

CARLSMITH BALL LLP

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Attorneys for Petitioner
CMBY 2011 INVESTMENT, LLC

BEFORE THE LAND USE COMMISSION

OF THE STATE OF HAWAII

In the Matter of the Petition of

CMBY 2011 INVESTMENT, LLC

To Amend the Agricultural Land Use District
Boundaries into the Urban Land Use District
For Certain Lands Situate at Pulehunui,
District of Wailuku, Island and County of
Maui, State of Hawai'i, consisting of
approximately 86.030 acres, Tax Map Key No.
(2) 3-8-008:019

DOCKET NO. A13-797

PETITIONER'S FIRST LIST OF
WITNESSES; PETITIONER'S FIRST
LIST OF EXHIBITS; EXHIBITS 12, 14,
16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38,
39, 40, 41, 42; CERTIFICATE OF
SERVICE

**PETITIONER'S FIRST LIST OF WITNESSES; PETITIONER'S FIRST LIST OF
EXHIBITS; EXHIBITS 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 39, 40, 41, 42;
CERTIFICATE OF SERVICE**

**LAND USE COMMISSION DOCKET A13-797,
PETITIONER CMBY 2011 INVESTMENT LLC FIRST LIST OF WITNESSES**

	NAME ORGANIZATION	TO BE QUALIFIED AS AN EXPERT IN:	SUBJECT MATTER	WRITTEN TESTIMONY (Yes or No)	EXHIBITS	LENGTH OF DIRECT
1.	Glenn Tadaki Chris Hart & Partners, Inc.	Land use planning and environmental review	Project planning, environmental impacts and land use	Yes, Exhibit 35	1, 2, 3, 5, 9, 10, 34, 35, 39, 40	25 minutes
2.	Phillip L. Bruner	Biology	Project bird and mammal surveys	Yes, Exhibit 13	1, 12, 13	N/A
3.	Robert W. Hobby	Biology	Project nene survey; project arthropod study	Yes, Exhibit 15	1, 14, 15	N/A
4.	Maya LeGrande LeGrande Biological Surveys Inc.	Botany	Project botany and endangered plant species	Yes, Exhibit 17	1, 16, 17	10 minutes
5.	Michael F. Dega, Ph.D. Scientific Consultant Services Inc.	Archaeology/Historic Preservation	Project archaeology, historic and cultural impacts	Yes, Exhibit 19	1, 18, 19	10 minutes

	NAME ORGANIZATION	TO BE QUALIFIED AS AN EXPERT IN:	SUBJECT MATTER	WRITTEN TESTIMONY (Yes or No)	EXHIBITS	LENGTH OF DIRECT
6.	John S. Vuich Malama Environmental	Geological engineering	Review of Phase 1 environmental assessment	Yes, Exhibit 25	1, 24, 25	10 minutes
7.	Stacy Otomo Otomo Engineering, Inc.	Civil engineering	Project engineering	Yes, Exhibit 29	1, 28, 29, 40, 42	15 minutes
8.	Tom Nance Tom Nance Water Resource Engineering	Groundwater and surface water development Hydraulics and water system design Flood control and drainage Coastal engineering	Project hydrology and water resource engineering	Yes, Exhibit 37	1, 36, 37, 41, 42	15 minutes
9.	Phillip Rowell Phillip Rowell and Associates	Traffic engineering	Project traffic	Yes, Exhibit 31	1, 30, 31	10 minutes
10.	Yoichi Ebisu Y. Ebisu & Associates	Noise	Project noise impacts	Yes, Exhibit 21	1, 20, 21	10 minutes
11.	Barry Neal B.D. Neal & Associates	Air quality	Project air quality impacts	Yes, Exhibit 23	1, 22, 23	10 minutes

	NAME ORGANIZATION	TO BE QUALIFIED AS AN EXPERT IN:	SUBJECT MATTER	WRITTEN TESTIMONY (Yes or No)	EXHIBITS	LENGTH OF DIRECT
12.	Glenn K. Kuniyama, MAI, CRE ACM Consultants, Inc.	Market and Economic/Fiscal Analysis	Project market, economic and fiscal issues, to include impacts on agricultural activities	Yes, Exhibit 27	1, 26, 27, 39, 40	15 minutes
13.	Charles Jencks CMBY 2011 Investment, LLC	Planning, permitting, Project feasibility	Project overview, finance and development	Yes, Exhibit 33	1, 3, 4, 5, 6, 7, 9, 10, 11, 32, 33, 38, 39, 40, 41, 42	30 minutes

**LAND USE COMMISSION DOCKET A13-797,
PETITIONER CMBY 2011 INVESTMENT LLC FIRST LIST OF EXHIBITS**

EX NO.	DESCRIPTION	PARTY OBJECTIONS	ADMIT
Petitioner's Exhibits 1 - 11 were filed with the Petition For Land Use District Boundary Amendment in Docket A13-797 on May 3, 2013, and served on all parties.			
1.	Final Environmental Assessment		
2.	November 28, 2012, letter from County of Maui Department of Planning to Mr. Gary Hooser, Director, Office of Environmental Quality Control		
3.	Maui Island Plan, Maps I-12 and I-13		
4.	Authorization of CMBY 2011 Investment, LLC		
5.	Tax map showing Petition Area		
6.	Limited Warranty Deed dated March 17, 2011		
7.	Title Report dated March 1, 2013		
8.	Notification of Petition Filing		
9.	Written Comments (Feb. 18, 2013 and March 7, 2013, Petitioner's correspondence to Kihei Community Association; March 11, 2013, Petitioner's correspondence to Director William Spence; March 22, 2013, Director William Spence's correspondence to Petitioner)		

EX NO.	DESCRIPTION	PARTY OBJECTIONS	ADMIT
10.	DLNR Staff Report, April 12, 2013		
11.	Balance sheet and income statement dated January 1, 2013		
12.	Resume of Phillip L. Bruner		
13.	Written direct testimony of Phillip L. Bruner		
14.	Resume of Robert W. Hobdy		
15.	Written direct testimony of Robert W. Hobdy		
16.	Resume of Maya LeGrande		
17.	Written direct testimony of Maya LeGrande		
18.	Resume of Michael F. Dega		
19.	Written direct testimony of Michael F. Dega		
20.	Resume of Yoichi Ebisu		
21.	Written direct testimony of Yoichi Ebisu		
22.	Resume of Barry Neal		

EX NO.	DESCRIPTION	PARTY OBJECTIONS	ADMIT
23.	Written direct testimony of Barry Neal		
24.	Resume of John S. Vuich		
25.	Written direct testimony of John S. Vuich		
26.	Resume of Glenn Kunihiisa		
27.	Written direct testimony of Glenn Kunihiisa		
28.	Resume of Stacy Otomo		
29.	Written direct testimony of Stacy Otomo		
30.	Resume of Phillip Rowell		
31.	Written direct testimony of Phillip Rowell		
32.	Resume of Charles Jencks		
33.	Written direct testimony of Charles Jencks		
34.	Resume of Glenn Tadaki		
35.	Written direct testimony of Glenn Tadaki		

EX NO.	DESCRIPTION	PARTY OBJECTIONS	ADMIT
36.	Resume of Tom Nance		
37.	Written direct testimony of Tom Nance		
38.	June 13, 2013 letter from A&B Properties, Inc. regarding field inspection of Petition Area		
39.	Maui County Ordinance No. 3977		
40.	Power point presentation "Puunene Heavy Industrial Subdivision"		
41.	November 8, 2012 Commission on Water Resource Management Well Construction Permit and Pump Installation Permit for CMBY Wells 1 & 2 (Nos. 6-4927-002 and 003)		
42.	Well Infrastructure Site Plan		

Resume (Short Version)

Name: Phillip L. Bruner

Employer: Brigham Young University Hawaii
1978-present

Position: Associate Professor of Biology
Director, BYUH Museum of Natural History

Other Work Experience:

Faunal Surveys (Bird and Mammal) 489 reports for EA and EIS
(1978 to present)

Faunal Surveys conducted in: Hawaii, Japan, Taiwan, Micronesia, Indian Ocean

Publications: Books

Field Guide to the Birds of French Polynesia
Pacific Scientific Information Center B.P. Bishop Museum, Honolulu. 135pp.

A Field Guide to the Birds of Hawaii and the Tropical Pacific,
Princeton University Press, New Jersey. 500pp.

In Prep.: Birds of the Tropical Pacific: Hawaii, Micronesia and Polynesia.
Princeton University Press, New Jersey

Other: Scientific Publications and Presentations. (78 peer reviewed papers)

Other Professional Activity:

Animal Species Advisory Commission (Governor John Waihee Administration)
President Hawaii Audubon Society
Chair, Grants and Scholarship Committee Hawaii Audubon Society

Robert W. Hobdy
Environmental Consultant
2560-B Pololei Place Haiku Maui, Hawaii 96708
hm ph 573-8029 d.o.b. 09/06/42 email: hobdyr001@hawaii.rr.com

Education: Bachelor of Forestry, Oregon State University – 1965

Employment: State of Hawaii
Department of Land and Natural Resources
Division of Forestry & Wildlife
37 ½ years
Highest Position – District Manager / Maui County

Botanical Experience

- Exposure to a distinguished botanist at the age of 15 (1957) where I developed a personal interest in plants.
- Undergraduate courses in botany in college.
- Worked with and managed forest resources throughout my career with special focus on native and Endangered species and their ecosystems, watershed management, timber species, invasive weeds and plant pests and disease management
- Collaborated with sister resource management agencies and organizations, universities, museums and visiting scientists.
- Made extensive collections of plants for the Bishop Museum and other institutions documenting native plants and weeds and their distribution. Discovered twelve new species of native plants, two of which I described in scientific publications and five of which were named after me by other botanists.
- Serving on the Maui County Arborist Advisory Committee for over 30 years.
- Serving on the Board of Directors of the Maui Nui Botanical Gardens
- Served on a Federal Weed Risk Assessment advisory committee
- Serving on the Maui Invasive Species Committee since 1991
- Opened an environmental consulting business in 2004, specializing in flora and fauna surveys, wetland surveys and site evaluations.

Wildlife experience

- Worked alongside professional wildlife biologists throughout my career, participating in game species census and forest bird surveys.
- Worked alongside entomologists, malacologists, and aquatic and marine biologists doing species documentation and making habitat assessments.
- Administered public hunting programs, pest species eradication programs and forest bird and Endangered Species habitat management and recovery programs.

Other

- Have personal expertise in all the islands in Maui County with regard to names, places, terrain, natural resources, land ownership and people.
- Am familiar with government systems, jurisdictions and people.
- Have experience in public relations, collaboration, consensus building and conflict management
- Am familiar with environmental Laws and rules and their application.

RESUME

Maya Lani LeGrande, President

Education

2006	University of Hawai'i at Manoa	MS Botanical Science
1998	University of Hawai'i at Manoa	BS Botanical Science
1991	Punahou High School	HS Diploma

Professional Experience

2000-2004	Char and Associates Contract Botanist for plant surveys regarding EIS and EA reports throughout the state of Hawai'i.
2005-present	LeGrande Biological Survey Inc President of botanical consulting business started in January 2005.

Land Use Commission Expert Witness Testimonies

2005	Kapolei West, Oahu (Helber Hastert & Fee, Planners) Botanical expert witness for Aina Nui Corporation
2007	Po'ipulani Project, Koloa District, Kauai (PBR) Botanical expert witness for Eric A. Knudsen Trust
2009	Hawaii Memorial Park Expansion Botanical expert witness for Hawaii Memorial Park
2010	Ho'opili Project, Kapolei, Oahu Botanical expert witness for Schuler Homes

Selected Recent Projects

2005	Makuu Residential Subdivision, Puna, Hawaii. Environet, Inc. Botanical survey and report preparation for DHHL housing development
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Aviator Recovery Project, Koolau Mountains, Oahu

TEC, Inc.

Botanical survey and report preparation for NAVFAC recovery project.

Coconut Beach Resort Development, Waipouli, Kauai

CM&D Hawaii

Botanical Survey and report preparation for AA Capital Partners LLC

Nanakuli Landfill, Oahu

URS Corporation

Botanical survey and report preparation for proposed Nanakuli Landfill

Hawaii Raceway Park, Oahu

CM&D Hawaii

Botanical survey and report preparation for Lokahi Ventures

Waimano Ridge Subdivision, Oahu

CDS International

Botanical survey and report preparation for Department of Health

Kamehameha Schools Preschool Project, Wailua, Kauai

Belt Collins Hawaii, Ltd.

