March 10, 2010

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

Notice of Commission Action
Water Use Permit 876

This letter serves as your official notice of action taken by the Commission on Water Resource Management (Commission) on the subject application. By a unanimous vote of the Commission at their meeting on February 17, 2010, the Commission approved your attached water use permit.

If you have any questions, please contact Ryan Imata of Commission Staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director
March 10, 2010

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

Approval of Water Use Permit (WUP No. 876) for Well No. 3001-01
Wahiawa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Alii Turf Well (Well No. 3001-01) for use of 0.115 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 February 17, 2010. 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.

3. The applicant shall obtain the necessary permits from the Department of Health or any other agencies, pertaining to the implementation of Best Management Practices to prevent runoff into adjacent streams.

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 Wahiawa 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 Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]

LAURA H. THELEEN
Chairperson

Attachments: WUR Form
## GROUND-WATER USE PERMIT

**WUP NO. 876**

### PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Address</th>
<th>Landowner of Source</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alii Turf Co., LLC</td>
<td>P.O. Box 689</td>
<td>Alii Turf Co., LLC</td>
<td>P.O. Box 689</td>
</tr>
<tr>
<td></td>
<td>Kahuku, HI 96731</td>
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</tr>
</tbody>
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### PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
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<tbody>
<tr>
<td>Water Management Area</td>
<td>Central</td>
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<tr>
<td>Aquifer Sector</td>
<td>Central</td>
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<td>Aquifer System</td>
<td>Wahiawa</td>
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<td>System Sustainable Yield</td>
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<td>Well Name</td>
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<td>State Well No.</td>
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### PERMITTED USE INFORMATION

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<td>Location of water use</td>
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<td>7-1-001:006</td>
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<td>State land use classification</td>
<td>AG</td>
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<tr>
<td>County zoning classification</td>
<td>AG-1</td>
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</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:
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 February 17, 2010 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 Wahiawa 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 Wahiawa 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 Wahiawa 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.
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REMARKS: LINE (1) Reimbursement for Public Notice cost for WUPA No. 876
LINE (2) 
LINE (3) 
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10)
INVOICE

** BILLING DATE: ** 12/04/2009
** TERMS OF PAYMENT: ** NET 30 DAYS
** BILLED ACCOUNT NO: ** 5828
** CLIENT NAME: ** DLNR, COMM ON WATER RESOURCE MGMT

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** TOTAL AMOUNT DUE **

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Payment is due upon receipt.
Accounts over 30 days will be assessed a finance charge of 1 1/2% per month (18% APR).

** REMIT TO: **
Honolulu Star-Bulletin-MidWeek
Oahu Publications, Inc.
500 Ala Moana Blvd., Suite #7-500
Honolulu, HI 96813

** BILLED ACCOUNT NAME AND ADDRESS **
DLNR, COMM ON WATER RESOURCE MGMT
P.O. BOX 621
HONOLULU, HI 96809

I prefer to pay by: Visa MC AMEX DISC
Name on card: ____________________________
Account #: _____________________________
Exp Date: _______________________________
Amount: ________________________________
Signature: ______________________________

Make checks payable to: Oahu Publications, INC.
IN THE MATTER OF
Public Notice

STATE OF HAWAII
City and County of Honolulu

Doc. Date: DEC - 4 2009
Doc. Description: Affidavit of Publication

Notary Name: Patricia K. Reese
First Judicial Circuit

Rose Mae Rosales being duly sworn, deposes and says that she is an authorized to execute this affidavit of MidWeek Printing, Inc. publisher of MidWeek and the Honolulu Star-Bulletin, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the aforementioned newspapers as follows:

Honolulu Star-Bulletin 2 times on:
11/27, 12/04/2009

Midweek Wed. 0 times on:

Midweek Fri. 0 times on:

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

Rose Mae Rosales

Subscribed to and sworn before me this 4th day
of Dec., A.D. 2009

Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii

My commission expires: October 07, 2010
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

November 24, 2009

TO:
Honorable Kaulana H. Park, Chairperson
Department of Hawaiian Home Lands

Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attn: Mr. Tomas See, Chief, Wastewater Branch
Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch

Mr. Clyde W. Namu'o, Administrator
Office of Hawaiian Affairs

Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Glenn Oyama
Attn: Mr. Barry Usugawa

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application application,
(WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments
by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of
the review period for this application, please contact Ryan Imata at 587-0255.

RI: ss
Attachment(s)

Response:

( X) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Glenn Oyama
Phone: 748-5934
Signed: WAYNE M. HASHIRO, P.E.
Manager and Chief Engineer
Date: DEC 7 2009
PUBLIC NOTICE

Application for Water Use Permit
Wahiawa Ground Water Management Area, Oahu

The following application for water use permit has been received by the Commission on Water Resource Management and is hereby made public in accordance with Section 13-171, Hawaii Administrative Rules, "Designation and Regulation of Water Management Areas."

WUPA No. 876 Alii Turf Well (Well No. 3001-01)

Applicant: Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Landowner: Same
1001 Kamokila Boulevard
Kapolei, HI 96707

Date Application Filed as Complete: October 14, 2009
Hydrologic Unit: Aquifer Areas: Wahiawa System, Central Sector, Oahu
Water Source: Alii Turf Well (Well No. 3001-01) Oahu, Tax Map Key 7-1-001:006
Quantity Requested: 0.115 million gallons per day.
Existing/New Use: New, Irrigation, livestock and compost
Place of Water Use: Tax Map Key: 7-1-001:006

Written objections or comments on the above application 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 December 18, 2009. 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

KEN C. KAWAHARA, P.E., Deputy Director for
LAURA H. THIELEN, Chairperson

Dated: November 17, 2009

Publish in: Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009
TO: Morris Atta, Administrator  
Land Division  

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management  

SUBJECT: Request for Comments  
Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu  

November 24, 2009  

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.  

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.  

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.  

Response:  

( ) A water lease/permit is required of this applicant and an application for such will be requested by our division.  
( ) A water lease/permit is not required of this applicant.  
( ) A water lease/permit has been obtained by the applicant through lease no.  
( ) Other relevant Land Division rules/regulations, information, or recommendations are attached.  
( ) No objections  
( ) Other comments:  

Contact person: Gary Martin  
Phone: 587-0421  
Signed: Gary Martin  
Date: DEC 10 AH 10.57
December 9, 2009

Ms. Laura H. Thielen, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Thielen:

Subject: Water Use Permit Application (WUPA) No. 876, Alii Turf Company, LLC,
Well No. 3001-01, Wahiawa Ground Water Management Area, Oahu

We have reviewed the subject application and provide the following comments:

1. Well No. 3001-01 is located on TMK 7-1-001:006. The total quantity of ground water requested from the Wahiawa Ground Water Management Area is 115,200 gallons per day. The current zoning for this parcel is AG-1 Restricted Agricultural District. It is our understanding that the proposed use of water will be for various crops and livestock operation on this parcel and a nearby parcel (TMK 7-1-001:005) that is also zoned AG-1. Crop production and livestock production are consistent with the AG-1 zoning district (Master Use Table No. 21-3 of the Land Use Ordinance, Chapter 21 of the Revised Ordinances of Honolulu).

2. The proposed use of water is also consistent with the vision of the Central Oahu Sustainable Communities Plan. Parcels 5 and 6 are located within the Agriculture and Preservation areas north of Wahiawa. This area is considered to be high value lands, which are among the best in the State. Providing water for crop production and livestock production will help to retain these agricultural lands.

3. The above-referenced TMKs are not located within the Special Management Area (SMA) and are not subject to the SMA requirements of Chapter 25, Revised Ordinances of Honolulu.

4. Please consult directly with the Board of Water Supply for their comments.

Should you have any questions, please call Matt Higashida of our staff at 768-8045.

Very truly yours,

[Signature]
David K. Tanoue, Director
Department of Planning and Permitting

cc: Glenn Oyama, Board of Water Supply
TO: Honorable Kaulana H. Park, Chairperson
Department of Hawaiian Home Lands

Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attn: Mr. Tomas See, Chief, Wastewater Branch
Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch

Mr. Clyde W. Namu’o, Administrator
Office of Hawaiian Affairs

Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Glenn Oyama
Attn: Mr. Barry Usugawa

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

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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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Johnny Ong, Eng. on Oahu

Signed: ___________________ Date: ___________________
November 24, 2009

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

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management

SUBJECT: Request for Comments  
Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments  
( ) Objections attached  
( ) Only comments attached

Contact person: Daniel S. Auvin  
Phone: 587-0290

Signed: [Signature]

Date: 11/30/09
MEMORANDUM

TO: Ken C. Kawahara, Deputy Director
Commission on Water Resource Management

FROM: Nancy A. McMahon, Deputy Administrator
and Deputy State Historic Preservation Officer
State Historic Preservation Division

Subject: Chapter 6E-42 Historic Preservation Review—
Water Use Permit (WUPA #876) Alii Turf Co LLC Well #3001-01 Wahiawa
Ground Water Management Area
Wahiawa, Waialua, O'ahu Island, Hawai'i
TMK: (1) 7-1-001: 006

Thank you for the opportunity to review this permit. The project is for a new well for irrigation, livestock and compost.

We determine that no historic properties will be affected by this project because:

☑ Intensive cultivation has altered the land
☐ Residential development/urbanization has altered the land
☐ Previous grubbing/grading has altered the land
☐ An accepted archaeological inventory survey (AIS) found no historic properties
☐ SHPD previously reviewed this project and mitigation has been completed
☐ Other.

Please call me at (808) 692-8015 if you have any questions or concerns regarding this letter.
December 21, 2009

Ryan Imata  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawai‘i 96809  

RE: Request for comments on the proposed water use permit application (WUPA), Wahiawa, O‘ahu, TMK: 7-1-01:016.

Aloha e Ryan Imata,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter MA-3512. OHA has reviewed the project and offers the following comments.

OHA appreciates that the applicant intends to begin a hog operation and banana patch in the area; however we see that 3,750 gallons of water per day are to be used for an anticipated use (WUPA, page two) and not an existing use. Of additional note is the overall water requirements estimate for mature sows at two liters per minute, which the applicant translates into 50 to 100 gallons per minute for 100 to 200 pigs. OHA points out that this estimate is vague in terms of total numbers of animals (100 ranging to 200) and that the sows won’t be drinking two liters per minute 24 hours per day. We ask the Commission on Water Resource staff to lend their expertise to these numbers and for the applicant to clarify.

Thank you for the opportunity to comment. If you have further questions, please contact Grant Arnold by phone at (808) 594-0263 or e-mail him at granta@oha.org.

‘O wau iho nō me ka ʻoiaʻiʻo,

Clyde W. Nāmuʻo  
Administrator
November 24, 2009

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Glenn Higashi
Phone: 587-0112
Date: 14 Dec. 09
MEMORANDUM

TO: Dan A. Polhemus, Administrator
FROM: Glenn R. Higashi, Aquatic Biologist
SUBJECT: Comments on Water Use Permit Application (WUPA No. 876)

Comments: Ken C. Kawahara
Requested By: Commission on Water Resource Management
Date of Request: 11/24/09  Date Received: 11/24/09

Summary of Project

Title: Water Use Permit Application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01.

Project By: Alii Turf Co., LLC
Kahuku, HI 96731

Location: Wahiawa System, Central Sector, Oahu TMK: 7-1-001:006

Brief Description:

The applicant, Alii Turf Co., LLC proposes to withdraw 115,200 gallons per day (averaged over 1 year) of ground water from Well No. 3001-01 in Wahiawa, Oahu, Tax Map Key 6-4-03:001. This application is to accommodate new irrigation water requirements for the proposed agricultural development of 58.3 acres of land for crops, mixed livestock and compost.

Comments:

The Division of Aquatic Resources (DAR) has some concerns to this request since the proposed project may have impacts on aquatic resource values in the area. Since this application is for a proposed new well a pump test should be performed on this well to determine if there are any impacts on any streams or aquatic resources in this area that will be affected by this proposed activity.

The proposed agricultural development is also adjacent to the north fork of the Kaukonahua Stream which is part of the Wahiawa Public Fishing Area. Best Management Practices (BMPs) should be incorporated to prevent runoff of sediments, feces, etc. from the adjacent agricultural development parcels-fruit tree and mixed livestock into the stream environment.
TO:     Honorable Kaulana H. Park, Chairperson
        Department of Hawaiian Home Lands
        Honorable Chiyome L. Fukino, M.D., Director
        Department of Health
        Attn: Mr. Tomas See, Chief, Wastewater Branch
        Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch
        Mr. Clyde W. Namu'o, Administrator
        Office of Hawaiian Affairs
        Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
        Honolulu Board of Water Supply
        Attn: Mr. Glenn Oyama
        Attn: Mr. Barry Usugawa

FROM:  Laura H. Thielen, Chairperson
        Commission on Water Resource Management

SUBJECT: Water Use Permit Application
         Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application application
(WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments
by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of
the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
☐ Only comments attached

Contact person: Michael Miyahira
Phone: 586-4282

Signed: ________________________________
Date: 12/1/09
CWRM Application Source: Allii Turf Well
(Well No. 3001-01)
TMK: (1) 7-1-01: 06

Safe Drinking Water Branch (SDWB) - Engineering Section

1. This well may qualify as a source that serves a regulated public water system. Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.

   a. All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

   b. Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

   c. All public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.
d. Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

e. All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.

f. All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.
g. All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai‘i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

2. For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other regulated public water system programs, please contact the Safe Drinking Water Branch Engineering Section at 586-4258.

SDWB Underground Injection Control (UIC) Section

- In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well’s groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

- Well water quality should be initially and periodically tested for it’s acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well’s recharge area may, over time, have an unacceptable effect on the well’s water quality. Well construction materials and related equipment could also affect water quality.
Fed 10:99-0353529, Pahlvoubli (j) (tions, Inc.

500 Ala Moana Blvd., Suite #7-500
Honolulu, HI 96813
Phone: (808) 529 - 4700 Fax (808) 529 - 4836

**INVOICE**

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**TOTAL AMOUNT DUE**

$0.00

**REMIT TO:**

Honolulu Star-Bulletin-MidWeek
Oahu Publications, Inc.
500 Ala Moana Blvd., Suite #7-500
Honolulu, HI 96813

Payment is due upon receipt. Accounts over 30 days will be assessed a finance charge of 1½% per month (18% APR).

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1

**BILLING DATE**

12/04/2009

**BILLED ACCT#**


**ADVERTISER/CLIENT#**


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Name on card: ________________________________

Account #: ________________________________

Exp Date: ________________________________

Amount: ________________________________

Signature: ________________________________

Make checks payable to: Oahu Publications, INC.
IN THE MATTER OF

Public Notice

AFFIDAVIT OF PUBLICATION

STATE OF HAWAII

City and County of Honolulu

Doc. Date: DEC - 4 2009 # Pages: 1

Notary Name: Patricia K. Reese First Judicial Circuit

Doc. Description: Affidavit of Publication

Rose Mae Rosales being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of MidWeek Printing, Inc. publisher of MidWeek and the Honolulu Star-Bulletin, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the aforementioned newspapers as follows:

Honolulu Star-Bulletin 2 times on:
11/27, 12/04/2009

Midweek Wed. 0 times on:

Midweek Fri. 0 times on:

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

Rose Mae Rosales

Subscribed to and sworn before me this 4th day of Dec., A.D. 2009

Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii

My commission expires: October 07, 2010

Ad # 0000162231
FROM: ROY
TO: CHEN, C.
   CHING, F.
   CHONG, A.
   DANBARA, S.
   ENGLAND, D.
   FUJII, N.
   HARDY, R.
   HOAGBIN, S.
   ICE, C.
   IMATA, A.
   KAWAHARA, K.
   KIMURA, J.

DATE: 11/4
SUSPENSE DATE: 

TO: INIT. TO: INIT. FOR: PLEASE:
--- --- --- Approval See Me
--- --- --- Signature Review & Comment
--- --- --- Information Take Action
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--- --- --- Type Final
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PLEASE: See Me
Review & Comment
Take Action
Type Draft
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Xerox ___ copies

Copy then complete?
COMMISSION ON WATER RESOURCE MANAGEMENT  
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN                      DATE: 22-Jul-09         SUSPENSE DATE: 29-Jul-09
TO: INIT.    TO: INIT.    FOR: PLEASE:
CHING, F.    KUNIMURA, I.    1 Approval
FUJI, N.      NAKAMA, I.    3 Signature
GOODING, K.   OHYE, M.    4 Information
1 HARDY, R.   SAKODA, E.    
2 HIGA, D.    SWANSON, S.    
3 HOAGBIN, S.  UYENO, D.    
ICE, C.     YODA, K.    
5 IMATA, R.    YOSHINAGA, M.    
3 KAWAHARA, K.

WELL NUMBER 3001-01          WELL NAME Allii Turf           WUP Number Old= 7177/ New= 876

☐ WELL CONSTRUCTION        ☐ PUMP INSTALLATION        ☐ WUPA

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated

1 TRANS. LETTER
2 PERMIT PROCESS TABLE
3 CWRM MAP
4 APPL. FORM (11 COPIES)
5 USGS MAPS (11 COPIES)
6 TAX MAPS (11 COPIES)
7 PARCEL OWNER VERIF.
8 CONTRACTOR VERIF.
9 ALL INFO FILLED IN
10 BACKGROUND CHECK
11 $25 FEE DEPOSIT SLIP
12 DHPC/CDUP/SMA pre-screen

☐ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

- missing Table 13 (rec'd 10/13/09)
- Log of yellow for background check for contractor

☐
November 24, 2009

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

We acknowledge receipt, on October 14, 2009, of your completed water use permit application (WUPA No. 876) for the Alii Turf Well (Well No. 3001-01). 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 Star Bulletin issues of November 27, 2009 and December 4, 2009. You will be required to pay for the cost of the public notice, which runs about $400. We will send you an invoice shortly after your notice is published.

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 Ryan Imata at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Enclosure
November 24, 2009

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

FROM: 
Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Request for Comments
Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
TO: Morris Atta, Administrator
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Request for Comments
Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

November 24, 2009

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) A water lease/permit is required of this applicant and an application for such will be requested by our division.

( ) A water lease/permit is not required of this applicant.

( ) A water lease/permit has been obtained by the applicant through lease no.

( ) Other relevant Land Division rules/regulations, information, or recommendations are attached.

( ) No objections

( ) Other comments:

Contact person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
TO: Honorable Kaulana H. Park, Chairperson
   Department of Hawaiian Home Lands

   Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attn: Mr. Tomas See, Chief, Wastewater Branch
   Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch

   Mr. Clyde W. Namu'o, Administrator
   Office of Hawaiian Affairs

   Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
   Honolulu Board of Water Supply
   Attn: Mr. Glenn Oyama
   Attn: Mr. Barry Usugawa

FROM: Laura H. Thielen, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
   Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application application
(WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments
by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of
the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
TO:  Mr. Dan Davidson, Executive Officer
    Land Use Commission

FROM:  Laura H. Thielen, Chairperson
        Commission on Water Resource Management

SUBJECT:  WATER USE PERMIT APPLICATION
           Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 project.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ____________________________  Phone: ____________________________
Signed: ____________________________  Date: ____________________________
TO: Mr. David Tanoue, Director  
Department of Planning and Permitting  
City and County of Honolulu

FROM: Laura H. Thielen, Chairperson  
Commission on Water Resource Management

SUBJECT: WATER USE PERMIT APPLICATION  
Wahiawa Ground Water Management Area, Oahu

November 24, 2009

For your review and record, we are forwarding a copy of the application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01, for confirmation of the zoning designation for the proposed uses on the attached application, confirmation of the consistency of the proposed projects with the current zoning designation, and any special management area issues. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009. Please respond by returning this cover memo form by December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss  
Attachment(s)

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s).
( ) This well project ( ) requires ( ) does not require a SMA. If a SMA is required it ( ) has ( ) has not been approved and ( ) is ( ) is not currently active.

( ) Comments attached

Contact person: ___________________________ Phone: _________________

Signed: _________________________________ Date: ___________________
November 24, 2009

Honorable Mufi Hannemann, Mayor
City & County of Honolulu
City Hall
Honolulu, HI 96813

Dear Mayor Hannemann:

Notice of an Application for Water Use Permit
Wahiawa 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 (WUPA No.876) for Alii Turf Co., LLC for Well No. 3001-01, 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."

In accordance with the procedure that has been established between our staff and the City’s Department of Planning and Permitting (DPP), we have sent copies of the application to DPP and the Board of Water Supply for their review and comments. We look forward to receiving the City’s review comments from DPP and BWS within the next sixty (60) days, on whether this water use is consistent with the City’s plans, policies, land use designations and zoning.

Sincerely,

[Signature]
Laura H. Thielen
Chairperson

RI:ss
Enclosures
TO: Other Interested Parties

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Request for Comments
Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

In addition to serving you notice as required by 174C-52 (a), Hawaii Revised Statutes, we transmit for your review and comment a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

We would appreciate your review of the attached application for any conflicts or inconsistencies 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, Hawaii Administrative Rules and must be filed by the December 18, 2009 deadline. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
PUBLIC NOTICE

Application for Water Use Permit
Wahiawa Ground Water Management Area, Oahu

The following application for water use permit has been received by the Commission on Water Resource Management and is hereby made public in accordance with Section 13-171, Hawaii Administrative Rules, "Designation and Regulation of Water Management Areas."

WUPA No. 876 Alii Turf Well (Well No. 3001-01)

Applicant: Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Landowner: Same
1001 Kamokila Boulevard
Kapolei, HI 96707

Date Application Filed as Complete: October 14, 2009
Hydrologic Unit: Aquifer Areas: Wahiawa System, Central Sector, Oahu
Water Source: Alii Turf Well (Well No. 3001-01) Oahu, Tax Map Key 7-1-001:006
Quantity Requested: 0.115 million gallons per day.
Existing/New Use: New, Irrigation, livestock and compost
Place of Water Use: Tax Map Key: 7-1-001:006

Written objections or comments on the above application 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 December 18, 2009. 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

KEN C. KAWAHARA, P.E., Deputy Director for
LAURA H. THIELEN, Chairperson

Dated: November 17, 2009

Publish in: Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009
Mr. Ken Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809  

Dear Mr. Kawahara:

Water Use Permit Application  
From the Wahiawa Aquifer System  
For Alii Turf Co., LLC on TMK 7-1-01:6  
in Wahiawa, Oahu  

Attached is Table 3 of the Water Use Permit application originally submitted on behalf of Alii Turf Co., LLC in July 2009. The information it contains, although not in the form of Table 3, was submitted in the original application and attachments and in the supplemental information submitted by letter dated September 11, 2009.

