3-5-97

I spoke to Dave Nakama from Koolau G.C. I asked him if he could send us monthly passage from 4/96 - 12/96. He said he would.

I also asked him to return signed WUP, permit and water shortage plan. He said he would check on status of permit signing. He stated that he sent water shortage plan in, but will send a copy with next water use report.

He also said well #1 broken.

Neil
1993 March 17

TESTIMONY TO THE STATE OF HAWAII COMMISSION ON WATER RESOURCE MANAGEMENT

Item 2. Maui DWS Wells

Well Locations and Descriptions:
1. When were original pumps installed?
2. How long have they been operating?
3. How do existing uses over these periods of operation compare with proposed uses (mgd)?
4. How do static heads and chlorides over these periods of operation compare with initial heads and chlorides?

Analysis:
1. What hydrologic units are the wells located in?
2. What are the sustainable yields and existing, planned, and proposed/projected uses in these units?

Item 3. Maka Ridge and Haena Wells

Well Locations and Descriptions:
1. When were original pumps installed?
2. How long have they been operating?
3. How do existing uses over these periods of operation compare with proposed uses (mgd)? Neither are tabulated in the submitted descriptions.
4. How do static heads and chlorides over these periods of operation compare with initial heads and chlorides?

Analysis:
1. What hydrologic units are the wells located in?
2. What are the sustainable yields and existing, planned, and proposed/projected uses in these units?

Item 4. Stanhope Farms Well

Background
Did the applicant file a declaration of water use and registration of water source as required in 1988-1989? If so, what water use
(gpd) was declared at that time, and what was water level and chloride concentration?

Analysis & Issues

What has been the "impact on existing wells over the past 24 years"? Is this indicative of the "intermediate to long-range impacts to wells downgradient" that "may" occur? Concerns about concerns have been brought in to commence adverse effects.

"Concern over the approval of new water use permits in newly designated water management areas when existing uses have not yet applied" is not precisely the issue of concern. (The concern is that all currently unpermitted uses, both existing and proposed, in all water management areas be evaluated equally and concurrently with regard to their "reasonable and beneficial use," competition with existing and future legal uses, and other relevant criteria.) In this particular case, the concern is that the allocation of available water in Mokuleia be comprehensively evaluated against permit applications on a regular schedule, not on a first-come, first-serve basis, and that reservations to Hawaiian Home Lands and allocations to the County be settled before any other evaluations commence.

WATER USE PERMIT DETAILED INFORMATION

Source Information

Additional lines in this table should show:

AQUIFER:
1. Reservations to Hawaiian Home Lands NA
2. Allocation to County (zero)
3. Scheduled of permit application windows and evaluation periods

WELL:
1. Changes in extraction rates, water levels, and chlorides over periods of operation

Nearby Surrounding Wells and Other Registered Ground Water Use

Field verification of 14 out of 152 declared uses does not seem to be sufficient for estimating existing ground water use, and reveals nothing about surface water uses that might also be affected. What do required monthly water use reports reveal about existing use? How many of the 152 declared groundwater uses submit monthly water use reports as required? When will field verification be completed? What information base was used to derive Oahu Water Management Plan estimates? The "Current 12-Month Moving Average withdrawal?" How can the reduction in estimated existing use between 1990 (Oahu Water Management Plan) and 1993 ("Current Average Withdrawal") be explained? Rainfall?

Public Notice:
Was direct notice of the application mailed to all declared water users in the hydrologic unit (all categories)? If not, why not?

Objections:

Without serving direct notice to potential objectors (such as all declared water users), and without field verification of declared uses, "the best of staff's knowledge" about objectors is almost no knowledge at all. Furthermore, potential objectors are not afforded required due process and opportunity to file their objections.

Field Investigation

If the water source and existing use was investigated on November 12, 1991, why is "Reported Water Usage" (Use Information) listed as "NA"? - Reported usage just that estimated is by staff (no meter

Analysis & Issues

The fact that BWS turned over their wells to the cemetery does not indicate "that the aquifer in this area is actually a non-potable source." It only means that BWS has chosen not to operate it as municipal source because of the possibility that it may become non-potable due to overlying land uses. Water quality data is needed to conclusively indicate that the aquifer is a non-potable source. The actions of BWS unfortunately point out the persistent difficulties in effectively coordinating land and water use planning.

What has been the "Impact to other wells ... over the past four (4) years"?

The past three years have been dry. The recommended 150,000 gpd for 100 acres works out to 1500 gallons per acre per day (gad), which is equal to or greater than the diversified agriculture irrigation requirement in similar areas. The recommended allocation may be excessive and deserves closer scrutiny.

WATER USE PERMIT DETAILED INFORMATION

Source Information

Additional lines in this table should show:

AQUIFER:
1. Reservations to Hawaiian Home Lands
2. Allocation to County
3. Scheduled of permit application windows and evaluation periods

WELL:
1. Changes in extraction rates, water levels, and chlorides over
periods of operation

Nearby Surrounding Wells and Other Registered Ground Water Use

Field verification of 7 out of 43 declared uses does not seem to be sufficient for estimating existing ground water use, and reveals nothing about surface water uses that might also be affected. What do required monthly water use reports reveal about existing use? How many of the 43 declared groundwater uses submit monthly water use reports as required? When will field verification be completed? What information base was used to derive Oahu Water Management Plan estimates? What is the "Current 12-Month Moving Average Withdrawal" from the wells and the aquifer?

Public Notice:

Was direct notice of the application mailed to all declared water users in the hydrologic unit (all categories)? If not, why not?

Objections:

Without serving direct notice to potential objectors (such as all declared water users), and without field verification of declared uses, potential objectors are not afforded required due process and opportunity to file their objections.

Field Investigation

If the water source and existing use was investigated on July 20, 1990 and November 12, 1992, why isn't water usage, water levels, and chlorides from those dates reported in the "Detailed Information"?