Botanical survey and report preparation for Kamehameha Schools

Proposed Instrument Landing & Approach Lighting System at Kalaeloa Airport

Native American Technology Corporation

Botanical survey and report preparation

2006

East Kapolei Development, Oahu

PBR Hawaii

Botanical survey and report preparation for D. Horton Schuler

Wailea 670, Wailea, Maui

SWCA Environmental Consultants

Botanical survey and report preparation for PBR Hawaii

Po'ipulani Project, Koloa, Kauai

PBR Hawaii

Botanical survey and report preparation for Eric A. Knudsen Trust

Honolulu High-Capacity Transit Corridor Project, Oahu

Parsons Brinkerhoff

Botanical and wetland survey and report preparation for Oahu Rapid Transit Project

Heeia Fishpond Caretaker's Residence

Kauahikaua & Chun/ Architects

Botanical survey and report preparation for Helber, Hastert, & Fee

Ewa Industrial Park
Ewa Industrial Park
Botanical survey and report preparation

Whitmore Development Project, Oahu
Castle & Cooke Hawaii
Botanical & Faunal Resource Assessment- 300 Acres

NAVFAC Pacific – Environmental Planning to Support Forward Basing Initiatives (5 year Contract)
TEC, Inc.
Provide environmental planning services in the preparation of environmental impact documents and studies.

2007

Hale Kipa Residential Center, Oahu
R.M. Towill Corporation –
Botanical survey and report preparation for R.M. Towill Corporation.

Makakilo Drive Extension, Oahu
R.M. Towill Corporation
Botanical survey and report preparation for proposed Makakilo Drive extension

Honolulu High-Capacity Transit Corridor Project, Oahu
Parsons Brinkerhoff
Botanical and wetland survey and report preparation for Oahu Rapid Transit Project

Punaluu Farm Lots, Oahu
R.M. Towill Corporation
Botanical survey and report preparation for clients preparing to purchase property

DHHL Wailua Housing Development, Kauai
Environet, Inc
Botanical survey and report preparation for proposed housing development

Marconi Point Farm Lots, Oahu
R.M. Towill Corporation
Botanical survey and report preparation

DHHL Projects: Hoolehua High School, Molokai & Maili Property, Oahu
SWCA
Botanical survey and report preparation for land swap

2008

Wailea 670 Development Project, Maui
SWCA
Mapping native plant species within project area and determine priority species for preservation and mitigation on the site.

Hokulia, Hawaii

SWCA

Botanical survey and report preparation for rezoning application by client

Kahuku Village Subdivision Project, Oahu

RM Towill Corporation

Flora & Fauna survey and report preparation

Ohikilolo Makai Parcels, Oahu

Helber Hastert and Fee, Planners

Botanical survey and report preparation for proposed land division

Marconi Road Improvements, Oahu

R.M. Towill Forporation

Flora & Fauna survey and report preparation for road widening and improvements

Big Surf Estate, Kona, Hawaii

SWCA

Wetland Delineation of Anchialine ponds on private property

2009

Bellows Air Force Station, MMRP Site Investigation, Oahu

Parsons

Botanical Monitoring for rare plant elements during brush cutting for UXO clearance

Chevron Pipeline Replacement, Ewa, Oahu

URS Corporation

Flora & Fauna survey and report preparation

Kahaluu Farm Lots, Kahaluu, Oahu

R.M. Towill Corporation

Botanical survey and report preparation for proposed subdivision

2010

Vandenburg Antenna Site, Molokai

Element Environmental, LLC

Flora & Fauna survey and report preparation

MCTAB Outdoor Recreation Feasibility Study

Helber Hastert and Fee, Planers

Flora & Fauna survey and report preparation

Botanical Resource Assessment of TMK 5-8-01:35, Waialea, Oahu

Loulu Palm Estate

Botanical survey and report preparation

Waikane MEC Clearance, Former Waikane Valley Training Area, Oahu

Environet, Inc.

Botanical Monitoring for rare plant elements during brush cutting for UXO/MEC clearance.

2011

Nani Kahuku Aina, Ka`u, Hawaii

Nani Kahuku Aina, LLC

Flora & Fauna survey and report preparation

MCBH Kaneohe, Former Landfill/Quarry RI/FS

Element Environmental, LLC

Flora & Fauna survey and report preparation

Kaluanui Biological Inventory, Oahu

DOFAW-STATE OF HAWAII

Flora survey for State forest reserve

MEC Clearance, Former Heeia/Pali Training Area, Oahu

Environet, Inc.

Botanical Monitoring for rare plant elements during brush cutting for UXO/MEC clearance.

ICSD Mount Kaala Radio Facility Improvements Project, Oahu

Helber Hastert and Fee, Planners

Botanical survey and report preparation

Kanahena Point RI/FS

Huikala

Biological Monitoring for rare plant and animal elements during transect inventory for UXO/MEC clearance.

MICHAEL F. DEGA

mike@scshawaii.com

SUMMARY OF ARCHAEOLOGICAL EXPERIENCE

- Fifteen years of Hawaiian archaeological experience and seven years of intensive research and study in Kampuchea (Cambodia) in both Kampong Cham and Angkor Borei. Ph.D.: Prehistoric Circular Earthworks in Cambodia. Focus on archaeological methods, human-environmental interactions, and prehistoric origins of complex societies, intra- and inter-community peer adaptation, and Neolithic interaction spheres.

ACADEMIC TRAINING

- 2001 Ph.D. in Anthropology, University of Hawaii
- 1995 M.A. in Anthropology, University of Hawaii
- 1989 Italian Language Cert., Florida St. University in Florence, Italy
- 1989 B.A. University of Puget Sound, Tacoma, Washington

HAWAIIAN ARCHAEOLOGICAL EXPERIENCE

- 1991-present Supervised and Conducted 115+ Archaeological Projects in the Hawaiian Islands (Kauai, Oahu, Molokai, Maui, Hawaii Island) (Publications available upon request).

RECENT SELECTED PUBLICATIONS

- 2003 *Austronesian Colonization of the Mariana Islands: The Paleoenvironmental Evidence* (with J. S. Athens and J. Ward). *Bulletin of the Indo-Pacific Prehistory Association* (in press).
- 2002 *Prehistoric Circular Earthworks of Cambodia*. BAR International, Oxford, United Kingdom.
- 2002 A Modified History of Anahulu Valley, Oahu, Hawaii and Its Significance for Hawaiian Prehistory (with P.V. Kirch). In *The Journal of the Polynesian Society* Volume 111(2):107-126.
- 2002 "VMS-6: A Vijayanagara Settlement" in *Vijayanagara Progress in Research 1993-1994*, edited by M.S. Nagaraja Rao, Mysore.
- n.d. *Prehistoric Archaeology in Cambodia* (manuscript in preparation)
- 1999 Circular Settlements within Eastern Cambodia. *Bulletin of the Indo-Pacific Prehistory Association* (18):222-223.
- 1999 Results of the 1995-1996 Archaeological Field Investigations at Angkor Borei, Cambodia. *Asian Perspectives* 38(1):7-36 (co-authored by Stark et al.)
- 1997 Circular Earthworks in Kampong Cham: 1996 Archaeological Research (in English and Khmer). *Bulletin de L'Ecole Francaise D'Extreme Orient*. Phnom Penh, Cambodia.

- 1997 AAn Evaluation of Circular Earthworks in Kampong Cham, Cambodia. *International Southeast Asian Archaeology Newsletter*, ed. by Laura L. Junker, Vanderbilt University, Nashville, TN (in press).
- 1996 "Features on the Angkor Borei Landscape: City Walls, Moats, and Boreys. In *Cultural Resource Management* 19(3):38-39.
- 1996 "Archaeology in Cambodia: Recent Research at Angkor Borei, Ba Phnom, and Kbal Romea. In *Proceedings of the 5th Annual East-West Center Centerwide Conference*, East-West Center, February 5- 9, 1996, pp. 81-89.

TECHNICAL PUBLICATIONS

- Over 90 Publications of Cultural Resource Management Reports within the Hawaiian Islands (Oahu, Maui, Kauai, Hawai'i, Molokai) and Micronesia (Saipan).

SELECTED CONFERENCE PAPERS

- October, 1995 24th Annual Conference on South Asia, Madison, Wisconsin: "VMS-6: A Vijayanagara Settlement" February, 1996 East-West Center Participant Conference, Honolulu, Hawaii: "Archaeology in Cambodia: Recent Research at Angkor Borei, Ba Phnom, and Kbal Romea.
- April 12, 1996 Annual East Asian Archaeology Network Meeting Honolulu, HI: Co-author "Funan as Center or Funan as Periphery? Explaining State Formation in Mainland Southeast Asia" in *Centers and Peripheries* in East and Southeast Asia symposium.
- April 13, 1996 Annual East Asian Archaeology Network Meeting, Honolulu, HI. "A Brief Introduction to Funan and the Material Culture of Angkor Borei" in *Archaeology of the Lower Mekong* symposium.
- April, 1996 Society for American Archaeology Meetings, New Orleans, LA. "Recent Archaeological Investigations in the Lower Mekong of Cambodia" in *Old World Archaeology* symposium.
- April, 1996 Society for American Archaeology Meetings, New Orleans, LA. "Early State Formation and Political Economy in the Lower Mekong of Cambodia" in *Production and Exchange in Southeast Asian Complex Societies* symposium.
- April 24, 1996 Society for Hawaiian Archaeology, Kihei, Maui, Hawaii. "The Material Culture of Angkor Borei and Funan" in *Symposium in Honor of Dr. Wilhelm G. Solheim II*.
- August 26-30, 1996 International Conference on Khmer Studies, Phnom Penh, Cambodia. "Archaeological Investigations in Angkor Borei, Takeo Province, Kingdom of Cambodia" in *Archaeology* symposium.
- February 13, 1997 East-West Center Participant Conference, Honolulu, Hawaii: "The Archaeology of Circular Earthworks in Kampong Cham Province, Cambodia" in *Southeast Asia* symposium.
- March, 1997 Society for Hawaiian Archaeology, Lihue, Kauai, Hawaii. Co-author "A View from the Top: Anahulu and the KATA" in *General Hawaiian Archaeology* symposium.
- March, 1998 Center for Southeast Asian and Pacific Studies Conference, Honolulu, HI: "Chronology of Hawaiian Fishponds and Prehistoric Hawaiian Environments: A Case Study from the Nu'upia Fishpond Complex, Kane'ohu Bay, O'ahu.
- April, 1998 Society for Hawaiian Archaeology, Kona, Hawaii. "Chronology of Hawaiian Fishponds and Prehistoric Environments: A Case Study from the Nu'upia Fishpond Complex, Kane'ohu Bay, O'ahu.
- July, 1998 Indo-Pacific Prehistory Association, Malaka, Malaysia. "Prehistoric Earthworks in Eastern Cambodia" in *Late Prehistory of Southeast Asia* symposium.
- April, 1999 Society for Hawaiian Archaeology, Honolulu Hawaii. "Geomorphological and Palynological Investigations on Kagman Peninsula, Saipan, Commonwealth of the Northern Mariana Islands."
- April, 1999 Society for Hawaiian Archaeology, Honolulu, Hawaii. "The Prehistoric Temporal Patterns of Kawailoa: The Timings and Nature of Land Utilization Within Upper Anahulu, O'ahu."