I believe the application to be complete and would appreciate its expedited processing.

Sincerely,

Tom Nance  

cc: See Ba Thee - Alii Turf Co., LLC  [ Email Only ]  

Attachment
13. TABLE 3: ALTERNATIVES ANALYSIS

<table>
<thead>
<tr>
<th>A. Analysis of potable alternatives</th>
<th>B. Analysis of non-potable alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal sources</td>
<td>There are no municipal non-potable sources in the region.</td>
</tr>
<tr>
<td>Wastewater reuse</td>
<td>There are no wastewater reuse alternatives available. The C&amp;C does discharge into Wahiawa Reservoir, but this source is not available for the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Ditch system</td>
<td>There are not ditch sources in the area.</td>
</tr>
<tr>
<td>Desalination</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface water</td>
<td>As explained in the original application (letter of July 10, 2009) and supplemental information (letter of September 11, 2009), Wahiawa Reservoir water is not available on the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Conservation Measures</td>
<td>Water use will be limited to actual plant ET requirements.</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>None</td>
</tr>
</tbody>
</table>

14. PUBLIC INTEREST

§174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and propagation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancements of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- PUC-Regulated Private System
- Non-PUC-Regulated Private System
- Not a Public Water System
- Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.
STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
APPLICATION FOR GROUND WATER USE PERMIT FOR  
PROPOSED NEW USE IN A DESIGNATED GROUND WATER MANAGEMENT AREA  

FORM GWUPA-N  

For detailed instructions on filling out this application form completely, refer to the attached instructions. Incomplete applications will not be accepted for processing.

The following must be attached before this application is accepted as complete:

- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with source location labeled and include the name of the quad map.
- Property tax map, showing source location referenced to established property boundaries.
- Photograph(s) of the source(s) and location(s) of proposed end use(s), if applicable.

APPLICANT INFORMATION:

Note: In accordance with HRS § 174C-51(1), the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.

1. APPLICANT’S INFORMATION

<table>
<thead>
<tr>
<th>Name/Company</th>
<th>Contact Person</th>
<th>Name/Company</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alii Turf Co., LLC</td>
<td>See Ba Thee</td>
<td>Alii Turf Co., LLC</td>
<td>See Ba Thee</td>
</tr>
</tbody>
</table>

Mailing Address

P. O. Box 689  
Kahuku, Oahu, Hawaii 96731

Phone: 293-8873  
Fax: 293-1962  
E-mail: thees001@hawaii.rr.com

2. SOURCE LANDOWNER’S INFORMATION

<table>
<thead>
<tr>
<th>Name/Company</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alii Turf Co., LLC</td>
<td>See Ba Thee</td>
</tr>
</tbody>
</table>

Mailing Address

P. O. Box 689  
Kahuku, Oahu, Hawaii 96731

Phone: 293-8873  
Fax: 293-1962  
E-mail: thees001@hawaii.rr.com

SOURCE INFORMATION

4. GROUND WATER MANAGEMENT AREA  
Waialua

5. SOURCE INFORMATION

Attach additional sheets, if necessary.

<table>
<thead>
<tr>
<th>Well Number (if known)</th>
<th>Well Name</th>
<th>Existing or Proposed?</th>
<th>TMK</th>
<th>Flowmeter Installed?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alii Turf</td>
<td>Proposed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. TOTAL QUANTITY OF WATER REQUESTED: In the space below, enter total from Box M in Item 11 (Table 1) of this application.

| Gallons per day, averaged over 1 year | 115,200 GPD |

7. PROPOSED USE(S):

- Agriculture
- Domestic
- Industrial
- Irrigation
- Military
- Municipal

Check all that apply.

8. LOCATION OF PROPOSED WATER USE(S): Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps. See Item 11 (Table 1, column B) of this application.

Attached

Note 2: Signing below indicates that the signatories understand and affirm that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that: (1) if necessary, further information may be required before the application is considered complete; (2) if a water use permit is granted by the Commission, this permit is subject to any existing legal uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands’ future uses; and (3) the applicant is responsible for paying the public notice fees associated with this application. Additionally, as stated in Note 1, above, HRS § 174C-51(1), the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.

9. APPLICANT

See Ba Thee  
7-8-09

10. SOURCE LANDOWNER/Joint APPLICANT (if applicable)

See Ba Thee  
7-8-09
### PROPOSED NEW USE OR MODIFIED USE INFORMATION

11. TABLE 1: LAND USE CONSISTENCY / EFFICIENCY OF USE (Attach additional copies if necessary)

#### LAND USE CONSISTENCY

<table>
<thead>
<tr>
<th>USES THAT REQUIRE POTABLE (DRINKING) WATER</th>
<th>USES THAT DO NOT REQUIRE POTABLE WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purposes, property tax map, showing location of use, and write in the date approved, if applicable.</td>
<td>Photograph of the area of proposed use.</td>
</tr>
<tr>
<td>STATE LAND DISTRICT</td>
<td></td>
</tr>
<tr>
<td>PROPERTY TAX MAP CHECK (Attach additional copies, if necessary.)</td>
<td>Photograph of the area of proposed use.</td>
</tr>
<tr>
<td>PURPOSE / WATER USE CATEGORY</td>
<td></td>
</tr>
<tr>
<td>GPD</td>
<td></td>
</tr>
<tr>
<td>TOTAL QUANTITY OF WATER REQUESTED (sum of total)</td>
<td></td>
</tr>
<tr>
<td>TOTAL POTABLE USE</td>
<td></td>
</tr>
<tr>
<td>TOTAL POTABLE USE</td>
<td></td>
</tr>
<tr>
<td>TOTAL QUANTITY OF WATER REQUESTED</td>
<td></td>
</tr>
<tr>
<td>Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Refer HRS § 174C-1.</td>
<td></td>
</tr>
</tbody>
</table>

#### JUSTIFICATION FOR QUANTITY OF WATER REQUESTED (If applicable, attach additional sheets showing how the quantity was calculated.)

**For Irrigation Uses:**
- Irrigation for proposed location of use.
- Check the appropriate box, if applicable.
- Property tax map, showing location of use, and write in the date approved, if applicable.

**For Proposed Location of Use: COUP:**
- Check the appropriate box, and write in the date approved, if applicable.

**For Proposed Location of Use: SMUP:**
- Check the appropriate box, and write in the date approved, if applicable.

**UNITS OR NET ACREAGE:**
- GROUND OR QUANTITY OF USE (GPD)

### EFFICIENCY OF USE

<table>
<thead>
<tr>
<th>LAND USE CONSISTENCY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURPOSE / WATER USE CATEGORY</td>
<td></td>
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<td></td>
<td></td>
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<td>GPD</td>
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<td>TOTAL POTABLE USE</td>
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</tr>
<tr>
<td>Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Refer HRS § 174C-1.</td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>
PROPOSED NEW USE OR MODIFIED USE INFORMATION (continued)

12. TABLE 2: IRRIGATION INFORMATION
List all crops that will be grown, including landscape and golf course irrigation uses. Copy Table 2 and attach additional sheets to complete your list, if necessary.

<table>
<thead>
<tr>
<th>A</th>
<th>B C D E F G H I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRISP</td>
</tr>
<tr>
<td></td>
<td>CROP</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
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<td>1</td>
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<tr>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
</tr>
</tbody>
</table>

Comments (continued from Column I). Please clearly indicate the crop (i.e.,...
Site of the Proposed Alii Turf Well in the South Corner of Tract 7-1-01:6
February 24, 2009

Mr. Clifford P. Lum  
Manager and Chief Engineer  
Board of Water Supply  
630 S. Beretania St.  
Honolulu, Hawai‘i 96843

Dear Mr. Lum,

I am working on behalf of Mr. See Ba Thee (TC) to secure a source of agricultural water for a parcel of agricultural land he has purchased in Wahiawa. The TMK Nos. for the property are (1) 7-1-001-005 & 27 and are a part of the Galbraith Estate property recently purchased by TC. TC is a cooperator with the West O‘ahu Soil and Water Conservation District on a parcel of land he is currently renting in the Mililani Agricultural Park. TC is a serious farmer and currently has a thriving turf grass production business. TC wants to apply his agricultural expertise to his new property. His most immediate agricultural water need is for a dry litter hog operation. Water use under such a system is minimal and requirements are detailed in the attached report from AgTech Pacific.

TC’s efforts on his new property will contribute to the expansion of diversified agriculture on the island of O‘ahu. The Galbraith Estate property, which consists of approximately 2,100 acres, abuts Lake Wilson on the North Shore side of the reservoir and extends toward the Dole Helemano plantation and Schofield Barracks and has been idle since Del Monte abandoned pineapple operation on the property in July 2004. It is now overgrown with guinea grass and various types of trees and shrubs. Considerable expense will be required to clean the land and prepare it for active agriculture. TC’s effort will be the first of many as other farmers purchase lots and move onto the land.

TC’s plan to start a livestock operation is urgently needed by the people of Hawaii to fulfill the goals of sustainability and self-sufficiency in agricultural production. The creation of a livestock venture is a bold move and helps fill a need for loss of such operations around the island of O‘ahu and the rest of the state. This type of agricultural endeavor can only be realized on ground that is dedicated to farming through the commitment of the landowner. Many farmers on O‘ahu face short-term leases or “licenses” to farm which range in length from 1 to 5 years. Often these arrangements have a 30-day “get out” clause should the landowner want to rent the property to more “lucrative” ventures. Because of such arrangements it is difficult to invest money in long-term capital improvements to agricultural land as a “lessee”. Livestock operations require much planning and commitment to be profitable and are, therefore, not suitable for any sort of short-term (less than 5 years) venture.

In addition to the hog operation TC also wants to start and slowly expand to a 5 to 10 acre banana farm. The production of bananas, will not only include the fruit, but will also generate a
secondary by-product of the operation, banana stump. Banana stump is used in imu for cooking a local favorite, kalua pig. The commercial production of hogs and bananas is consistent with the demand for the two products in the Hawaiian culture and lifestyle.

Because of his extensive agricultural and business experience TC will have a good chance to successfully execute his agricultural plans on the new land. However, in order to ensure success he will need a source of potable water to manage the planned hog and banana operation. Additionally, drinking water is needed for workers who will be employed by him. This is exactly the kind of agricultural entrepreneurial effort needed to diversity the state’s economy, produce food locally, and provide needed jobs for the nearby communities of Wahiawa, Whitmore Village, Waialua, and Haleiwa. A 1.5 inch water meter is needed to commence the planned operation. As the venture proceeds he will look for additional sources of water (wells or surface water sources) to fully develop his 68 acres. The approval and installation of a 1.5 inch meter should be adequate to address his most urgent needs. However, TC recognizes that this size of water meter may not be available under the existing Board of Water Supply infrastructure abutting his property in Whitmore Village. If, at a minimum, he can secure a 5/8 inch meter (standard household at an agricultural rate) this will permit him to start the ground work for his farm and he will continue searching for additional sources of agricultural water as he slowly builds his business.

As a Director and Treasurer for the Board of the West Oahu Soil and Water Conservation District I have come to know TC as an authentic, responsible, reliable, and dedicated farmer. He has a strong vision for agriculture in Hawaii and would very much like to move forward as quickly as possible to achieve that vision. Any assistance you can offer him in obtaining the needed water would be appreciated.

Please call me or e-mail if you would like to discuss this further.

Sincerely,

John J. McHugh, Jr. Ph.D.
Crop Care Hawaii, LLC

Copies to: D. McDonald
See Ba Thee
Initial plans for the approximate 68 acres recently purchased by Mr. See Ba Thee (TC) are to raise between 100 to 200 pigs. Additionally, should there be a sufficient source of water, plans are to develop approximately 5 to 10 acres of banana. A reliable water source to meet the peak water demands for this operation as well as for general water use will be required immediately while alternative water sources are investigated for future agricultural ventures on the remainder of the property.

**Water Requirements, pig operation**

TC plans to incorporate a dry litter technique for raising pigs requiring little to no water for washdown. Soiled litter will be removed and utilized for mulch and compost for crop cultivation as opposed to washing the waste down for storage in a lagoon. It has been reported that recommended flow rates for drinking water alone for mature sows are 2 liters per minute which translates into 50 to 100 gallons per minute (GPM) for this aspect of the operation.

**Water Requirements, banana cultivation**

Current plans are for 5 to 10 acres of banana. Historical weather data was taken from the Pineapple Research Institute in Wahiawa which would be the most representative data available. Based on this data a peak consumptive use estimate in NRCS format was established, refer to Attachment A. Based on this, data peak water demand would occur in June requiring 0.35 inches per day to meet banana irrigation demand. For a 5 to 10 acre plot operating on a 20 hour per day irrigation schedule a minimum flow of 40 to 80 GPM would be required. A summary of the water requirements is shown in the table below.

<table>
<thead>
<tr>
<th>ACRES</th>
<th>GPD</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10000</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>48000</td>
<td>40</td>
</tr>
<tr>
<td>10</td>
<td>95000</td>
<td>79</td>
</tr>
<tr>
<td>20</td>
<td>190000</td>
<td>158</td>
</tr>
</tbody>
</table>

A 2" meter would be allow Mr. See Ba Thee to get started with his initial pig operation and cultivate some banana while he investigates future water sources. A 1 1/2" meter would allow him to start his pig operation but would limit his ability to cultivate any significant acreage of banana.
ATTACHMENT A

SEE BA THEE
CONSUMPTIVE USE ESTIMATE - UPDATED 02/02/2009

1 LOCATION: Whitmore
CROP: Banana

2 PAN EVAPORATION
STATION #: 820.20
PEAK MONTH: June
MEAN MONTHLY EVAPORATION: 7.79 IN.
MEAN MONTHLY RAINFALL: 1.1 IN.
MEAN MONTHLY NET EVAPORATION: 6.69 IN. (A)

3 PEAK MONTH CONSUMPTIVE USE COEFFICIENT: 1.1 (B)

4 PEAK MONTH CONSUMPTIVE USE RATE: 7.36 IN. (C)

5 NET IRRIGATION
SOIL TYPE: WaA
MOISTURE EXTRACTION DEPTH: TOP 36 IN.
MOISTURE HOLDING CAPACITY: TOP 1.4 IN/FT
MOISTURE HOLDING CAPACITY: TOP 0.117 IN/IN X 36 IN. = 4.2 IN.
MOISTURE EXTRACTION DEPTH: MID
MOISTURE HOLDING CAPACITY: MID
MOISTURE HOLDING CAPACITY: MID 0.000 IN/IN X IN. = 0 IN.
MOISTURE EXTRACTION DEPTH: LOWER
MOISTURE HOLDING CAPACITY: LOWER
MOISTURE HOLDING CAPACITY: LOWER 0.000 IN/IN X IN. = 0 IN.
TOTAL: 4.2 IN. (D)

NET IRRIGATION: 4.2 / 2 = 2.1 IN. (E)

6 PEAK PERIOD DAILY AVERAGE CONSUMPTIVE USE RATE
I = 2.10 IN. (F)
Um = 7.359 IN (G)
Up = 0.28 IN/DAY (H)

7 PEAK PERIOD IRRIGATION INTERVAL
I/Up = 7.5 DAYS (I)

8 PEAK PERIOD GROSS IRRIGATION
IRRIGATION EFFICIENCY Ea = 80%
Up/Ea = 0.35 IN/DAY
Mr. John J. McHugh, Jr.
Crop Care Hawaii, LLC
2923A Ka'amalio Drive
Honolulu, Hawaii 96822

Dear Mr. McHugh:

Subject: Your Letter of February 24, 2009 Requesting the Availability of Water to the Proposed Agricultural Development in Wahiawa, TMK: 7-1-001:005 & 027

Thank you for your letter requesting water service to the proposed pig operation and banana cultivation development near Whitmore Village.

Water service cannot be made available to the proposed pig operation and banana cultivation development. Development of the proposed parcel for agricultural use will adversely impact the fire flow to the existing Helemano Elementary School. The improvements necessary to accommodate the proposed agricultural development are quite extensive, and we do not have plans to construct them at this time. We recommend the developer install a private water source to serve the proposed development.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA
Program Administrator
Customer Care Division
TURF
GRASS (8.5 AC.)

WHITMORE AVENUE

BANANA
AND PARAYA
(10.5 AC.)

VEGETABLE
CROPS
(7.5 AC.)

ANIMALS
(PIGS, CHICKENS, DUCKS)
(7.5 AC.)

TURF
GRASS
(4.5 AC.)

NURSERY
PLANTS
(5 AC.)

KAM HIGHWAY

COMPOST
(1.9 AC.)

FRUIT
TREES
(4.8 AC.)

PROPOSED ALI'I TURF & WELL
TO: Dan A. Polhemus, Administrator
FROM: Glenn R. Higashi, Aquatic Biologist
SUBJECT: Comments on Water Use Permit Application (WUPA No. 876)

Comments
Requested By: Commission on Water Resource Management
Date of Request: 11/24/09 Date Received: 11/24/09

Summary of Project

Title: Water Use Permit Application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01.

Project By: Alii Turf Co., LLC
Kahuku, HI 96731

Location: Wahiawa System, Central Sector, Oahu TMK: 7-1-001:006

Brief Description:

The applicant, Alii Turf Co., LLC proposes to withdraw 115,200 gallons per day (averaged over 1 year) of ground water from Well No. 3001-01 in Wahiawa, Oahu, Tax Map Key 6-4-03:001. This application is to accommodate new irrigation water requirements for the proposed agricultural development of 58.3 acres of land for crops, mixed livestock and compost.

Comments:

The Division of Aquatic Resources (DAR) has some concerns to this request since the proposed project may have impacts on aquatic resource values in the area. Since this application is for a proposed new well a pump test should be performed on this well to determine if there are any impacts on any streams or aquatic resources in this area that will be affected by this proposed activity.

The proposed agricultural development is also adjacent to the north fork of the Kaukonahua Stream which is part of the Wahiawa Public Fishing Area. Best Management Practices (BMPs) should be incorporated to prevent runoff of sediments, feces, etc. from the adjacent agricultural development parcels-fruit tree and mixed livestock into the stream environment.
December 21, 2009

Ryan Imata  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawai‘i 96809

RE: Request for comments on the proposed water use permit application (WUPA), Wahiawa, O‘ahu, TMK: 7-1-01:016.

Aloha e Ryan Imata,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter MA-3512. OHA has reviewed the project and offers the following comments.

OHA appreciates that the applicant intends to begin a hog operation and banana patch in the area; however we see that 3,750 gallons of water per day are to be used for an anticipated use (WUPA, page two) and not an existing use. Of additional note is the overall water requirements estimate for mature sows at two liters per minute, which the applicant translates into 50 to 100 gallons per minute for 100 to 200 pigs. OHA points out that this estimate is vague in terms of total numbers of animals (100 ranging to 200) and that the sows won’t be drinking two liters per minute 24 hours per day. We ask the Commission on Water Resource staff to lend their expertise to these numbers and for the applicant to clarify.

Thank you for the opportunity to comment. If you have further questions, please contact Grant Arnold by phone at (808) 594-0263 or e-mail him at granta@oha.org.

‘O wau iho nō me ka ‘oia‘i‘o,

Clyde W. Nāmu‘o  
Administrator

EXHIBIT 5
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

February 17, 2010
Honolulu, Oahu

Alii Turf Co., LLC
APPLICATION FOR A WATER USE PERMIT
All Turf Well (Well No. 3001-01), TMK 7-1-001:006, WUP No. 876
Future (Agricultural) Use for 0.115 mgd
Wahiawa Ground Water Management Area, Oahu

APPLICANT: Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

LANDOWNER: Same

SUMMARY OF REQUEST:
The applicant requests that the Commission on Water Resource Management (Commission) approve a water use permit for an allocation of 0.115 million gallons per day (mgd) of potable ground water from a new well (Well No. 3001-01) to supply 55.7 acres of irrigation demand.

LOCATION MAP: See Exhibit 1

BACKGROUND:
On July 13, 2009, a Well Construction and Pump Installation Permit application was submitted to staff. Staff has not yet issued the Well Construction Permit due to some outstanding issues with the driller. However, the applicant has stated that they wanted to move forward with the Water Use Permit application.

On October 14, 2009, a completed water use permit application was received from Alii Turf Co., LLC 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 23 mgd as the sustainable yield for the Wahiawa 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:

Table 1. Wahiawa Aquifer System

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Wahiawa Aquifer System (mgd)</th>
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<tbody>
<tr>
<td>Sustainable Yield</td>
<td>23</td>
</tr>
<tr>
<td>Less: Other Existing Water Use Permits (shown in Exhibit 2a)</td>
<td>21.928</td>
</tr>
<tr>
<td>Reservation to DHHL</td>
<td>0</td>
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<tr>
<td>Subtotal (Current Available Allocation)</td>
<td>1.072</td>
</tr>
<tr>
<td>Less: Other Completed Applications (shown in Exhibit 3)</td>
<td>0.359</td>
</tr>
<tr>
<td>Less: This Application</td>
<td>0.115</td>
</tr>
<tr>
<td>Subtotal (Potential Available Allocation/Allocation Deficit)</td>
<td>0.598</td>
</tr>
</tbody>
</table>

Therefore, there is adequate water available to accommodate this request.

(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".

1. Purpose of Use
The applicant is requesting the use of potable water to irrigate 55.7 acres of crops, livestock and composting. These are considered agricultural uses of water. The Declaration of Policy section, §174C-2(c) HRS, states that the Water Code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for various purposes including agricultural uses.

II. Quantity Justification

The applicant is requesting a total of 0.115 mgd, broken down as follows:

Crops

The applicant states that they need 34,200 gpd for crop irrigation. The basis for this is 1,500 gpd/acre for 22.8 acres.

The applicant stated that they will be growing the following crops: banana, papaya, vegetable crops and fruit trees.

Since its presentation to the Commission in April 2008, the Commission staff has used an ArcGIS based numerical simulation model, created in conjunction with the College of Tropical Agriculture and Human Resources (CTAHR), from the University of Hawaii, as a guideline to help review irrigation requirements for proposed water use permit applications. Most applications do not have the level of irrigation analysis as provided by this application. Nevertheless, it is useful to use the Irrigation Water Requirement Estimation Decision Support System (IWREDSS) model for comparative purposes.

Based on the IWREDSS, staff has calculated the following duties:

Banana – 2,199 gpd/acre
Papaya – 1,742 gpd/acre
Vegetable crops – 3,345 gpd/acre
Fruit trees – 2,678 gpd/acre

Since all of these estimates are greater than the applicant’s duty, the 1,500 gpd/acre appears to be reasonable.