NHAC remains concerned that all currently unpermitted uses, both existing and proposed, in all water management areas be evaluated equally and concurrently with regard to their "reasonable and beneficial use," competition with existing and future legal uses, and other relevant criteria. In this particular case, the concern is that the allocation of available water be comprehensively evaluated against permit applications on a regular schedule, not on a first-come, first-serve basis, and that reservations to Hawaiian Home Lands and allocations to the County be settled before any other evaluations commence.

"Item 6. Ewa Caprock"

Analysis and Issues

2. We should not assume that sugarcane production overlying the aquifer will only be replaced by urban development. There is great potential and opportunity for replacing sugarcane production with other agricultural practices that provide higher quality return water than that currently provided by sugarcane production.
We should also recognize that more brackish caprock water may be desirable for certain replacement agricultural uses and other alternative lands uses, such as aquaculture, wetland farming, and wetland bioremediation/waste treatment.

3. The future of OSCo. is not the sole criteria for the vitality of importing recharge and leakage to the caprock aquifer. Other vehicles for importing recharge and leakage exist and must be brought into the discussion.

Why is 1995 chosen as the potential date for OSCo. closing?

4. What is the Commission's current position with regard to its regulatory power over activities which "cut into the caprock?" We believe such activity should be considered groundwater extraction requiring well construction and water use permits. This is supported by the Water Code definition of "well."

5. These hydrologic studies estimate yield in the absence of recharge and leakage now provided by OSCo. operations, not in the absence of OSCo. itself.

6. NHAC would like to join the effort to develop and finalize firm alternative water source and recharge solutions. We also feel that, because of changing land use conditions in Ewa and the potential for return of federal lands as reparations to Native Hawaiians, the Ewa Caprock Regional Plan should continue to be revised with greater participation by the Hawaiian Homes Commission, Office of Hawaiian Affairs, and Hawaiian community concerns.

Item 7. Makalii Wells

RECOMMENDATION

NHAC concurs with the staff recommendation.

It is distressing that the submittal fails to report the litigation initiated by Koolau Ag' against the Commission. NHAC has on several occasions asked the deputy to publish this information in the monthly bulletin, along with announcement of any other litigation or contested case requests. It is imperative that the public be made aware of all legal actions impacting its Water Commission, so that these public judicial proceedings can be tracked and evaluated by concerned water users and public interests. While the Commission need not reveal the particulars of the case, it should regularly publicize docket numbers and schedules for upcoming judicial proceedings in local and national arenas.

Mahalo

David L. Martin, Vice-President
November 12, 1992

MEMORANDUM FOR THE RECORD

FROM: Susan Swanson

REGARDING: Reinspection of Minami Wells #1 (2347-02) and Minami Well #2 (2347-03)

I met with Sean Hoolehan of Minami Group, USA on November 12, 1992 in response to Minami Group's Ground Water Management Zone application for a combined use of 150,000 gpd. The purpose of the second inspection was to complete information not in the well file and to update photos of the use area, under construction during the first visit in 7/90.

During the inspection, I recorded information from the pump on Well #1 such as the manufacturer's name (50 hp, 350 gpm Peabody Floway Pump), the pump serial # (90-31938), meter brand (McCrometer) & serial # (90 6 499) and meter reading (22,939,000).

A submersible pump is currently installed on Well #2 (State Well # 2347-03). In 1989, a note on the declaration for Well #2 stated that a 50 hp submersible pump had temporarily been installed during the construction but would be replaced by a vertical shaft pump; I was not able to obtain the submersible pump manufacturer's name and specific information for that pump from Mr. Hoolehan, nor is the information contained in the well file. A McCrometer meter, serial # (88 6 23348) is installed on discharge from the pump with a meter reading (36,350,400 gallons) taken on 11/12/92.

In July, 1990, Well #2 was the primary well during the golf course construction and landscaping. Mr. Hoolehan stated that Minami Well #1 is now used as the primary source, with Minami Well #2 (State Well 2347-03) being used as a backup supply. Well #2 is used several times per month to maintain the pump and provide a substitute supply of water when the pump on Well #1 is undergoing maintenance. A pump from either well fills a .5 million gallon storage tank which drains into a 6 million gallon pond which is used to irrigate Koolau Golf Course. In addition the .5 million gallon tank is used to provide firefighting protection.

Mr. Hoolehan stated that the amount of water needed to irrigate the golf course varies depending on the weather and the season of the year. The greatest amount of water was used during the period that the grass was being planted and reaching it's full growth. Mr. Hoolehan estimated use that may average 150,000 gpd throughout the year, while the actual use may vary between rainy times that the landscape does not need to be watered to dry periods when as much as 500,000 gallons per day are needed.

Note the attached sheets for each well and photographs of the wells and use area.
CORRECTED LOCATION of Minami Well # 1 (State Well # 2347-02). This was plotted with the corrected coordinates provided on the drillers report and confirmed with the use of the GPS (Global Positioning System Equipment) during the field inspection.
MEMO FOR THE RECORD REGARDING UPDATING INFORMATION FROM WATER USE DECLARATIONS FOR WELL PERMIT APPLICATIONS

See Photos # 4 & 5 of
Minami Well # 2 (State Well 2347-03)

Additional information obtained by X field inspection or _ telephone interview.

Date: 11/12/92       By: Susan Swanson, CWRM Staff

Applicant: Minami Group       Telephone #: (Sean Hoolehan) 236-4653

Well #: 2347-03       Minami Well # 2  (Reported to be used as a "backup well.")

Pump type: i.e. submersible, electric, portable gasoline, etc.: Electric, submersible pump

Make of Pump installed: ___________      HP: 50     Pump Serial #: ___________

Size of Casing: 10"      GPM: 350

USE INFORMATION:   Is system metered? _X_ YES, _ NO

Meter Manufacturer: McCrometer       Serial #: 88 6 2348

Meter Reading as of 11/12/92: 36,350,400 (last two numbers- fixed zeros.)