- November, 1999 Circular Earthwork Conference, Phnom Penh, Cambodia (with P. Bion Griffin). A Ministry of Culture-RUFA-UH Circular Earthwork Project, Kampong Cham, Cambodia 1995-1999. @
- April, 2000 Society for American Archaeology, Philadelphia, Pennsylvania (with Lath Poch, Un Monintha, and Soeum Un). A The Timing of Cambodian Earthworks. @
- April, 2000 Society for American Archaeology, Philadelphia, Pennsylvania (with P.V. Kirch). AA Modified History of Anahulu Valley, Oahu, Hawaii and Comparisons with Upland Valley Studies. @
- October, 2001 Society for Hawaiian Archaeology Chair, Greater Pacific Basin Symposium, Maui, Hawaii.
- October, 2001 Society for Hawaiian Archaeology (with A. Buffum), Maui, Hawaii. A Formation Processes in Coastal Settings: Characterizing a Buried Hawaiian Site. @
- October, 2001 Society for Hawaiian Archaeology Chair, Archaeological Methods Symposium, Maui, Hawaii.
- March, 2002 Society for American Archaeology, Denver, Colorado (with J.S. Athens and J. Ward). Austronesian Colonization of the Mariana Islands: The Paleoenvironmental Evidence.
- September, 2002 Indo-Pacific Prehistory Association, Co-Chair with Joyce White, "The Missing Millennia in Southeast Asia" Taipei, Taiwan, ROC.
- September, 2002 Indo-Pacific Prehistory Association, (with J.S. Athens and J. Ward). Austronesian Colonization of the Mariana Islands: The Paleoenvironmental Evidence. Taipei, Taiwan, ROC.
- September, 2002 Indo-Pacific Prehistory Association, "Prehistoric Community-level Adaptations: A Cambodia Case Study." Taipei, Taiwan, ROC.

GRANTS, SCHOLARSHIPS, AND AWARDS

- 2003 J. Clark Grant for Khmer Archaeological Research (\$15,000)
- 2002 Center for Khmer Studies-Rockefeller Foundation Fieldwork Grant (\$20,000)
- 2002 Center for Khmer Studies-Rockefeller Foundation Workshop Grant (\$5,000)
- 2001 SCS Grant for Fieldwork, Kampong Cham and Kratie, Cambodia (\$20,000)
- 1999 SCS Radiocarbon Award for Fieldwork in Southeast Asia (\$3,000 Stipend)
- 1998 College of Arts and Sciences Advisory Council Award, IPPA Malaysia
- 1997 Graduate Assistanship/Teaching Assistant, Univ. of Hawai'i and East-West Center
- 1997 College of Arts and Sciences Advisory Council Award-Cambodian Research
- 1996 GSO Travel Grant Award, University of Hawaii-Manoa
- 1996 College of Arts and Sciences Advisory Council Award-Cambodian Research
- 1995-96 Univ. of Hawai'i Foreign Language Area Scholarship, SE Asian Studies
- 1995-96 Graduate Assistant ship, Univ. of Hawai'i/East-West Center
- 1994 Research Fellowship, American Institute of Indian Studies, New Delhi, India
- 1993-96 Tuition Waivers, Department of Anthropology, University of Hawaii-Manoa

PROFESSIONAL MEMBERSHIP

- Society for Hawaiian Archaeology, Standards and Ethics Committee Chairman (SHA)
- Society for American Archaeology (SAA), Center for South Asian Studies
- Indo-Pacific Prehistory Association (IPPA), Center for Southeast Asian Studies
- Bernice Pauahi Bishop Museum, Historic Preservation Society
- Former Editor, Journal of Southeast Asian Studies, University of Hawai'i

Y. EBISU & ASSOCIATES
CURRICULUM VITAE OF YOICHI EBISU, P.E.

EDUCATION: B.S. in Electrical Engineering, University of Hawaii, 1965
M.S. in Electrical Engineering, University of Hawaii, 1969

REGISTRATION: Registered Professional Engineer, State of Hawaii, 1977

PROFESSIONAL AFFILIATION: Member of National Society of Professional Engineers

EXPERIENCE Principal and Owner of Y. Ebisu & Associates, Acoustical and Electronic Engineers. Provides services such as: airport noise studies and highway traffic noise studies; noise impact assessments; recommendations and design calculations on architectural projects; modeling and design calculations for air conditioning and mechanical equipment noise abatement; computer model simulation of airport, highway, stationary sources, and combined source noise contours; expert witness testimony; design of sound reinforcement and intercom systems; and design of electronic and video systems.

1979 TO 1984: Vice-President of Darby-Ebisu & Associates, Inc., Acoustical Consultants. Provided consultant services related to airport, highway, industrial, and building noise sources. Provided expert witness testimony in civil and land use proceedings, and provided enforcement support services to City Building Department. Designed SEATAC Airport Noise Monitoring System, and provided design and maintenance services for HIA Airport Noise Monitoring System.

1976 TO 1979: Associate of Ronald A. Darby & Associates. Provided acceptance testing services on the HIA Airport Noise Monitoring System software and computer. Supervised aircraft noise data collection efforts using HIA system. Developed site ranking algorithm for noise impacts from general aviation airports studied under OGAMPS.

1971 TO 1976: Senior Research Scientist, LTV Aerospace and Defense Company (formerly Vought Corporation, Advanced Technology Center). Served as Lead Analyst for towed underwater acoustic arrays under contract to Commander THIRD Fleet, Pearl Harbor. Also evaluated and reported the performances of other active and passive Antisubmarine Warfare (ASW) acoustic sensor systems. Designed and implemented underwater acoustic electronic hardware for tracking sonobuoys at PMRF, Barking Sands, Kauai.

1969 TO 1970: Electronic Engineer, assigned to USAECOM (U.S. Army Electronics Command), New Jersey. Project Engineer on task involving secure voice transmissions via voice bandwidth radio links. Principal investigator on task involving FSK data transmission on U.S. Army Missile Command Link. Consultant Electronic Engineer to Production and Procurement Directorate, USAECOM, for evaluation, modifications, and testing of an Army data modem.

1965 TO 1968: Research Scientist, LTV Aerospace and Defense Company (formerly LTV Research Center, Hawaiian Division). Developed acoustic ray tracing computer program for studying the effects of direct and reflected underwater sound paths. Designed acquisition, reduction, and analysis systems for handling ships' signature, ambient noise, convoy radiated noise, submarine radiated noise, and explosive sound source data. LTV Field Engineer on project involving acoustic location of ballistic missile re-entry impact at Kwajalein Atoll, and on project involving ASW devices on Molokai, Hawaii.

AWARDS: Army Commendation Medal "for exceptionally meritorious performance of duty as an Electronic Engineer, Communications/ Automatic Data Processing Laboratory, USAECOM, Fort Monmouth, New Jersey."

RECENT ENVIRONMENTAL NOISE STUDIES:

Turtle Bay Resort SEIS (2012). Replay Resort.

Sound Barrier Study (2012). Maryknoll High School.

Ala Moana Boulevard, Auahi Street Sewer (2012). Engineering Concepts, Inc.

Kulanihakoi Bridge Replacement (2012). Wilson Okamoto Corporation.

K-3 Condo-Hotel (2012). PACREP, LLC.

Kapiolani Street Extension Project (2012). Geometrician Associates, LLC.

Kaneohe / Kailua Gravity Tunnel Noise Variance (2012). Wilson Okamoto Corporation.

Farrington Highway Widening (2012). Group 70 International.

SPAWAR Building 5 Sound Testing (2012). SPAWAR System Center.

HMSA Print Shop Noise Survey (2012). Colliers International.

DOE School Sites at Hoopili (2012). Group 70 International.

Airport Sewer Rehabilitation/Reconstruction, Phase 2 (2012). Gray-Hong-Nojima & Associates, Inc.

BARRY D. NEAL
CERTIFIED CONSULTING METEOROLOGIST

WORK EXPERIENCE

CURRENT, since 1988: CONSULTING METEOROLOGIST, B.D. Neal & Associates, Hawaii. Provide consulting services in air quality and applied meteorology to government, industry, engineering firms and architect/planning organizations. Prepare air quality studies for environmental impact statements and for air pollution permit applications. Conduct air quality modeling and monitoring studies. Specialize in assessing air quality impacts from mobile sources. Provide expertise in remote sensing (sodar) systems for obtaining vertical profiles of wind speed and direction. Perform system and performance audits of air quality and meteorological monitoring systems. Provide expert testimony pertaining to air quality and meteorology.

1983 - 1987: SENIOR METEOROLOGIST/AIR QUALITY SPECIALIST, Amartech, Ltd, Saudi Arabia. Provided air quality and meteorological consulting services to clients in industry and government. Major assignments included managing an environmental study for a new oil-fired power plant and operating a network of nine meteorological/air quality monitoring stations surrounding a new industrial center. Other duties included supplying expertise in the use of meteorological data for engineering design, providing advice on air pollution emissions and emissions control, and performing atmospheric dispersion assessments.

1977 - 1983: METEOROLOGIST, Bechtel Group, Inc., San Francisco, California. Provided expertise in many areas of industrial and applied meteorology for projects located around the U.S. and the world. Areas of expertise provided included: air quality modeling, air quality and meteorological monitoring, air pollution emissions and emissions control equipment, engineering design, and environmental regulations and permit applications. Specific projects included: Jubail Industrial City Project, Saudi Arabia; EPRI Fugitive Emissions Study; White River Shale Oil Project, Utah; ETSI Coal Slurry Pipeline Project, Wyoming; and Nuclear Waste Isolation Pilot Project, Utah.

EDUCATION

1977: Graduate Studies, Department of Meteorology, San Jose State University, San Jose, California.

1976: B.S. Meteorology, San Jose State University, San Jose, California.

PROFESSIONAL DATA

Certified Consulting Meteorologist (CCM) designation, American Meteorological Society. Member of the Air and Waste Management Association.

Robert W. Hobdy
Environmental Consultant
2560-B Pololei Place Haiku Maui, Hawaii 96708
hm ph 573-8029 d.o.b. 09/06/42 email: hobdyr001@hawaii.rr.com

Education: Bachelor of Forestry, Oregon State University – 1965

Employment: State of Hawaii
Department of Land and Natural Resources
Division of Forestry & Wildlife
37 ½ years
Highest Position – District Manager / Maui County

Botanical Experience

- Exposure to a distinguished botanist at the age of 15 (1957) where I developed a personal interest in plants.
- Undergraduate courses in botany in college.
- Worked with and managed forest resources throughout my career with special focus on native and Endangered species and their ecosystems, watershed management, timber species, invasive weeds and plant pests and disease management
- Collaborated with sister resource management agencies and organizations, universities, museums and visiting scientists.
- Made extensive collections of plants for the Bishop Museum and other institutions documenting native plants and weeds and their distribution. Discovered twelve new species of native plants, two of which I described in scientific publications and five of which were named after me by other botanists.
- Serving on the Maui County Arborist Advisory Committee for over 30 years.
- Serving on the Board of Directors of the Maui Nui Botanical Gardens
- Served on a Federal Weed Risk Assessment advisory committee
- Serving on the Maui Invasive Species Committee since 1991
- Opened an environmental consulting business in 2004, specializing in flora and fauna surveys, wetland surveys and site evaluations.

Wildlife experience

- Worked alongside professional wildlife biologists throughout my career, participating in game species census and forest bird surveys.
- Worked alongside entomologists, malacologists, and aquatic and marine biologists doing species documentation and making habitat assessments.
- Administered public hunting programs, pest species eradication programs and forest bird and Endangered Species habitat management and recovery programs.

Other

- Have personal expertise in all the islands in Maui County with regard to names, places, terrain, natural resources, land ownership and people.
- Am familiar with government systems, jurisdictions and people.
- Have experience in public relations, collaboration, consensus building and conflict management
- Am familiar with environmental Laws and rules and their application.

STATEMENT OF QUALIFICATIONS:

M. S. Geological Engineering, College of Mines, University of Arizona

B. S. Geological Engineering, College of Mines, University of Arizona

Professional Geologist (California)

Certified Environmental Manager (Nevada)

Licensed Contractor, Responsible Managing Employee, (Hawaii)

AREAS OF EXPERTISE

- ENVIRONMENTAL**
- ▼ **Site Assessments** for Real Estate Transactions & Shoreline Permits. EA/EIS process.
 - ▼ **Mold/Fungi** Sampling, Cleaning, Disinfecting, Sealing & Remediation/Abatement
 - ▼ **Asbestos** Inspection and Monitoring, Management Planning, and Abatement Design and Removal
 - ▼ **Lead-Containing Paint** Surveys and Inspections, and Abatement Design and Remediation
 - ▼ **Expert Witness/Litigation** Support
 - ▼ **Wetland** Delineation and US Army Corps of Engineers Permit
 - ▼ **Indoor Air Quality** Consulting/Investigations
 - ▼ **Hazardous Waste** Management, Compliance and Closure Projects
 - ▼ **Facility-Operation Compliance Audits** ISO-14000 Audits
 - ▼ **Site Characterization** for RCRA Closure & NPDES Permits
 - ▼ **Underground Storage Tank** Closure
 - ▼ **Industrial Hygiene** Qualified/Competent Person
- GEOLOGICAL**
- ▼ **Hydrogeology** Wetland Permit process and (Hydric) soils-Hawaii. Aquifer Protection Permit for northern Arizona mining operation. Water well drilling and Injection-well permit process, Hawaii.
 - ▼ **Field Mapping** Mineral Investigations, Underground Mining
 - ▼ **Drilling** Investigations and Sample Logging for Groundwater, Soils & Economic Mineral evaluations.
- MANAGEMENT**
- ▼ **Project Management** Abatement Contractor & Environmental Compliance Cleanups, Section Supervisor with engineering company, General and Operations Manager for small businesses.
 - ▼ **Regulatory Liaison Agency** with Client/Legal.