Ornamental and Nursery

The applicant has stated that they need 1,500 gpd/acre for nursery plants. Through the IWREDSS, staff has calculated 4,371 gpd/acre for nursery plants. Therefore the applicant’s request appears to be reasonable.
Livestock Processing

The applicant has stated that 500 gpd/acre is required for 7.5 acres of livestock production. Staff discovered through a subsequent discussion with the applicant that approximately 500 pigs could be raised, at about 2.5 gpd/pig based on actual demands (100 pigs use a 255 gallon tank daily). Staff has consulted the draft copy of “A Literature Compilation of Water Usage For Hawaii”, prepared by the Water Resources Research Center of the University of Hawaii, which estimates that pigs use approximately 2.5 gpd/pig. Therefore a new demand would be 500 pigs * 2.5 gpd/pig = 1,250 gallons.

Turf Irrigation

The applicant has stated that they need 3,600 gpd/acre for turf irrigation. Through the IWREDSS, staff has calculated 3,694 gpd/acre. Therefore the applicant’s request appears to be reasonable.

Composting

The composting portion of the allocation was initially inadvertently left off of the application except for a line item in Table 2. Subsequent conversation with the applicant indicates that they will need 1,500 gpd/acre, multiplied by 1.8 acres, for a total of 2,700 gallons per day. Staff does not have a comparable duty reference for composting. However, Hawaiian Earth Products (HEP), who also has an application pending with the CWRM, is applying for 3,500 gpd/acre. The difference is probably attributed to HEP’s requirement to accelerate the composting process, as composting is the primary use. Therefore, 1,500 gpd/acre appears to be reasonable.

Summary for demands

All of the applicant’s duties appear to be reasonable, with the corrected values for livestock production. Using the new livestock number, the total amount that staff considers to be reasonable is 34,200 gpd (crops) + 5,250 gpd (nursery) + 72,000 gpd (turf) + 1,250 gpd (livestock) + 2,700 gpd (composting) = 115,400 gpd.

III. Efficiency of Use

The applicant will use drip irrigation for crops and sprinklers for turf, which are as efficient as possible.

IV. Analysis of Practical Alternatives

The applicant has identified the availability of following alternatives:

1. Municipal sources – none available
2. **Wastewater reuse** – none available
3. **Ditch system** – none available.
4. **Desalinization** – desalinization of salt water obtainable by drilling a well through the fresh water lens would be cost prohibitive.
5. **Surface water** – Surface water from the Kaukonahua Stream was considered but is not considered feasible for two reasons. First, there is a property between the Stream and the applicant’s parcel (right-of-ways would be necessary). Second, recently adopted operating changes keep the reservoir/stream level low due to dam safety concerns, which makes the water turbid and unreliable.
6. **Conservation measures** – Water use will be limited to actual plant ET requirements.
7. **Other** – none

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

This well has not yet been constructed. Analysis from the pump tests required for this well will show possible adverse effects on other existing legal uses.

(4) **Public interest**

Public interest is defined under §174C-2 - Declaration of policy, as follows:

"(c) The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest."

Additionally, there have been no comments or objections to this application.

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

The proposed uses are in the State Agricultural District, and the county zoning is AG-1. Therefore, the proposed use is consistent with these land use designations.

Normal agency review includes:
1) the State's Department of Land and Natural Resources (DLNR) and its State Parks, Aquatic Resources, Historic Preservation, and Land Divisions; the Department of Health (DOH) with its Clean Water, Safe Drinking Water, and Wastewater Branches; the Department of Hawaiian Home Lands (DDHL), and Land Use Commission (LUC); and the Office of Hawaiian Affairs (OHA).

2) the County's County Council, Department of Planning and Permitting, and the Department of Water Supply;

These proposed uses are consistent with the state and county general plans and land use designations.

The Office of Hawaiian Affairs submitted concerns about the livestock numbers (attached as Exhibit 4). These concerns were addressed earlier in the Quantity Justification section above.

The Division of Aquatic Resources has expressed concerns over surface water impacts, which should be addressed by the pump tests performed through the Well Construction Permit process. They have also expressed concerns over the runoff from the facility entering downgradient streams. The DAR comments are attached as Exhibit 5. A special condition can be attached which requires the applicant to obtain appropriate permits from the Department of Health as a special condition of this permit.

(6) County land use plans and policies

Again normal County review includes County Council, Department of Planning and Permitting, and the Department of Water Supply. No comments or objections have been made.

Therefore, this application meets the 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 and made no comments or objections. Further, standard water use permit conditions 3.g., 6., and 9.f. notify all water use permittees that their permits are subject to and cannot interfere with Hawaiian home land rights.

Therefore, this application will not interfere with Hawaiian home lands rights.
Staff Submittal

February 17, 2010

RECOMMENDATION:

Staff recommends that the Commission approve the issuance of water use permit no. 876 to Alii Turf Co., LLC for the reasonable and beneficial use of 0.115 million gallons per day of potable water for agricultural use from the All Turf Well (Well No. 3001-01), subject to the standard water use permit conditions listed in Attachment B and the following 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. The applicant shall obtain the necessary permits from the Department of Health or any other agencies, pertaining to the implementation of Best Management Practices to prevent runoff into adjacent streams.

Respectfully submitted,

KEN C. KAWAHARA, P.E.
Deputy Director

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

Exhibit(s):  1  (Location Map)
2a&b  (Existing Water Use Permits and 12-Month Moving Average Withdrawal)
3  (Pending Water Use Permit Applications)
4  (OHA comments)
5  (DAR comments)

APPROVED FOR SUBMITTAL:

LAURA H. THIELEN
Chairperson
WATER USE PERMIT DETAILED INFORMATION

Source Information

<table>
<thead>
<tr>
<th>AQUIFER:</th>
<th>Wahiawa System, Central Sector, Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainable Yield:</td>
<td>23 mgd</td>
</tr>
<tr>
<td>Existing Water Use Permits:</td>
<td>21.928 mgd</td>
</tr>
<tr>
<td>Available Allocation:</td>
<td>1.072 mgd</td>
</tr>
<tr>
<td>Total other pending applications:</td>
<td>0.359 mgd</td>
</tr>
<tr>
<td>This application:</td>
<td>0.115 mgd</td>
</tr>
</tbody>
</table>

WELL: not yet drilled

Use Information

| Quantity Requested: | 0.115 gallons per day. |
| Future Type of Water Use: | Agricultural |
| Place of Water Use: | TMK: 7-1-001:005 |

Wahiawa Aquifer System

Current 12-Month Moving Average Withdrawal (See Exhibit 2): 0.259 mgd (as of 9/09)

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Honolulu Advertiser on November 27, 2009 and December 4, 2009 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 December 18, 2009.

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 December 18, 2009.
To the best of staff's knowledge there are no objectors who have property interest within the Wahiawa 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.
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 February 17, 2010 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;

ATTACHMENT B
Staff Submittal

February 17, 2010

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 Wahiawa 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 Wahiawa 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 which 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.

ATTACHMENT B
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 Wahiawa 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. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

19. 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.
Aquifer System Area Water Use Permit Index (total)  

ISLAND OF OAHU

Aquifer System Ground Water Management Area: WAHIAWA

Sustainable Yield = 23

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<tr>
<th>WUP No</th>
<th>Approved</th>
<th>Applicant</th>
<th>Well No.</th>
<th>Well Name</th>
<th>WUP (mgd)</th>
<th>12-MAV (mgd)</th>
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<td>6/2/1993</td>
<td>WAIALUA SUGAR</td>
<td>3102-02</td>
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Summary for WAHIAWA (17 detail records)  
Totalling 21.928  
Available 1.072
## Pending Water Use Applications

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<th>WUPNO</th>
<th>Well No</th>
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<th>Well Name</th>
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<td>7/13/2009</td>
<td>10/14/2009</td>
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<tr>
<td>879</td>
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<td>HEP-1</td>
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<td>8/27/2009</td>
<td>9/11/2009</td>
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</tbody>
</table>

2 WUPAs totalling 0.474

2 Total WUPAs for 0.474
Mr. Ken Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809  

Dear Mr. Kawahara:

Water Use Permit Application  
From the Wahiawa Aquifer System  
For Alii Turf Co., LLC on TMK 7-1-01:6  
in Wahiawa, Oahu

Attached is Table 3 of the Water Use Permit application originally submitted on behalf of Alii Turf Co., LLC in July 2009. The information it contains, although not in the form of Table 3, was submitted in the original application and attachments and in the supplemental information submitted by letter dated September 11, 2009.

I believe the application to be complete and would appreciate its expedited processing.

Sincerely,

Tom Nance

cc: See Ba Thee - Alii Turf Co., LLC  [Email Only]

Attachment
### 13. TABLE 3: ALTERNATIVES ANALYSIS

<table>
<thead>
<tr>
<th>A. Analysis of potable alternatives</th>
<th>B. Analysis of non-potable alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal sources</td>
<td>There are no municipal non-potable sources in the region.</td>
</tr>
<tr>
<td>As indicated in its March 9, 2009 letter, BWS can not supply the needed water from its potable system.</td>
<td></td>
</tr>
<tr>
<td>Wastewater reuse</td>
<td>There are no wastewater reuse alternatives available. The C&amp;C does discharge into Wahiawa Reservoir, but this source is not available for the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Ditch system</td>
<td>There are not ditch sources in the area.</td>
</tr>
<tr>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Desalinization</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Not applicable in this area. The only potential feedwater source is onsite groundwater. It is of potable quality and not in need of desalinization.</td>
<td></td>
</tr>
<tr>
<td>Surface water</td>
<td>As explained in the original application (letter of July 10, 2009) and supplemental information (letter of September 11, 2009). Wahiawa Reservoir water is not available on the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Conservation Measures</td>
<td>Water use will be limited to actual plant ET requirements.</td>
</tr>
<tr>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Other (specify)</td>
<td>None</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. PUBLIC INTEREST

§ 174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, agriculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and propagation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

### 15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

### 16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

### 17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- PUC-Regulated Private System
- Non-PUC-Regulated Private System
- Not a Public Water System
- Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management

Application for Ground Water Use Permit for Proposed New Use in a Designated Ground Water Management Area

Form GWUPA-N

Application for New Use
Application to Modify WUP No.

For detailed instructions on filling out this application form completely, refer to the attached instructions. Incomplete applications will not be accepted for processing.

The following must be attached before this application is accepted as complete:
- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with source location labeled and include the name of the quad map.
- Property tax map, showing source location referenced to established property boundaries.
- Photograph(s) of the source(s) and location(s) of proposed end use(s), if applicable.

1. Applicant's information

2. Source landowner's information

3. Island

4. Ground water management area

5. Source information

6. Proposed use information

7. Proposed use(s):
- Agriculture
- Domestic
- Industrial
- Military
- Municipal

8. Location of proposed water use(s):

9. Applicant

10. Source landowner/joint applicant (if applicable)

Note 1: In accordance with HRS §174C-51(1), the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.

Note 2: Signing below indicates that the signatories understand and affirm that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that: (1) if necessary, further information may be required before the application is considered complete; (2) if a water use permit is granted by the Commission, this permit is subject to any existing legal uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands' future uses; and (3) the applicant is responsible for paying the public notice fees associated with this application. Additionally, as stated in Note 1, above, HRS §174C-51(1) the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.
**PROPOSED NEW USE OR MODIFIED USE INFORMATION**

11. **TABLE 1: LAND USE CONSISTENCY / EFFICIENCY OF USE** (Attach additional copies, if necessary.)

<table>
<thead>
<tr>
<th>LAND USE CONSISTENCY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURPOSE / WATER USE CATEGORY</td>
<td>TIM FOR PROPOSED LOCATION OF USE AT THE FOLLOWING:</td>
<td>PROPERTY LINE, SHOWING PROPOSED LOCATION OF USE OWNED OR RENTED TO APPLICABLE PROPERTY TAX MAPS.</td>
<td>STATE LAND USE DISTRICT</td>
<td>COUNTY ZONING CODE</td>
<td>SMAP REQUIRED</td>
<td>UNTS OR NEW ZONING</td>
<td>QUANTITY OF WATER USE (GPD)</td>
<td>JUSTIFICATION FOR QUANTITY OF WATER REQUESTED (Attend additional sheet showing how the quantity was calculated)</td>
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<td>USES THAT REQUIRE POTABLE (DRINKING) WATER</td>
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<td>AGRCP 7 1 01 05 AG</td>
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<tr>
<td>USES THAT DO NOT REQUIRE POTABLE WATER</td>
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<tr>
<td>TOTAL POTABLE USE</td>
<td>K</td>
<td>GPD</td>
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<tr>
<td>TOTAL NON-POTABLE USE</td>
<td>L</td>
<td>GPD</td>
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</table>

**TOTAL QUANTITY OF WATER REQUESTED** (sum of total potable use and total non-potable use) = M 115,200 GPD

Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Ref: HRS § 174C-51(5).

---

<table>
<thead>
<tr>
<th>USES THAT REQUIRE POTABLE (DRINKING) WATER</th>
<th>QUANTITY OF WATER REQUESTED (GPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRCP 7 1 01 05 AG</td>
<td>22.8 1500 34,200 Drip irrigation to be used. Use rate based on applicant's experience.</td>
</tr>
<tr>
<td>AGRON 7 1 01 05 AG</td>
<td>3.5 1500 5,250 Drip and mist spray irrigation. Use rate based on applicant's experience.</td>
</tr>
<tr>
<td>AGROTH 7 1 01 05 AG</td>
<td>20.0 3600 72,000 Turf grass grown in compost on plastic sheets. Use rate based on applicant's experience.</td>
</tr>
<tr>
<td>AGRLI 7 1 01 05 AG</td>
<td>7.6 500 3,750 A mix of pigs, chickens, and ducks is anticipated.</td>
</tr>
</tbody>
</table>

**TOTAL QUANTITY OF WATER REQUESTED** (sum of total potable use and total non-potable use) = M 115,200 GPD

---

Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Ref: HRS § 174C-51(5).
### TABLE 2: IRRIGATION INFORMATION

List all crops that will be grown, including landscape and golf course irrigation uses. Copy Table 2 and attach additional sheets to complete your list, if necessary.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CROP</td>
<td>TOTAL ACREAGE</td>
<td>NET IRRIGATED ACREAGE</td>
<td>BEGIN GROWTH PERIOD (month)</td>
<td>END GROWTH PERIOD (month)</td>
<td>IRRIGATION SYSTEM (refer to instructions)</td>
<td>IRRIGATION PRACTICE (refer to instructions)</td>
<td>COMMENTS</td>
</tr>
<tr>
<td>7</td>
<td>Turf Grass</td>
<td>71</td>
<td>20.1</td>
<td>January</td>
<td>December</td>
<td>Multiple Sprinklers</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Banana and Papayas</td>
<td>71</td>
<td>10.5</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Vegetable Crops</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Fruit Trees</td>
<td>71</td>
<td>4.8</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Nursery Plants</td>
<td>71</td>
<td>3.5</td>
<td>January</td>
<td>December</td>
<td>Drip and Spray</td>
<td>Apply a fixed depth per irrigation.</td>
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</tr>
<tr>
<td>7</td>
<td>Pigs, Chickens, and Ducks</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
<td>Other</td>
<td>Other</td>
<td>Animal consumption and washing the area.</td>
</tr>
<tr>
<td>7</td>
<td>Compost</td>
<td>71</td>
<td>1.8</td>
<td>January</td>
<td>December</td>
<td>Spray</td>
<td>Other</td>
<td>Moisture control to avoid fire hazard.</td>
</tr>
</tbody>
</table>

Comments (continued from Column I). Please clearly indicate the crop (i.e., the row in table) these comments relate to,
## OTHER PERTINENT INFORMATION

### TABLE 3: ALTERNATIVES ANALYSIS

<table>
<thead>
<tr>
<th></th>
<th>A. Analysis of potable alternatives</th>
<th>B. Analysis of non-potable alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attach additional sheets if necessary.</td>
<td>Attach additional sheets if necessary.</td>
</tr>
<tr>
<td>Municipal sources</td>
<td>As indicated in its March 9, 2009 letter, BWS can not supply the needed water from its potable system.</td>
<td>There are no municipal non-potable sources in the region.</td>
</tr>
<tr>
<td>Wastewater reuse</td>
<td>Not Applicable</td>
<td>There are no wastewater reuse alternatives available. The C&amp;C does discharge into Wahiawa Reservoir, but this source is not available for the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Ditch system</td>
<td>Not Applicable</td>
<td>There are not ditch sources in the area.</td>
</tr>
<tr>
<td>Desalination</td>
<td>Not applicable in this area. The only potential fee water source is onsite groundwater. It is of potable quality and not in need of desalination.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface water</td>
<td>Not Applicable</td>
<td>As explained in the original application letter of July 10, 2009 and supplemental information letter of September 11, 2009, Wahiawa Reservoir water is not available on the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Conservation Measures</td>
<td>Water use will be limited to actual plant ET requirements.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. PUBLIC INTEREST

§174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and preservation of aquatic and terrestrial resources, including fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

### 15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

### 16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

### 17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- [ ] PUC-Regulated Private System
- [ ] Non-PUC-Regulated Private System
- [ ] Not a Public Water System
- [ ] Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.
February 24, 2009

Mr. Clifford P. Lum  
Manager and Chief Engineer  
Board of Water Supply  
630 S. Beretania St.  
Honolulu, Hawai'i 96843

Dear Mr. Lum,

I am working on behalf of Mr. See Ba Thee (TC) to secure a source of agricultural water for a parcel of agricultural land he has purchased in Wahiawa. The TMK Nos. for the property are (1) 7-1-001-005 & 27 and are a part of the Galbraith Estate property recently purchased by TC. TC is a cooperater with the West O'ahu Soil and Water Conservation District on a parcel of land he is currently renting in the Mililani Agricultural Park. TC is a serious farmer and currently has a thriving turf grass production business. TC wants to apply his agricultural expertise to his new property. His most immediate agricultural water need is for a dry litter hog operation. Water use under such a system is minimal and requirements are detailed in the attached report from AgTech Pacific.

TC's efforts on his new property will contribute to the expansion of diversified agriculture on the island of O'ahu. The Galbraith Estate property, which consists of approximately 2,100 acres, abuts Lake Wilson on the North Shore side of the reservoir and extends toward the Dole Helemano plantation and Schofield Barracks and has been idle since Del Monte abandoned pineapple operation on the property in July 2004. It is now overgrown with guinea grass and various types of trees and shrubs. Considerable expense will be required to clean the land and prepare it for active agriculture. TC's effort will be the first of many as other farmers purchase lots and move onto the land.

TC's plan to start a livestock operation is urgently needed by the people of Hawaii to fulfill the goals of sustainability and self-sufficiency in agricultural production. The creation of a livestock venture is a bold move and helps fill a need for loss of such operations around the island of O'ahu and the rest of the state. This type of agricultural endeavor can only be realized on ground that is dedicated to farming through the commitment of the landowner. Many farmers on O'ahu face short-term leases or "licenses" to farm which range in length from 1 to 5 years. Often these arrangements have a 30-day "get out" clause should the landowner want to rent the property to more "lucrative" ventures. Because of such arrangements it is difficult to invest money in long-term capital improvements to agricultural land as a "lessee". Livestock operations require much planning and commitment to be profitable and are, therefore, not suitable for any sort of short-term (less than 5 years) venture.

In addition to the hog operation TC also wants to start and slowly expand to a 5 to 10 acre banana farm. The production of bananas, will not only include the fruit, but will also generate a
secondary by-product of the operation, banana stump. Banana stump is used in imu for cooking a local favorite, kalua pig. The commercial production of hogs and bananas is consistent with the demand for the two products in the Hawaiian culture and lifestyle.

Because of his extensive agricultural and business experience TC will have a good chance to successfully execute his agricultural plans on the new land. However, in order to ensure success he will need a source of potable water to manage the planned hog and banana operation. Additionally, drinking water is needed for workers who will be employed by him. This is exactly the kind of agricultural entrepreneurial effort needed to diversity the state's economy, produce food locally, and provide needed jobs for the nearby communities of Wahiawa, Whitmore Village, Waialua, and Haleiwa. A 1.5 inch water meter is needed to commence the planned operation. As the venture proceeds he will look for additional sources of water (wells or surface water sources) to fully develop his 68 acres. The approval and installation of a 1.5 inch meter should be adequate to address his most urgent needs. However, TC recognizes that this size of water meter may not be available under the existing Board of Water Supply infrastructure abutting his property in Whitmore Village. If, at a minimum, he can secure a 5/8 inch meter (standard household at an agricultural rate) this will permit him to start the ground work for his farm and he will continue searching for additional sources of agricultural water as he slowly builds his business.

As a Director and Treasurer for the Board of the West Oahu Soil and Water Conservation District I have come to know TC as an authentic, responsible, reliable, and dedicated farmer. He has a strong vision for agriculture in Hawaii and would very much like to move forward as quickly as possible to achieve that vision. Any assistance you can offer him in obtaining the needed water would be appreciated.

Please call me or e-mail if you would like to discuss this further.

Sincerely,

John J. McHugh, Jr. Ph.D.
Crop Care Hawaii, LLC

Copies to: D. McDonald
See Ba Thee
Initial plans for the approximate 68 acres recently purchased by Mr. See Ba Thee (TC) are to raise between 100 to 200 pigs. Additionally, should there be a sufficient source of water, plans are to develop approximately 5 to 10 acres of banana. A reliable water source to meet the peak water demands for this operation as well as for general water use will be required immediately while alternative water sources are investigated for future agricultural ventures on the remainder of the property.

**Water Requirements, pig operation**
TC plans to incorporate a dry litter technique for raising pigs requiring little to no water for wash down. Soiled litter will be removed and utilized for mulch and compost for crop cultivation as opposed to washing the waste down for storage in a lagoon. It has been reported that recommended flow rates for drinking water alone for mature sows are 2 liters per minute which translates into 50 to 100 gallons per minute (GPM) for this aspect of the operation.

**Water Requirements, banana cultivation**
Current plans are for 5 to 10 acres of banana. Historical weather data was taken from the Pineapple Research Institute in Wahiawa which would be the most representative data available. Based on this data a peak consumptive use estimate in NRCS format was established, refer to Attachment A. Based on this, data peak water demand would occur in June requiring 0.35 inches per day to meet banana irrigation demand. For a 5 to 10 acre plot operating on a 20 hour per day irrigation schedule a minimum flow of 40 to 80 GPM would be required. A summary of the water requirements is shown in the table below.