Estimated use averaged over a year: 150,000 gallons per day combined pumpage from both wells has been estimated as yearly average to irrigate of 100 acres of Koolau Golf Course. At the time of the initial inspection in 7/90, this well was the only well in use and was used for irrigation of the landscape and for firefighting protection. The greatest amount of usage was during grow-in period of golf course grass and landscaping. At the time of the second inspection in 11/92, this well was reported as a backup well, with Well #1 being used as the primary well.

Mr. Hoolehan stated that this well is currently being used several times per month for maintenance of the pump and to serve as a substitute water supply while the other pump is being repaired. The pump fills a .5 million gallon storage tank (which is also used for firefighting protection). The tank empties into a 6 million gallon pond which feeds sprinkler systems.

How does use vary throughout the year? The use varies with the rainfall. During times of frequent rainfall, they do not need to irrigate the golf course. Pumpage increases during dry periods of the year.

Notes: Well coordinates confirmed with GPS to be: latitude: 21-23-04
MINAMI GROUP WELL # 2
(State Well 2347-03)
November 12, 1992

Photo # 4 (top) View of electrical wires leading to 50 hp submersible pump used as a backup source when the primary well's pump is being serviced. The pump is also used several times per month as routine maintenance to keep the pump in good condition.

Photo # 5 (bottom) View of McCrometer meter installed on pump.
MINAMI GROUP
WELLS # 1 & 2
(State Wells # 2347-02 & 03)
November 12, 1992

Photo # 6 (top)
View of .5 mg tank that is used for firefighting protection and to provide water to the 6 mg pond which feeds the sprinkler systems.

Photo # 7 (middle)
View of Koolau Golf Course, including 100 acres of irrigated landscape.

Photo # 8 (bottom)
View of some of the landscape that is irrigated by the sprinkler system.
MINAMI GROUP WELLS # 1 & 2 (State Wells # 2347-02 & 03) November 12, 1992, Photos # 9 and # 10 - Two views of the Koolau Golf Course. Water is pumped from either of the two wells to the .5 million gallon storage tank shown in the center of the bottom photo. In addition to providing firefighting protection, the storage tank provides water to the 6 million gallon pond connected to sprinkler systems that irrigate approx. 100 acres of fairways, greens and landscape. Shown in the bottom photo, above and to the left of the storage tank is the Minami Clubhouse.
MEMORANDUM

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

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Water Use Permit Application, Koolaupoko
Ground Water Management Area,
Well No. 2347-02 & 03 (Minami Group)
Kane'ohe, Ko'olaupoko, O'ahu
TMK: 4-5-42

This application is for the use of water from existing facilities. Therefore, we believe that any permits granted this application will have "no effect" on historic sites.

TD: amk
MEMORANDUM

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

FROM: Henry Sakuda, Administrator
      Division of Aquatic Resources

SUBJECT: Comments on Water Use Permit Application for Minami Group Well Nos. 2347-02 & 03 at Kaneohe, Oahu.

The proposal involves installation of two wells to access basal water for irrigation of the Pali Golf Course irrigation. Approximately 0.15 million gallons will be pumped per day.

There appears to be no potential for impact on significant surface waters. We therefore have no objections with reference to the potential effects on the aquatic biota.
TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

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FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: Honolulu Star Bulletin  Attn: Legal Advertising

Company: Hawaii Newspaper Agency

From: Commission on Water Resource Management
      Department of Land and Natural Resources

Date: Oct. 8, 1992  Time: 9:20 am

Message: Public Notice - Applications for Water Use Permits
          Ground Water Management Areas, Kawaiola,
          Koolaupoko, Waiauwa & Waipahu, Oahu

Total number of pages (including Transmittal Page): 5

* * * * * * *

If you do not receive all of the pages legibly, please call back: (808) 587-0225

Sending Facsimile Number: (808) 587-0219
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STATE OF HAWAI'I
REQUISITION & PURCHASE ORDER

DEPARTMENT OF LAND AND NATURAL RESOURCES

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PUBLIC NOTICE

Applications for Water Use Permits
Ground Water Management Areas, Kawailoa, Koolaupoko, Waiawa & Waipahu, Oahu
Publish in issues of October 12 & 19, 1992
(see attached notice)
Price List No. PL 92-66

$1,500.00

QUAN. | UNIT | DESCRIPTION | OBJECT | UNIT PRICE | AMOUNT
---|---|---|---|---|---

00 | xx | xx | xxxxx | $1,500.00 |

AUTHORIZED SIGNATURE

REQUISITION NO. 00136816

VENDOR NUMBER 117494

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY DATE

FOR DEPARTMENT USE ONLY

STATE ACCOUNTING FORM C-03
JULY 1, 1983 (REVISED)
Applications for the following water use permits have been received and are hereby made public, in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas".

NAKAMURA T. (Well No. 3903-04)
Applicant: TAKEMITSU NAKAMURA
59-024 Kamehameha Hwy
Haleiwa, HI 96712
Date Completed Application Received: August 12, 1992
Aquifer: KAWAILOA System, NORTH Sector, OAHU
Well Source: NAKAMURA T., Well No. 3903-04, 59-024 KAM HWY, OAHU at Tax Map Key: 5-9-16:3
Quantity Requested: 800 gallons per day.
Proposed Water Use: IRRIGATION FOR TWO (2) ACRES OF BANANA & CITRUS CROPS
Place of Water Use: 59-014 & 59-024 KAM HWY at Tax Map Key: 5-9-16:15