Continued

RELEVANT EXPERIENCE John S. Vuich

**Owner-Director • MEV, LLC. dba Malama Environmental
Maui, HI • (June 2006 - Present)**

Environmental consulting services and project management of remediation projects, property transfers assessments, soil and water sampling, hazardous waste management, underground storage tank closures, wetland delineations and permit applications, regulatory compliance and litigation support, injection-well and NPDES permits. Veteran owned small business.

**Owner-President • Vuich Environmental Consultants, Inc.
Maui, and Honolulu, Oahu • (March, 1994 - 2008)**

Abatement and Demolition contractor conducting asbestos, mold, lead-paint remediation for schools, hotels, government facilities, commercial and residential units. Performing selective demolition and landfill site remediation and closure documentation.

**Owner-President • HAZTECH Enviro-Systems
Tucson, AZ • July 1988 - February 1994)**

Founder and Director of professional environmental engineering and geological consulting firm.

**Project Engineer • Hazchem Environmental Services
Tucson, AZ • March 1987 - June 1988**

Performed and supervised RCRA remedial projects and waste management projects.

Independent Consultant Geologist

Laguna Hills, CA and Tucson, AZ • 1982 - 1987

Conducted geological investigations in western United States and Mexico.

**Environmental/Geotechnical Section Supervisor • TRW: Systems Engineering
Redondo Beach, CA • 1978 - 1981**

Managed environmental projects for Department of Defense and Department of Energy; Locations in California, Arizona, Nevada and Utah.

**Arizona Geological Survey • University of Arizona
Tucson, AZ • 1972-1978**

Assistant Geologist

**United States Marine Corps, Corporal
1960-1963**

LICENSES and REGISTRATIONS

- ▼ **Asbestos & Demolition Contractor (C-19, C-24) Hawaii License #21212**
- ▼ **Licensed Private Pilot - 1500 Hours, Single Engine, Land. Flight Operations in Western U.S., Mexico and Hawaii.**
- ▼ **Professional Geologist-CA; Environmental Manager-NV**

P.O. Box 880085, Pukalani, HI 96788-0085 • (808) 870-0786 Phone (808) 876-1900 Fax

PROFESSIONAL QUALIFICATIONS

Glenn K. Kunihsa, MAI

STATE LICENSING

State Certified General Appraiser,
State of Hawaii, License No. CGA 39, July 17, 1991
Expiration: December 31, 2013



PROFESSIONAL AFFILIATIONS

Member, Appraisal Institute, MAI Designation, Hawaii Chapter No. 67
Member, National Association of Realtors, Maui Board of Realtors

PROFESSIONAL INVOLVEMENT

Past President – Hawaii Chapter of the Appraisal Institute – 2009
Past Chair – Hawaii Chapter of The Counselors of Real Estate - 2011

COMMUNITY AFFILIATIONS

St. Anthony Parish School Board
Board Member 1995 to 2008
Board President 1997 and 1998
Alii Community Care, Inc. – A non-profit health care corporation
Board Member 2004 to 2006

EMPLOYMENT

President, ACM Consultants, Inc.
May, 1997 to present

Previously associated with the following:

ACM, Real Estate Appraisers, Inc. - 1986 to 1997
A&B Commercial Company; a division of Alexander & Baldwin, Inc. - 1979 to 1985
Bank of Hawaii - 1976 to 1979

GENERAL EDUCATION

University of Hawaii at Manoa
Master of Business Administration (MBA) - Executive MBA Program V, 1988
Bachelor of Business Administration (BBA), 1976
Iolani School, 1971

LEGAL & CONSULTING

Qualified as an expert witness in the Second Circuit Court of the State of Hawaii
Qualified as an expert in testimony to the State Land Use Commission
Experienced in real estate arbitration assignments in the State of Hawaii

APPRAISAL EDUCATION

Appraisal Institute

Course	<i>Fundamentals of Separating Real Property, Personal Property and Intangible Business Assets</i> Honolulu, Hawaii – July 2012
Course	<i>Online 7-Hour National USPAP Equivalent Course</i> Chicago, Illinois – December 2011
Seminar	<i>Appraisal Curriculum Overview (2-day general)</i> Honolulu, Hawaii – July 2010

Professional Qualifications

Page 2

Seminar	<i>Online Valuation of Green Residential Properties</i> Chicago, Illinois – July 2010
Seminar	<i>Hotel Valuation</i> Honolulu, Hawaii – February 2010
Seminar	<i>Online Small Hotel/Motel Valuation</i> Chicago, Illinois – November 2009
Seminar	<i>Business Practices and Ethics</i> Honolulu, Hawaii – September 2009
Seminar	<i>Hawaii Lands, Historical Review</i> Lihue, Hawaii – August 2009
Seminar	<i>Appraisal Challenges: Declining Markets and Sales Concessions</i> Cambria, California – October 2008
Course	<i>7-Hour National USPAP Update Course</i> Honolulu, Hawaii – September 2008
Course	<i>Online 7-Hour National USPAP Equivalent Course</i> Chicago, Illinois – October 2007
Course	<i>Valuation of Conservation Easements</i> Denver, Colorado – October 2007
Seminar	<i>Uniform Standards for Federal Land Acquisitions (“Yellow Book”)</i> <i>Practical Applications for Fee Appraisers</i> Honolulu, Hawaii – December 2006
Seminar	<i>California Conservation Easements</i> Sacramento, California – November 2005
Course 400	<i>7-Hour National USPAP Update Course</i> Honolulu, Hawaii – October 2005
Seminar	<i>Case Studies in Limited Partnership and Partial Interest Valuation</i> Honolulu, Hawaii – May 2005
Seminar	<i>Appraisal Consulting: A Solutions Approach for Professionals</i> Honolulu, Hawaii – February 2005
Seminar	<i>Real Estate Finance, Value and Investment Performance</i> Honolulu, Hawaii – February 2005
Seminar	<i>Fannie Mae Residential Presentation</i> Honolulu, Hawaii - July 2004
Seminar	<i>Subdivision Analysis</i> Chicago, Illinois - August 2003
Seminar	<i>Supporting Capitalization Rates</i> Chicago, Illinois - August 2003
Seminar	<i>The Technology Assisted Appraiser</i> Chicago, Illinois - August 2003
Seminar	<i>Scope of Work: Expanding Your Range of Services</i> Chicago, Illinois - August 2003
Course 400	<i>National Uniform Standards of Professional Practice</i> Honolulu, Hawaii - May 2003
Course 420	<i>Business Practices and Ethics</i> Honolulu, Hawaii - May 2003
Seminar	<i>The Private Conservation Market</i> Honolulu, Hawaii - July 2002
Seminar	<i>Finance Reporting Valuations Parts I and II</i> Honolulu, Hawaii - July 2002
Seminar	<i>Future of Appraisal Profession from a Global Perspective</i> Honolulu, Hawaii - July 2002

Seminar	<i>Appraisal Office Management</i> Honolulu, Hawaii - July 2002
Course 540	<i>Report Writing</i> Denver, Colorado - December 2000
Seminar	<i>Partial Interests: Theory and Case Law</i> Las Vegas, Nevada - July 2000
Seminar	<i>Easement Valuation</i> Las Vegas, Nevada - July 2000
Seminar	<i>Bridging the Gap: Marketability Discounts for Real Estate Interests</i> Las Vegas, Nevada - July 2000
Course 430	<i>Standards of Professional Practice, Part C</i> Honolulu, Hawaii - September 1999
Seminar	<i>Litigation Skills for the Appraiser: An Overview</i> Honolulu, Hawaii - May 1998
Seminar	<i>Special Purpose Properties</i> Honolulu, Hawaii - September 1997
Seminar	<i>Highest and Best Use Applications</i> Honolulu, Hawaii - September 1997
Seminar	<i>Detrimental Conditions</i> Honolulu, Hawaii - July 1997
Seminar	<i>The Appraiser As Expert Witness</i> Honolulu, Hawaii - August, 1995
Seminar	<i>How to Appraise FHA-Insured Property</i> Los Angeles, California - January, 1995
Seminar	<i>Understanding Limited Appraisals and Reporting Options</i> Honolulu, Hawaii - August, 1994
Seminar	<i>Valuation of Leasehold Interests</i> Honolulu, Hawaii - May, 1993
Seminar	<i>Valuation of Leased Fee Interests</i> Honolulu, Hawaii - May, 1993
Seminar	<i>Valuation Considerations: Appraising Non-Profits</i> Boston, Massachusetts - July, 1992
Seminar	<i>Americans With Disabilities Act</i> Boston, Massachusetts - July, 1992
Seminar	<i>Valuation in Today's Capital and Financing Markets</i> Honolulu, Hawaii - June 1992
Seminar	<i>Arbitration Principles, Procedures and Pitfalls</i> Honolulu, Hawaii - June, 1992
Seminar	<i>Institutional Real Estate in the 1990's</i> Honolulu, Hawaii - June, 1992
Seminar	<i>FIRREA and its Impact on Appraisers</i> Honolulu, Hawaii - June, 1992
Course 410/420	<i>Standards of Professional Practice, Parts A & B</i> Honolulu, Hawaii - April, 1991

The American Society of Farm Managers and Rural Appraisers, Inc.

Seminar	<i>Agricultural Lease Valuation</i> Honolulu, Hawaii – March 2006
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Maui Coastal Land Trust

Seminar	<i>Understanding the New Tax Incentives: Conservation Easements & Other Charitable Contributions</i> Wailuku, Hawaii – June 2007
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Society of Real Estate Appraisers

- Course 101 *Introduction to Appraising Real Property*
Dallas, Texas – 1987
- Course 102 *Applied Residential Property Valuation*
Honolulu, Hawaii - July 1990
- Course 201 *Principles of Income Property Appraising*
Chicago, Illinois, 1987
- Course 202 *Applied Income Property Valuation*
San Diego, California - 1988
- Seminar *Professional Practice and the Society of Real Estate Appraisers*
Honolulu, Hawaii - 1988
- Seminar *Appraisal Standards Seminar - Federal Home Loan
Bank Board Guidelines, Regulations and Policies*
Honolulu, Hawaii - April, 1988
- Seminar *Appraisal Standards Seminar - Federal Home Loan
Bank Board Guidelines, Regulations and Policies*
Honolulu, Hawaii - April, 1988

American Institute of Real Estate Appraisers

- Seminar *Rates, Ratios and Reasonableness*
Honolulu, Hawaii - 1989
- Seminar *Discounted Cash Flow Analysis*
Honolulu, Hawaii - 1989
- Seminar *Highest and Best Use*
Honolulu, Hawaii - 1989
- Seminar *Capitalization Overview - Part A*
Honolulu, Hawaii - 1990
- Seminar *Capitalization Overview - Part B*
Honolulu, Hawaii – 1990
- Seminar *Accrued Depreciation*
Honolulu, Hawaii - 1990

International Right of Way Association

- Course 410 *Reviewing Appraisals in Eminent Domain*
San Diego, California – February 2011
- Course 101 *Appraisal*
Las Vegas, Nevada - October 1998
- Course 101 *Negotiation*
Las Vegas, Nevada - October 1998

National Business Institute, Inc.

- Seminar *Commercial Real Estate Leasing In Hawaii*
Honolulu, Hawaii - 1989

American Arbitration Association

- Seminar *Real Estate Dispute Resolution - Mediation and Arbitration*
Kahului, Maui, Hawaii - October, 1990



CONSULTING CIVIL ENGINEERS
305 SOUTH HIGH STREET, SUITE 102
WAILUKU, MAUI, HAWAII 96793
PHONE: (808) 242-0032
FAX: (808) 242-5779

**STATEMENT OF QUALIFICATIONS
for
Professional Consulting Civil Engineering Services**

The following information and statement of qualifications will provide an overview of Otomo Engineering, Inc. and the engineering capabilities and services that we are able to provide.

