COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 1/22/10

FROM: RYAN
DATE: 10/11/10
SUSPENSE DATE: ________________

TO: CHENG, C.
TO: CHONG, R.
TO: DANBARA, S.
TO: FUJII, N.
TO: HARDY, R.
TO: HOAGBIN, S.
TO: ICE, C.
TO: IMATA, R.

INIT. KIMURA, J.
INIT. KUNIMURA, I.
INIT. OHYE, L.
INIT. OSHIRO, K.
INIT. UYENO, D.
INIT. YODA, K.
INIT. YOSHINAGA, M.

FOR: Approval
FOR: 3 Signature
FOR: Information
FOR: 3 Take Action
FOR: Type Draft
FOR: 2 Type Final
FOR: File
FOR: Xerox __ copies

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

WELL NUMBER 2485-06
WELL NAME Dallou

application type BOTH
1 WCP COVER LETTER
2 WCP
3 WELL CHECK PRINTOUT
proposed well section issues?

4 PIP COVER LETTER
5 PIP

COMMENTS: date rec'd
issues?
if checked, send to applicant
1 SDWB
2 WWB
3 CWB
4 HEER
5 LD
6 HP
7 LUC
8 OCCL
9 SMA
10 BWS (Oahu)

NOTES:
DRILLER Rod Diamond
Diamond Construction and Water Well Drilling
23379
HCR#3 Box 14073
Keeau HI 96749
phone 966-4129
fax 966-4129
cell 987-8100

TMK 1-2-034:086
PUMP CAPACITY 20
WELL OWNER Cynthia Dallou
LAND OWNER Cynthia Dallou
COMMENT DEADLINE 10/24/10
90-DAY DEADLINE 10/24/10
Mr. Rod Diamond  
Diamond Construction and Water Well Drilling  
HCR #3 Box 14073  
Keeau, HI 96749

Dear Mr. Diamond:

Pump Installation Permit  
Dallou Well (Well No. 2485-06)

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.

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: Cynthia Dallou (with applicable comments – DOH WWB, CWB)
PUMP INSTALLATION PERMIT
Dallou Well, Well No. 2485-06

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 Dallou Well (Well No. 2485-06) at TMK 1-2-034:086, Hawaii, 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 20 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: October 24, 2010
Expiration Date: October 24, 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 #: BC-23379 Date: ________________
Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachments
Mr. Rod Diamond  
Diamond Construction and Water Well Drilling  
HCR#3 Box 14073  
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction Permit  
Dallou Well (Well No. 2485-06)

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/cwrm/forms.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 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70255.

Sincerely,

Laura H. ThieLEN  
Chairperson

Enclosures

c: Cynthia Dallou (with applicable comments – DOH WWB, CWB)
WELL CONSTRUCTION PERMIT

Dallou Well, Well No. 2485-06

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 Dallou Well (Well No. 2485-06) at TMK 1-2-034:086, Hawaii, 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/ewrm/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.
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/ewrm/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(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: October 24, 2010
Expiration Date: October 24, 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 #: BC-23379 Date: __________

Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachment
## Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Well Number</th>
<th>2485-06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Name</td>
<td>Dallou</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>112</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>83</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>8.5</td>
</tr>
<tr>
<td>Total Depth</td>
<td>118</td>
</tr>
<tr>
<td>Water Level</td>
<td>4 Depth to water 108</td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>PVC plastic</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>Schedule 40</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>112</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>4.5</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.000</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>6</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth
- Theoretical Thickness of Aquifer: 164
- 1/4 Aquifer Thickness: 41
- **Depth of Well below Sea Level**: -6 **okay** Section 2.2

#### Well Casing
- Minimum Wall Thickness Material: PVC plastic
- **Minimum Wall Thickness per standards**: no requirement
- **Wall Thickness Provided**: 0 **no standard** Section 2.4(b)
- Minimum Length of Solid Casing: 97.2
- **Length of Solid casing Provided**: 112 **okay** Section 2.4(c)
- **Casing Material**: Schedule 40 in compliance Section 2.4(d)
- **(for PVC only - check for 200' limit)**: okay Section 2.4(d)

#### Annular Space
- **Depth of Grouting**: 75.6
- **Calculated Depth of Grouting**: 83 **okay** Section 2.6(c)
- **Minimum Annular Space required**: 2
- **Thickness of Annular Space**: 2 **okay** Section 2.6(d)
TO: Morris Atta, Administrator  
Land Division

FROM: Lenore N. Ohye, Acting Deputy Director  
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
Dallou Well (Well No. 2485-06) TMK 1-2-034:086

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 October 24, 2010. 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.