MINAMI 1 & 2 (Well Nos. 2347-02 & 03)
Applicant: MINAMI GROUP (USA), INC.
45-610 A Kionaole Rd.
Kaneohe, HI 96744
Date Completed Application Received: September 14, 1992
Aquifer: KOOLAUPOKO System, WINDWARD Sector, OAHU
Well Sources: MINAMI 1 & 2, Well Nos. 2347-02 & 03, 45-550 Kionaole Rd., Oahu at Tax Map Key: 4-5-42:1 & 10
Quantity Requested: 150,000 gallons per day
Proposed Water Use: GOLF COURSE, ASSOCIATED LANDSCAPE, AND CLUB HOUSE FIRE PROTECTION OVER 100 ACRES
Place of Water Use: 45-550 Kionaole Rd. at Tax Map Key: 4-5-42:1 & portion of 6

PROPOSED WAIAWA 575 1 & 2 (Well Nos. 2658-03 & 2659-03)
Applicant: GENTRY HAWAII, LTD.
P.O. Box 295
Honolulu, HI 96809
Date Completed Application Received: September 1, 1992
Aquifer: WAIAWA System, PEARL HARBOR Sector, OAHU
Well Sources: WAIAWA, 575 1 & 2, WAIAWA BY GENTRY, OAHU at Tax Map Key: 9-6-5:7
Quantity Requested: 1,053,000 gallons per day, total from two wells
Proposed Water Use: MUNICIPAL FOR WAIAWA BY GENTRY PROJECT
Place of Water Use: WAIAWA BY GENTRY PROJECT, PHASE I at Tax Map Key: 9-6-4:1

(more)
PROPOSED WAIAWA 765 1 & 2 (Well Nos. 2658-04 & 05)
Applicant: GENTRY HAWAII, LTD.
P.O. Box 295
Honolulu, HI 96809
Date Completed Application Received: September 1, 1992
Aquifer: WAIAWA System, PEARL HARBOR Sector, OAHU
Well Sources: Waiawa 756 1 & 2, WAIAWA BY GENTRY, OAHU at Tax Map Key: 9-6-5:7
Quantity Requested: 737,500 gallons per day, total from two wells
Proposed Water Use: MUNICIPAL FOR WAIAWA BY GENTRY PROJECT
Place of Water Use: WAIAWA BY GENTRY, PHASE I at Tax Map Key: 9-6-4:1

KUNIA 4 & 5 (Well Nos. 2503-01 & 02)
Applicant: HALEKUA DEVELOPMENT CORP.
2024 N. King St.
Honolulu, HI 96819
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Sources: KUNIA 4 & 5 Well Nos. 2503-01 & 02, Kunia 440 Reservoir Site, Oahu at Tax Map Key: 9-4-2:27
Quantity Requested: 1,600,000 gallons per day, total from two wells
Proposed Water Use: DOMESTIC FOR ROYAL KUNIA II
Place of Water Use: In WAIPAHU at Tax Map Key: 9-4-02:51 & 52

ROBINSON 1 & 2 (Well Nos. 2602-01 & 2702-03)
Applicant: ROBINSON ESTATE
1188 Bishop St.
Honolulu, HI 96813
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Source: ROBINSON 1 & 2, Well Nos. 2602-01 & 2702-03, HOAEAE, OAHU at Tax Map Key: 9-4-4:4 & 7
Quantity Requested: 5,000,000 gallons per day
Proposed Water Use: IRRIGATION OF 1,300 ACRES OF DIVERSIFIED AGRICULTURE, PINEAPPLE, & SUGAR CANE CROPS
Place of Water Use: HOAEAE OAHU, HAWAII at Tax Map Key: 9-4-4:Various & 9-4-3:Various

(more)
Written objections or comments on the applications for water use may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply or who will be directly and immediately affected by the proposed water use. Written objections shall: (1) state property or other interest in the matter; (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 permits. Send written objections by NOVEMBER 2, 1992 to 1) the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, and 2) a copy of the letter to the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

[Signature]

WILLIAM W. PATY, Chairperson

Dated: OCT 8 1992

Mr. Sean A. Hoolehan
Minami Group (USA), Inc.
45-610-A Kionaole Road
Kaneohe, HI 96744

Dear Mr. Hoolehan:

Application for a Water Use Permit
Koolaupoko Ground Water Management Area, Oahu

We acknowledge receipt, on September 14, 1992, of your completed water use permit application for the Minami 1 & 2 Wells (Well Nos. 2347-02 & 03). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

We will be sending you a copy of the public notice for your application and any further information regarding the status of your application. In addition, we may need to visit and verify your proposed water source and use sites if we have not done so already under our registration program.

If you have any questions, please contact Ed Sakoda at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

RH:ko
FIELD MEMORANDUM

DECLARANT (File Reference) Minam Group                      DATE 7/26/90
PRESENt Guy Yasuda, Keith Yoshumomo, Dana Yamauchi             
LOCATION 4-5-42-1-10                                           

SOURCE(S) 2 wells (2347-03 & 2347-02)                          

USE(S) Irrigation of 150 acres of golf course landscape and fire protection

FIELD NOTES There are 2 wells, well #2347-02 is in use at the time. Well #2347-03 is currently being used with an electric 50 hp, 350 gpm pump to irrigate the golf course landscape and fire protection. As of Oct. 1989 the totalizer reading on well #2347-03 indicates that about 273,000 gallons have been pumped. Once the golf course is completed, the two wells will pump water to a 1 million gallon pond and from the pond, an electric 250 hp, 1750 gpm pump will pump the water to a 0.5 million gallon steel reservoir. From there the water will be used for irrigation of the golf course.
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER

Declarant's File Reference: Mirami Group

1. Tax Map Key where the water is used: 4 - 5 - 42: 10. Does the declarant own this land? Yes If not, who does? __________________________

2. What is the water used for? Irrigation & Fire Protection. If for irrigation, how many acres are being irrigated by crop type? About 140 acres of crop: Barley & Widescape. If for drinking, at how many houses? ___________ by how many people? __________________________

3. Is the quantity of water use being measured? Yes If yes, document the location of the measurement point and method of measurement; also get use records if these were not submitted previously.