BACKGROUND

Otomo Engineering, Inc. (OEI) was incorporated on September 19, 1991. OEI is a Hawaii corporation licensed to provide civil engineering services in the State of Hawaii.

OEI has been in business for 21 years. Over the last three years, our average number of employees were 5 full-time and consultants were hired on a regular basis for clerical, CAD drafting, structural engineering services, mechanical engineering services, and surveying services.

RESUME OF PRINCIPAL

Principal: Stacy A. Otomo
Degree(s): B.S. Civil Engineering, 1977 - University of Hawaii, Manoa
M.S. Civil Engineering, 1979 - University of Hawaii, Manoa
Registration: No. 5115 - Civil Engineer (Hawaii), 1981

PROFESSIONAL AFFILIATIONS

Hawaii Society of Professional Engineers, Maui Chapter
(past President; past State Director)
Maui County Urban Design Review Board (past Member)
Kaanapali Golf Estates (Past Member New Construction Committee)
Wailuku Country Estates (Past Member Design Review Committee)

COMMUNITY AFFILIATIONS

2013 Baldwin High School Project Graduation
(Steering Committee)
2012-2013 Baldwin High School Swimming and Diving Team
(Parent Coordinator)

Boy Scouts of America - Maui County Council
(Past Eagle Scout Review Board, Central District Advancement Chairman)
(Past Scout-O-Rama Steering Committee)

Boy Scouts - Troop 68
(Current Eagle Scout Coordinator, Past Committee Member and Liaison to Wailuku
Elementary School and Committee Chairman)

Iao Intermediate School Band Boosters
(Past Member and Past co-President)

Maui United Way
(Past Board of Directors)

Wailuku Elementary School PTA
(Past Board of Directors)

Cub Scouts-Pack 68
(Past Den Leader)

EXPERIENCE AND PAST PROJECTS

September, 1991 to Present:
President/Principal Engineer
Otomo Engineering, Inc.

May, 1988 to December, 1991:
Projects Manager
Warren S. Unemori Engineering, Inc.

March, 1985 to April, 1988:
Chief Engineer
Richard M. Sato & Associates, Inc. (Maui Office)

November, 1979 to February, 1985:
Senior Design Engineer
Warren S. Unemori Engineering, Inc.

June, 1979 to November, 1979:
Junior Engineer
R. M. Towill Corporation

The following is a list of notable projects which were prepared by me or under my direct supervision.

Route 3100 - South Kihei Road Drainage Improvements
Kihei, Maui

Kihei Drainage Master Plan
Kihei, Maui

South Kihei Road Improvements-Phase III
Kihei, Hawaii

Waikapu Affordable Housing Project
Waikapu, Maui

Ohana Kai Village
Maalaea, Maui

Ka'ono'ulu Estates - Phase IV
Kihei, Maui

The Villas at Ka'ono'ulu
Kihei, Maui

Olowalu Country Town
Olowalu, Maui

Waikapu Country Town
Waikapu, Maui

Wailuku/Kahului Force Main Replacement
Kahului, Maui

PREVIOUS TESTIMONY BEFORE THE STATE LAND USE COMMISSION

Waiko Light Industrial
Pulelehua
Waikapu Gardens
Kula Ridge Affordable
Consolidated Baseyard Subdivision

CLIENT REFERENCES

Mr. David Goode, Director
Department of Public Works
County of Maui
(808) 243-7845

Mr. David Taylor, Director
Department of Water Supply
County of Maui
(808) 270-7816

Mr. Kyle Ginoza, Director
Department of Environmental Management
County of Maui
(808) 270-8230

Mr. Jesse Spencer, President
Spencer Homes, Inc.
(808) 249-8822

Mr. Greg Bayless, AIA
Bayless Architects
(808) 244-6777

Mr. Bruce Lee, President
Newcomer-Lee Land Surveyors, Inc.
(808) 244-8889

AWARDS/ACCOMPLISHMENTS

1992 Maui Chapter/HSPE Engineer of the Year
1992 Who's Who in the West
1989 State HSPE Young Engineer of the Year
1989 Maui Chapter/HSPE Engineer of the Year
1988 Maui Chapter/HSPE Young Engineer of the Year
1987 Outstanding Young Men of America
1986 Maui Chapter/HSPE Young Engineer of the Year

PHILLIP J. ROWELL, P.E.

Principal, Phillip Rowell and Associates

EDUCATION BS, Civil Engineering, 1971, Clemson University
MS, Civil Engineering (Transportation & Traffic Engineering), 1972, Clemson University

REGISTRATION Professional Civil Engineer in California (1975) & Hawaii (1989)

MEMBERSHIPS Institute of Transportation Engineers (Life Member)

EXPERIENCE RECORD

1995 to Present **Phillip Rowell and Associates**, Honolulu, Hawaii
Principal of consulting firm specializing in transportation planning and traffic engineering projects in Hawaii and California. The following are representative recent projects:

- Piilani Promenade (Kihei)
- Saddle Road Extension TIAR
- KIC Resort Area 26 TIAR (Kailua-Kona)
- Puunene Heavy Industrial Subdivision
- Cosco, Lihue, Kauai
- Fort Shafter Flats Drainage Improvements Traffic Management Plan
- Kapa'a Light Industrial Park (Oahu)
- Stryker Brigade Combat Team Facilities at MCBH
- Onizuka Space Center Museum at Keahole Airport
- Hyatt Regency Master Plan (Kaanapali)
- Target (Salt Lake)
- Puunene Avenue-Mokulele Highway Widening
- UH West Hawaii Campus
- Oahu Commercial Harbors 2020 Master Plan
- NMFS Honolulu Laboratory Renewal
- Pico-Union Neighborhood Traffic Protection Plan (Los Angeles)
- American Dental Association Convention Traffic Management Plan (Honolulu)
- Lions Clubs International Convention Traffic Management Plan (Honolulu)
- First Hawaiian International Auto Show Traffic Management Plan
- No. 1 Capital District Building Traffic Impact Analysis
- China - U.S. Center Traffic Impact Analysis (Hilo)

1995 **Parsons Engineering Science, Inc.**, Honolulu, Hawaii
Senior Traffic Engineer - Responsibilities included business development in the areas of traffic engineering and transportation planning and coordination of traffic studies with other disciplines and offices. Manager of traffic engineering projects conducted by the Honolulu office. Manager of traffic engineering projects conducted by the Honolulu office, including traffic studies for:

- Hawaii Convention Center Traffic Analysis
- Walmart Traffic Impact Study, Waiakea, Hilo, Hawaii

1989 to 1995 **Barton-Aschman Associates, Inc.**, Honolulu, Hawaii
Principal Associate - Manager of the Honolulu office and project director for all projects conducted in that office. Served as Project Manager on the following representative projects:

- Castle Junction Interchange Study
- Aloha Tower Traffic Study
- Maui Business Park, Phase 2, Kahului, Maui
- Maui Lu Traffic Study, Kihei, Maui
- Makena Resort Master Plan Traffic Impact Study
- Kona Coast Resort TIS and Ali'i Drive Design, Kona
- Kahului Town Center TIAR and Basis of Design Study, Kahului, Maui
- Aloha Tower Traffic Impact Studies, Honolulu
- Traffic and Parking Studies for Honolulu International Airport
- Traffic and Parking Study for Guam International Airport Expansion
- Construction Traffic Management Plan for Honolulu International Airport

- 1984 to 1989 **Barton-Aschman Associates, Inc.**, Pasadena, CA
Senior Associate - Performed traffic impact and parking studies in California, Hawai'i, Arizona, and Nevada. Representative projects include:
- General Telephone Co. HQ Traffic Study, Thousand Oaks, CA
 - Citywide Traffic Impact Mitigation Fee Study, Carlsbad, CA
 - Ave. R/Ave. S Corridor and Impact Fee Study, Palmdale, CA
 - HUSITE Transportation Planning Study, Las Vegas, NV
 - CBD Redevelopment Transportation Study, Las Vegas, NV
 - Harbor Gateway Transportation Study, Los Angeles, CA
 - West Hollywood City-wide Parking Study, West Hollywood, CA
 - Hollywood Parking Study, Los Angeles, CA
 - Tucson Mall/Tucson Place Traffic Study, Tucson, AZ
- 1982 to 1984 **Department of Transportation**, Beverly Hills, CA
City Traffic Engineer and Assistant Director of Transportation -Beverly Hills, CA - Responsibilities included the day-to-day operations of the engineering and parking sections of the DOT; review of all traffic impact studies submitted to the City; installation and maintenance of traffic signals; independently conducting traffic studies for City projects; and implementation of the City's street and alley lighting program, public shuttle bus programs, and Street Master Plan.
- 1980 to 1982 **Wilbur Smith and Associates**, Kuala Lumpur, Malaysia & Hong Kong
Project Design Engineer - Conducted traffic studies and prepared preliminary geometric plans for 11 interchanges along the Jitra-Butterworth Toll Road in Malaysia. Subsequently prepared final plans for the interchanges. In Hong Kong, prepared plans for a new interchange connecting mainland China with Hong Kong.
- 1978 to 1980 **Wilbur Smith and Associates**, Lexington, Kentucky
Project Design Engineer - Prepared plans and specs for the following:
- Main Street Interchange, Lexington, KY
 - Edgewood Boulevard, Lansing, MI
 - I-40/I-640 Interchange, Knoxville, TN
 - Kenwood Subdivision, Lexington, KY
- 1974 to 1978 **Wilbur Smith and Associate**, Los Angeles, CA
Senior Transportation Planner - Major projects worked on were:
- Walt Disney World Transportation Study, Orlando, Florida
 - City-Wide Circulation Study, Santa Maria, California
 - San Gabriel Valley Transit Study for SCRTD, Los Angeles, CA
 - West Los Angeles Transit Study for SCRTD, Los Angeles, CA
- 1974 to 1974 **Wilbur Smith and Associates**, Columbia, SC
Design Engineer - Representative projects include:
- South Mountain Retirement Resort, Burke County, NC
 - Waccamaw Plantation, Waccamaw, SC
 - Monroe Downtown Redevelopment Project, Monroe, NC
 - Seaboard Park Redevelopment Project, Columbia, SC
- 1971 to 1972 **Civil Engineering Department**, Clemson University, Clemson, SC
Graduate Teaching Assistant - Graduate teaching assistant in the Civil Engineering Department. Classes included transportation planning and traffic engineering.

Professional Profile

Urban Planning and Design

Managed large scale residential development communities from conceptual design through to actual construction.

Land Valuation/Property Analysis

Managed large scale econometric study and review of corporate assets involving appraisal, discounted cash flow/comparable valuation, economic modeling and in depth property analysis to substantiate stock portfolio and real property values for corporate holdings.

Land Development

Responsible for design, entitlement, funding, sales and marketing for successful resort residential projects in Hawaii.

Public Sector Experience

Director of Public Works for two consecutive Mayors. Controlled and managed all aspects of infrastructure support including all manner of land use permitting, subdivisions, waste water, highways, engineering design and solid waste handling.

Professional Experience

The Irvine Company
Newport Beach, California
1981 -1986

Achievements

- Design of large scale residential communities.
- Management of large scale property valuation.

Responsibilities

- Managed design, financial analysis and entitlement for large scale residential projects on Irvine Ranch.
- Managed legal team, appraisal, economic consultants and detailed property analysis for property tax appeal and stock portfolio valuation.
- Member of Advanced Development Planning team responsible for all long range residential planning and coordination with jurisdictional agencies.

Bergheer Wailea, Inc.
Newport Beach, California
1986 – 1990

Achievements

- Successfully built 188 unit resort condominium in Wailea Resort.

Responsibilities

- As Vice President managed design, permitting, sales and marketing for residential project and reported to ownership.

Director of Public Works
County of Maui
Maui, Hawaii
1991-2000

Achievements

- Streamlined permitting process.
- Created first reclaimed water fee structure and distribution system.
- Managed the design and construction of over \$100 million in capital improvements.
- Modified department management structure and created the best customer oriented department in the county.

