve

6" RD REDUCER FT/PT

8" SR 11 HOPE FLC ADAPTER & LAP JOINT FLC

6" SR 11 HOPE

Casing - 10 EP 10 Metering & Valving Station

EP 10 CHAMBER

EXISTING ROOF OVER CHAMBER

CORAL FILL

FINISHED GRADE

TEMPORARY 30' CASING

CORAL FILL

ADDERED HOLE 30' DIAMETER

REPLACE FLC w/ CORAL

EXISTING HEADER

FLOOR EL. 12.6'

EXISTING 12' CASING

6" PUMP DISCHARGE COLUMN

SUCTION EL. -13.4'

EL. -47.2'

EP. 10 MODIFICATIONS

THE ESTATE OF JAMES CAMPBELL

EP 10 MODIFICATIONS

ITC WATER MANAGEMENT

BYRON JACOBSON MODEL NO. 8M21, 2 STAGE, 600 GPM @ 125 TIS SUBMERSIBLE PUMP w/
FRANKLIN ELECTRIC 50 HP, 3600 RPM, 480 VOLT STAINLESS STEEL SUBMERSIBLE MOTOR

EL. +13.0'

EMOVE PUMP TO EXISTING FLOOR

1/2 ELBOW w/ ELBOW REPLACED

EXISTING IT CASING

6" PUMP DISCHARGE COLUMN
APPLICATION FOR PERMIT

Well Construction or □ Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: West Beach Estates
      Contact Person: Kenneth Williams
      Address: 91-100 Kamoana Place
               Ewa Beach, Hawaii 96707
   (b) LANDOWNER
      Firm/Name: The Estate of James Campbell
      Contact Person: Ken Williams
      Address: 91-100 Kamoana Place
               Ewa Beach, Hawaii 96707
   (c) CONTRACTOR
      Firm/Name: To Be Competitively Bid
      Ph: __________________________
      Address: __________________________
      Contractor's C-57 License No: __________________________

   Island: Oahu
   Address: Along Pump 10 Road in Ewa
   Tax Map Key: 9-1-15:04

3. (a) PROPOSED WORK:
      □ Drill New Well  □ Alter Location
      □ Modify Existing Well  □ Radial
      □ Install New Pump  □ Deepen  □ * Abandon/Seal
      □ Replace Pump  □ Modify Pump
      * Be sure to complete and submit well abandonment report upon completion of work.
      (b) WELL TYPE:
      □ Doug  □ Bored  □ Driven
      □ Drilled  □ Radial
      Is this well a part of a battery of wells?  Yes  No
      (briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: __________________________
   gallons per minute each
   Pump Type:
      □ Deep Well Turbine  □ Rotary
      □ Submersible  □ Rotary-Displacement
      □ Centrifugal  □ Propeller  □ Reciprocating
      □ Impulse
   Motor:
      □ Diesel  □ Gas  □ Electric, rated horsepower of __________________________

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water use)
   □ Irrigation (crop)
   State Land Use District:  □ Urban  □ Agriculture
   County Zoning (describe) __________________________

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
      1,636,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      □ Flow-meter  □ Open-pipe  □ Office Plate  □ Weir

7. PENDING ACTIONS:
   □ CDUA  □ SMA  □ EIS  □ EA
   □ NONE  □ Other (explain)

8. REMARKS, EXPLANATIONS:
   See Reverse Side

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit 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.

Applicant
   Well Owner: Kenneth Williams
   Landowner: Estate of James Campbell
   Contractor

Signature: __________________________  Signature: __________________________  Signature: __________________________
Date: 10-27-94  Date: 11-1-94  Date: __________________________

For Official Use Only:

Date Received: __________________________
Date Accepted: __________________________
Field Checked By: __________________________

Longitude __________________________
Aquifer System Name __________________________
State Well No __________________________
8. REMARKS, EXPLANATIONS (contd.):

West Beach Estates proposes to install 450 GPM on three of the 11 wells in the EP 10 battery of wells. OSCO's present pumps are end suction pumps in the concrete vault which require operation of a vacuum pump at each start-up. This is not a practical mode of operation for the intended use. Campbell Estate will use other wells in the battery in a similar manner to West Beach for its own uses.

9. PROPOSED WELL SECTION
(Existing Wells in EP 10 Battery)

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
State Well #’s 2006-01 to 2006-11, formerly 276A-K, old #’s 228A-K

Ewa Plantation

Pumps #10, #11, & #12

KNV 2-3-26
 Please Deliver To:

LENORE NAKAMA

Telecopier Number: 587-0219

Total Pages w/This Cover: 2

Hardcopy: will not be mailed

Subject: WATER USE APPLICATION - 6P-10 2006-01-11

Item Description:

Comments:

ATTACHED IS A SKETCH SHOWING THE THREE PUMPS WE'D LIKE TO USE.

From: KEN WILLIAMS

Transmitted By: Date: 12/23/94 Time: 9:15 am

If you do not receive legible copies of all pages, please call (808) 673-7678 as soon as possible and ask for transmitter (name indicated above).
USE THESE THREE

FOUR WELLS CONNECTED TO PUMP 11

THERE WELLS CONNECTED TO PUMP 12

FOUR WELLS CONNECTED TO PUMP 10

ADAPTED FROM A PLANTATION DRAWING PROVIDED BY HUGH MORITA.
PUMP 10, 11, & 12 WELLS

Official No. of Wells .......................... 276A to K (old 228A to K)
Total No. of Wells ............................. 11
Total Depth of Wells ...........................
Average Depth of Wells ........................
Altitude ......................................... 40 ft.

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**PUMP NO. 7 WELLS**

Official No. of Wells .......................... 263A to F (old 220A to F)
Total No. of Wells ............................... 6
Total Depth of Wells ............................. 2,850 ft.
Average Depth of Wells ......................... 475 ft.
Capacity of Pump #7 ..............................
Altitude ........................................... 46 ft.

B.M. Brass plate on well of pit marked 24.96 ft.

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PUMP NO. 5 & 6 WELLS

Official No. of Wells .......... 259A to L (old 219A to L)
Total No. of Wells, Pump #5 ... 6 (1832 ft.)
Total No. of Wells, Pump #6 ... 6 (1349 ft.)
Total Depth of Wells .......... 3,681 ft.
Average Depth of Wells ......... 306.75 ft.
Capacity of Pump #5 .......... 8.7 MGD
Capacity of Pump #6 .......... 12.5 MGD
Altitude ......................... 50 ft.
Approx. lift of Pump #5 ...... 123 ft.
Approx. lift of Pump #6 ...... 106 ft.

WELLS
(Casing 70 ft.)

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* E. P. Co. Record 1891
** E. P. Co. 405