4. If this person takes from a multi-user pipe or ditch system:
   - How is the water taken from the system? __________________________
   - What is the capacity for taking (gpm)? __________________________
   - How often is it taken (used)? __________________________

PART II: WATER SOURCE

Source #: 2347-02 Name: Mirami Well #1

1. Where does the water come from / what kind of source is this? Well

   Types of sources include:
   1) Wells (drilled, dug, tunnel)
   2) Diversions (ditch, pipe, or pump from a stream, spring, swamp, pond)
   3) Multi-source systems. (Declared use cannot be traced to a single well or diversion)
   NOTE: If a multi-user system: take from pipe or ditch (need to determine whether this is a multi-source or single-source system before the data can be input to the computer)
   4) Instream (i.e., livestock drink from stream, or crops planted along water edge)

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? Electric 50 hp pump. What is the capacity for taking (gpm)? 300. How often is it taken (used)? __________________________

3. Tax Map Key at the source: 4 - 5 - 42: 10. Determine declarant’s relation to source. Does the declarant:

   1) Operate and maintain the source? Yes If not, who does? __________________________
   2) Own the land at the source? Yes If not, who does? __________________________
   3) Use the water from this source? Yes If not, who does? __________________________
   4) Own the land where the water is being used? Yes

4. Does any one else also use water from this source? No If yes, is their use included in this user's declaration? _______ Who are the other users? Did they file? __________________________

VERIFIED BY: Guy / Keith DATE: 7/20/90
FIELD INSPECTION INFORMATION CHECKLIST  (Ver 7/27/90)

PART I: USE OF WATER

Declarant's File Reference: Mirrawa Group

1. Tax Map Key where the water is used: A - B - 42 : 1. Does the declarant own this land? Yes. If not, who does? ___

2. What is the water used for? Irrigation / fire protection
   If for irrigation, how many acres are being irrigated by crop type? About 100
   acres of alfalfa landscape
   If for drinking, at how many houses? __________ by how many people? __________

3. Is the quantity of water use being measured? Yes. If yes, document the location of the measurement point and method of measurement; also get use records if these were not submitted previously.

4. If this person takes from a multi-user pipe or ditch system:
   How is the water taken from the system? __________________
   What is the capacity for taking (gpm)? __________________
   How often is it taken (used)? __________________

PART II: WATER SOURCE

Source #: 2847-0.8 Name: Mirrawa Well #2

1. Where does the water come from / what kind of source is this? Well

Types of sources include:
1) Wells (drilled, dug, tunnel)
2) Diversions (ditch, pipe, or pump from a stream, spring, swamp, pond)
3) Multi-source systems. (Declared use cannot be traced to a single well or diversion)
   NOTE: If a multi-user system: take from pipe or ditch (need to determine whether this is a multi-source or single-source system before the data can be input to the computer)
4) Instream (i.e., livestock drink from stream, or crops planted along water edge)

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? Electric 50 hp pump
   What is the capacity for taking (gpm)? 350
   How often is it taken (used)? __________________

3. Tax Map Key at the source: A - B - 42 : 1. Determine declarant's relation to source. Does the declarant:
   1) Operate and maintain the source? Yes. If not, who does? __________________
   2) Own the land at the source? Yes. If not, who does? __________________
   3) Use the water from this source? Yes. If not, who does? __________________
   4) Own the land where the water is being used? Yes.

4. Does any one else also use water from this source? No. If yes, is their use included in this user's declaration? ______ Who are the other users? Did they file? ______

VERIFIED BY: Guy/Keith DATE: 8/6/90
overview of Minami Group golf course pond

overview of Minami Group golf course
Well #2 used for construction & irrigation

Well #1 pump installed but not in use
pump house for pump from pond to golf course

6 million gallon pond. (man made)
view of pump from pond

close up of pump from pond
0.5 million gallon reservoir (overview)

0.5 million gallon reservoir
Mrs. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Mrs. Loui:

Subject: Water Use Permit Application for Koolaupoko Groundwater Management Area, Minami Group (USA) Inc. Well No. 2347-02, 03

Thank you for the opportunity to comment on the permit application. The proposed wells are in the vicinity of a group of wells which we turned over to the U.S. Department of Defense to irrigate the Veterans Memorial Cemetery in Kaneohe. The alluvial-volcanic ash aquifer is rather thin and may not sustain the additional pumpage without causing adverse effects.

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

Very truly yours,

KAZU HAYASHIDA  
Manager and Chief Engineer
Mr. Clayton H. W. Hee
Chairman & Trustee At Large
Office of Hawaiian Affairs
711 Kapiolani Blvd., Suite 500
Honolulu, Hawaii 96813-5249

Attn: Ms. Linda Delaney, Land & Natural Resources Division

Dear Mr. Hee:

Notice of an Application for a Water Use Permit
KOOLAUPOKO Ground Water Management Area, OAHU

Transmitted for your review and comment is a copy of a water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03.

If you have any objections or comments on the above application, please submit them to us in writing by November 2, 1992.

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

Very truly yours,

WILLIAM W. PATY

Enc.
Honorable Gary Gill, Chair
City Council
City & County of Honolulu
City Hall
Honolulu, Hawaii 96813

Dear Mr. Gill:

Notice of an Application for a Water Use Permit
KOOLAUPOKO Ground Water Management Area, OAHU

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03 which was published in the Honolulu Star Bulletin.

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

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

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]

WILLIAM W. PATY

Enc.
MEMORANDUM

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

FROM: William W. Paty, Chairperson

SUBJECT: Water Use Permit Application
KOOLAUPOKO Ground Water Management Area, OAHU

Transmitted for your review and comment is a copy of a water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03.

If you have any objections or comments on the above application please submit them to us in writing by November 2, 1992.

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

Enc.
Honorable Frank F. Fasi, Mayor  
City & County of Honolulu  
City Hall  
Honolulu, Hawaii 96813  

Attn: Mr. Jeremy Harris  

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit  
KOOLAUPOKO Ground Water Management Area, OAHU  

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03 which was published in the Honolulu Star Bulletin.  