Responsibilities

- As head of department with over 400 employees with the most highly regulated infrastructure, established departmental policies and procedures, budgets, capital improvement programming, functioned as ex-officio member of Planning Commission and Board of Water Supply and represented department before the Maui County Council.

Honua`ula Partners, LLC
Los Angeles, California
2001 – Present

Achievements

- Redesigned project and managed major entitlement for 1400 unit residential/golf oriented community in South Maui and achieved Phase I zoning approval in April 2008. Presently managing final entitlement process and offsite infrastructure design and entitlement per conditions of zoning.

Responsibilities

- Acting as owner's representative, coordinate all elements of project design, permitting and public relations necessary for project approvals.

Second & Peck Real Estate, LLC
Owner
Maui, HI
2005 – Present

Achievements

- Created new real estate/land evaluation partnership specializing in due diligence and permitting assistance for private landowners.

Responsibilities

- Managed large scale resort oriented due diligence analysis in west Maui as well as smaller residential properties in south Maui. Presently

continuing role as owner representative for investor owned real estate assets in Maui County.

Education

Bachelor of Science, Urban Environmental Management, California State University, Dominguez Hills, CA
Graduate Studies, Urban Planning and Design, California Polytechnic University, Pomona, CA
John F. Kennedy School of Government, Program for Senior Executives in State and Local Government

Community Involvement

Past Board Member and President Maui Family YMCA,
Board Member and Past President Maui County Council BSA,
Past Board Member and Board Chair Maui Chamber of Commerce,
Board Member Seabury Hall School and Chair, Physical Facilities Committee
Past Board Member and President Maui Contractors Association
State of Hawaii Land Use Commissioner – At Large Representative with Term expiring June 30, 2011.

Military

United States Navy – Honorably Discharged, February 1970

References

Available upon Request



RESUME
Glenn F. Tadaki
Senior Associate Planner



I. EDUCATION

- Associate Degree in Business, 1973 – 1975
University of Hawai'i, Hilo College; Hilo, Hawai'i

- Liberal Arts Studies, 1969 – 1971 and 1972 – 1973
University of Hawai'i, Hilo College; Hilo, Hawai'i

II. LAND USE/PLANNING WORK EXPERIENCE

- Sept. 2004 to Present **Chris Hart & Partners, Inc.**
Wailuku, Maui, Hawai'i
Senior Associate Land Use Planner
- Sept. 1993 to July 2004 **Munekiyo & Hiraga, Inc.**
Wailuku, Maui, Hawai'i
Land Use Planner

III. REPRESENTATIVE LAND USE/PLANNING PROJECTS

A. Representative Projects from Sept. 2004 to the Present:

Prepared on behalf of Mahmood DeZahd
Kihei Hanalei Apartment (Principal Planner)
Kihei, Maui, Hawai'i
SMA for New Condominium Project – 2005

Prepared on behalf of Michael White
Plantation Inn Expansion (Principal Planner)
Lahaina, Maui, Hawai'i
EA/SMA for Additional Guest Rooms – 2013

Prepared on behalf of Pacific Rim Land
Ukumehame Subdivision (Principal Planner)
Ukumehame, Maui, Hawai'i
EA/SMA for New Agricultural Subdivision – 2005

Resume of Glenn F. Tadaki

Pu`unene Heavy Industrial Subdivision (Principal Planner)

Pulehunui, Maui, Hawai`i

EA/DBA/CPA/CIZ for New Heavy Industrial Subdivision – November 2012

Prepared on behalf of S&F Land Company

Central Maui Baseyard (Principal Planner)

Puunene, Maui, Hawai`i

CSUP/EA/CPA/CIZ for New Heavy Industrial Areas in the Baseyard – 2007

Prepared on behalf of The Whaler on Ka`anapali Beach

Proposed Renovations to The Whaler on Ka`anapali Beach (Principal Planner)

Ka`anapali, Maui, Hawai`i

SMA for Renovations to The Whaler SMA – 2010

B. Representative Projects from Sept. 1993 to July 2004:

Prepared on behalf of A&B Properties, Inc.

Maui Business Park, Phase IB Subdivision (Principal Planner)

Kahului, Maui, Hawai`i

EA for New Light Industrial Subdivision – 2000

Kahului Airport Hotel (Principal Planner)

Kahului, Maui, Hawai`i

EA/CPA/CIZ/SMA for New Business Hotel (Marriott Courtyard) – 2001

Prepared on behalf of Thomas Agawa Architect

Keanae Baseyard Renovations (Principal Planner)

Keanae, Hana, Hawai`i

EA/SMA/SUP for Renovations to State Highways Baseyard – 1996

Supplemental EA for Modifications to Baseyard Renovations Project – 1998

Prepared on behalf of Ameron HC&D

Kihei Concrete Batching Plant (Principal Planner)

Kihei, Maui, Hawai`i

SUP/CP for Existing Concrete Batching Plant – 1998

Prepared on behalf of Amfac/JMB Hawai`i

Lot 45 Subdivision (Principal Planner)

Ka`anapali, Maui, Hawai`i

EA/SMA/SSV for New Single-Family Residential Subdivision – 1994

Resume of Glenn F. Tadaki

Ka'anapali Vacation Club (Principal Planner)

Ka'anapali, Maui, Hawai'i

SMA/SSV for New Timeshare Resort at North Beach, Ka'anapali (Ka'anapali Ocean Resort) – 1994

Honoapi'ilani Highway, FAP Route 30 (Principal Planner)

Lahaina, Maui, Hawai'i

Supplemental EIS for Modifications to the Lahaina Bypass Project – 1995 thru 2002
Hawai'i Coastal Zone Management Program Consistency Determination – 1999
Record of Decision – 2003

Rezoning of Remnant Parcels at South Beach Mauka (Principal Planner)

Ka'anapali, Maui, Hawai'i

CIZ for Residential Use of Remnant Parcels at South Beach Mauka – 1996

Prepared on behalf of Austin, Tsutsumi & Associates

DHHL – Kula Residential Lot, Unit 1 (Principal Planner)

Waiohuli, Maui, Hawai'i

EA for New Single-Family Residential Subdivision – 1996

Honoapi'ilani Highway Widening – Ka'anapali Parkway to Honokowai Stream) (Principal Planner)

West Maui, Hawai'i

EA/SMA for Widening Honoapi'ilani Highway from 2 to 4 lanes – 1998

Lower Honoapi'ilani Road Improvements – Ho'ohui Road to Napilihau Street (Principal Planner)

West Maui, Hawai'i

EA/SMA/SSV for Roadway and Drainage Improvements and Bridge Replacement – 2000

Kahananui Bridge Replacement (Principal Planner)

Kahana, Maui, Hawai'i

Demolition of Existing Bridge and Construction of New Bridge at Kahananui Stream
Department of the Army Permit – 2004
Section 401 Water Quality Certification – 2004
Hawai'i Coastal Zone Management Program Consistency Determination – 2004
Stream Channel Alteration Permit – 2004

Prepared on behalf of Brown and Caldwell

Wailuku-Kahului Wastewater Reclamation Facility Modifications (Principal Planner)

Kahului, Maui, Hawai'i

EA/SMA/CDUA for Major Modifications to Existing Wastewater Treatment Plant – 2001

Resume of Glenn F. Tadaki

Prepared on behalf of Castle & Cooke

Lana`i City Housing Project – Application for Housing Development Pursuant to Section 201E-210, HRS (Principal Planner)

Lana`i City, Lana`i, Hawai`i

201E Request for Housing Redevelopment & New Housing in Lana`i City – 1996

Miki Basin Heavy Industrial Area (Principal Planner)

Miki Basin, Lana`i, Hawai`i

DBA/CIZ for New Heavy Industrial Area – 1999

Land Use Development in Lana`i Project District I – Manele (Principal Planner)

Manele, Lana`i, Hawai`i

PD II/SMA for Various Land Uses within the Manele Resort – 1999

The Terraces at Manele, Increment 3- Lana`i Project District I (Principal Planner)

Manele, Lana`i, Hawai`i

DBA/PD II Approval/SMA for New Single-Family Residential Subdivision – 2000

Keiki Center and Spa at the Manele Bay Hotel (Principal Planner)

Manele, Lana`i, Hawai`i

PD II/SMA Amendment for Keiki Center and Spa – 2002

Prepared on behalf of County of Maui – Department of Water Supply

Honokohau Water System Improvements (Principal Planner)

Honokohau, Maui, Hawai`i

EA/CDUA for Water System Improvements – 2004

Prepared on behalf of Design Partners

Maui Community College Building “P” (Principal Planner)

Kahului, Maui, Hawai`i

EA/SMA for New Classroom Building – 1999

Prepared on behalf of Dowling Company

Ke Ali`i Alanui – Road “F” (Principal Planner)

Kihei, Maui, Hawai`i

EA/SMA for New Connector Road – 1995

Palaeua Subdivision (Principal Planner)

Wailea, Maui, Hawai`i

CIZ/PD I/PD II/SMA for New Single-Family Residential Subdivision – 1999

Resume of Glenn F. Tadaki

Institute for Astronomy – Advanced Technology and Research Center (Principal Planner)
Kula, Maui, Hawai`i
EA for New Institute for Astronomy Facility – 2004

Kualono Subdivision (Principal Planner)
Pukalani, Maui, Hawai`i
EA/DBA/CIZ for New Single-Family Residential Subdivision – 2004

Prepared on behalf of Elleair Hawai`i

Maui Palms Hotel Redevelopment (Principal Planner)
Kahului, Maui, Hawai`i
Demolition of Existing Hotel and Construction of New Hotel – 2001

Prepared on behalf of GYA Architects

Hawai`i Army National Guard Armory (Principal Planner)
Puunene, Maui, Hawai`i
EA/LUC SP/CSUP for New Armory and Related Improvements – 2001

Kahului Airport Terminal Improvements (Principal Planner)
Kahului, Maui, Hawai`i
FACD & Feasibility Study for Improvements to Kahului Airport Terminal – 2000

Maui Community College Building “P” (Principal Planner)
Kahului, Maui, Hawai`i
EA/SMA for New Classroom Building – 2000

Kahului Airport Terminal Improvements (Principal Planner)
Kahului, Maui, Hawai`i
EA/SMA for Major Improvements to Airport Terminal – 2003

Maui Community College – Architectural Barrier Removal (Principal Planner)
Kahului, Maui, Hawai`i
EA/SMA for Campus-wide Improvements for Handicapped Access – 2002

Prepared on behalf of Horita Maui

Ka Ono Ulu Estates – Phase 3A (Principal Planner)
Kihei, Maui, Hawai`i
SMA for Single-Family Residential Subdivision – 1994

Ka Ono Ulu Estates – Phase 3A, Increment 2 (Principal Planner)
Kihei, Maui, Hawai`i
SMA for Single-Family Residential Subdivision – 1994

Resume of Glenn F. Tadaki

Prepared on behalf of Hyatt Regency

Hotel Spa and Fitness Facility (Principal Planner)
Ka'anapali, Maui, Hawai'i
EA/SMA for New Spa and Fitness Facility – 1998

Prepared on behalf of J. W. Cameron Center

Cameron Center Expansion (Principal Planner)
Wailuku, Maui, Hawai'i
EA/CSUP/CIZ for Major Expansion of Cameron Center – 1997

Prepared on behalf of Ka Hale A Ke Ola

Waiale Road Application for Housing Development Pursuant to Section 201E-210, HRS
(Principal Planner)
Wailuku, Maui, Hawai'i
EA/201E Request for Housing Development – 1995

Westside Resource Center – Application for New Housing Development Pursuant to Section
201G-118, HRS (Principal Planner)
Wailuku, Maui, Hawai'i
EA/201E Request for New Housing Development – 2001

Prepared on behalf of Kaonoulu Ranch

Kaonoulu Industrial Park (Principal Planner)
Kihei, Maui, Hawai'i
DBA/CIZ for New Light Industrial Park – 1998

Prepared on behalf of Kapalua Land Company

Development of Site 19 (Principal Planner)
Kapalua, Maui, Hawai'i
EA/CPA/CIZ/PD I/PD II/SMA for New Single-Family Residential Subdivision – 1999

Development of Site 29 (Principal Planner)
Kapalua, Maui, Hawai'i
EA/PD II/SMA for New Condominium Project – 1998