XX 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

XX Other comments: Original source of private title is Grant 5165 issued prior to statehood.

Contact Person: Gary Martin  
Phone: 587-0421

Signed: Gary Martin  
Date: 10/13/10
Subject: National Pollutant Discharge Elimination System Regulations for the Well Construction/Pump Installation Permit Application(s) for the Subject Well(s)

Dear Mr. Imata:

The Department of Health, Clean Water Branch (CWB) has the following comments for the subject well:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules (HAR), Title 11, Chapter 55, Appendix I, effective October 22, 2007, and compiled June 15, 2009. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewater, and well purge wastewater. This general permit does not cover well pump testing. The applicable Notice of Intent (NOI) Forms and filing fee shall be submitted at least 30 calendar days before the start of discharge to the:

Department of Health
Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, Hawaii 96814-4920

The CWB-NOI Forms are available online at http://www.hawaii.gov/health/environmental/water/cleanwater/forms/genl-index.html. Inquiries may be directed to the CWB at (808) 586-4309 or by fax (808) 586-4352.

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the
discharger must obtain written permission from the owner of the storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

3. For Construction Activities Disturbing One (1) or More Acres of Total Land Area

By HAR, Title 11, Chapter 55, Appendix C, effective October 22, 2007, and compiled June 15, 2009, an NPDES permit or Notice of General Permit Coverage is required before the start of the construction activities that result in the disturbance of one (1) or more acres of total land area, including clearing, grading, and excavation. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. An NOI (see Comment No. 1, above) shall be submitted 30 calendar days before the start of construction activities.

Thank you for the opportunity to comment,

Joanna

Joanna L. Seto
Engineering Section Supervisor
Clean Water Branch
State of Hawaii Department of Health
Phone: (808) 586 - 4309
Fax: (808) 586-4352

Notice: This information and attachments are intended only for the use of the individual(s) or entity to which it is addressed, and may contain information that is privileged and/or confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited and may be punishable under state and federal law. If you have received this communication and/or attachments in error, please notify the sender via e-mail immediately and destroy all electronic and paper copies.
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAI'I 96809

September 22, 2010

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Acting 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
Dallou Construction (Well No. 2485-06) TMK 1-2-034:086
Well address: Kalapana Sea View Estates

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 October 24, 2010. 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 an attorney of the Commission staff at 587-0255.

R: 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 20 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 services 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: Jerry Nunogawa, Eng. in Hilo

Signed: [Signature]

Date: 9/27/2010
<table>
<thead>
<tr>
<th>IWS Permits</th>
<th>General Search</th>
<th>Building Permits</th>
<th>Cesspool Cards</th>
<th>CWDA Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Find Permit</td>
<td>Find TMK/Street</td>
<td>Find BPA</td>
<td>Find Cesspool Card</td>
<td>Find CWDA Zone</td>
</tr>
<tr>
<td>Pending Review</td>
<td>Plan Approved Use Approved Terminated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMK/Street Search</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permit ID: 44815</td>
<td>IWS Type: Septic Tank</td>
<td>Assigned To: Nunogawa, Jerry</td>
<td>Source: eHawaii</td>
<td></td>
</tr>
<tr>
<td>Legacy File #: N/A</td>
<td>Island: Hawaii</td>
<td>Status: Plan Approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eHawaii ID: 1735</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variance ID:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineer: Paul A Nash</td>
<td>TMK: 012034086</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Street Address: 12-106 West Moanalua Loop</td>
<td>Street Address 2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suite/Apt.:</td>
<td>City: Kalapana Seas View Estates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payment Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payment Type: Credit Card</td>
<td>Check Number:</td>
<td>Amount: 92.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check Date: 7/25/2010</td>
<td>Payor: PAUL NASH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approval to Build</td>
<td>Exception Report</td>
<td>Inspection Deficiency Report</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### IWS System Information