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

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

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,  

[Signature]  

WILLIAM W. PATY  

Enc.
MEMORANDUM

TO: Interested State Agencies & Other Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Water Use Permit Application
KOOLAUPOKO Ground Water Management Area, OAHU

Transmitted for your review and comment is a copy of a water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03.

If you have any objections or comments on the above application, please submit them to us in writing by November 2, 1992.

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

RH:ko
Enc.
Henry M. Sakuda, Administrator
Aquatic Resources Division

Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
ATTN: Mr. William Wong

Mr. Dave Martin
Native Hawaiian Advisory Council
1088 Bishop St., Suite 1204
Honolulu, Hawaii 96813

Don Hibbard, Director
Historic Preservation Program

Ms. Marjorie Ziegler
Sierra Club Legal Defense Fund, Inc.
212 Merchant Street, Room 202
Honolulu, Hawaii 96813

Mr. Kazu Hayashida
Manager & Chief Engineer
Board of Water Supply
630 South Beretania Street
Honolulu, Hawaii 96843
Mr. Sean A. Hoolehan  
Minami Group (USA), Inc.  
45-610 A Kionaole Rd.  
Kaneohe, HI 96744

Dear Mr. Hoolehan:

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 October 12 & 19, 1992.

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 Roy Hardy at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director
STATE OF HAWAI‘I
REQUISITION & PURCHASE ORDER

DEPARTMENT OF LAND AND NATURAL RESOURCES

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

Hawaii Newspaper Agency
Honolulu Star Bulletin
P.O. Box 3350
Honolulu, HI 96801

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

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<th>UNIT</th>
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Applications for Water Use Permits
Ground Water Management Areas, Kawaiola, Koolaupooko, Waiawa & Waipahu, Oahu

Publish in issues of October 12 & 19, 1992
(see attached notice)

Price List No. PL 92-66

$1,500.00

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY DATE

REQUISITIONER

TELEPHONE

VOUCHER NUMBER

AUTHORIZED SIGNATURE

For Department Use Only

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COPY #1 - VENDOR
Applications for the following water use permits have been received and are hereby made public, in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas".

NAKAMURA T. (Well No. 3903-04)

Applicant: TAKEMITSU NAKAMURA
59-024 Kamehameha Hwy
Haleiwa, HI 96712

Date Completed Application Received: August 12, 1992
Aquifer: KAWAILOA System, NORTH Sector, OAHU
Well Source: NAKAMURA T., Well No. 3903-04, 59-024 KAM HWY, OAHU at
Tax Map Key: 5-9-16:3
Quantity Requested: 800 gallons per day.
Proposed Water Use: IRRIGATION FOR TWO (2) ACRES OF BANANA & CITRUS CROPS
Place of Water Use: 59-014 & 59-024 KAM HWY at Tax Map Key: 5-9-16:15

MINAMI 1 & 2 (Well Nos. 2347-02 & 03)

Applicant: MINAMI GROUP (USA), INC.
45-610 A Kionaole Rd.
Kaneohe, HI 96744

Date Completed Application Received: September 14, 1992
Aquifer: Koolaupoko System, WINDWARD Sector, OAHU
Well Sources: MINAMI 1 & 2, Well Nos. 2347-02 & 03, 45-550 Kionaole Rd., Oahu at
Tax Map Key: 4-5-42:1 & 10
Quantity Requested: 150,000 gallons per day
Proposed Water Use: GOLF COURSE, ASSOCIATED LANDSCAPE, AND CLUB HOUSE FIRE PROTECTION OVER 100 ACRES
Place of Water Use: 45-550 Kionaole Rd. at Tax Map Key: 4-5-42:1 & portion of 6

PROPOSED WAIAWA 575 1 & 2 (Well Nos. 2658-03 & 2659-03)

Applicant: GENTRY HAWAII, LTD.
P.O. Box 295
Honolulu, HI 96809

Date Completed Application Received: September 1, 1992
Aquifer: WAIAWA System, PEARL HARBOR Sector, OAHU
Well Sources: WAIAWA, 575 1 & 2, WAIAWA BY GENTRY, OAHU at Tax Map Key: 9-6-5:7
Quantity Requested: 1,053,000 gallons per day, total from two wells
Proposed Water Use: MUNICIPAL FOR WAIAWA BY GENTRY PROJECT
Place of Water Use: WAIAWA BY GENTRY PROJECT, PHASE 1 at Tax Map Key: 9-6-4:1

(more)
**APPLICATION FOR WATER USE PERMIT**

**Ground Water** or **Surface Water**

**Instructions:** Please print in ink or type and send copies of all supporting documents to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application(s) must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-587-0225.

1. **(a) APPLICANT**
   - Firm/Name: Minami Group (USA), Inc.
   - Contact Person: Sean A. Hoolehan
   - Address: 45-610 A Kionaole Rd. 236-4653
   - Kaneohe, HI 96744

2. **(b) LANDOWNER**
   - Firm/Name: Minami Investment, Inc.
   - Contact Person: Tetsuo Kato
   - Address: 21-1-3, Sotokanda Chiyoda-ku
   - Chiyoda-ku, Tokyo 101

3. **(c) Hawaiian Landowner (print) Tenant (enter tenant name)**
   - Address: 45-550 Kionaole Rd., Kaneohe HI

4. **source location:**
   - Address: 45-550 Kionaole Rd., Kaneohe HI
   - Tax Map Key: 4 - 5 - 42
   - Attach a USGS map, scale 1"=2000", and a property tax map showing source location referenced to established property boundaries.