### PEAK WATER REQUIREMENTS FOR BANANA IN JUNE

**ASSUMES A 20 HOUR IRRIGATION DAY**

<table>
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<th>ACRES</th>
<th>GPD</th>
<th>GPM</th>
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<td>5</td>
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<td>79</td>
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<tr>
<td>20</td>
<td>190000</td>
<td>158</td>
</tr>
</tbody>
</table>

A 2" meter would be allow Mr. See Ba Thee to get started with his initial pig operation and cultivate some banana while he investigates future water sources. A 1 1/2" meter would allow him to start his pig operation but would limit his ability to cultivate any significant acreage of banana.
**ATTACHMENT A**

**SEE BA THEE**

**CONSUMPTIVE USE ESTIMATE - UPDATED** 02/02/2009

1 **LOCATION:**
   - CROP:
   - Whitmore
   - Banana

2 **PAN EVAPORATION**
   - STATION #:
   - 820.20
   - PEAK MONTH:
   - June
   - MEAN MONTHLY EVAPORATION:
   - 7.79 IN.
   - MEAN MONTHLY RAINFALL:
   - 1.1 IN.
   - MEAN MONTHLY NET EVAPORATION:
   - 6.69 IN. (A)

3 **PEAK MONTH CONSUPTIVE USE COEFFICIENT:**
   - 1.1 (B)

4 **PEAK MONTH CONSUPTIVE USE RATE:**
   - 7.36 IN. (C)

5 **NET IRRIGATION**
   - SOIL TYPE:
   - WaA
   - MOISTURE EXTRACTION DEPTH:
   - TOP 36 IN.
   - MOISTURE HOLDING CAPACITY:
   - TOP 1.4 IN/FT
   - MOISTURE EXTRACTION DEPTH:
   - MID 0.117 IN/IN X 36 IN. = 4.2 IN.
   - MOISTURE HOLDING CAPACITY:
   - MID
   - MOISTURE EXTRACTION DEPTH:
   - LOWER
   - MOISTURE HOLDING CAPACITY:
   - LOWER
   - MOISTURE EXTRACTION DEPTH:
   - LOWER
   - MOISTURE HOLDING CAPACITY:
   - LOWER
   - MOISTURE EXTRACTION DEPTH:
   - LOWER
   - MOISTURE HOLDING CAPACITY:
   - LOWER
   - TOTAL:
   - 4.2 IN. (D)

   - NET IRRIGATION:
   - 4.2 IN. (E)

6 **PEAK PERIOD DAILY AVERAGE CONSUMPTIVE USE RATE**
   - I = 2.10 IN.
   - Um = 7.359 IN
   - Up = 0.28 IN/DAY

7 **PEAK PERIOD IRRIGATION INTERVAL**
   - I/Up = 7.5 DAYS (I)

8 **PEAK PERIOD GROSS IRRIGATION**
   - IRRIGATION EFFICIENCY Ea = 80%
   - Up/Ea = 0.35 IN/DAY

02/21/2009 ZDATA-TRANSFER\TC\CONSUMPTIVE_USE_TC.123
March 9, 2009

Mr. John J. McHugh, Jr.
Crop Care Hawaii, LLC
2923A Ka‘amalio Drive
Honolulu, Hawaii 96822

Dear Mr. McHugh:

Subject: Your Letter of February 24, 2009 Requesting the Availability of Water to the Proposed Agricultural Development in Wahiawa, TMK: 7-1-001:005 & 027

Thank you for your letter requesting water service to the proposed pig operation and banana cultivation development near Whitmore Village.

Water service cannot be made available to the proposed pig operation and banana cultivation development. Development of the proposed parcel for agricultural use will adversely impact the fire flow to the existing Helemano Elementary School. The improvements necessary to accommodate the proposed agricultural development are quite extensive, and we do not have plans to construct them at this time. We recommend the developer install a private water source to serve the proposed development.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA
Program Administrator
Customer Care Division
TO

CWRM

P O BOX 621

HONOLULU, HI 96809

ATTENTION

RYAN IMATA

RE:

ALII TURF WELL NO. 3001-01

WE ARE SENDING YOU the following items:

- Attached
- Under separate cover via

- Shop drawings
- Prints
- Plans
- Samples
- Specifications
- Change order

<table>
<thead>
<tr>
<th>COPIES</th>
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<th>NO.</th>
<th>DESCRIPTION</th>
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<tr>
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<td>3/15/10</td>
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<td>PUMP INSTALLATION PERMIT</td>
</tr>
<tr>
<td>1</td>
<td>3/15/10</td>
<td></td>
<td>WELL CONSTRUCTION PERMIT</td>
</tr>
</tbody>
</table>

THESE ARE TRANSMITTED as checked below:

- For approval
- Approved as submitted
- Resubmit _____ copies for approval
- For your use
- Approved as noted
- Submit _____ copies for distribution
- As requested
- Returned for corrections
- Return _____ corrected prints
- For review and comment
- FOR BIDS DUE
- PRINTS RETURNED AFTER LOAN TO US

REMARKS

COPY TO 9423G / C FILE

SIGNED: 

WILLIAM GODWIN

VICE PRESIDENT
PUMP INSTALLATION PERMIT
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the site until the work is completed

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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: C-57, C-57a, or A License #: AC-21896 Date: 3-15-10
Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

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

Attachments
WELL CONSTRUCTION PERMIT
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the construction site until the work is completed.

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 construction and testing of Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of 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 authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlresources/permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of cumulative water rights.

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrmlresources/permits.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller’s Signature: 
C-57 License #: AC-21896
Date:

Printed Name: Bill Godwin
Firm or Title: Beylik Drilling and Pump Service

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

Attachment
FROM: Ryan

DATE: 8/26/10

SUSPENSE DATE: __________

TO: CHENG, C.  KIMURA, J.  Approval
    CHONG, R.  KUNIMURA, I.  Signature
    DANBARA, S.  OHYE, L.  Information
    FUJII, N.  OSHIRO, K.  __
    HARDY, R.  UYENO, D.  __
    HOAGBIN, S.  YODA, K.  __
    ICE, C.  YOSHINAGA, M.  __
    IMATA, R.  __

PLEASE: See Me
       Review & Comment
       Take Action
       Type Draft
       Type Final
       File
       Xerox ___ copies

new PIP for Alii Turf.

21 30 10.14
158 01 47.22
August 26, 2010

Mr. Dwight Ho
Water Resources International
1100 Alakea Street, Suite 2900
Honolulu, HI 96813

Dear Mr. Ho:

Pump Installation Permit
Alii Turf Well (Well No. 3001-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

**Special Conditions**

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Laura H. ThieLEN
Chairperson

Enclosure

c: Alii Turf Co., LLC (with applicable comments – DOH SDWB, WWB, CWB)
PUMP INSTALLATION PERM  
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the site until the work is completed

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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: August 9, 2010
Expiration Date: August 9, 2012

LAURA H. THIELEN, 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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: C-57, C-57a, or A License #: C-30442 Date: 
Printed Name: Dwight Ho Firm or Title: Water Resources International

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

Attachments
Good morning Dwight,
Yes, We can.
By way of this email we will transfer the Pump Installation Permit for Ali'i Turf to Water Resources International.
I'm currently on the Mainland and will return next week.
Ryan, please let me know if I need to come in to sign anything.
Mahalo,
Bill

----- Original Message ----- 
From: Dwight Ho <dwightho@wri.us.com>
To: Bill Godwin
Sent: Mon Aug 09 11:48:05 2010
Subject: FW: Alii Turf

Good morning Bill,

Can we please receive your approval to transfer the pump permit for Alii Turf to Water Resources?

We were the low bidder on the pump portion of this project and are getting ready to install.

Dwight Ho
(808) 722-0660

We sent the permit to Beylik because they signed the application. If you white-out and sign the application (I've attached it), as long as Beylik agrees to transfer the permit to you guys, I can issue it to Water Resources.

Ryan
Howzit Ryan,

Drilling for Alii Turf was completed by Beylik earlier this year. We’ve been awarded the pump installation.

Is there a pump installation permit for this project? Can I get a copy?

Dwight Ho
(808) 722-0660
March 10, 2010

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259-A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Pump Installation Permit
Alii Turf Well (Well No. 3001-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

Special Conditions

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]
LAURA H. THIELEN
Chairperson

Enclosure

c: Alii Turf Co., LLC (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Honolulu BWS
PUMP INSTALLATION PERMIT
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the site until the work is completed

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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: Bill Godwin
Printed Name: Bill Godwin
C-57, C-57a, or A License #: AC-21896
Firm or Title: Beylik Drilling and Pump Service

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

Attachments
March 10, 2010

Beylik Drilling and Pump Service
91-258-A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Well Construction Permit
Alii Turf Well (Well No. 3001-01)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for a permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 17:

Special Conditions

1. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one copy to the Commission office for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrmlforms.htm.

IMPORTANT - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Enclosures

C: Alii Turf Co., LLC (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Honolulu BWS
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 construction and testing of Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of 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 authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrml/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrml/resources_permits.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(0), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: ___________________________ C-57 License #: AC-21896 Date: ___________________________
Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

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

Attachment
Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. **Please respond by returning this cover memo form by December 18, 2009.** If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

**RESPONSE:**

[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

[ ] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________________

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments: Original source of private title was issued prior to stathood.

Contact Person: ___________ Phone: ________

Signed: ___________ Date: ___________
STATE OF HAWAIʻI  
DEPARTMENT OF HEALTH  

HAZARD EVALUATION AND EMERGENCY RESPONSE  
OFFICE  

DATE: 8 Dec. 2009  
NO. OF PAGES: 1+1  

TO: Ryan  

COMPANY: CWRM  

TELEPHONE:  
FAX: 587-0219  

FROM: Richard Palmer  

TELEPHONE: (808) 586-4249  
FAX: (808) 586-7537  

COMMENTS:  
OK  

...
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Tomas See, Chief, Wastewater Branch
              Stuart Yamada, Chief, Safe Drinking Water Branch
              Alec Wong, Chief, Clean Water Branch
              Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI: ss
Attachment(s)

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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 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 conduct 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 [be ] is not located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DOH rules/regulations, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: Richard Palmer
Phone: 586-0857
Signed: Richard Palmer
Date: 10/08/2009
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Thomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoaka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01)

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Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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 II, 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 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).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

Contact Person: Johnny Ong, Eng. on Oahu
586-4294

Signed: ______________________ Date: ________
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Tomas See, Chief, Wastewater Branch
          Stuart Yamada, Chief, Safe Drinking Water Branch
          Alec Wong, Chief, Clean Water Branch
          Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI: ss
Attachment(s)

RESPONSE: No

1. This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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.

2. 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 later planned use from this source increases to meet the public water system definition, then Director of Health approval is required prior to implementation.

3. If the well is used to supply both potable and non-potable purposes on a single system, the user shall eliminate cross-connections and backflow connections by physically separating possible and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable outlets with warning signs to prevent inadvertent consumption of non-potable water. Backflow preventer devices should be routinely inspected and tested.

4. It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

5. For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached)

6. An NPDES permit is required

7. Other relevant DOH rules/regulations, information, or recommendations are attached

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: Michael Miyahira
Phone: 587-4258

Signed: ________________________________
Date: 12/1/09
CWRM Application Source: Alii Turf Well
(Well No. 3001-01)
TMK: (1) 7-1-01: 06

Safe Drinking Water Branch (SDWB) - Engineering Section

1. This well **may** qualify as a source that serves a regulated public water system. Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.

   a. **All new** public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

   b. Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

   The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

   c. **All public water system sources** must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.
d. Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

e. All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled: Rules Pertaining to Certification of Public Water System Operators.

f. All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.
g. All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai‘i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

2. For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other regulated public water system programs, please contact the Safe Drinking Water Branch Engineering Section at 586-4258.

SDWB Underground Injection Control (UIC) Section

- In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well’s groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

- Well water quality should be initially and periodically tested for it’s acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well's recharge area may, over time, have an unacceptable effect on the well’s water quality. Well construction materials and related equipment could also affect water quality.
FROM: RYAN
TO: INIT.

CHING, F.
FUJI, N.
GOODING, K.
HARDY, R.
HOGABIN, S.
ICE, C.
IMATA, R.
KAWAHARA, K.

TO: KUNIMURA, I.
NAKIMURA, I.
OHYA, M.
SAKODA, E.
SWANSON, S.
UYENO, D.
YODA, K.
YOSHINAGA, M.

DATE: 22-Jul-09
SUSPENSE DATE: 29-Jul-09

WELL NUMBER 3001-01
WELL NAME Alii Turf
WUP Number Old= 7177/ New= 876

☐ WELL CONSTRUCTION
☐ PUMP INSTALLATION
☒ WUPA

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LETTER
2 PERMIT PROCESS TABLE
3 CWRM MAP
4 APPL. FORM (11 COPIES)
5 USGS MAPS (11 COPIES)
6 TAX MAPS (11 COPIES)
7 PARCEL OWNER VERIF.
8 CONTRACTOR VERIF.
9 ALL INFO FILLED IN
10 BACKGROUND CHECK
11 $25 FEE DEPOSIT SLIP
12 DHPC/CDUP/SMA pre-screen

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm., or INGRID'S SMA/CD MAP)
(LUC map printout http://luc.state.hi.us/luc_maps.htm., or INGRID'S SMA/CD MAP)

FOLDER:
☐ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

missing Table 13 (rec'd 10/13/09)
- lots of yellow for background wp check for contractor

Working on the WC/PI app.
This is the WUP for routing.

Susan - have Daci
Insert table 3 in the right place.
November 24, 2009

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Well Construction/Pump Installation Permit Application for Well No. 3001-01

We have received your Well Construction/Pump Installation permit application and filing fee for the Alii Turf Well (Well No. 3001-01). We are still working on outstanding issues, however, we will process your application for review.

Upon receipt of the required information we will accept your application as complete and you can then expect your application to be processed within ninety (90) days, though this review will reduce the approval time.

For your information, the attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, the permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Attachment

C: Alii Turf Co. LLC
November 24, 2009

TO: Honorable Chiyoume L. Fukino, M.D., Director
Department of Health
Attention: Tomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01)

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Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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 II, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

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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).

An NPDES permit is required.

Other relevant DOH rules/regulations, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: __________________ Phone: ________________

Signed: __________________ Date: ________________
November 24, 2009

TO: Morris Atta, Administrator
    Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Alii Turf Well (Well No. 3001-01) TMK 7-1-001:006

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

[ ] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ________________________

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments:

Contact Person: _______________________________ Phone: ________________

Signed: _______________________________ Date: ________________
November 24, 2009

TO: Dr. Puaalaokalani Aiu, Administrator
    Historic Preservation

FROM: Ken C. Kawahara, P.E., Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Alii Turf Well (Well No. 3001-01) TMK: 7-1-001-006

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.
[ ] We concur that the work described under this permit will not disturb historic sites.
[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for our concurrence:

Contact Person: ____________________________ Phone: ____________

Signed: ____________________________ Date: ____________
Mr. Wayne M. Hashiro, P.E.
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, HI 96843

Dear Mr. Hashiro:

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application. If you have any comments on this application, please submit them by December 18, 2009. If we do not receive comments we will assume you have no comments.

If you have any questions about this permit application, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]
LAURA H. THIELEN
Chairperson

RI:ss
Attachment
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**TOTAL:** $125.00

**REMARKS:**

LINE (1)  MED BEST Ke Kahua WCPA/PIPA
LINE (2)  MED BEST Ke Kahua WUPA
LINE (3)  Kaonoulu Well 1
LINE (4)  Alii Turf Well (WCPA and WUPA)
LINE (5)  
LINE (6)  
LINE (7)  
LINE (8)  
LINE (9)  
LINE (10) 


Mr. Ken Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809  

Dear Mr. Kawahara:  

Water Use and Well Construction/Pump Installation  
Permit Applications for Alii Turf Co., LLC on TMK 7-1-01:6  
in Wahiawa, Oahu  

On behalf of Mr. See Ba Thee of Alii Turf Co., LLC, I am pleased to submit the enclosed applications and filing fees for a new well on TMK 7-1-01:6 in Wahiawa, Oahu that would provide irrigation supply for turf grass, diversified crops, and livestock. Alii Turf Co., LLC presently operates a 30-acre turf farm on leased land in Mililani which has Waiahole Ditch water as its irrigation supply. Alii Turf recently purchased TMK 7-1-01:6 from the Galbraith Estate and will relocate its turf growing operation there and expand to include diversified crops and livestock.  

After acquisition of a couple of acres for the widening of Whitmore Avenue, Alii Turf will utilize approximately 55.6 of the remaining 69 acres of the site. The total requested amount of water is 115,200 GPD as a year-round average. The rates used to derive this amount are based on the applicant's experience farming in Mililani and elsewhere. His Mililani turf grass operation typically uses a little over 4,000 GPD/acre as a year-round average. This application has scaled it back to 3,600 GPD/acre for the 20 acres of turf grass, a small portion of which would be used for moisture control of the adjacent composting operation. Use rates for diversified crops for this application are based on 1,500 GPD/acre, significantly less than rates for the same crops elsewhere in Central Oahu.  

Irrigation supply would be provided by a new well that would be drilled in the southern corner of the property. It has been tentatively sized as 10-inch casing diameter to accommodate a 400 GPM pump for direct, well-to-irrigation system applications without reservoir storage. Supply alternatives to the new, onsite well are supply from the Board of Water Supply [BWS] and surface water from the Wahiawa Reservoir [Lake Wilson]. A written request for water from BWS was made on February 24, 2009. BWS responded in writing on March 9, 2009 that it could not provide the requested service (copies of both letters are attached).
Use of surface water from Lake Wilson was given some consideration, but it is not feasible for two reasons. First, the Alii Turf property does not abut the reservoir so it does not have rights to use the water. The intervening strip of land was previously owned by Castle & Cooke and is now owned by a private party (Mr. Howard Green). Second, recently adopted operating changes keep the reservoir level far lower than previously due to safety concerns. As a result, the reservoir/stream level near the Alii Turf site is extremely low and the water is turbid. This makes it an unreliable and undesirable source of supply. Substantial improvements would be required for an intake and pumping system that would be capable of dealing with the low operating level in the reservoir and also withstand flood flows during which the reservoir level can be 15 to 20 feet higher.

If you have any questions or need additional information, feel free to call me or Mr. See Ba Thee (known as "TC") at 293-8873. Thank you for your attention to this matter.

Sincerely,

Tom Nance

cc: See Ba Thee - Alii Turf Co., LLC
Bill Godwin - Beylik Drilling & Pump Service

Attachments
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT
7-8-09
09-169 (09-42)

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 921, Honolulu, Hawaii 96820. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-948-2225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

WELL LOCATION INFORMATION
1. STATE WELL No. (if already assigned) All 11th
2. ISLAND Oahu
3. TRK 6

The following must be attached before this application is accepted as complete:
• Portion of 7.5-Minute Series (USGS) topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
• Property tax map, showing well location referenced to established property boundaries
• Photograph of the proposed well site
• A schematic diagram showing the well site, access road and proposed well infrastructure
• A soil test report showing gravel, sand and silt contents for dug wells, attach a grading plan with cross section profiles showing existing and proposed grades

5. WELL OPERATOR'S NAME/COMPANY
All TUF CO., LLC
6. LANDOWNER'S NAME/COMPANY
See Operator's Contact Info
7. LEGAL STREET ADDRESS
All TUF CO., LLC

Well Operator's Contact Address
293-8873
Well Operator's E-mail
thees001@hawaii.rr.com

Landowner's Contact Address
Kahuku, Oahu, Hawaii 96731
Landowner's E-mail
thees001@hawaii.rr.com

PROPOSED WELL CONSTRUCTION
7. Proposed Work
• Construct New Well
• Modify Existing Well
• Abandon/Seal Well
8. Construction Type
Drilled
• Dug
Shallow
Tunnel
• Other (explain)

10. Proposed Work
• Install New Pump
• Replace Pump

11. Proposed Pumping Rate, gpm
400

12. Proposed Amount of Withdrawal, gpd (gallons per day)
115,200

13. Method of flow measurement
Emf calorimeter
Other (explain)

9. Is this well part of a battery of wells? Yes No

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)
Ryan M. Suzuki - License No. 10059

PROPOSED PUMP INSTALLATION
15. Propose a water use permit (if applicable)

16. Domestic Number of units to be served:

17. Industrial (describe)

18. Irrigation (describe crop and no. of acres) Turf grass and diversified agriculture on 55.6 acres.

19. Military (describe)

20. Other (describe)

OTHER LEGAL REQUIREMENTS
If required, items 21 and 22 must be obtained before the Commission can legally issue a permit:

21. Conservation District Use Permit (CUDP)
• Well is in Conservation District
• Required, CUDP # date approved
• Not Required (attach documentation from OCCJ)
I have not consulted with OCCJ about whether or not a CUDP is required. I understand that checking with OCCJ prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

22. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources
• I have consulted with the HPD regarding potential impacts of well construction activities on Historic sites. I have attached applicable documentation from the HPD.
• I have not consulted with the HPD regarding potential impacts of well construction activities on Historic sites. I understand that checking with the HPD prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 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 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

25. WELL DRILLER (Must be filled out if application is for Well Construction)
Beylik Drilling & Pump Service, Inc. AC-21896
91-259-A Olai Street / Kapolei, Hawaii 96707
682-5554 682-5866 godwin@beylik.com

26. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
Beylik Drilling & Pump Service, Inc. AC-21896
91-259-A Olai Street / Kapolei, Hawaii 96707
682-5554 682-5866 godwin@beylik.com

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

WCPF Application Form 05/20/2009
PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Elevation at top of casing: 922 ft., msl*

Minimum of 2’ Radius & 4” Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: 920 ft., msl*

Hole Diameter: 17 in.

Cement Grout: 540 ft.
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Solid Casing:
- Positive
- Other

Grouting method:
- Positive displacement
- Other

Annular space between hole and casing (1.5” for positive displacement, 3” for other methods):
- 3 in.

Rock or Gravel Packing:
- None
- Crushed Basalt
- Rounded Gravel

Total Depth:
- 920 ft.

Estimated Water Level Elevation:
- 270 ft., msl*

HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS

Solid Casing: (≥ 90% x (Ground Elevation - Water Level Elevation))
- Total Length: 820 ft.
- Nominal Diameter: 10 in.
- Wall Thickness: 0.3125 in.
- Bottom Elevation: 100 ft., msl*

Open Casing:
- Perforated
- Screen

- Total Length: 100 ft.
- Nominal Diameter: 10 in.
- Wall Thickness: 0.3125 in.
- Bottom Elevation: Nil ft., msl*

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

Open Hole:
- Length: Nil ft.
- Diameter: Nil in.
- Bottom Elevation: Nil ft., msl*

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components should be submitted in the Well Completion/Well Abandonment report and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = \left(\frac{\text{Ground Elevation} - \text{Water Level Elevation}}{4}\right)

Example: Estimated + 2 ft. Water Level Elev. \rightarrow Bottom Elevation of Well Limit = \left(\frac{\text{2 ft.}}{4}\right) = 0.5 ft.