Prepared on behalf of Maui Electric Company

Miki Basin Power Plant (Principal Planner)
Miki Basin, Lana'i, Hawai'i
DBA/CIZ for Existing Power Plant – 2001

Resume of Glenn F. Tadaki

Prepared on behalf of Maui Memorial Medical Center

Maui Memorial Medical Center Expansion (Principal Planner)
Wailuku, Maui, Hawai`i
EA for Major Hospital Expansion – 1999

Prepared on behalf of Mitsunaga & Associates

Wailea Fire Station (Principal Planner)
Wailea, Maui, Hawai`i
EA/SMA for New Fire Station – 2001

Prepared on behalf of Moloka`i Ranch

Maunaloa Village – Application for Housing and Commercial Development Pursuant to Chapter 201E-210, HRS and Chapter 201E-215, HRS (Principal Planner)
Maunaloa, Moloka`i, Hawai`i
201E Request for New Housing and Commercial Development – 1994

Halena Camp Improvements (Principal Planner)
Halena, Moloka`i, Hawai`i
SMA/CDUA for New Campgrounds – 1994

Kaupoa House Reconstruction (Principal Planner)
Kaupoa, Moloka`i, Hawai`i
EA/SMA/SSV/CDUA for Building Reconstruction – 1995

Maunaloa Subdivision (Principal Planner)
Maunaloa, Moloka`i, Hawai`i
EA/DBA/CPA/CIZ for New Single-Family Residential Subdivision – 2000

Prepared on behalf of Pacific Rim Land

MF-21 Subdivision (Principal Planner)
Palauea, Maui, Hawai`i
EA/SMA for New Single-Family Residential Subdivision – 2000

Front Street Commercial Building (Principal Planner)
Lahaina, Maui, Hawai`i
EA/Historic District/SMA for New Retail Building – 2002

Prepared on behalf of Peter Hsi & Associates

Kahului Airport Aircraft Rescue and Fire Fighting Training Facility (Principal Planner)
Kahului, Maui, Hawai`i
EA/SMA for New Training Facility – 1995

Resume of Glenn F. Tadaki

Prepared on behalf of Ronald Fukumoto Engineering

Lahaina Wastewater Pump Station Nos. 5 and 6 Force Main Improvements (Principal Planner)
Lahaina, Maui, Hawai'i
EA/SMA for Replacement Force Main – 2002

Prepared on behalf of the Ritz-Carlton

Improvements to the Ritz-Carlton Kapalua (Principal Planner)
Kapalua, Maui, Hawai'i
SMA for Major Upgrades to the Hotel – 2000

Prepared on behalf of Stanford Carr Development

Waikapu Stream Drainage Outlet (Principal Planner)
Waikapu, Maui, Hawai'i
Department of the Army Permit – 2001
Hawai'i Coastal Zone Management Program Consistency Determination – 2001
Section 401 Water Quality Certification – 2002
Application for Dam Construction – 2002

Prepared on behalf of Starwood Resorts

Westin Ka'anapali Ocean Resort Expansion Project (Principal Planner)
Ka'anapali, Maui, Hawai'i
SMA for New Timeshare Resort (Ka'anapali Ocean Resort, Phase II– 2003

Prepared on behalf of Towne Development

Ke Ali'i Kai Condominiums (Principal Planner)
Kihei, Maui, Hawai'i
EA/SMA for New Condominium Project – 2002

Ke Ali'i Kai Subdivision (Principal Planner)

Kihei, Maui, Hawai'i
EA/SMA for New Single-Family Residential Subdivision and Related Offsite
Improvements – 2004

Prepared on behalf of Wailuku Agribusiness

New Facilities for Brewer Environmental Industries (Principal Planner)
Waikapu, Maui, Hawai'i
SUP for New Commercial and Warehouse Facilities – 1996

Waiko Baseyard Subdivision (Principal Planner)

Waikapu, Maui, Hawai'i
EA/DBA/CPA/CIZ for New Heavy Industrial Subdivision – 1998

Resume of Glenn F. Tadaki

Abbreviations:

DBA – District Boundary Amendment

CDUA – Conservation District Use Application

CIZ – Change in Zoning

CPA – Community Plan Amendment

CSUP – County Special Use Permit

EA – Environmental Assessment

EIS – Environmental Impact Statement

FACD – Functional Analysis Conceptual Design

PD II – Project District Phase II

SMA – Special Management Area

SUP – Special Use Permit

SSV – Shoreline Setback Variance

Education M.S., Civil Engineering, Stanford University, 1970
 B.S., Mechanical Engineering, Stanford University, 1966
 B.S., Economics, Claremont Men's College, 1966
 Graduate Work in Hydrology, University of California at Berkeley, 1977-1978
 Graduate Work in Physical Oceanography, University of Hawaii, 1970-1972

Registration Professional/Civil Engineer – Hawaii #03878, 1975
 Certified Diver – Hawaii

Affiliations American Society of Civil Engineers
 American Water Works Association

Expertise Groundwater and Surface Water Development
 Hydraulics and Water System Design
 Flood Control and Drainage
 Coastal Engineering

EXPERIENCE

1989 –Present President	Tom Nance Water Resource Engineering - Honolulu, Hawaii
1972 – 1989	Belt Collins & Associates - Honolulu, Hawaii
Senior Water resource Resources Engineer such as 1979 – Present	Specializes in hydrologic and engineering studies and designs for water development, flood control projects, and unusual drainage applications such as injection wells.
Project Engineer studies and 1975 – 1979	Responsible for hydrologic investigations, engineering feasibility, and design environmental impact statements.
Civil Engineer statements. 1972 – 1975	Engineering feasibility studies; environmental impact assessments and
Planner/Civil Engineer 1970	Donald Wolbrink & Associates, Honolulu, Hawaii Participated in engineering and planning studies.
Civil Engineer/Teacher 1966 – 1968	U.S. Peace Corps Served as volunteer in Micronesia.
Student Engineer 1964 – 1965	Hawaiian Electric Company, Hawaii
Student Engineer 1962 – 1963	Honolulu Board of Water Supply, Hawaii

SELECTED

2011

PROJECTS

Disney Aulani Resort Saltwater Supply and Disposal Wells, Island of Oahu,
 Oahu, Hawaii, 2004

Covanta (HPOWER) Disposal Wells, Island of Oahu, 2011
 New Well at St. Stephens Diocesan Center, Island of Oahu, 2011
 New Well at Fort Shafter, Island of Oahu, 2011
 Lanai Well 15, Island of Lanai, 2011
 DWS Halaula Well, Island of Hawaii, 2011
 DWS Kapulena Well, Island of Hawaii, 2010
 Robinson Well No. 1, Island of Oahu, 2010
 Central Maui Baseyards Well, Island of Maui, 2009
 New Wells at Kealia NWR, Island of Maui, 2009
 Kaanapali P-5A Well, Island of Maui, 2009
 Kamakana Villages Deep Exploratory Well, Island of Hawaii, 2009-2010
 NOAA Ford Island Deep Saltwater Well, Island of Oahu, 2009-2010
 Alii Turf Helemano Well, Island of Oahu, 2009-2010
 Villages of Lealii Potable Water Master Plan, Island of Maui, 2009
 Kaanapali P-3 Well, Island of Maui, 2008
 Kaupulehu Well 11, Island of Hawaii, 2008
 Princeville Well No. 5, Island of Kauai, 2008
 Lanai Well 3, Island of Lanai, 2008
 Waikoloa Drinking Well No. 8, 2008-2009
 Potable Water Master Plan for Kikiaola, Island of Kauai, 2008
 A&B's Waiale Well Nos. 1 and 2, Island of Maui, 2007 and 2008
 Maui Lani Irrigation Well No. 3, Island of Maui, 2007
 DWS' Ahualoa Well, Island of Hawaii, 2006
 Kula 1800 Well Nos. 1 and 2, Island of Maui, 2007 and 2008
 Kamaole Well Nos. 1 and 2, Island of Maui, 2007
 Waikoloa Drinking Water Well No. 7, Island of Hawaii, 2007
 DWS' Waiohinu Well, Island of Hawaii, 2007
 Hapuna Irrigation Well No. 4, Island of Hawaii, 2006
 Kapalawai Resort Potable Wells, Island of Kauai, 2006
 Poipu Wastewater Treatment Plant Disposal Wells, Island of Kauai, 2006
 Ko Olina Resort Deep Saltwater Supply Well, Island of Oahu, 2006
 Kealahewa Potable Wells 1 and 2, Island of Hawaii, 2006
 Falko Potable Wells 3 and 4, Island of Kauai, 2006
 Kaupulehu Potable Well No. 6, Island of Hawaii, 2005-06
 Kaupulehu Irrigation Well No. 6, Island of Hawaii, 2005-06
 Maui Lani Potable Wells 5, 6, and 7, Island of Maui, 2005-06
 Groundwater Exploration Program, Pohnpei Island of FSM, 2005
 Waikoloa Drinking Water Well No. 6, Hawaii Island, 2004
 Honomu Potable Well, Hawaii Island, 2004
 Saltwater Wells for the Hilton Hawaiian Village Lagoon, Oahu, Hawaii, 2004
 Groundwater Modeling of Saltwater Disposal at the Oceanic Institute,
 Oahu, Hawaii, 2004

Stormwater Modeling for the Pacific Missile Range Facility, Kauai, Hawaii,
 2004

Waikoloa Effluent Disposal Well, Hawaii Island, 2004
 Kiahuna Mauka Water Master Plan, Kauai, Hawaii, 2004
 Village at Poipu Water Master Plan, Kauai, Hawaii, 2004

SELECTED

PROJECTS

(continued)

2004

Kukui'Ula Offsite Water Master Plan, Kauai, Hawaii, 2004
 Kaupulehu Potable Well No. 5, Hawaii Island, 2003 to 2004
 Anderson AFB Drinking Water Wells, Guam, 2002 to 2004
 Four Saltwater Disposal Wells at the Oceanic Institute, Oahu, Hawaii, 2003-

Piwai Well Nos. 2 and 3, Kauai, Hawaii, 2001 and 2003
 Hapuna Irrigation Well No. 3, Hawaii Island, 2003
 Kaieie Mauka Well, Hawaii Island, 2002
 Kaupulehu Potable Well No. 4, Hawaii Island, 2002
 Kauaula Well No. 3, Maui, Hawaii, 2002
 Kaluakoi Resort Brackish Irrigation System, Molokai, Hawaii, 2002
 Kaluakoi Potable Water System, Molokai, Hawaii, 2002
 East Maui Irrigation Ditch / Stream Study, Maui, Hawaii, 2001
 Mana Plain Drainage Study, Kauai, Hawaii, 2001
 Hanamaulu Bay Oceanfront Wells, Kauai, Hawaii, 2001
 Evaluation of Koloa Well F, Kauai, Hawaii, 2001
 Trex Disposal Well, Kauai, Hawaii, 2001
 Koele Golf Course Irrigation Supply, Lanai, Hawaii, 2001
 Poeleele Well, Kauai, Hawaii, 2001
 Pump Testing of the DLNR Oahu (Kaimuki) Exploratory Wells, Oahu, Hawaii,

2001

Kealia Pond for Maui National Wildlife Refuge, Maui, Hawaii, 2001
 Falalop Island Water System - Ulithi Atoll, Yap Islands, 2001
 Kii Well Rehab at Kahuku Wildlife Refuge, Oahu, Hawaii, 2001
 Waiiau Pipeline for HECO, Oahu, Hawaii, 2001
 Ameron Quarry, Oahu, Hawaii, 2001
 Department of Water Supply Waiaha Well and Tank, Island of Hawaii, 2001
 South Kohala Groundwater Assessment, Island of Hawaii, 2000
 Lihue Energy Services Center Water System Design, Kauai, Hawaii, 2000
 1.5 MG Reservoir at Mauna Lani WWTP, Island of Hawaii, 2000
 Yin to Gargey Pipeline, Yap Islands, 2000
 HASEKO Ocean Pointe Water Master Plan, Oahu, Hawaii, 2000
 Irrigation Wells for Hualalai Resort, Island of Hawaii, 2000
 CEATECH Plantations Wells 3 and 4, Kauai, Hawaii, 2000
 Dillingham Airfield Water Supply Evaluation, Oahu, Hawaii, 2000
 Hanalilolilo Intake and Pipeline, Molokai, Hawaii, 2000
 Hapuna Well No. 3, Island of Hawaii, 2000
 Launiupoko Well, Maui, Hawaii, 2000
 Department of Water Supply Waiaha Well, Island of Hawaii, 2000
 Design of the Maap-Rumung Pipeline Extension, Yap Islands, 2000
 Gagil-Tomil System Extension, Yap Islands, 2000
 Kaupulehu Potable Well No. 4, Island of Hawaii, 2000
 Kapalawai Resort Water Systems, Kauai, Hawaii, 1999
 Kadday to Yin Pipeline, Yap Islands, 1999
 Kekaha Sugar Plantation Infrastructure Study, 1999
 Maui Land & Pineapple Well in Hailiimaile, Maui, Hawaii, 1999
 Mauna Lani Resort Irrigation Well Nos. 8 and 9, South Kohala, 1999
 Coral Creek Golf Course Well Development, Oahu, Hawaii, 1998
 Uplands Water System Design, South Kohala, Hawaii, 1998
 Puu O Hoku Ranch Well Development, Molokai, Hawaii, 1998