5. **SOURCE TYPE (check one):**
   - Stream
   - Basin
   - Dike-confined
   - Perched
   - Caprock

6. **METHOD OF TAKING WATER (check one):**
   - Artesian Flow
   - Well & Pump
   - Diverted Surface Flow
   - Other (explain)

7. **LOCATION OF PROPOSED WATER USE:**
   - If possible, show on same maps as source location. Otherwise, attach similar maps
   - (a) Address: 45-550 Kionaole Rd., Kaneohe HI
   - Tax Map Key: 4-5-42:1
   - (b) Land Use District (check one): Urban
   - Agriculture
   - Conservation
   - Rural
   - (c) County Zoning (describe): O-1 (Preservation)

8. **QUANTITY OF WATER REQUESTED:**
   - 150,000 gallons per day

9. **METHOD OF MEASUREMENT:**
   - Flowmeter
   - Op-to-pipes
   - Wear
   - Orifice
   - Other (explain)

10. **QUALITY OF WATER REQUESTED:**
    - Fresh
    - Brackish
    - Salt
    - Potable or Non-Potable

11. **PROPOSED USE:**
    - Municipal (including hotels, stores, etc.)
    - Domestic (individual, noncommercial, etc.)
    - Irrigation
    - Industrial
    - Military
    - Other (explain)

12. **NUMBER AND TYPE OF UNITS TO BE SERVED:**
    - (1) Golf Course + Associated Ldscp.
    - And Club house fire protection

13. **TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:**
    - 100 Acres, Turfgrass & Landscaping

14. **PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:**
    - 7:AM to 12:AM

15. **APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:**
    - (a) Impact on Sustainable yield (?): None
    - (b) Permanant or Interim
      - Instream Flow Standards affected (?): No
    - (c) Hawaiian Home Land uses affected (?): No
    - (d) Other existing legal uses affected (?): No
    - (e) Other:

16. **REMARKS, EXPLANATIONS:**

(If more space is needed, continue on back side)

**NOTE:** Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

**Applicant (print):**
- Sean A. Hoolehan, CGCS
- Signature: __________________________
- Date: September 1, 1992

**Landowner (print):**
- Tetsuo Kato
- Signature: __________________________
- Date: September 1, 1992

**For Official Use Only:**
- Hydrologic Unit No.
- Diversion Works No.
- State Well No.

**Notice Dates:**
- Mayor
- BWS
- Mail List
- Bulletin
- Public Hearing
Mr. Sean A. Hoolehan  
Minami Group (USA), Inc.  
45-610 A Kionaole Rd.  
Kaneohe, HI 96744

Dear Mr. Hoolehan:

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If you have any questions, please contact Roy Hardy at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

RH:ko  
Encl.
MEMORANDUM

TO: Interested State Agencies & Other Parties

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

SUBJECT: Water Use Permit Application
KOOLAUPOKO Ground Water Management Area, OAHU

Transmitted for your review and comment is a copy of a water use permit application for Minami Group (USA), Inc. for Well No. 2347-02 & 03.

If you have any objections or comments on the above application, please submit them to us in writing by November 2, 1992.

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

RH:ko
Enc.
Henry M. Sakuda, Administrator  
Aquatic Resources Division

Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
ATTN: Mr. William Wong

Mr. Dave Martin  
Native Hawaiian Advisory Council  
1088 Bishop St., Suite 1204  
Honolulu, Hawaii 96813

Don Hibbard, Director  
Historic Preservation Program

Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813

Mr. Kazu Hayashida  
Manager & Chief Engineer  
Board of Water Supply  
630 South Beretania Street  
Honolulu, Hawaii 96843
Minami Group (USA), Inc.
1600 Kapiolani Blvd., Suite 1401, Pan Am Bldg.,
Honolulu, Hawaii 96814

Sept. 9 92

PAY

*****TWENTY FIVE AND NO/100***

$ 25.00

VOID AFTER 1 YEAR

TO THE ORDER OF

State of Hawaii
Commission Water Resource Management
Department of Land and Natural Resources
Honolulu, HI 96809

Minami Group (USA), Inc.

NOTE: PLEASE DETACH WHEN DEPOSITING.

NO RECEIPT NECESSARY

DESCRIPTION

Ground Water Application for Water Use Permit

For WUPA 9/17/92
Exhibit III-1  Location Map
Exhibit III-2  Tax Key Map  1"=1230'
**DRILLER'S REPORT**

**DESCRIPTION**

Date of report: June 06, 1988  
Person filing report: L.H. Runnells  

A. OWNER: Minami Group USA  
NAME: Minami Well #2  
ISLAND: Oahu

B. GENERAL LOCATION: Kailua Koolau Pano

C. DRILLING COMPANY: Roscoe Moss Company

D. TYPE OF RIG: 24L  
DRILLING COMPLETED: 06-88  
DIV. OF WATER & LAND DEVELOPMENT

E. ELEVATION, msl: Top of drilling platform: 246.0 ft.  
Bench mark and method used to determine height of drilling platform above ground surface: 0 ft. elevation.

F. HOLE SIZE: 1.4 inch dia. to 130 ft. below drilling platform.  
1.0 inch dia. to 80 ft. below drilling platform.

G. CASING INSTALLED: 1.0 in. I.D. x 314 ft. wall solid section to 40 ft. below drilling platform.  
1.0 in. I.D. x 312 in. wall perforated section to 120 ft. below drilling platform.  
Type of perforation: Louver

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

I. PERMANENT PUMP INSTALLATION:

- Pump type, make, serial no.  
- Capacity g.p.m.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below which elevation is ft.
- Depth of bottom of airline ft. below which elevation is ft.