Solid Casing Material:
- Carbon Steel: compliant with (check one or more):
  - ANSI/AWWA C200
  - AWWA C950
  - ASTM A53
  - ASTM A139
- Stainless Steel: compliant with (check one or more):
  - ASTM A409 (production wells)
  - ASTM A312 (monitor wells)

ABS Plastic compliant with ASTM F490 and ASTM D1527: (check one)
- Schedule 40
- Schedule 80

PVC Plastic compliant with ASTM F490 and ASTM D1785 or ASTM D2241: (check one)
- Schedule 40
- Schedule 80
- Schedule 120

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

Open Casing Material:
- Carbon Steel: compliant with (check one or more):
  - ANSI/AWWA C200
  - AWWA C950
  - ASTM A53
  - ASTM A139
- Stainless Steel: compliant with (check one or more):
  - ASTM A409 (production wells)
  - ASTM A312 (monitor wells)

ABS Plastic compliant with ASTM F490 and ASTM D1527: (check one)
- Schedule 40
- Schedule 80

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- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- PTFE Fluorocarbon Tubing conforming to ASTM D3296
- FEP Fluorocarbon Tubing conforming to ASTM D3296

WCPI Application Form 05/20/2009
Site of the Proposed Alii Turf Well in the South Corner of TMK 7-1-01:6
March 10, 2010

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

Notice of Commission Action
Water Use Permit 876

This letter serves as your official notice of action taken by the Commission on Water Resource Management (Commission) on the subject application. By a unanimous vote of the Commission at their meeting on February 17, 2010, the Commission approved your attached water use permit.

If you have any questions, please contact Ryan Imata of Commission Staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

Attachment
March 10, 2010

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

Approval of Water Use Permit (WUP No. 876) for Well No. 3001-01
Wahiawa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Alii Turf Well (Well No. 3001-01) for use of 0.115 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 February 17, 2010. 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.

3. The applicant shall obtain the necessary permits from the Department of Health or any other agencies, pertaining to the implementation of Best Management Practices to prevent runoff into adjacent streams.

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.
Mr. See Ba Thee  
Page 2  
March 10, 2010  

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 Wahiawa 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 Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]

LAURA H. THELEN  
Chairperson

Attachments: WUR Form
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. 876

PERMITTEE

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</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:
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 February 17, 2010 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 Wahiawa 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 Wahiawa 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 Wahiawa 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.
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REMARKS: LINE (1) Reimbursement for Public Notice cost for WUPA No. 876
LINE (2)
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# INVOICE

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**TOTAL AMOUNT DUE**

|$0.00|

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**PLEASE RETURN THIS PORTION WITH YOUR REMITTANCE**

**REMIT TO:**

Honolulu Star-Bulletin-MidWeek
Oahu Publications, Inc.
500 Ala Moana Blvd., Suite #7-500
Honolulu, HI 96813

**BILLED ACCOUNT NAME AND ADDRESS**

DLNR, COMM ON WATER RESOURCE MGMT
P.O. BOX 621
HONOLULU, HI 96809

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**PAGE NUMBER**

| 1 |

**BILLING DATE**

| 12/04/2009 |

**BILLED ACCT#**

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**ADVERTISER/CLIENT#**

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**TOTAL AMOUNT DUE**

|$0.00|

**AMOUNT REMITTED**

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I prefer to pay by: Visa MC AMEX DISC

Name on card:

Account #:

Exp Date:

Amount:

Signature:

Make checks payable to: Oahu Publications, INC.
STATE OF HAWAII
City and County of Honolulu

Doc. Date: DEC-4 2009 # Pages: 1
Notary Name: Patricia K. Reese
First Judicial Circuit

Doc. Description: Affidavit of Publication

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

Rose Mae Rosales

Subscribed to and sworn before me this 4th day of Dec. A.D. 2009

Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii

My commission expires: October 07, 2010

Ad # 0000162231
Transmitted for your review and comment is a copy of a water use permit application application, (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension to the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

(X) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Glenn Oyama

Signed: WAYNE M. HASHIRO, P.E.
Manager and Chief Engineer
PUBLIC NOTICE

Application for Water Use Permit
Wahiawa Ground Water Management Area, Oahu

The following application for water use permit has been received by the Commission on Water Resource Management and is hereby made public in accordance with Section 13-171, Hawaii Administrative Rules, "Designation and Regulation of Water Management Areas."

WUPA No. 876 Alii Turf Well (Well No. 3001-01)

Applicant: Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Landowner: Same
1001 Kamokila Boulevard
Kapolei, HI 96707

Date Application Filed as Complete: October 14, 2009
Hydrologic Unit: Aquifer Areas: Wahiawa System, Central Sector, Oahu
Water Source: Alii Turf Well (Well No. 3001-01) Oahu, Tax Map Key 7-1-001:006
Quantity Requested: 0.115 million gallons per day.
Existing/New Use: New, Irrigation, livestock and compost
Place of Water Use: Tax Map Key: 7-1-001:006

Written objections or comments on the above application 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 December 18, 2009. 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

KEN C. KAWAHARA, P.E., Deputy Director for
LAURA H. THIELEN, Chairperson

Dated: November 17, 2009

Publish in: Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009
November 24, 2009

TO: Morris Atta, Administrator  
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management

SUBJECT: Request for Comments  
Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) A water lease/permit is required of this applicant and an application for such will be requested by our division.

( ) A water lease/permit is not required of this applicant.

( ) A water lease/permit has been obtained by the applicant through lease no.

( ) Other relevant Land Division rules/regulations, information, or recommendations are attached.

( ) No objections

( ) Other comments:

Contact person: Gary Martin  
Phone: 587-0421

Signed: Gary Martin  
Date: DEC 10 AN 5-7

Printed Name: LAURA H. THEILEN  
Chairperson
Printed Name: WILLIAM D. BALFOUR, JR.  
Printed Name: SUMNER EROMAN  
Printed Name: NEAL S. FUJIWARA  
Printed Name: CHIYOME L. FUKINO, M.D.  
Printed Name: DONNA FAY K. KIYOSAKI, P.E.  
Printed Name: LAWRENCE H. MIKE, M.D., J.D.
Ms. Laura H. Thielen, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Thielen:

Subject: Water Use Permit Application (WUPA) No. 876, Alli Turf Company, LLC,
Well No. 3001-01, Wahiawa Ground Water Management Area, Oahu

We have reviewed the subject application and provide the following comments:

1. Well No. 3001-01 is located on TMK 7-1-001:006. The total quantity of ground water requested from the Wahiawa Ground Water Management Area is 115,200 gallons per day. The current zoning for this parcel is AG-1 Restricted Agricultural District. It is our understanding that the proposed use of water will be for various crops and livestock operation on this parcel and a nearby parcel (TMK 7-1-001:005) that is also zoned AG-1. Crop production and livestock production are consistent with the AG-1 zoning district (Master Use Table No. 21-3 of the Land Use Ordinance, Chapter 21 of the Revised Ordinances of Honolulu).

2. The proposed use of water is also consistent with the vision of the Central Oahu Sustainable Communities Plan. Parcels 5 and 6 are located within the Agriculture and Preservation areas north of Wahiawa. This area is considered to be high value lands, which are among the best in the State. Providing water for crop production and livestock production will help to retain these agricultural lands.

3. The above-referenced TMKs are not located within the Special Management Area (SMA) and are not subject to the SMA requirements of Chapter 25, Revised Ordinances of Honolulu.

4. Please consult directly with the Board of Water Supply for their comments.

Should you have any questions, please call Matt Higashida of our staff at 768-8045.

Very truly yours,

[Signature]
David K. Tanouye, Director
Department of Planning and Permitting

cc: Glenn Oyama, Board of Water Supply
TO: Honorable Kaulana H. Park, Chairperson
Department of Hawaiian Home Lands

Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attn: Mr. Tomas See, Chief, Wastewater Branch
Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch

Mr. Clyde W. Namu‘o, Administrator
Office of Hawaiian Affairs

Mr. Wayne M. Hashirò, P.E., Manager and Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Glenn Oyama
Attn: Mr. Barry Usugawa

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

We have no objections or comments

( ) Objections attached
( ) Only comments attached

Contact person: Johnny Ong, Eng. on Oahu 586-4294

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

FROM: Ken C. Kawahara, P.E., Deputy Director
      Commission on Water Resource Management

SUBJECT: Request for Comments
         Water Use Permit Application
         Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Daniel S. Aurin

Signed: [Signature]

Date: 11/30/09
MEMORANDUM

TO: Ken C. Kawahara, Deputy Director
   Commission on Water Resource Management

FROM: Nancy A. McMahon, Deputy Administrator
      and Deputy State Historic Preservation Officer
      State Historic Preservation Division

Subject: Chapter 6E-42 Historic Preservation Review—
         Water Use Permit (WUPA #876) Alii Turf Co LLC Well #3001-01 Wahiawa
         Ground Water Management Area
         Wahiawa, Waialua, O'ahu Island, Hawai'i
         TMK: (1) 7-1-001: 006

Thank you for the opportunity to review this permit. The project is for a new well for irrigation, livestock, and compost.

We determine that no historic properties will be affected by this project because:

☒ Intensive cultivation has altered the land
☒ Residential development/urbanization has altered the land
☒ Previous grubbing/grading has altered the land
☒ An accepted archaeological inventory survey (AIS) found no historic properties
☒ SHPD previously reviewed this project and mitigation has been completed
☐ Other:

Please call me at (808) 692-8015 if you have any questions or concerns regarding this letter.
December 21, 2009

Ryan Imata
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawai‘i 96809

RE: Request for comments on the proposed water use permit application (WUPA), Wahiawa, O‘ahu, TMK: 7-1-01:016.

Aloha e Ryan Imata,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter MA-3512. OHA has reviewed the project and offers the following comments.

OHA appreciates that the applicant intents to begin a hog operation and banana patch in the area; however we see that 3,750 gallons of water per day are to be used for an anticipated use (WUPA, page two) and not an existing use. Of additional note is the overall water requirements estimate for mature sows at two liters per minute, which the applicant translates into 50 to 100 gallons per minute for 100 to 200 pigs. OHA points out that this estimate is vague in terms of total numbers of animals (100 ranging to 200) and that the sows won’t be drinking two liters per minute 24 hours per day. We ask the Commission on Water Resource staff to lend their expertise to these numbers and for the applicant to clarify.

Thank you for the opportunity to comment. If you have further questions, please contact Grant Arnold by phone at (808) 594-0263 or e-mail him at granta@oha.org.

‘O wau iho nō me ka ‘oia‘i‘o,

[Signature]

Clyde W. Nāmu‘o
Administrator
November 24, 2009

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) We have no objections or comments
( X) Objections attached
( ) Only comments attached

Contact person: Glenn Higashi
Phone: 587-0112
Date: 14 Dec 09
MEMORANDUM

TO: Dan A. Polhemus, Administrator
FROM: Glenn R. Higashi, Aquatic Biologist
SUBJECT: Comments on Water Use Permit Application (WUPA No. 876)

Comments Ken C. Kawahara
Requested By: Commission on Water Resource Management
Date of Request: 11/24/09 Date Received: 11/24/09

Summary of Project

Title: Water Use Permit Application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01.

Project By: Alii Turf Co., LLC
Kahuku, HI 96731

Location: Wahiawa System, Central Sector, Oahu TMK: 7-1-001:006

Brief Description:

The applicant, Alii Turf Co., LLC proposes to withdraw 115,200 gallons per day (averaged over 1 year) of ground water from Well No. 3001-01 in Wahiawa, Oahu, Tax Map Key 6-4-03:001. This application is to accommodate new irrigation water requirements for the proposed agricultural development of 58.3 acres of land for crops, mixed livestock and compost.

Comments:

The Division of Aquatic Resources (DAR) has some concerns to this request since the proposed project may have impacts on aquatic resource values in the area. Since this application is for a proposed new well a pump test should be performed on this well to determine if there are any impacts on any streams or aquatic resources in this area that will be affected by this proposed activity.

The proposed agricultural development is also adjacent to the north fork of the Kaukonahua Stream which is part of the Wahiawa Public Fishing Area. Best Management Practices (BMPs) should be incorporated to prevent runoff of sediments, feces, etc. from the adjacent agricultural development parcels-fruit tree and mixed livestock into the stream environment.
TO: Honorable Kaulana H. Park, Chairperson
   Department of Hawaiian Home Lands
   
   Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attn: Mr. Tomas See, Chief, Wastewater Branch
   Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch
   
   Mr. Clyde W. Namu'o, Administrator
   Office of Hawaiian Affairs
   
   Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
   Honolulu Board of Water Supply
   Attn: Mr. Glenn Oyama
   Attn: Mr. Barry Usugawa

FROM: Laura H. Thielen, Chairperson
   Commission on Water Resource Management

SUBJECT: Water Use Permit Application
   Wahiawa Ground Water Management Area, Oahu

November 24, 2009

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RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: Michael Muraoka
Phone: 586-4750

Signed: Date: 12/1/09
CWRM Application Source:  Alli Turf Well  
(Well No. 3001-01)  
TMK: (1) 7-1-01: 06  

Safe Drinking Water Branch (SDWB) - Engineering Section

1. This well may qualify as a source that serves a regulated public water system. Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.

   a. All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

   b. Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

   c. All public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.
d. Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

e. All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.

f. All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.
g. All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai‘i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

2. For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other regulated public water system programs, please contact the Safe Drinking Water Branch Engineering Section at 586-4258.

SDWB Underground Injection Control (UIC) Section

- In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well’s groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

- Well water quality should be initially and periodically tested for its acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well’s recharge area may, over time, have an unacceptable effect on the well’s water quality. Well construction materials and related equipment could also affect water quality.
<table>
<thead>
<tr>
<th>START</th>
<th>STOP</th>
<th>NEWSPAPER REFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT</th>
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<td>State Sales Tax</td>
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**TOTAL AMOUNT DUE**

$0.00

Payment is due upon receipt. Accounts over 30 days will be assessed a finance charge of 1 1/2% per month (18% APR).

---

**REMIT TO:**
Honolulu Star-Bulletin-MidWeek
Oahu Publications, Inc.
500 Ala Moana Blvd., Suite #7-500
Honolulu, HI 96813

**BILLED ACCOUNT NAME AND ADDRESS**
DLNR, COMM ON WATER RESOURCE MGMT
P.O. BOX 621
HONOLULU, HI 96809

---

I prefer to pay by: Visa MC AMEX DISC
Name on card: ________________________________
Account #: ________________________________
Exp Date: ________________________________
Amount: ________________________________
Signature: ________________________________

Make checks payable to: Oahu Publications, INC.
IN THE MATTER OF
Public Notice

STATE OF HAWAII
City and County of Honolulu

Doc. Date: DEC - 4 2009  # Pages: 1
Notary Name: Patricia K. Reese  First Judicial Circuit
Doc. Description: Affidavit of Publication

Rose Mae Rosales being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of MidWeek Printing, Inc. publisher of MidWeek and the Honolulu Star-Bulletin, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the aforementioned newspapers as follows:

Honolulu Star-Bulletin 2 times on:
11/27, 12/04/2009

Midweek Wed. 0 times on:

Midweek Fri. 0 times on:

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

Subscribed to and sworn before me this 4th day of Dec., A.D. 2009

Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii
My commission expires: October 07, 2010

Ad # 0000162231 LN: _
<table>
<thead>
<tr>
<th>FROM: ROY</th>
<th>DATE: 11/14</th>
<th>SUSPENSE DATE:</th>
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<td>INIT.</td>
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<td>YOSHINAGA, M.</td>
</tr>
</tbody>
</table>

"Copy done complete?"
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** RYAN  
**DATE:** 22-Jul-09  
**TO:** INIT. CHING, F.  
**DATE:** 29-Jul-09  
**TO:** INIT. FUJII, N.  
**TO:** INIT. GOODING, K.  
**TO:** INIT. HARDY, R.  
**TO:** INIT. HIGA, D.  
**TO:** INIT. HOAGBIN, S.  
**TO:** INIT. ICE, C.  
**TO:** INIT. IMATA, R.  
**TO:** INIT. KAWAHARA, K.

**PLEASE:**
- 1 Approval
- 2 Review & Comment
- 3 Signature
- 4 Information
- 5 Take Action
- Type Draft acknow letter
- Type Final, label file folder, update People.db
- Xerox copies

**WELL NUMBER:** 3001-01  
**WELL NAME:** Alli Turf  
**WUP Number:** Old= 7177/New= 876

**ATTACHMENTS FOR APPLICATION PROCESSING**
- 1 TRANS. LETTER
- 2 PERMIT PROCESS TABLE
- 3 CWRM MAP
- 4 APPL. FORM (11 COPIES)
- 5 USGS MAPS (11 COPIES)
- 6 TAX MAPS (11 COPIES)
- 7 PARCEL OWNER VERIF.
- 8 CONTRACTOR VERIF.
- 9 ALL INFO FILLED IN
- 10 BACKGROUND CHECK
- 11 $25 FEE DEPOSIT SLIP
- 12 DHP/CDU/SMA pre-screen

**FOLDER:**
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

**DATE**  
**ACTION**

- missing Table 13 (rec'd 10/13/09)
- Copy of yellow for background info check for contractor
November 24, 2009

Mr. See Ba Thee
Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

Dear Mr. Thee:

We acknowledge receipt, on October 14, 2009, of your completed water use permit application (WUPA No. 876) for the Alii Turf Well (Well No. 3001-01). 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 Star Bulletin issues of November 27, 2009 and December 4, 2009. You will be required to pay for the cost of the public notice, which runs about $400. We will send you an invoice shortly after your notice is published.

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 Ryan Imata at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Enclosure
November 24, 2009

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

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management

SUBJECT: Request for Comments  
Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections.** If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss  
Attachment(s)

Response:

( ) We have no objections or comments  
( ) Objections attached  
( ) Only comments attached

Contact person: ___________________________  
Phone: ___________________________

Signed: ___________________________  
Date: ___________________________
TO: Morris Atta, Administrator  
Land Division  

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management  

SUBJECT: Request for Comments  
Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

Response:

( ) A water lease/permit is required of this applicant and an application for such will be requested by our division.
( ) A water lease/permit is not required of this applicant.
( ) A water lease/permit has been obtained by the applicant through lease no.
( ) Other relevant Land Division rules/regulations, information, or recommendations are attached.
( ) No objections
( ) Other comments:

Contact person: Phone: 

Signed: Date: 

[Signature]

[Signature]
TO: Honorable Kaulana H. Park, Chairperson
Department of Hawaiian Home Lands

Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attn: Mr. Tomas See, Chief, Wastewater Branch
Attn: Mr. Stuart Yamada, Chief, Safe Drinking Water Branch

Mr. Clyde W. Namu'o, Administrator
Office of Hawaiian Affairs

Mr. Wayne M. Hashiro, P.E., Manager and Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Glenn Oyama
Attn: Mr. Barry Usugawa

FROM: Laura H. Thieilen, Chairperson
Commission on Water Resource Management

SUBJECT: Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

November 24, 2009

Transmitted for your review and comment is a copy of a water use permit application application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI: ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
November 24, 2009

TO:     Mr. Dan Davidson, Executive Officer
        Land Use Commission

FROM:   Laura H. Thielen, Chairperson
        Commission on Water Resource Management

SUBJECT: WATER USE PERMIT APPLICATION
         Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

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 project.

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 December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
TO: Mr. David Tanoue, Director  
Department of Planning and Permitting  
City and County of Honolulu

FROM: Laura H. Thielen, Chairperson  
Commission on Water Resource Management

SUBJECT: WATER USE PERMIT APPLICATION  
Wahiawa Ground Water Management Area, Oahu

For your review and record, we are forwarding a copy of the application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01, for confirmation of the zoning designation for the proposed uses on the attached application, confirmation of the consistency of the proposed projects with the current zoning designation, and any special management area issues. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009. Please respond by returning this cover memo form by December 18, 2009, which is the legal deadline for objections. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

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

( ) This well project ( ) requires ( ) does not require a SMA. If a SMA is required it ( ) has ( ) has not been approved and ( ) is ( ) is not currently active.

( ) Comments attached

Contact person: _____________________________ Phone: _______________

Signed: ___________________________________ Date: ___________________
November 24, 2009

Honorable Mufi Hannemann, Mayor
City & County of Honolulu
City Hall
Honolulu, HI 96813

Dear Mayor Hannemann:

Notice of an Application for Water Use Permit
Wahiawa 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 (WUPA No.876) for Alii Turf Co., LLC for Well No. 3001-01, 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."

In accordance with the procedure that has been established between our staff and the City’s Department of Planning and Permitting (DPP), we have sent copies of the application to DPP and the Board of Water Supply for their review and comments. We look forward to receiving the City’s review comments from DPP and BWS within the next sixty (60) days, on whether this water use is consistent with the City’s plans, policies, land use designations and zoning.

Sincerely,

Laura H. Thielen
Chairperson

RI:ss
Enclosures
TO: Other Interested Parties

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Request for Comments
Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

November 24, 2009

In addition to serving you notice as required by 174C-52 (a), Hawaii Revised Statutes, we transmit for your review and comment a copy of a water use permit application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01. Public notice of this application will be published in the Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009.

We would appreciate your review of the attached application for any conflicts or inconsistencies 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, Hawaii Administrative Rules and must be filed by the December 18, 2009 deadline. If we do not receive your comments by this date, we will assume you have no objections to this application.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) We have no objections or comments
( ) Objections attached
( ) Only comments attached

Contact person: ___________________________ Phone: ___________________

Signed: ___________________________ Date: ____________
PUBLIC NOTICE

Application for Water Use Permit
Wahiawa Ground Water Management Area, Oahu

The following application for water use permit has been received by the Commission on Water Resource Management and is hereby made public in accordance with Section 13-171, Hawaii Administrative Rules, "Designation and Regulation of Water Management Areas."