#### Septic Tank Information
- **Septic Tank Liquid Volume:** 1000 gal.
- **Manufacturer:** Chem-Tainer of Hawaii
- **Inspection Port(s) to grade:**
- **Manhole openings brought to grade:**
- **Remarks:**

#### Soil Profile Information
- **Percolation Rate:** 1
- **Minimum Soil Absorption:** 70 sq. ft./bd
- **3' Groundwater Setback:**
- **Total Min. Soil Absorp. Required:** 210 sq. ft.
- **Total Soil Absorp. Provided:** 216 sq. ft.

#### Soil Absorption Information
- **Soil Absorption Bed**
  - **Length:** 10 ft
  - **Width:** 12 ft
  - **3' Soil Replacement:**
  - **Total Bed Area:** 216 sq. ft.
- **Soil Absorption Trenches**
  - **Length:**
  - **Width:**
  - **# of Trenches:**
- **Seepage Pit**
  - **Diameter:**
  - **Depth:**
  - **Lining Type:**
  - **Access Opening:**
  - **Cover Diameter:**
OWNER SHALL PREVENT VEHICULAR TRAFFIC OVER SEPTIC SYSTEM

OWNER: RAYMOND AND CYNTHIA DALLOU
TMK: (3) 1-2-034: 08
LOT SIZE: 8,789 S.F.
LOCATION: 12-106 WEST MOANALU LOOP.
KALAPANA SEA VIEW ESTATES, PAHOA, PUNA
NO. BEDROOMS: THREE

NOTE: MINIMUM SEPARATIONS FOR SEPTIC TANK
PROPERTY LINE - 5'
BUILDING LINE - 5'
STREAM OR POND - 50'
LARGE TREES - 5'
SEEPAGE PIT - 5'

NOTE: MINIMUM SEPARATIONS FOR
SOIL ABSORPTION SYSTEM
PROPERTY LINE - 5'
BUILDING LINE - 5'
STREAM OR POND - 50'
LARGE TREES - 10'
SEEPAGE PIT - 5'

ONLY CONTRACTORS WITH THE FOLLOWING LICENSES ARE PERMITTED TO CONTRUCT
SEPTIC SYSTEMS: C-9 CESPOOL, C-37 PLUMBING,
C-37a SEWER AND DRAIN LINE, C-43 SEWER,
SEWER DISPOSAL, DRAIN AND PIPE LAYING, AND
"A" GENERAL.

CONTRACTOR CANNOT BEGIN CONSTRUCTION
OF SEPTIC SYSTEM UNTIL AFTER APPROVAL OF
BUILDING PERMIT.

SITE PLAN FOR SEPTIC SYSTEM
(2)
<table>
<thead>
<tr>
<th>ATTACHMENTS FOR APPLICATION PROCESSING</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 TRANS. LETTER</td>
<td></td>
</tr>
<tr>
<td>2 PERMIT PROCESS TABLE</td>
<td></td>
</tr>
<tr>
<td>3 CWRM MAPS</td>
<td></td>
</tr>
<tr>
<td>4 APPL. FORM (11 COPIES)</td>
<td></td>
</tr>
<tr>
<td>5 USGS MAPS (11 COPIES)</td>
<td></td>
</tr>
<tr>
<td>6 TAX MAPS (11 COPIES)</td>
<td></td>
</tr>
<tr>
<td>7 PARCEL OWNER VERIF.</td>
<td></td>
</tr>
<tr>
<td>8 CONTRACTOR VERIF.</td>
<td></td>
</tr>
<tr>
<td>9 ALL INFO FILLED IN</td>
<td></td>
</tr>
<tr>
<td>10 BACKGROUND CHECK</td>
<td></td>
</tr>
<tr>
<td>11 $25 FEE DEPOSIT SLIP</td>
<td></td>
</tr>
<tr>
<td>12 DHP/CDUP/SMA pre-screen</td>
<td>(SMA map printout <a href="http://gis.hicentral.com/website/parcelzoning/viewer.htm">http://gis.hicentral.com/website/parcelzoning/viewer.htm</a>, or INGRID'S SMA/CD MAP) (LUC map printout <a href="http://luc.state.hi.us/luc_maps.htm">http://luc.state.hi.us/luc_maps.htm</a>, or INGRID'S SMA/CD MAP)</td>
</tr>
</tbody>
</table>