**HYDROLOGY**

J. INITIAL WATER LEVEL: 27 ft. below drilling platform.  
Date: 05-24-88

K. INITIAL CHLORIDE: 30 ppm, total depth of well ft. below drilling platform.

L. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Start water level</th>
<th>ft. below R. P.</th>
<th>Start water level</th>
<th>ft. below R. P.</th>
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<tbody>
<tr>
<td>Date</td>
<td>Date</td>
<td>Date</td>
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<tr>
<td>05-26-88</td>
<td>05-26-88</td>
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**SUBSURFACE FORMATION**

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<th>Rock Description &amp; Remarks</th>
<th>Water Level, ft.</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level, ft.</th>
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<td>Red Mud</td>
<td>to</td>
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<tr>
<td>10 to 60</td>
<td>Brown Mud</td>
<td>to</td>
<td>to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 to 90</td>
<td>Brown Mud &amp; Cinders</td>
<td>to</td>
<td>to</td>
<td></td>
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<tr>
<td>90 to 130</td>
<td>Brown Mud &amp; Cinders</td>
<td>to</td>
<td>to</td>
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<tr>
<td></td>
<td>Blue Pebbles</td>
<td>to</td>
<td>to</td>
<td></td>
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**FOR DRILLER'S USE**

Job Name:  
Job No.:  

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


**FOR C**

Latitude: 21° 23' 04"  
Longitude: 157° 47' 44"

Well No.: 0347-0283
May 26, 1988  MINAMI WELL #2  2347-03

TEST PUMPING RATE 400 GPM

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<td>16'9&quot; Start</td>
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<td>8:50</td>
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<td>16'9&quot;</td>
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<tr>
<td>12:00 Noon</td>
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<tr>
<td>2:00 PM</td>
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05/27/88

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<td>6.01</td>
<td>16'9½&quot;</td>
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<td>28.60</td>
<td>5.55</td>
<td>16'10 3/8&quot;</td>
</tr>
<tr>
<td>12:00 Noon</td>
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<td>5.55</td>
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Recovered from 28.40 to 30.75 20 seconds.
One of our high priorities is to be completely prepared to takeover by May when rules expected to be adopted. Please see me to prepare.
Mr. Manabu Tagomori  
Manager-Chief Engineer  
Department of Land and Natural Resources  
Division of Water and Land Development  
P. O. Box 373  
Honolulu, Hawaii 96809

Dear Mr. Tagomori:

Subject: Well Use Permit to Minami Group USA, Inc.

We forward for your information and files, copies of the well application and the approved well drilling permit issued to Minami Group USA, Inc. for the drilling of a second, non-potable well for irrigation of a proposed golf course in Kaneohe.

If you have any questions, please call Chester Lao at 527-5276.

Very truly yours,

HERBERT H. MINAKAMI  
Chief, Planning and Engineering Division

Enclosures
TO: Minami Group USA, Inc.
1001 Bishop Street, Suite 2700
Honolulu, Hawaii 96813

Your application of February 17, 1988 has been approved in accordance with our Rules and Regulations for the Protection, Development and Conservation of Water Resources in the City and County of Honolulu.

You are hereby granted a permit to drill a second shallow, non-potable well at TMK: 4-5-42:1.

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

1. The Board of Water Supply (Hydrology-Geology Section) shall be notified before any work covered by this permit commences.

2. This permit will be valid upon receipt by the Board of Water Supply of a permittee bond in the amount of $2,000.00 in accordance with Rule VI, Sec. 2, of these Rules and Regulations.

3. Upon completion of the test well, a driller's report of formations, water levels, and yield shall be submitted to the Board of Water Supply.

4. A drawing of the as-built well shall be submitted at the completion of construction.

KAZU HAYASHIDA
Manager and Chief Engineer
Board of Water Supply

Date of Permit

3/4/88
Mr. Kazu Hayashida  
Manager and Chief Engineer  
Board of Water Supply  
630 South Beretania Street  
Honolulu, Hawaii 96813  

Subject: Minami Golf Course  
Well (No. 2) Drilling Permit

On behalf of our client, Minami Group (USA), Inc., we are trans­mitting for your approval an application for a well drilling permit. Enclosed is a check for $100.00 for the drilling fee.

The proposed well is an exploratory well and, if successful, will be utilized as a nonpotable water source for irrigation of the proposed golf course.

Very truly yours,

Kenneth Ishizaki, P.E.  
Vice President

bs  
Encl:

cc: Mr. Masayuki Ikumo  
Mr. Rodney Fujiyama
APPLICATION FOR DRILLING, MODIFYING, RECASING OR REUSING WELLS

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

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

Minami Group USA, Inc.

ADDRESS: 1001 Bishop Street, Suite 2700

Honolulu, Hawaii 96813

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

   Drill   X   Reuse   __________
   Modification   __________   Recase   ______
   Change in use   ______

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

   Water Resources International, Inc.

   2828 Paa Street, Suite 2085

   Honolulu, Hawaii 96819
3. USE OF WELL: (See Chapter III, Sec. 3-305, Item 1c)

Drilling of a test well (no. 2) to investigate the possibility of developing a nonpotable water source for irrigation of a proposed golf course. Quantity desired:

1.0 MGD.

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

a. Location of well: Kaneohe, Oahu, Hawaii
   Tax Map Key: 4-5-42:1

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

   See attachment.

c. Description of well and appurtenant details:
   (See Chapter III, Sec. 3-305, Item 1e)

   See attachment.
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

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

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

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

February 17, 1988
Date Submitted
Signature of Owner
Name of applicant if other than Owner
Elevation at top of casing
301 ft., MSL

Ground Elev. 300± ft., MSL*

Cement
Grout 70 ft.

Hole
Dia. 12 in.

Total
Depth 170 ft.

Rock
Packing 100 ft.

Solid casing:
Material Steel
Length 71 ft.
Diameter 8 in.
Wall thickness 0.3 in.

Casing: ☐ Perforated ☒ Screen
Material Steel
Length 100 ft.
Diameter 8 in.
Wall thickness 0.3 in.
Openings 5 sq in/LF

* Approximate elevation at filling.
Final elevation (MSL) by a surveyor licensed by the State must be submitted at start of construction.

PROPOSED SECTION OF WELL

MINAMI WELL NO. 2

DESCRIPTION OF WELL

DATE: JAN 1988