WUPA No. 876  Alii Turf Well (Well No. 3001-01)

Applicant:  Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI  96731

Landowner:  Same
1001 Kamokila Boulevard
Kapolei, HI  96707

Date Application Filed as Complete:  October 14, 2009
Hydrologic Unit:  Aquifer Areas:  Wahiawa System, Central Sector, Oahu
Water Source:  Alii Turf Well (Well No. 3001-01) Oahu, Tax Map Key 7-1-001:006
Quantity Requested:  0.115 million gallons per day.
Existing/New Use:  New, Irrigation, livestock and compost
Place of Water Use:  Tax Map Key:  7-1-001:006

Written objections or comments on the above application 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 December 18, 2009. 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

KEN C. KAWAHARA, P.E., Deputy Director for
LAURA H. THIELEN, Chairperson

Dated:  November 17, 2009

Publish in:  Honolulu Star Bulletin issues of November 27, 2009 and December 4, 2009
Mr. Ken Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809

Dear Mr. Kawahara:

Water Use Permit Application  
From the Wahiawa Aquifer System  
For Alii Turf Co., LLC on TMK 7-1-01:6  
in Wahiawa, Oahu

Attached is Table 3 of the Water Use Permit application originally submitted on behalf of Alii Turf Co., LLC in July 2009. The information it contains, although not in the form of Table 3, was submitted in the original application and attachments and in the supplemental information submitted by letter dated September 11, 2009.

I believe the application to be complete and would appreciate its expedited processing.

Sincerely,

Tom Nance

cc: See Ba Thee - Alii Turf Co., LLC  [Email Only]

Attachment
### 13. TABLE 3: ALTERNATIVES ANALYSIS

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<tr>
<th>Municipal sources</th>
<th>A. Analysis of potable alternatives</th>
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<td>As indicated in its March 9, 2009 letter, BWS can not supply the needed water from its potable system.</td>
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</tbody>
</table>

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<tr>
<th>Wastewater reuse</th>
<th>B. Analysis of non-potable alternatives</th>
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<td>There are no municipal non-potable sources in the region.</td>
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<th>Desalinization</th>
<th>Desalinization</th>
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<td>Not applicable in this area. The only potential feedwater source is onsite groundwater. It is of potable quality and not in need of desalinization.</td>
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<tr>
<th>Surface water</th>
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<th>Conservation Measures</th>
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<td>Water use will be limited to actual plant ET requirements.</td>
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<th>Other (specify)</th>
<th>Other (specify)</th>
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<tr>
<td>None</td>
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### 14. PUBLIC INTEREST

§174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and preservation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

### 15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

### 16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

### 17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- PUC-Regulated Private System
- Non-PUC-Regulated Private System
- Not a Public Water System
- Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR GROUND WATER USE PERMIT FOR
PROPOSED NEW USE IN A DESIGNATED GROUND WATER
MANAGEMENT AREA

FORM GWUPA-N

1. APPLICANT'S INFORMATION
Name/Company: Alii Turf Co., LLC
Contact Person: See Ba Thee
Mailing Address: P. O. Box 689
Kahuku, Oahu, Hawaii 96731
Phone: 293-8873
Fax: 293-1962
E-mail: thees001@hawaii.rr.com

2. SOURCE LANDOWNER’S INFORMATION
Name/Company: Alii Turf Co., LLC
Contact Person: See Ba Thee
Mailing Address: P. O. Box 689
Kahuku, Oahu, Hawaii 96731
Phone: 293-8873
Fax: 293-1962
E-mail: thees001@hawaii.rr.com

3. ISLAND
Oahu

4. GROUND WATER MANAGEMENT AREA
Wahiawa

4A. SUSTAINABLE YIELD FOR ITEM 4
23 MGD

5. SOURCE INFORMATION
Attach additional sheets, if necessary.

<table>
<thead>
<tr>
<th>Well Number (if known)</th>
<th>Well Name</th>
<th>Existing or Proposed?</th>
<th>TMK</th>
<th>Flowmeter installed?</th>
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<td>Alii Turf</td>
<td>Proposed</td>
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<td>Yes, date installed</td>
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</tr>
</tbody>
</table>

6. TOTAL QUANTITY OF WATER REQUESTED: In the space below, enter total from Box M in Item 11 (Table 1) of this application.
gallons per day, averaged over 1 year: 115,200 GPD

7. PROPOSED USE(S):
- Agriculture
- Domestic
- Industrial
- Check all that apply.
- Municipal
- Irrigation
- Military
- No

8. LOCATION OF PROPOSED WATER USE(S): Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps. See Item 11 (Table 1, column B) of this application. Attached

Note 2: Signing below indicates that the signatories understand and affirm that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that: (1) if necessary, further information may be required before the application is considered complete; (2) if a water use permit is granted by the Commission, this permit is subject to any existing legal uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses; and (3) the applicant is responsible for paying the public notice fees associated with this application. Additionally, as stated in Note 1, above, HRS § 174C-51(1) the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.

9. APPLICANT

Signature: See Ba Thee
Date: 7-8-09

10. SOURCE LANDOWNER/Joint Applicant (if applicable)

Signature: See Ba Thee
Date: 7-8-09

FORM GWUPA-N (April 28, 2009)
11. TABLE 1: LAND USE CONSISTENCY / EFFICIENCY OF USE

<table>
<thead>
<tr>
<th>LAND USE CONSISTENCY</th>
<th>PURPOSE / WATER USE CATEGORY (See the instructions for water use category guidelines.)</th>
<th>TIME FOR PROPOSED LOCATION OF USE</th>
<th>ATTACH THE FOLLOWING:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Property line map, showing proposed location of use near water source(s) and proof of location of proposed use.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Photograph of the area is proposed use.</td>
<td></td>
</tr>
</tbody>
</table>

**PROPOSED NEW USE OR MODIFIED USE INFORMATION**

**NEW USE OR MODIFIED USE INFORMATION**

<table>
<thead>
<tr>
<th>LAND USE CONSISTENCY</th>
<th>STATE LAND DISTRICT</th>
<th>COUNTY CODE</th>
<th>UNITS OR NET ACREAGE</th>
<th>QUANTITY OF USE (GPD)</th>
<th>JUSTIFICATION FOR QUANTITY OF WATER REQUESTED (If applicable, attach additional sheets showing how the quantity was calculated.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

**USES THAT REQUIRE POTABLE (DRINKING) WATER**

<table>
<thead>
<tr>
<th>USES THAT REQUIRE POTABLE (DRINKING) WATER</th>
<th>QUANTITY OF USE (GPD)</th>
<th>JUSTIFICATION FOR QUANTITY OF WATER REQUESTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**USES THAT DO NOT REQUIRE POTABLE WATER**

<table>
<thead>
<tr>
<th>USES THAT DO NOT REQUIRE POTABLE WATER</th>
<th>QUANTITY OF USE (GPD)</th>
<th>JUSTIFICATION FOR QUANTITY OF WATER REQUESTED</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

**TOTAL QUANTITY OF WATER REQUESTED**

<table>
<thead>
<tr>
<th>TOTAL QUANTITY OF WATER REQUESTED</th>
<th>GPD</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>115,200 GPD</td>
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</tbody>
</table>

Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Ref. HRS § 74C-1.
### PROPOSED NEW USE OR MODIFIED USE INFORMATION (continued)

12. TABLE 2: IRRIGATION INFORMATION

List all crops that will be grown, including landscape and golf course irrigation uses. Copy Table 2 and attach additional sheets to complete your list, if necessary.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRP</td>
<td>TOTAL ACREAGE</td>
<td>NET IRRIGATED ACREAGE</td>
<td>BEGIN GROWTH PERIOD (month)</td>
<td>END GROWTH PERIOD (month)</td>
<td>IRRIGATION SYSTEM (refer to instructions)</td>
<td>IRRIGATION PRACTICE</td>
<td>COMMENTS (continue comments below, if more space is needed)</td>
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<tr>
<td></td>
<td></td>
<td>ACREAGE</td>
<td>ACREAGE</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Turf Grass</td>
<td>71</td>
<td>20.1</td>
<td>January</td>
<td>December</td>
<td>Multiple Sprinklers</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Banana and Papaya</td>
<td>71</td>
<td>10.5</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Vegetable Crops</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Fruit Trees</td>
<td>71</td>
<td>4.8</td>
<td>January</td>
<td>December</td>
<td>Drip</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Nursery Plants</td>
<td>71</td>
<td>3.5</td>
<td>January</td>
<td>December</td>
<td>Drip and Spray</td>
<td>Apply a fixed depth per irrigation.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Pigs, Chickens, and Ducks</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
<td>Other</td>
<td>Animal consumption and washing the area.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Compost</td>
<td>71</td>
<td>1.8</td>
<td>January</td>
<td>December</td>
<td>Spray</td>
<td>Other</td>
<td>Moisture control to avoid fire hazard.</td>
</tr>
</tbody>
</table>

Comments (continued from Column I). Please clearly indicate the crop (i.e., *Acreage 55.7 don't add up*).
Site of the Proposed Alii Turf Well in the South Corner of Tract 7-1-01:6
February 24, 2009

Mr. Clifford P. Lum  
Manager and Chief Engineer  
Board of Water Supply  
630 S. Beretania St.  
Honolulu, Hawai'i 96843

Dear Mr. Lum,

I am working on behalf of Mr. See Ba Thee (TC) to secure a source of agricultural water for a parcel of agricultural land he has purchased in Wahiawa. The TMK Nos. for the property are (1) 7-1-001-005 & 27 and are a part of the Galbraith Estate property recently purchased by TC. TC is a cooperator with the West O'ahu Soil and Water Conservation District on a parcel of land he is currently renting in the Mililani Agricultural Park. TC is a serious farmer and currently has a thriving turf grass production business. TC wants to apply his agricultural expertise to his new property. His most immediate agricultural water need is for a dry litter hog operation. Water use under such a system is minimal and requirements are detailed in the attached report from AgTech Pacific.

TC's efforts on his new property will contribute to the expansion of diversified agriculture on the island of O'ahu. The Galbraith Estate property, which consists of approximately 2,100 acres, abuts Lake Wilson on the North Shore side of the reservoir and extends toward the Dole Helemano plantation and Schofield Barracks and has been idle since Del Monte abandoned pineapple operation on the property in July 2004. It is now overgrown with guinea grass and various types of trees and shrubs. Considerable expense will be required to clean the land and prepare it for active agriculture. TC's effort will be the first of many as other farmers purchase lots and move onto the land.

TC's plan to start a livestock operation is urgently needed by the people of Hawaii to fulfill the goals of sustainability and self-sufficiency in agricultural production. The creation of a livestock venture is a bold move and helps fill a need for loss of such operations around the island of O'ahu and the rest of the state. This type of agricultural endeavor can only be realized on ground that is dedicated to farming through the commitment of the landowner. Many farmers on O'ahu face short-term leases or "licenses" to farm which range in length from 1 to 5 years. Often these arrangements have a 30-day "get out" clause should the landowner want to rent the property to more "lucrative" ventures. Because of such arrangements it is difficult to invest money in long-term capital improvements to agricultural land as a "lessee". Livestock operations require much planning and commitment to be profitable and are, therefore, not suitable for any sort of short-term (less than 5 years) venture.

In addition to the hog operation TC also wants to start and slowly expand to a 5 to 10 acre banana farm. The production of bananas, will not only include the fruit, but will also generate a
secondary by-product of the operation, banana stump. Banana stump is used in imu for cooking a local favorite, kalua pig. The commercial production of hogs and bananas is consistent with the demand for the two products in the Hawaiian culture and lifestyle.

Because of his extensive agricultural and business experience TC will have a good chance to successfully execute his agricultural plans on the new land. However, in order to ensure success he will need a source of potable water to manage the planned hog and banana operation. Additionally, drinking water is needed for workers who will be employed by him. This is exactly the kind of agricultural entrepreneurial effort needed to diversity the state’s economy, produce food locally, and provide needed jobs for the nearby communities of Wahiawa, Whitmore Village, Waialua, and Haleiwa. A 1.5 inch water meter is needed to commence the planned operation. As the venture proceeds he will look for additional sources of water (wells or surface water sources) to fully develop his 68 acres. The approval and installation of a 1.5 inch meter should be adequate to address his most urgent needs. However, TC recognizes that this size of water meter may not be available under the existing Board of Water Supply infrastructure abutting his property in Whitmore Village. If, at a minimum, he can secure a 5/8 inch meter (standard household at an agricultural rate) this will permit him to start the ground work for his farm and he will continue searching for additional sources of agricultural water as he slowly builds his business.

As a Director and Treasurer for the Board of the West Oahu Soil and Water Conservation District I have come to know TC as an authentic, responsible, reliable, and dedicated farmer. He has a strong vision for agriculture in Hawaii and would very much like to move forward as quickly as possible to achieve that vision. Any assistance you can offer him in obtaining the needed water would be appreciated.

Please call me or e-mail if you would like to discuss this further.

Sincerely,

John J. McHugh, Jr. Ph.D.
Crop Care Hawaii, LLC

Copies to: D. McDonald
See Ba Thee
Initial plans for the approximate 68 acres recently purchased by Mr. See Ba Thee (TC) are to raise between 100 to 200 pigs. Additionally, should there be a sufficient source of water, plans are to develop approximately 5 to 10 acres of banana. A reliable water source to meet the peak water demands for this operation as well as for general water use will be required immediately while alternative water sources are investigated for future agricultural ventures on the remainder of the property.

**Water Requirements, pig operation**
TC plans to incorporate a dry litter technique for raising pigs requiring little to no water for wash down. Soiled litter will be removed and utilized for mulch and compost for crop cultivation as opposed to washing the waste down for storage in a lagoon. It has been reported that recommended flow rates for drinking water alone for mature sows are 2 liters per minute which translates into 50 to 100 gallons per minute (GPM) for this aspect of the operation.

**Water Requirements, banana cultivation**
Current plans are for 5 to 10 acres of banana. Historical weather data was taken from the Pineapple Research Institute in Wahiawa which would be the most representative data available. Based on this data a peak consumptive use estimate in NRCS format was established, refer to Attachment A. Based on this, data peak water demand would occur in June requiring 0.35 inches per day to meet banana irrigation demand. For a 5 to 10 acre plot operating on a 20 hour per day irrigation schedule a minimum flow of 40 to 80 GPM would be required. A summary of the water requirements is shown in the table below.

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<tr>
<th>ACRES</th>
<th>GPD</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
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<td>79</td>
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<tr>
<td>20</td>
<td>190000</td>
<td>158</td>
</tr>
</tbody>
</table>

A 2" meter would be allow Mr. See Ba Thee to get started with his initial pig operation and cultivate some banana while he investigates future water sources. A 1 1/2" meter would allow him to start his pig operation but would limit his ability to cultivate any significant acreage of banana.
### ATTACHMENT A

#### SEE BA THEE
**CONSUMPTIVE USE ESTIMATE - UPDATED** 02/02/2009

1. **LOCATION:** Whitmore
   **CROP:** Banana

2. **PAN EVAPORATION**
   **STATION #:** 820.20
   **PEAK MONTH:** June
   **MEAN MONTHLY EVAPORATION:** 7.79 IN.
   **MEAN MONTHLY RAINFALL:** 1.1 IN.
   **MEAN MONTHLY NET EVAPORATION:** 6.69 IN. (A)

3. **PEAK MONTH CONSUPTIVE USE COEFFICIENT:** 1.1 (B)

4. **PEAK MONTH CONSUPTIVE USE RATE:** 7.36 IN. (C)

5. **NET IRRIGATION**
   **SOIL TYPE:** WAA
   **MOISTURE EXTRACTION DEPTH:** TOP 36 IN.
   **MOISTURE HOLDING CAPACITY:** TOP 1.4 IN/FT
   **MOISTURE EXTRACTION DEPTH:** MID
   **MOISTURE HOLDING CAPACITY:** MID
   **MOISTURE EXTRACTION DEPTH:** LOWER
   **MOISTURE HOLDING CAPACITY:** LOWER
   **TOTAL:** 4.2 IN. (D)
   **NET IRRIGATION:** 4.2 / 2 = 2.1 IN. (E)

6. **PEAK PERIOD DAILY AVERAGE CONSUMPTIVE USE RATE**
   **I =** 2.10 IN. (F)
   **Um =** 7.359 IN (G)
   **Up =** 0.28 IN/DAY (H)

7. **PEAK PERIOD IRRIGATION INTERVAL**
   **I/Up =** 7.5 DAYS (I)

8. **PEAK PERIOD GROSS IRRIGATION**
   **IRRIGATION EFFICIENCY Ea =** 80%
   **Up/Ea =** 0.35 IN/DAY
March 9, 2009

Mr. John J. McHugh, Jr.
Crop Care Hawaii, LLC
2923A Ka'alamalio Drive
Honolulu, Hawaii 96822

Dear Mr. McHugh:

Subject: Your Letter of February 24, 2009 Requesting the Availability of Water to the Proposed Agricultural Development in Wahiawa, TMK: 7-1-001:005 & 027

Thank you for your letter requesting water service to the proposed pig operation and banana cultivation development near Whitmore Village.

Water service cannot be made available to the proposed pig operation and banana cultivation development. Development of the proposed parcel for agricultural use will adversely impact the fire flow to the existing Helemano Elementary School. The improvements necessary to accommodate the proposed agricultural development are quite extensive, and we do not have plans to construct them at this time. We recommend the developer install a private water source to serve the proposed development.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA
Program Administrator
Customer Care Division
MEMORANDUM

STATE OF HAWAII
Department of Land and Natural Resources
DIVISION OF AQUATIC RESOURCES

TO: Dan A. Polhemus, Administrator
FROM: Glenn R. Higashi, Aquatic Biologist
SUBJECT: Comments on Water Use Permit Application (WUPA No. 876)

Comments
Requested By: Commission on Water Resource Management
Date of Request: 11/24/09  Date Received: 11/24/09

Summary of Project

Title: Water Use Permit Application (WUPA No. 876) for Alii Turf Co., LLC for Well No. 3001-01.

Project By: Alii Turf Co., LLC
Kahuku, HI 96731

Location: Wahiawa System, Central Sector, Oahu TMK: 7-1-001:006

Brief Description:

The applicant, Alii Turf Co., LLC proposes to withdraw 115,200 gallons per day (averaged over 1 year) of ground water from Well No. 3001-01 in Wahiawa, Oahu, Tax Map Key 6-4-03:001. This application is to accommodate new irrigation water requirements for the proposed agricultural development of 58.3 acres of land for crops, mixed livestock and compost.

Comments:

The Division of Aquatic Resources (DAR) has some concerns to this request since the proposed project may have impacts on aquatic resource values in the area. Since this application is for a proposed new well a pump test should be performed on this well to determine if there are any impacts on any streams or aquatic resources in this area that will be affected by this proposed activity.

The proposed agricultural development is also adjacent to the north fork of the Kaukonahua Stream which is part of the Wahiawa Public Fishing Area. Best Management Practices (BMPs) should be incorporated to prevent runoff of sediments, feces, etc. from the adjacent agricultural development parcels-fruit tree and mixed livestock into the stream environment.
December 21, 2009

Ryan Imata
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawai‘i 96809

RE: Request for comments on the proposed water use permit application (WUPA), Wahiawa, O‘ahu, TMK: 7-1-01:016.

Aloha e Ryan Imata,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter MA-3512. OHA has reviewed the project and offers the following comments.

OHA appreciates that the applicant intends to begin a hog operation and banana patch in the area; however we see that 3,750 gallons of water per day are to be used for an anticipated use (WUPA, page two) and not an existing use. Of additional note is the overall water requirements estimate for mature sows at two liters per minute, which the applicant translates into 50 to 100 gallons per minute for 100 to 200 pigs. OHA points out that this estimate is vague in terms of total numbers of animals (100 ranging to 200) and that the sows won’t be drinking two liters per minute 24 hours per day. We ask the Commission on Water Resource staff to lend their expertise to these numbers and for the applicant to clarify.

Thank you for the opportunity to comment. If you have further questions, please contact Grant Arnold by phone at (808) 594-0263 or e-mail him at granta@oha.org.

'O wau iho nō me ka 'oia'i'o,

Clyde W. Nāmu'o
Administrator
Alii Turf Co., LLC
APPLICATION FOR A WATER USE PERMIT
All Turf Well (Well No. 3001-01), TMK 7-1-001:006, WUP No. 876
Future (Agricultural) Use for 0.115 mgd
Wahiawa Ground Water Management Area, Oahu

APPLICANT: Alii Turf Co., LLC
P.O. Box 689
Kahuku, HI 96731

LANDOWNER: Same

SUMMARY OF REQUEST:
The applicant requests that the Commission on Water Resource Management (Commission) approve a water use permit for an allocation of 0.115 million gallons per day (mgd) of potable ground water from a new well (Well No. 3001-01) to supply 55.7 acres of irrigation demand.

LOCATION MAP: See Exhibit 1

BACKGROUND:
On July 13, 2009, a Well Construction and Pump Installation Permit application was submitted to staff. Staff has not yet issued the Well Construction Permit due to some outstanding issues with the driller. However, the applicant has stated that they wanted to move forward with the Water Use Permit application.

On October 14, 2009, a completed water use permit application was received from Alii Turf Co., LLC 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 23 mgd as the sustainable yield for the Wahiawa 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:

**Table 1. Wahiawa Aquifer System**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Wahiawa Aquifer System (mgd)</th>
</tr>
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<tbody>
<tr>
<td>Sustainable Yield</td>
<td>23</td>
</tr>
<tr>
<td>Less: Other Existing Water Use Permits (shown in Exhibit 2a)</td>
<td>21.928</td>
</tr>
<tr>
<td>Reservation to DHHL</td>
<td>0</td>
</tr>
<tr>
<td><strong>Subtotal (Current Available Allocation)</strong></td>
<td>1.072</td>
</tr>
<tr>
<td>Less: Other Completed Applications (shown in Exhibit 3)</td>
<td>0.359</td>
</tr>
<tr>
<td>Less: This Application</td>
<td>0.115</td>
</tr>
<tr>
<td><strong>Subtotal (Potential Available Allocation/Allocation Deficit)</strong></td>
<td>0.598</td>
</tr>
</tbody>
</table>

Therefore, there is adequate water available to accommodate this request.

(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".

I. **Purpose of Use**
The applicant is requesting the use of potable water to irrigate 55.7 acres of crops, livestock and composting. These are considered agricultural uses of water. The Declaration of Policy section, §174C-2(c) HRS, states that the Water Code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for various purposes including agricultural uses.

II. Quantity Justification

The applicant is requesting a total of 0.115 mgd, broken down as follows:

Crops

The applicant states that they need 34,200 gpd for crop irrigation. The basis for this is 1,500 gpd/acre for 22.8 acres.

The applicant stated that they will be growing the following crops: banana, papaya, vegetable crops and fruit trees.