Folder:
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

<table>
<thead>
<tr>
<th>DATE</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
September 22, 2010

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR #3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 2485-06

We acknowledge receipt, on July 26, 2010, of your completed Well Construction/Pump Installation permit application and filing fee for the Dallou Well (Well No. 2485-06). You can expect your application to be processed within ninety (90) days from this date.

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 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

LENORE N. OHYE
Acting Deputy Director

RI:ss
Attachment
c: Cynthia Dallou
September 22, 2010

TO: Honorable Chiyoue L. Fukino, M.D., Director
Department of Health
Attention: Acting 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. Thieilen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Dallou Well (Well No. 2485-06) TMK 1-2-034:086
Well address: Kalapana Sea View Estates

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 October 24, 2010. 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 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: Phone: -------------------------------------------- ------------------

Signed: __________________ _ Date: _________
September 22, 2010

TO: Morris Atta, Administrator
Land Division

FROM: Lenore N. Ohye, Acting Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Dallou Well (Well No. 2485-06) TMK 1-2-034:086

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 October 24, 2010. 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: __________
September 22, 2010

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 October 24, 2010. 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: ______________
<table>
<thead>
<tr>
<th><strong>GENERAL LICENSEE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIC ID:</strong> CT-23379</td>
</tr>
<tr>
<td><strong>Active/Inactive:</strong> ACTIVE</td>
</tr>
<tr>
<td><strong>NAME:</strong> RODNEY K DIAMOND</td>
</tr>
<tr>
<td><strong>TRADE NAME:</strong></td>
</tr>
<tr>
<td><strong>STATUS:</strong> CURRENT, VALID &amp; IN GOOD STANDING</td>
</tr>
<tr>
<td><strong>ENTITY:</strong> INDIVIDUAL</td>
</tr>
<tr>
<td><strong>BUSINESS CODE:</strong> SOLE OWNER</td>
</tr>
<tr>
<td><strong>ORIG LIC DATE:</strong> 10/12/2001</td>
</tr>
<tr>
<td><strong>EXPIRE DATE:</strong> 09/30/2012</td>
</tr>
<tr>
<td><strong>CLASS PREFIX:</strong> BC</td>
</tr>
<tr>
<td><strong>SPECIAL PRIVILEGE:</strong></td>
</tr>
<tr>
<td><strong>RESTRICION:</strong></td>
</tr>
<tr>
<td><strong>EDUCATION CODE:</strong></td>
</tr>
<tr>
<td><strong>CONDITIONS AND LIMITATIONS:</strong></td>
</tr>
<tr>
<td><strong>BUSINESS ADDR:</strong> HCR #3 BOX 14073 KEAAU HI 96749</td>
</tr>
<tr>
<td><strong>MAILING ADDR:</strong></td>
</tr>
</tbody>
</table>

Click here to enter search criteria for prior complaints history ->

For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.
<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo Tnr</th>
<th>Address</th>
<th>Owner/Lessee</th>
<th>Bds</th>
<th>Bths</th>
<th>Land area</th>
<th>Liv area</th>
<th>Last Sale Instr</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1-2-34-86</td>
<td>Kalapana Sea F</td>
<td>MOLITCH 97 TR 0 0 8,789 sqft</td>
<td>07/19/2010 DEED</td>
<td>$40,00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assessed values and Building Details reflect tax year 2010 for all islands. Taxes reflect tax year 2009.

Search criteria: TMK Taxkey 3-1-2-34-86

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.