Since its presentation to the Commission in April 2008, the Commission staff has used an ArcGIS based numerical simulation model, created in conjunction with the College of Tropical Agriculture and Human Resources (CTAHR), from the University of Hawaii, as a guideline to help review irrigation requirements for proposed water use permit applications. Most applications do not have the level of irrigation analysis as provided by this application. Nevertheless, it is useful to use the Irrigation Water Requirement Estimation Decision Support System (IWREDSS) model for comparative purposes.

Based on the IWREDSS, staff has calculated the following duties:

Banana – 2,199 gpd/acre
Papaya – 1,742 gpd/acre
Vegetable crops – 3,345 gpd/acre
Fruit trees – 2,678 gpd/acre

Since all of these estimates are greater than the applicant’s duty, the 1,500 gpd/acre appears to be reasonable.

Ornamental and Nursery

The applicant has stated that they need 1,500 gpd/acre for nursery plants. Through the IWREDSS, staff has calculated 4,371 gpd/acre for nursery plants. Therefore the applicant’s request appears to be reasonable.
Livestock Processing

The applicant has stated that 500 gpd/acre is required for 7.5 acres of livestock production. Staff discovered through a subsequent discussion with the applicant that approximately 500 pigs could be raised, at about 2.5 gpd/pig based on actual demands (100 pigs use a 255 gallon tank daily). Staff has consulted the draft copy of “A Literature Compilation of Water Usage For Hawaii”, prepared by the Water Resources Research Center of the University of Hawaii, which estimates that pigs use approximately 2.5 gpd/pig. Therefore a new demand would be 500 pigs * 2.5 gpd/pig = 1,250 gallons.

Turf Irrigation

The applicant has stated that they need 3,600 gpd/acre for turf irrigation. Through the IWREDSS, staff has calculated 3,694 gpd/acre. Therefore the applicant’s request appears to be reasonable.

Composting

The composting portion of the allocation was initially inadvertently left off of the application except for a line item in Table 2. Subsequent conversation with the applicant indicates that they will need 1,500 gpd/acre, multiplied by 1.8 acres, for a total of 2,700 gallons per day. Staff does not have a comparable duty reference for composting. However, Hawaiian Earth Products (HEP), who also has an application pending with the CWRM, is applying for 3,500 gpd/acre. The difference is probably attributed to HEP’s requirement to accelerate the composting process, as composting is the primary use. Therefore, 1,500 gpd/acre appears to be reasonable.

Summary for demands

All of the applicant’s duties appear to be reasonable, with the corrected values for livestock production. Using the new livestock number, the total amount that staff considers to be reasonable is 34,200 gpd (crops) + 5,250 gpd (nursery) + 72,000 gpd (turf) + 1,250 gpd (livestock) + 2,700 gpd (composting) = 115,400 gpd.

III. Efficiency of Use

The applicant will use drip irrigation for crops and sprinklers for turf, which are as efficient as possible.

IV. Analysis of Practical Alternatives

The applicant has identified the availability of following alternatives:

1. Municipal sources – none available
2. **Wastewater reuse** – none available

3. **Ditch system** – none available.

4. **Desalinization** – desalinization of salt water obtainable by drilling a well through the fresh water lens would be cost prohibitive.

5. **Surface water** – Surface water from the Kaukonahua Stream was considered but is not considered feasible for two reasons. First, there is a property between the Stream and the applicant’s parcel (right-of-ways would be necessary). Second, recently adopted operating changes keep the reservoir/stream level low due to dam safety concerns, which makes the water turbid and unreliable.

6. **Conservation measures** – Water use will be limited to actual plant ET requirements.

7. **Other** – none

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

This well has not yet been constructed. Analysis from the pump tests required for this well will show possible adverse effects on other existing legal uses.

(4) **Public interest**

Public interest is defined under §174C-2 - Declaration of policy, as follows:

"(c) **The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.**"

Additionally, there have been no comments or objections to this application.

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

The proposed uses are in the State **Agricultural** District, and the county zoning is AG-1. Therefore, the proposed use is consistent with these land use designations.

Normal agency review includes:
1) the State's Department of Land and Natural Resources (DLNR) and its State Parks, Aquatic Resources, Historic Preservation, and Land Divisions; the Department of Health (DOH) with its Clean Water, Safe Drinking Water, and Wastewater Branches; the Department of Hawaiian Home Lands (DDHL), and Land Use Commission (LUC); and the Office of Hawaiian Affairs (OHA).

2) the County's County Council, Department of Planning and Permitting, and the Department of Water Supply;

These proposed uses are consistent with the state and county general plans and land use designations.

The Office of Hawaiian Affairs submitted concerns about the livestock numbers (attached as Exhibit 4). These concerns were addressed earlier in the Quantity Justification section above.

The Division of Aquatic Resources has expressed concerns over surface water impacts, which should be addressed by the pump tests performed through the Well Construction Permit process. They have also expressed concerns over the runoff from the facility entering downgradient streams. The DAR comments are attached as Exhibit 5. A special condition can be attached which requires the applicant to obtain appropriate permits from the Department of Health as a special condition of this permit.

(6) County land use plans and policies

Again normal County review includes County Council, Department of Planning and Permitting, and the Department of Water Supply. No comments or objections have been made.

Therefore, this application meets the 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 and made no comments or objections. Further, standard water use permit conditions 3.g., 6., and 9.f. notify all water use permittees that their permits are subject to and cannot interfere with Hawaiian home land rights.

Therefore, this application will not interfere with Hawaiian home lands rights.
RECOMMENDATION:

Staff recommends that the Commission approve the issuance of water use permit no. 876 to Alii Turf Co., LLC for the reasonable and beneficial use of 0.115 million gallons per day of potable water for agricultural use from the All Turf Well (Well No. 3001-01), subject to the standard water use permit conditions listed in Attachment B and the following 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. The applicant shall obtain the necessary permits from the Department of Health or any other agencies, pertaining to the implementation of Best Management Practices to prevent runoff into adjacent streams.

Respectfully submitted,

KEN C. KAWAHARA, P.E.
Deputy Director

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

Exhibit(s):    1 (Location Map)
               2a&b (Existing Water Use Permits and 12-Month Moving Average Withdrawal)
               3 (Pending Water Use Permit Applications)
               4 (OHA comments)
               5 (DAR comments)

APPROVED FOR SUBMITTAL:

LAURA H. THIELEN
Chairperson
WATER USE PERMIT DETAILED INFORMATION

Source Information

**AQUIFER:**
- Sustainable Yield: 23 mgd
- Existing Water Use Permits: 21.928 mgd
- Available Allocation: 1.072 mgd
- Total other pending applications: 0.359 mgd
- This application: 0.115 mgd

**WELL:**
- not yet drilled

Use Information

- Quantity Requested: 0.115 gallons per day.
- Future Type of Water Use: Agricultural
- Place of Water Use: TMK: 7-1-001:005

Wahiawa Aquifer System
- Current 12-Month Moving Average Withdrawal (See Exhibit 2): 0.259 mgd (as of 9/09)

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Honolulu Advertiser on November 27, 2009 and December 4, 2009 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 December 18, 2009.

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 December 18, 2009.
To the best of staff’s knowledge there are no objectors who have property interest within the Wahiawa 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.
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 February 17, 2010 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;

ATTACHMENT B
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 Wahiawa 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 Wahiawa 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 which 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.

ATTACHMENT B
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 Wahiawa 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. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

19. 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.

ATTACHMENT B
# Aquifer System Area Water Use Permit Index (total)

**ISLAND OF OAHU**

**Aquifer System Ground Water Management Area:** WAHIAWA

**Sustainable Yield = 23**

<table>
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<tr>
<th>WUP No</th>
<th>Approved</th>
<th>Applicant</th>
<th>Well No.</th>
<th>Well Name</th>
<th>WUP (mgd)</th>
<th>12-MAY (mgd)</th>
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**Summary for WAHIAWA (17 detail records)**

- Totalling 21.928
- Available 1.072

---

**Thursday, February 04, 2010**

**EXHIBIT 2a**
## Pending Water Use Applications

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<tr>
<th>WUPNO</th>
<th>Well No</th>
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<th>MGD</th>
<th>Rcvd Date</th>
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<tbody>
<tr>
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<td>Alii Turf Co., LLC</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>876</td>
<td>3001-01</td>
<td>Alii Turf</td>
<td>Alii Turf</td>
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</tbody>
</table>

2 WUPAs totalling 0.474
2 Total WUPAs for 0.474

EXHIBIT 3
October 13, 2009
09-249 (09-42)

Mr. Ken Kawahara
Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Kawahara:

Water Use Permit Application
From the Wahiawa Aquifer System
For Alii Turf Co., LLC on TMK 7-1-01:6
in Wahiawa, Oahu

Attached is Table 3 of the Water Use Permit application originally submitted on behalf of Alii Turf Co., LLC in July 2009. The information it contains, although not in the form of Table 3, was submitted in the original application and attachments and in the supplemental information submitted by letter dated September 11, 2009.

I believe the application to be complete and would appreciate its expedited processing.

Sincerely,

Tom Nance

cc: See Ba Thee - Alii Turf Co., LLC [Email Only]

Attachment
### OTHER PERTINENT INFORMATION

#### 13. TABLE 3: ALTERNATIVES ANALYSIS

<table>
<thead>
<tr>
<th>Municipal sources</th>
<th>A. Analysis of potable alternatives</th>
<th>B. Analysis of non-potable alternatives</th>
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<tbody>
<tr>
<td></td>
<td>As indicated in its March 9, 2009 letter, BWS can not supply the needed water from its potable system.</td>
<td>There are no municipal non-potable sources in the region.</td>
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<tr>
<td>Wastewater reuse</td>
<td>Not Applicable</td>
<td>There are no wastewater reuse alternatives available. The C&amp;C does discharge into Wahiawa Reservoir, but this source is not available for the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Ditch system</td>
<td>Not Applicable</td>
<td>There are not ditch sources in the area.</td>
</tr>
<tr>
<td>Desalinization</td>
<td>Not applicable in this area. The only potential feedwater source is onsite groundwater. It is of potable quality and not in need of desalinization.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface water</td>
<td>Not Applicable</td>
<td>As explained in the original application (letter of July 10, 2009) and supplemental information (letter of September 11, 2009), Wahiawa Reservoir water is not available on the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Conservation Measures</td>
<td>Water use will be limited to actual plant ET requirements.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### 14. PUBLIC INTEREST

§ 174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, agriculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and propagation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

#### 15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

#### 16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

#### 17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- ☐ PUC-Regulated Private System
- ☐ Non-PUC-Regulated Private System
- ☐ Not a Public Water System
- ☐ Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

APPLICATION FOR GROUND WATER USE PERMIT FOR
PROPOSED NEW USE IN A DESIGNATED GROUND WATER
MANAGEMENT AREA

FORM GWUPA-N

For detailed instructions on filling out this application form completely, refer to the attached instructions. Incomplete applications will not be accepted for processing.

The following must be attached before this application is accepted as complete:

- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with source location labeled and include the name of the quad map.
- Property tax map, showing source location referenced to established property boundaries.
- Photograph(s) of the source(s) and location(s) of proposed end use(s), if applicable.

APPLICANT INFORMATION

Name/Company: Alii Turf Co., LLC
Contact Person: See Ba Thee
Mailing Address: P. O. Box 689, Kahuku, Oahu, Hawaii 96731
Phone: 293-8873, Fax: 293-1962, E-mail: thees001@hawaii.rr.com

SOURCE INFORMATION

3. ISLAND
Oahu

4. GROUND WATER MANAGEMENT AREA
Wahiawa

5. SOURCE INFORMATION
Attach additional sheets, if necessary.

Well Number (if knows)

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Existing or Proposed?</th>
<th>TMK</th>
<th>Flowmeter installed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>Alii Turf</td>
<td>Prop</td>
<td>Yes, date installed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prop</td>
<td>No, Not Yet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prop</td>
<td>Yes, date installed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prop</td>
<td>No</td>
</tr>
</tbody>
</table>

6. TOTAL QUANTITY OF WATER REQUESTED: §174C-51(1), HRS

7. PROPOSED USE(S):
- Agriculture
- Domestic
- Industrial
- Irrigation
- Military
- Municipal

8. LOCATION OF PROPOSED WATER USE(S): §174C-51(6), HRS
Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps. See Item 11 (Table 1, column B) of this application. Attached

Note: Signing below indicates that the signatories understand and affirm that the information provided on this application is accurate and true to the best of their knowledge. Furthermore, the signatories understand that: (1) if necessary, further information may be required before the application is considered complete; (2) if a water use permit is granted by the Commission, this permit is subject to any existing legal uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands' future uses; and (3) the applicant is responsible for paying the public notice fees associated with this application. Additionally, as stated in Note 1, above, §174C-51(1) the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.

9. APPLICANT
See Ba Thee
Date: 7-8-09

10. SOURCE LANDOWNER/JOINT APPLICANT (if applicable)
See Ba Thee
Date: 7-8-09

FORM GWUPA-N (April 28, 2009)
## Proposed New Use or Modified Use Information

### Table 1: Land Use Consistency / Efficiency of Use

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURPOSE (WATER USE CATEGORY)</td>
<td>TIME FOR PROPOSED LOCATION OF USE (ATTACH THE FOLLOWING):</td>
<td>STATE LAND USE DISTRICT</td>
<td>COUNTY CODE</td>
<td>LAND FOR PROPOSED LOCATION OF USE</td>
<td>SMAP REQUIRED</td>
<td>REQUIRED?</td>
<td>TOTAL POTABLE USE</td>
<td>TOTAL QUANTITY OF WATER REQUESTED</td>
<td>ASSUMPTION FOR QUANTITY OF WATER REQUESTED</td>
</tr>
<tr>
<td>USES THAT REQUIRE POTABLE (DRINKING) WATER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USES THAT DO NOT REQUIRE POTABLE WATER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**JUSTIFICATION FOR QUANTITY OF WATER REQUESTED**

(If applicable, attach additional sheets showing how the quantity was calculated.)

For example, for irrigation uses fill in Table 2.

**FORM GWUPA-N (April 28, 2009)**

**Page 2 of 7**
TABLE 2: IRRIGATION INFORMATION

List all crops that will be grown, including landscape and golf course irrigation uses. Copy Table 2 and attach additional sheets to complete your list, if necessary.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Turf Grass</td>
<td>71</td>
<td>20.1</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Banana and Papaya</td>
<td>71</td>
<td>10.5</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Vegetable Crops</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Fruit Trees</td>
<td>71</td>
<td>4.8</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Nursery Plants</td>
<td>71</td>
<td>3.5</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Pigs, Chickens, and Ducks</td>
<td>71</td>
<td>7.5</td>
<td>January</td>
<td>December</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>01</td>
<td>06</td>
<td>Compost</td>
<td>71</td>
<td>1.8</td>
<td>January</td>
<td>December</td>
</tr>
</tbody>
</table>

Comments (continued from Column 5). Please clearly indicate the crop (i.e., the row in table) these comments relate to.
### TABLE 3: ALTERNATIVES ANALYSIS

<table>
<thead>
<tr>
<th></th>
<th>A. Analysis of potable alternatives</th>
<th>B. Analysis of non-potable alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal sources</td>
<td>As indicated in its March 9, 2009 letter, BWS can not supply the needed water from its potable system.</td>
<td>There are no municipal non-potable sources in the region.</td>
</tr>
<tr>
<td>Wastewater reuse</td>
<td>Not Applicable</td>
<td>There are no wastewater reuse alternatives available. The C&amp;C does discharge into Wahiawa Reservoir, but this source is not available for the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Ditch system</td>
<td>Not Applicable</td>
<td>There are not ditch sources in the area.</td>
</tr>
<tr>
<td>Desalinization</td>
<td>Not applicable in this area. The only potential feedwater source is onsite groundwater. It is of potable quality and not in need of desalinization.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface water</td>
<td>Not Applicable</td>
<td>As explained in the original application (letter of July 10, 2009) and supplemental information (letter of September 11, 2009), Wahiawa Reservoir water is not available on the Alii Turf Co. property.</td>
</tr>
<tr>
<td>Conservation Measures</td>
<td>Water use will be limited to actual plant ET requirements.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other (specify)</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. PUBLIC INTEREST

§174C-2(C), HRS states: The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and preservation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

Explain how the proposed new use(s) in your application are consistent with the public interest.

The water will be used for agricultural irrigation and livestock. Both are reasonable/beneficial uses of the water.

### 15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

As far as is known, the requested water use will not interfere with the rights of DHHL. DHHL makes no use and has no reservation of use in the Wahiawa Aquifer System.

### 16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

As far as is known, the requested water use will not interfere with any existing legal uses of water from the Wahiawa Aquifer System.

### 17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

- [ ] PUC-Regulated Private System
- [ ] Non-PUC-Regulated Private System
- [ ] Not a Public Water System
- [ ] Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.
February 24, 2009

Mr. Clifford P. Lum
Manager and Chief Engineer
Board of Water Supply
630 S. Beretania St.
Honolulu, Hawai'i 96843

Dear Mr. Lum,

I am working on behalf of Mr. See Ba Thee (TC) to secure a source of agricultural water for a parcel of agricultural land he has purchased in Wahiawa. The TMK Nos. for the property are (1) 7-1-001-005 & 27 and are a part of the Galbraith Estate property recently purchased by TC. TC is a cooperator with the West O'ahu Soil and Water Conservation District on a parcel of land he is currently renting in the Millilani Agricultural Park. TC is a serious farmer and currently has a thriving turf grass production business. TC wants to apply his agricultural expertise to his new property. His most immediate agricultural water need is for a dry litter hog operation. Water use under such a system is minimal and requirements are detailed in the attached report from AgTech Pacific.

TC's efforts on his new property will contribute to the expansion of diversified agriculture on the island of O'ahu. The Galbraith Estate property, which consists of approximately 2,100 acres, abuts Lake Wilson on the North Shore side of the reservoir and extends toward the Dole Helemano plantation and Schofield Barracks and has been idle since Del Monte abandoned pineapple operation on the property in July 2004. It is now overgrown with guinea grass and various types of trees and shrubs. Considerable expense will be required to clean the land and prepare it for active agriculture. TC's effort will be the first of many as other farmers purchase lots and move onto the land.

TC’s plan to start a livestock operation is urgently needed by the people of Hawaii to fulfill the goals of sustainability and self-sufficiency in agricultural production. The creation of a livestock venture is a bold move and helps fill a need for loss of such operations around the island of O'ahu and the rest of the state. This type of agricultural endeavor can only be realized on ground that is dedicated to farming through the commitment of the landowner. Many farmers on O'ahu face short-term leases or "licenses" to farm which range in length from 1 to 5 years. Often these arrangements have a 30-day "get out" clause should the landowner want to rent the property to more "lucrative" ventures. Because of such arrangements it is difficult to invest money in long-term capital improvements to agricultural land as a "lessee". Livestock operations require much planning and commitment to be profitable and are, therefore, not suitable for any sort of short-term (less than 5 years) venture.

In addition to the hog operation TC also wants to start and slowly expand to a 5 to 10 acre banana farm. The production of bananas, will not only include the fruit, but will also generate a
secondary by-product of the operation, banana stump. Banana stump is used in imu for cooking a local favorite, kalua pig. The commercial production of hogs and bananas is consistent with the demand for the two products in the Hawaiian culture and lifestyle.

Because of his extensive agricultural and business experience TC will have a good chance to successfully execute his agricultural plans on the new land. However, in order to ensure success he will need a source of potable water to manage the planned hog and banana operation. Additionally, drinking water is needed for workers who will be employed by him. This is exactly the kind of agricultural entrepreneurial effort needed to diversity the state’s economy, produce food locally, and provide needed jobs for the nearby communities of Wahiawa, Whitmore Village, Waialua, and Haleiwa. A 1.5 inch water meter is needed to commence the planned operation. As the venture proceeds he will look for additional sources of water (wells or surface water sources) to fully develop his 68 acres. The approval and installation of a 1.5 inch meter should be adequate to address his most urgent needs. However, TC recognizes that this size of water meter may not be available under the existing Board of Water Supply infrastructure abutting his property in Whitmore Village. If, at a minimum, he can secure a 5/8 inch meter (standard household at an agricultural rate) this will permit him to start the ground work for his farm and he will continue searching for additional sources of agricultural water as he slowly builds his business.

As a Director and Treasurer for the Board of the West Oahu Soil and Water Conservation District I have come to know TC as an authentic, responsible, reliable, and dedicated farmer. He has a strong vision for agriculture in Hawaii and would very much like to move forward as quickly as possible to achieve that vision. Any assistance you can offer him in obtaining the needed water would be appreciated.

Please call me or e-mail if you would like to discuss this further.

Sincerely,

John J. McHugh, Jr. Ph.D.
Crop Care Hawaii, LLC

Copies to: D. McDonald
See Ba Thee
Initial plans for the approximate 68 acres recently purchased by Mr. See Ba Thee (TC) are to raise between 100 to 200 pigs. Additionally, should there be a sufficient source of water, plans are to develop approximately 5 to 10 acres of banana. A reliable water source to meet the peak water demands for this operation as well as for general water use will be required immediately while alternative water sources are investigated for future agricultural ventures on the remainder of the property.

Water Requirements, pig operation
TC plans to incorporate a dry litter technique for raising pigs requiring little to no water for wash down. Soiled litter will be removed and utilized for mulch and compost for crop cultivation as opposed to washing the waste down for storage in a lagoon. It has been reported that recommended flow rates for drinking water alone for mature sows are 2 liters per minute which translates into 50 to 100 gallons per minute (GPM) for this aspect of the operation.

Water Requirements, banana cultivation
Current plans are for 5 to 10 acres of banana. Historical weather data was taken from the Pineapple Research Institute in Wahiawa which would be the most representative data available. Based on this data a peak consumptive use estimate in NRCS format was established, refer to Attachment A. Based on this, data peak water demand would occur in June requiring 0.35 inches per day to meet banana irrigation demand. For a 5 to 10 acre plot operating on a 20 hour per day irrigation schedule a minimum flow of 40 to 80 GPM would be required. A summary of the water requirements is shown in the table below.