Copyright ©9/21/2010 by Hawaii Information Service
<table>
<thead>
<tr>
<th>F.YR</th>
<th>APP</th>
<th>D</th>
<th>SRC/ OBJ</th>
<th>COST CTR</th>
<th>PROJECT</th>
<th>PH ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>11</td>
<td>326</td>
<td>C 1026</td>
<td>0752</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(1)</td>
<td>$25.00 Lorrie Diamond</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2)</td>
<td>$25.00 Lorrie Diamond</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(3)</td>
<td>$25.00 Lorrie Diamond</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(5)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(6)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(8)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(9)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(10)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** $ 75.00

**REMARKS:**

LINE (1) Opihi Well
LINE (2) Smith Well
LINE (3) Dallou Well
For Official Use Only:
RECEIVED
COMMISSION ON WATER RESOURCE MANAGEMENT
2010 JUL 26 PM 1:52

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 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 808-622-25. 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)
2. WELL NAME
3. ISLAND
4. TAP
ZONE
5. WELL OPERATOR'S NAME/COMPANY
6. LANDOWNER'S NAME/COMPANY
7. Well Operator's Contact
same
same
Mollitch 97 Trust / Cynthia Dallou
Landowner's Contact
same
8. WELL LOCATION INFORMATION

PROPOSED WELL CONSTRUCTION

9. Proposed Work:
X Construct New Well.
 bangons of Existing Well.
Abandon/Seal Well.

10. Proposed Pumping Rate, gpm (gallons per minute)
11. Proposed Pumping Rate, pgl (gallons per day)
12. Proposed Amount of Withdrawal, gpd (gallons per day)
13. Method of flow measurement
X Open Pipe
X Weir
X Office
X Other

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) Deferred

1 5. Municipal (water systems serving greater than 25 individuals or 15 service connections)
X Domestic Number of units to be served:
1
16. Irrigation (describe crop and no. of acres)
X Industrial (describe)

18. Other (describe)

19. Military (describe)

20. Other (describe)

OTHER LEGAL REQUIREMENTS If required, items 22 and 23 must be obtained before the Commission can legally issue a permit:

21. Conservation District Use Permit (CDUP)
X Well is in Conservation District
X Well is not in Conservation District

22. Special Management Area Permit (SMAP) X Required, CDUP is date approved
X Not Required

23. Historic Preservation Division (HPD) of the ILNR
X Have consulted with the HPD regarding potential impacts of well drilling activities on historic sites
X Have not consulted with the HPD regarding potential impacts of well drilling activities on historic sites

24. Water Use Permit (WUP) No. (if applicable)
Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

NOTE: Signing below indicates that the signators understand and agree that the information provided is accurate and true to the best of their knowledge. Further, the signators understand that permit approval:
1) the proposed work 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 and any work in progress must be abandoned. For further information, see http://www.hawaii.gov/dlnr/cwrm.

WELL DRILLER (Must be filed if application is for Well Construction) Rodney K Diamond
License/business name: C-2715-ST/STK License No. 7-2-10

PUMP INSTALLER (Must be filed if application is for Pump Installation) Rodney K Diamond
License/business name: C-2715-ST/STK License No. 7-2-10

HCR #3 Box 14073 Keaau HI 96749
Address
987-8100 966-4129
diamond.drilling.pump@gmail.com
Phone Fax
E-mail

HCR #3 Box 14073 Keaau HI 96749
Address
987-8100 966-4129
diamond.drilling.pump@gmail.com
Phone Fax
E-mail

WCR App. Form 5/2008
PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Hole Diameter: 8.5 inches.

Elevation at top of casing 113.0 ft, msl*

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

Ground Elevation: 112.0 ft, msl*

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

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

Total Length: 112.0 ft.
Nominal Diameter: 4.5 in.
Wall Thickness: S40 in.
Bottom Elevation: 0.0 ft, msl*

Open Casing:

Total Length: 6.0 ft.
Nominal Diameter: 4.5 in.
Wall Thickness: S40 in.
Bottom Elevation: 0.0 ft, msl*

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

Open Hole:

Length: NA ft.
Diameter: NA
Bottom Elevation: NA ft, msl*

*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 - 41 x Water Level Elevation / 4)

Example: Estimated + 2 ft. Water Level Elev.>>> Bottom Elevation of Well Limit = (2 — 41 x (2 / 4) = —18.5 ft.

Solid Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/WWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other
Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one) □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one)
□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/WWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other
Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one) □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one)
□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

WCP1 App. Form 5/20/09