<table>
<thead>
<tr>
<th>ACRES</th>
<th>GPD</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10000</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>48000</td>
<td>40</td>
</tr>
<tr>
<td>10</td>
<td>95000</td>
<td>79</td>
</tr>
<tr>
<td>20</td>
<td>190000</td>
<td>158</td>
</tr>
</tbody>
</table>

A 2" meter would be allow Mr. See Ba Thee to get started with his initial pig operation and cultivate some banana while he investigates future water sources. A 1 1/2" meter would allow him to start his pig operation but would limit his ability to cultivate any significant acreage of banana.
ATTACHMENT A

SEE BA THEE
CONSUMPTIVE USE ESTIMATE - UPDATED 02/02/2009

1 LOCATION: Whitmore
CROP: Banana

2 PAN EVAPORATION
STATION #: 820.20
PEAK MONTH: June
MEAN MONTHLY EVAPORATION: 7.79 IN.
MEAN MONTHLY RAINFALL: 1.1 IN.
MEAN MONTHLY NET EVAPORATION: 6.69 IN. (A)

3 PEAK MONTH CONSUMPITIVE USE COEFFICIENT: 1.1 (B)

4 PEAK MONTH CONSUMPITIVE USE RATE: 7.36 IN. (C)

5 NET IRRIGATION
SOIL TYPE: WaA
MOISTURE EXTRACTION DEPTH: TOP 36 IN.
MOISTURE HOLDING CAPACITY: TOP 1.4 IN/FT
MOISTURE HOLDING CAPACITY: TOP 0.117 IN/IN X 36 IN. = 4.2 IN.
MOISTURE HOLDING CAPACITY: MID
MOISTURE HOLDING CAPACITY: MID
MOISTURE HOLDING CAPACITY: MID 0.000 IN/IN X IN. = 0 IN.
MOISTURE EXTRACTION DEPTH: LOWER
MOISTURE HOLDING CAPACITY: LOWER
MOISTURE HOLDING CAPACITY: LOWER 0.000 IN/IN X IN. = 0 IN.
TOTAL: 4.2 / 2 = 2.1 IN. (D)

6 PEAK PERIOD DAILY AVERAGE CONSUMPITIVE USE RATE
I = 2.10 IN. (F)
Um = 7.359 IN (G)
Up = 0.28 IN/DAY (H)

7 PEAK PERIOD IRRIGATION INTERVAL
I/Up = 7.5 DAYS (I)

8 PEAK PERIOD GROSS IRRIGATION
IRRIGATION EFFICIENCY Ea = 80%
Up/Ea = 0.35 IN/DAY
Mr. John J. McHugh, Jr.
Crop Care Hawaii, LLC
2923A Ka‘amalio Drive
Honolulu, Hawaii 96822

Dear Mr. McHugh:

Subject: Your Letter of February 24, 2009 Requesting the Availability of Water to the Proposed Agricultural Development in Wahiawa, TMK: 7-1-001:005 & 027

Thank you for your letter requesting water service to the proposed pig operation and banana cultivation development near Whitmore Village.

Water service cannot be made available to the proposed pig operation and banana cultivation development. Development of the proposed parcel for agricultural use will adversely impact the fire flow to the existing Helemano Elementary School. The improvements necessary to accommodate the proposed agricultural development are quite extensive, and we do not have plans to construct them at this time. We recommend the developer install a private water source to serve the proposed development.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA
Program Administrator
Customer Care Division
BEYLK DRILLING & PUMP SERVICE, INC.
91-259A OLAI STREET
KAPOLEI, HAWAII 96707
PH: (808) 682-5554  FAX: (808) 682-5866

TO
CWRM
P O BOX 621
HONOLULU, HI 96809

WE ARE SENDING YOU  
\( \checkmark \) Attached  
\( \square \) Under separate cover via ___________________  
the following items:

- Shop drawings
- Prints
- Plans
- Samples
- Specifications

<table>
<thead>
<tr>
<th>COPIES</th>
<th>DATE</th>
<th>NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3/15/10</td>
<td></td>
<td>PUMP INSTALLATION PERMIT</td>
</tr>
<tr>
<td>1</td>
<td>3/15/10</td>
<td></td>
<td>WELL CONSTRUCTION PERMIT</td>
</tr>
</tbody>
</table>

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment

- Approved as submitted
- Approved as noted
- Returned for corrections

- Resubmit ______ copies for approval
- Submit ______ copies for distribution
- Return ______ corrected prints

- FOR BIDS DUE ____________________________

- PRINTS RETURNED AFTER LOAN TO US

REMARKS

COPY TO 9423G / C FILE

SIGNED:  

If enclosures are not as noted, kindly notify us at once. FOR: WILLIAM GODWIN  
VICE PRESIDENT
PUMP INSTALLATION PERMIT
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the site until the work is completed

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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: Date: 3-15-10
Printed Name: Bill Godwin
Firm or Title: Beylik Drilling and Pump Service

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

Attachments
WELL CONSTRUCTION PERMIT
Alii Turf Well, Well No. 3001-01

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 construction and testing of Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of 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 authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlresources/permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.
7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrmlresources/permits.htm for current form).
9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.
11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.
13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.
14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.
15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.
16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.
17. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: [Signature]

C-57 License #: AC-21896

Date: 12/16/10

Firm or Title: Beylik Drilling and Pump Service

Printed Name: Bill Godwin

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.
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new PIP for Aloii Turf.

21 30 10.14
158 01 47.22
August 26, 2010

Dear Mr. Ho:

Pump Installation Permit
Alii Turf Well (Well No. 3001-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

Special Conditions

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]

Laura H. Thiele
Chairperson

Enclosure

c: Alii Turf Co., LLC (with applicable comments – DOH SDWB, WWB, CWB)
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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: August 9, 2010
Expiration Date: August 9, 2012

LAURA H. THIELEN, 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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: __________________________ C-57, C-57a, or A License #: C-30442 Date: __________

Printed Name: Dwight Ho Firm or Title: Water Resources International

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

Attachments
Good morning Dwight,

Yes, we can.

By way of this email we will transfer the Pump Installation Permit for Ali'i Turf to Water Resources International.

I'm currently on the Mainland and will return next week.

Ryan, please let me know if I need to come in to sign anything.

Mahalo,

Bill

----- Original Message ----- 
From: Dwight Ho <dwightho@wri.us.com> 
To: Bill Godwin 
Sent: Mon Aug 09 11:48:05 2010 
Subject: FW: Alii Turf

Good morning Bill,

Can we please receive your approval to transfer the pump permit for Aliii Turf to Water Resources?

We were the low bidder on the pump portion of this project and are getting ready to install.

Dwight Ho

(808) 722-0660

We sent the permit to Beylik because they signed the application. If you white-out and sign the application (I've attached it), as long as Beylik agrees to transfer the permit to you guys, I can issue it to Water Resources.

Ryan
"Dwight Ho" <dwightho@wri.us.com>
08/07/2010 12:00 PM

To

<Ryan.R.Imata@hawaii.gov>

cc

Subject

Alii Turf

Howzit Ryan,

Drilling for Alii Turf was completed by Beylik earlier this year. We’ve been awarded the pump installation.

Is there a pump installation permit for this project? Can I get a copy?

Dwight Ho
(808) 722-0660
March 10, 2010

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259-A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Pump Installation Permit
Alii Turf Well (Well No. 3001-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

Special Conditions

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]
LAURA H. THIELEN
Chairperson

Enclosure

c: Alii Turf Co., LLC (with applicable comments - DOH SDWB, WWB, CWB)
USGS
Honolulu BWS
PUMP INSTALLATION PERMIT
Alii Turf Well, Well No. 3001-01

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 installation for Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 400 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: ____________________________ C-57, C-57a, or A License #: AC-21896 Date: __________

Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

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

Attachments
March 10, 2010

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-258-A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for a permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 17:

**Special Conditions**

1. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one copy to the Commission office for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrmlforms.htm.

**IMPORTANT** - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Laura H. Thiele
Chairperson

Enclosures

c: Alii Turf Co., LLC (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Honolulu BWS
WELL CONSTRUCTION PERMIT
Alii Turf Well, Well No. 3001-01

Note: This permit shall be prominently displayed at the construction site until the work is completed

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 construction and testing of Alii Turf Well (Well No. 3001-01) at TMK 7-1-001:006, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of 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 authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlresources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrmlresources_permits.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(0), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(0), HAR.

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

Date of Approval: February 22, 2010
Expiration Date: February 22, 2012

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 shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: ___________________________ C-57 License #: AC-21896 Date: ___________________________

Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.
November 24, 2009

TO: Morris Atta, Administrator
    Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Alii Turf Well (Well No. 3001-01) TMK 7-1-001:006

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss
Attachment(s)

RESPONSE:

☐ A water lease/permit is required of this applicant and an application for such will be requested by our division.

☒ A water lease/permit is not required of this applicant.

☐ A water lease/permit has been obtained by the applicant through lease no. ____________________________

☐ Other relevant Land Division rules/regulations, information, or recommendations are attached.

☐ No objections

☒ Other comments: Original source of private title was issued prior to statehood.

Contact Person: Gary Martin
Phone: 587-0421

Signed: ________________
Date: ___/___/____
STATE OF HAWAII
DEPARTMENT OF HEALTH

HAZARD EVALUATION AND EMERGENCY RESPONSE OFFICE

DATE: 8 Dec. 2009  NO. OF PAGES: 1+1

TO: Ryan

COMPANY: CWRI

TELEPHONE:  

FAX: 587-0219

FROM: Richard Palmer

TELEPHONE: (808) 586-4249  FAX: (808) 586-7537

COMMENTS:

OK
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Tomas See, Chief, Wastewater Branch
   Stuart Yamada, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawaoaka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of possible water to a public water system (defined as 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 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 the same 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 conjunctive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination [in ] is not located near the proposed well site (information attached).

[ ] As NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: Richard Palmer
Phone: 587-0157
Date: 12/08/2009

Signed: Richard Palmer
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: James See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoaka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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 II, 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 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).

[ ] An NPDES permit is required.

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: Johnny Ong, Eng. on Oahu 586-4294

Signed: ___________________ Date: _____________
November 24, 2009

TO:        Honorable Chiyome L. Fukino, M.D., Director  
           Department of Health  
           Attention: Tomas See, Chief, Wastewater Branch  
           Stuart Yamada, Chief, Safe Drinking Water Branch  
           Alec Wong, Chief, Clean Water Branch  
           Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM:  Laura H. Thielen, Chairperson  
Commission on Water Resource Management

SUBJECT:  Well Construction/Pump Installation Permit Application  
Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss  
Attachment(s)

RESPONSE:     X  

This well qualifies as a source which will serve as a source of portable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before commencing 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.

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 commencing 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 portable and non-portable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating portable and non-portable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-portable spigots with warning signs to prevent accidental consumption of non-portable 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, X X X is not located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DOH rules/regulations, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

Contact Person:  MICHAEL MIYASHITA  
Phone:  587-4258

Signed:  
Date:  12/1/09
CWRM Application Source: Alii Turf Well
(Well No. 3001-01)
TMK: (1) 7-1-01: 06

Safe Drinking Water Branch (SDWB) - Engineering Section

1. This well may qualify as a source that serves a regulated public water system. Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.

   a. All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

   b. Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

   The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

   c. All public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.
d. Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

e. All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.

f. All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.
g. All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai`i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

2. For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other regulated public water system programs, please contact the Safe Drinking Water Branch Engineering Section at 586-4258.

SDWB Underground Injection Control (UIC) Section

- In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well's groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

- Well water quality should be initially and periodically tested for it's acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well's recharge area may, over time, have an unacceptable effect on the well's water quality. Well construction materials and related equipment could also affect water quality.

CWRM Well Application Standard Comments (SDWB) Vers. 4/8/08
WELL NUMBER 3001-01

WELL NAME Alli Turf

WUP Number Old= 7177/ New= 876

☐ WELL CONSTRUCTION
☐ PUMP INSTALLATION
☒ WUPA

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LETTER
2 PERMIT PROCESS TABLE
3 CWRM MAP
4 APPL. FORM (11 COPIES)
5 USGS MAPS (11 COPIES)
6 TAX MAPS (11 COPIES)
7 PARCEL OWNER VERIF.
8 CONTRACTOR VERIF.
9 ALL INFO FILLED IN
10 BACKGROUND CHECK
11 $25 FEE DEPOSIT SLIP
12 DHP/CDUP/ SMA pre-screen

FOLDER:
☐ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

☐ missing Table 13 (rec'd 10/13/08)
- lots of yellow for background check for contractor

Susan - have Daci insert Table 3 in the right place.

Working on the WC/P1 app. This is the WUP for routing.
November 24, 2009

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Well Construction/Pump Installation Permit Application for Well No. 3001-01

We have received your Well Construction/Pump Installation permit application and filing fee for the Alii Turf Well (Well No. 3001-01). We are still working on outstanding issues, however, we will process your application for review.

Upon receipt of the required information we will accept your application as complete and you can then expect your application to be processed within ninety (90) days, though this review will reduce the approval time.

For your information, the attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, the permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Attachment

c: Alii Turf Co. LLC
November 24, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Tomas See, Chief, Wastewater Branch
   Stuart Yamada, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawakoa, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 December 18, 2009. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss
Attachment(s)

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (defined as 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 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 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.

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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 [ was ] is not located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DOH rules/regulations, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: ______________________ Phone: ______________________

Signed: _____________________________ Date: ______________________
TO: Morris Atta, Administrator
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01) TMK 7-1-001:006

November 24, 2009

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. **Please respond by returning this cover memo form by December 18, 2009.** If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss
Attachment(s)

RESPONSE:

[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

[ ] A water lease/permit is **not** required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ______________________.

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments:

Contact Person: __________________________ Phone: __________

Signed: __________________________________ Date: __________
November 24, 2009

TO: Dr. Puaalaokalani Aiu, Administrator
    Historic Preservation
FROM: Ken C. Kawahara, P.E., Deputy Director
      Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Application
         Alii Turf Well (Well No. 3001-01) TMK: 7-1-001:006

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump
Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs,
plans, and objectives specific to your division. Please respond by returning this cover memo form by
December 18, 2009. If we do not receive comments or a request for additional review time by this date,
we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this
permit application or request additional review time, please contact Ryan Imata of the Commission staff
at 587-0255. If you require additional information regarding specific information that can be provided by
the applicant, please contact the applicant directly at the contact information provided on the application
form.

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.
[ ] We concur that the work described under this permit will not disturb historic sites.
[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for
our concurrence:

Contact Person: ___________________________ Phone: ________________

Signed: ___________________________ Date: ________________

RESPONSE:

Attachment(s)
November 24, 2009

Mr. Wayne M. Hashiro, P.E.
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, HI 96843

Dear Mr. Hashiro:

Well Construction/Pump Installation Permit Review
Well Construction/Pump Installation Permit Application
Alii Turf Well (Well No. 3001-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application. If you have any comments on this application, please submit them by December 18, 2009. If we do not receive comments we will assume you have no comments.

If you have any questions about this permit application, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Laura H. Thelen
Chairperson

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Wednesday, July 22, 2009
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Mr. Ken Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809  

Dear Mr. Kawahara:

Water Use and Well Construction/Pump Installation  
Permit Applications for Alii Turf Co., LLC on TMK 7-1-01:6  
in Wahiawa, Oahu  

On behalf of Mr. See Ba Thee of Alii Turf Co., LLC, I am pleased to submit the enclosed applications and filing fees for a new well on TMK 7-1-01:6 in Wahiawa, Oahu that would provide irrigation supply for turf grass, diversified crops, and livestock. Alii Turf Co., LLC presently operates a 30-acre turf farm on leased land in Mililani which has Waiahole Ditch water as its irrigation supply. Alii Turf recently purchased TMK 7-1-01:6 from the Galbraith Estate and will relocate its turf growing operation there and expand to include diversified crops and livestock.

After acquisition of a couple of acres for the widening of Whitmore Avenue, Alii Turf will utilize approximately 55.6 of the remaining 69 acres of the site. The total requested amount of water is 115,200 GPD as a year-round average. The rates used to derive this amount are based on the applicant's experience farming in Mililani and elsewhere. His Mililani turf grass operation typically uses a little over 4,000 GPD/acre as a year-round average. This application has scaled it back to 3,600 GPD/acre for the 20 acres of turf grass, a small portion of which would be used for moisture control of the adjacent composting operation. Use rates for diversified crops for this application are based on 1,500 GPD/acre, significantly less than rates for the same crops elsewhere in Central Oahu.

Irrigation supply would be provided by a new well that would be drilled in the southern corner of the property. It has been tentatively sized as 10-inch casing diameter to accommodate a 400 GPM pump for direct, well-to-irrigation system applications without reservoir storage. Supply alternatives to the new, onsite well are supply from the Board of Water Supply [BWS] and surface water from the Wahiawa Reservoir [Lake Wilson]. A written request for water from BWS was made on February 24, 2009. BWS responded in writing on March 9, 2009 that it could not provide the requested service (copies of both letters are attached).
Use of surface water from Lake Wilson was given some consideration, but it is not feasible for two reasons. First, the Alii Turf property does not abut the reservoir so it does not have rights to use the water. The intervening strip of land was previously owned by Castle & Cooke and is now owned by a private party (Mr. Howard Green). Second, recently adopted operating changes keep the reservoir level far lower than previously due to safety concerns. As a result, the reservoir/stream level near the Alii Turf site is extremely low and the water is turbid. This makes it an unreliable and undesirable source of supply. Substantial improvements would be required for an intake and pumping system that would be capable of dealing with the low operating level in the reservoir and also withstand flood flows during which the reservoir level can be 15 to 20 feet higher.

If you have any questions or need additional information, feel free to call me or Mr. See Ba Thee (known as "TC") at 293-8873. Thank you for your attention to this matter.

Sincerely,

Tom Nance

cc: See Ba Thee - Alii Turf Co., LLC
    Bill Godwin - Beylik Drilling & Pump Service

Attachments
**WELL LOCATION INFORMATION**

1. **STATE WELL NO. (if already assigned):**
2. **WELL NAME:**
3. **ISLAND:**
4. **TWR:**
5. **WELL NUMBER:**

The following must be attached before this application is accepted as complete:
- A portion of the 7.5-minute series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quadrangle map.
- Property tax map, showing well location referenced to established property boundaries.
- Photograph of the proposed well site.
- A schematic diagram showing the well site, access road and proposed well infrastructure.
- For dug wells, attach a grading plan with cross section profiles showing existing and finish grades.

6. **WELL OPERATOR’S NAME/COMPANY:**
7. **WELL OPERATOR’S CONTACT:**
8. **LANDOWNER’S NAME/COMPANY:**
9. **LANDOWNER’S ADDRESS:**
10. **LANDOWNER’S FAX:**
11. **LANDOWNER’S E-MAIL:**

**PROPOSED WELL CONSTRUCTION**

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**PROPOSED PUMP INSTALLATION**

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<td>Irrigation (describe crop and no. of acres):</td>
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<td>19.</td>
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<td>Other (describe):</td>
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**OTHER LEGAL REQUIREMENTS**

- If required, items 21 and 22 must be obtained before the Commission can legally issue a permit.
- Conservation District Use Permit (CDUP): |
  - Well in or out of Conservation District: |
  - Required, CDUP #: |
  - Not required (attach documentation from OCGC): |
  - I have not checked with OCGC about whether or not a CDUP is required: |
  - I understand that checking with OCGC prior to making this application will expedite my review: |
  - I further understand that issues raised by the agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued: |
- Special Management Area Permit (SMAP): |
  - Required, SMA #: |
  - Not required (attach documentation from applicable County agency): |
  - I have not checked with the County about whether or not an SMA Permit is required: |
  - I understand that checking with the County prior to making this application may expedite my review: |
  - I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued: |
- State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources: |
  - I have consulted with the SHPD regarding potential impacts of well construction activities on historic sites: |
  - I have attached applicable documentation from the SHPD: |
  - I have not consulted with the SHPD regarding potential impacts of well construction activities on historic sites: |
  - I understand that checking with the SHPD prior to making this application may expedite my review: |
  - I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued: |
  - Additionally, the history of past land use is attached: |
- Water Use Permit No. (if applicable): |

Additional remarks, explanations, etc. (attach additional sheet if more space is needed): |

**NOTE:** Signing below indicates that the signatures understand and swear to that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 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 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fees of up to $2500/day.

**25. WELLS DRILLER (Must be filled out if application is for Well Construction):**

**26. PUMP INSTALLER (Must be filled out if application is for Pump Installation):**
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

- **Elevation at top of casing**: 922 ft., msl*  
- **Hole Diameter**: 17 in.  
- **Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**  
- **Ground Elevation**: 920 ft., msl*  

**Grouting method:**
- Positive displacement
- Other

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):**
- 3 in.

**Rock or Gravel Packing:**
- None
- Material:
  - Crushed Basalt
  - Rounded Gravel

**Estimated Water Level Elevation:**
- 270 ft., msl*

**Cement Grout:** 640 ft.  
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,  
Bottom Elevation of Well Limit = (Water Elevation + 4 \times \text{Aquifer Thickness})

Example: Estimated + 2 ft, Water Level Elev.  
Bottom Elevation = (Water Elevation + 4 \times \text{Aquifer Thickness}) = -18.5 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more):  
  - ANSI/AWWA C200  
  - API Spec. 5L  
  - ASTM A53  
  - ASTM A139  
- Stainless Steel: compliant with (check one or more):  
  - ASTM A424 (or A606)  
  - Type E  
  - Type S  
  - Grade B  
  - Other
- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)  
  - Schedule 40  
  - Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)  
  - Schedule 40  
  - Schedule 80  
  - Schedule 120
- Thermoset Plastic: (check one)  
  - Filament Wound Resin Pipe conforming to ASTM D2996  
  - Centrifugally Cast Resin Pipe conforming to ASTM D2997  
  - Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517  
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950  
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296  
  - FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more):  
  - ANSI/AWWA C200  
  - API Spec. 5L  
  - ASTM A53  
  - ASTM A139  
- Stainless Steel: compliant with (check one or more):  
  - ASTM A424 (or A606)  
  - Type E  
  - Type S  
  - Grade B  
  - Other
- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)  
  - Schedule 40  
  - Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)  
  - Schedule 40  
  - Schedule 80  
  - Schedule 120
- Thermoset Plastic: (check one)  
  - Filament Wound Resin Pipe conforming to ASTM D2996  
  - Centrifugally Cast Resin Pipe conforming to ASTM D2997  
  - Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517  
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950  
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296  
  - FEP Fluorocarbon Tubing conforming to ASTM D3296

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,  
Bottom Elevation of Well Limit = (Water Elevation + \frac{4 \times \text{Aquifer Thickness}}{4})

Example: Estimated + 2 ft, Water Level Elev.  
Bottom Elevation = (Water Elevation + \frac{4 \times \text{Aquifer Thickness}}{4}) = -18.5 ft.
Site of the Proposed Alii Turf Well in the South Corner of TMK 7-1-01:6