**SELECTED
PROJECTS**

(continued)

-
- Kailua Well Development for East Maui Irrigation, Maui, Hawaii, 1998-99
 Waikele Stream Evaluation, Oahu, Hawaii, 1998
 Groundwater Development in Eyeb Valley, Yap Islands, 1998-99
 Drainage Assessment for Hawaii Reserves, Inc., Laie, Oahu, Hawaii, 1998-99
 Well Development at Papaa Bay Ranch, Kauai, Hawaii, 1998-99
 Bay View Golf Course Irrigation Wells, Kaneohe, Oahu, 1996-97
 Molokai Ranch Replacement Pipelines, Molokai, 1996-97
 Molokai Ranch 15 MG Storage Reservoirs, Molokai, 1996-97
 Waiola Well, Molokai Ranch, 1996-97
 Parker Wells Outfitting, Lalamilo, Hawaii, 1996-97
 Royal Kunia Golf Course Irrigation Well, 1996
 Hawaii Reserves, Inc. Contested Case, Laie, Oahu, 1996
 Puuloa Caprock Users Group Master Plan, Ewa, Oahu, 1996
 Kauai Electric-Chevron Groundwater Evaluation, Port Allen, Kauai, 1997
 Ewa Caprock Aquifer Monitoring For 1994-97, Oahu, Hawaii
 Kaupulehu Potable Wells Evaluation, Island of Hawaii, 1995
 Pecatu Graha Project, Bali, Indonesia, 1995
 Taman Dayu Well Drilling, Surabaya, Indonesia, 1995
 Princeville Water Master Plan, Kauai, Hawaii, 1995
 Kaupulehu Brackish Pond Turnover, Island of Hawaii, 1995
 Honolulu Resource Recovery Venture Disposal Wells Report, Oahu, Hawaii,
- 1995
- Outfit Mauna Lani Resort's Parker Wells, Island of Hawaii, 1995
 Princeville PUC 1995 Rate Case, Kauai, Hawaii, 1995
 EPWDC Non-Potable Source Plan, Oahu, Hawaii, 1995
 Kaupulehu Disposal Wells, Island of Hawaii, 1995
 DWS Piihonua Well Pump Test, Maui, Hawaii, 1995
 Kaupulehu Potable Well Nos. 1 and 2, Island of Hawaii, 1995
 Ookala Well (DWS), Maui, Hawaii, 1995
 Waiahole Irrigation Company, Oahu, Hawaii, 1995
 Gentry Area 26 Well, Oahu, Hawaii, 1995
 Second Honouliuli 228 Tank, Oahu, Hawaii, 1995
 Lanai Well No. 14 Outfitting, Lanai, Hawaii, 1995
 Big Island Country Club Estates Potable Wells Certification, Island of Hawaii,
- 1995
- Mauna Kea Hotel Drainage Improvements, Island of Hawaii, 1995
 Gentry Area 26 Irrigation Station, Oahu, Hawaii, 1995
 Waialua Sugar Company Pump 3 DOH Certification, Oahu, Hawaii, 1994
 Islands Saltwater Well Permits, Mauna Lani Resort, Island of Hawaii, 1994
 Kehena Ditch Evaluation For Kohala Ranch, Island of Hawaii, 1994
 Chiyoda Makakilo Golf Course, Oahu, Hawaii, 1994
 Gentry Waiawa Recharge Study, Oahu, Hawaii, 1994
 Gentry East-Side Irrigation, Oahu, Hawaii, 1994
 Kawaihae Cogeneration Supply and Disposal Wells, Island of Hawaii, 1994
 Kapolei Irrigation Pump Station, Oahu, Hawaii, 1994
 Campbell Agricultural Lands Water System, Oahu, Hawaii, 1994
 AES Federal UIC Permit, Oahu, Hawaii, 1994
 Campbell Estate's Malaekahana Water System, Oahu, Hawaii, 1994
 Hauula Well Evaluation, Oahu, Hawaii, 1994
 Kapalua's Well No. 3, Maui, Hawaii, 1994
- SELECTED PROJECTS**
(continued)

Waikoloa's Tank 1200S-2, Island of Hawaii, 1994
 Gentry Golf Course Irrigation Pump Station, Oahu, Hawaii, 1994
 HRT's Makaha Site Groundwater Evaluation, Oahu, Hawaii, 1994
 Kalaeloa Partners' New Monitoring Wells, Oahu, Hawaii, 1994
 Castle & Cooke Central Oahu Master Plan, Oahu, Hawaii, 1994
 Kaupulehu Makai Irrigation Well Outfitting, Island of Hawaii, 1994
 Villa Escudero, Philippine Islands, 1994
 HPOWER Disposal Wells DOH Report, Oahu, Hawaii, 1994
 Lost River Water Supply Evaluation, Guam, 1994
 Makakilo Golf Course, Oahu, Hawaii, 1994
 Lanai Water System Development, Lanai, Hawaii, 1993
 Kapolei City Irrigation System, Oahu, Hawaii, 1993
 Laie Water Master Plan, Oahu, Hawaii, 1992-93
 Kohala Ranch Well Nos. 3 and 4, Island of Hawaii, 1992-93
 Mauna Lani Resort's Parker Wells, Island of Hawaii, 1992-93
 SNM Rota Island Resort, Rota Island, CNMI, 1992-93
 ABB Cogeneration Plant Saltwater Supply Wells, Oahu, Hawaii, 1993
 Keauhou High Level Well Development, Island of Hawaii, 1991-93
 Waiawa by Gentry Water System Development, Oahu, Hawaii, 1992-93
 Kaupulehu Resort Water System Development, Island of Hawaii, 1990-93
 Kona Country Club Irrigation Well, Island of Hawaii, 1991-92
 Lihilani Groundwater Development, Oahu, Hawaii, 1992
 Honouliuli Wastewater Reclamation and Reuse Study, Oahu, Hawaii, 1992
 Big Island Country Club Irrigation Well, Island of Hawaii, 1992
 Hapuna Golf Course Irrigation Wells, Island of Hawaii, 1991-92
 Ewa Caprock Aquifer Computer Model, Oahu, Hawaii, 1991-92
 South Kohala Water Master Plan, Island of Hawaii, 1991-92
 Princeville Well Development, Kauai, Hawaii, 1992
 Waikoloa Well Nos. 1, 2, and 3, Island of Hawaii, 1990-92
 Waikoloa Water System Master Plan, Island of Hawaii, 1991
 Lalamilo Water System Expansion, Island of Hawaii, 1991
 Saltwater Wells for the Islands at Mauna Lani Resort, Island of Hawaii, 1991
 Bali Golf & Country Club Irrigation Wells, Bali, Indonesia, 1990-91
 Honouliuli Well Nos. 1 to 6, Oahu, Hawaii, 1990-91
 Ewa by Gentry Irrigation System Development, Oahu, Hawaii, 1990-92
 Saltwater Supply and Disposal Wells for the AES Cogeneration Plant, Oahu,
 Hawaii,
 1990
 Makakilo Golf Course Supply Wells and Desalination Plant Design, Oahu,
 Hawaii,
 1990
 Kapalua Resort Well Nos. 1 and 2, Maui, Hawaii, 1990-91
 Lalamilo Water System, Mauna Lani Resort, Island of Hawaii, 1989
SELECTED
PROJECTS
 (continued)
 Clark AFB Well Development, Philippine Islands, 1988-90
 Mangilao Golf Course Irrigation Well Development, Guam, 1988-90
 Waikoloa Stream Flood Study, Island of Hawaii, 1990
 Ewa Water System Development, Oahu, Hawaii, 1986-88
 Reclamation & Beach Construction, Sentosa, Singapore, 1986-88
 Waikoloa Beach Resort Irrigation Well Development, Island of Hawaii, 1988

Mauna Lani Resort Irrigation Well Development, Island of Hawaii, 1988, 1990,
and 1992
Westin Kauai Irrigation Well Development, Kauai, Hawaii, 1987-88
Makaiwa Bay Beach Development, Mauna Lani Resort, Island of Hawaii, 1986
Kosrae Groundwater Development, Trust Territory, 1984
Palau Islands Groundwater Development, 1984-88
Keauhou Resort Golf Course Irrigation Well Development, Island of Hawaii,
1983-84
Kula Up-Country Water Study, Maui County, Hawaii, 1983-84
Ewa Water Master Plan, Oahu, Hawaii, 1983-84
Lalamilo Water System, Island of Hawaii, 1984 & 1988
Beach Construction, Mauna Lani Bay Hotel, Island of Hawaii, 1983
Southern Water System, Yap State, Federated States of Micronesia, 1983
Water Development, Saipan, CM, 1983
Molokai Water Master Plan, Molokai, Hawaii, 1982
Yap Island Groundwater Exploration & Development, Yap State, 1982
Molokai Ranch Mountain Water System, Molokai, Hawaii, 1983 & 1988
Princeville Golf Course Irrigation System, Kauai, Hawaii, 1981
Kiahuna Golf Course Irrigation System, Kauai, Hawaii, 1981
Prototype High Capacity Injection Well Field Testing, Waiale, Maui, 1978-80
Irrigation Well, Liliuokalani Trust, Island of Hawaii, 1979
Yap Island Sewage Treatment Plant Ocean Outfall, Trust Territory, 1980
Design of the Gagil-Tomil Water System, Yap State, 1981
Tripler Hospital Traffic Study, Oahu, Hawaii, 1979
Kaunapali Harbor Breakwater Repair, Lanai, Hawaii, 1980 & 1982
Beach Development Study for Mauna Loa Land Resort, Hawaii, 1979
Drainage Master Plan, Waiale Development, Kahului, Maui, Hawaii
Conceptual Water Development Plans for Colonia, Gagil-Tomil, and Southern
Yap areas of Yap State, Trust Territory of the Pacific Islands, 1980
Appeal of FIA Flood Hazard Designations for the Mauna Loa Land, Inc.
Resorts, South Kohala, Hawaii, 1980
Irrigation Wells for Kiahuna Golf Village, Koloa, Kauai, Hawaii, 1979
Yap Islands Groundwater Investigation, Yap State, 1979
Yap Wastewater Facility Plan, Trust Territory of the Pacific Islands, 1978
Wailua Basin Water Resources Development Study (Dam Feasibility Study,
Hydropower, Flood Control, Irrigation), Kauai, Hawaii, 1976-77
Irrigation Study, Kilauea Agricultural Subdivision, Kauai, Hawaii, 1977
Waimea to Kawaihae Water Transmission Line Study, Hawaii, 1977
Sewerage Master Plan, U.S. Naval Facility, Diego Garcia, 1976

SELECTED
PROJECTS
(continued)

South Kohala Groundwater and Deep Well Evaluation Study, Hawaii, 1975
Fort Shafter Sewage Pump Station, Oahu, Hawaii, 1975
Tafuna Industrial Park, Tutuila Island, American Samoa, 1974
Kapalua Master Plan, Maui, Hawaii, 1974

RECEIVED

JUN 17 2013

PACIFIC RIM LAND, INC
MAUI - MAIN

11 Puunene Avenue
Kahului, Hawaii 96732-1608
www.abprop.com
Tel (808) 877-5523
Fax (808) 871-7497

June 13, 2013

Ms. Blanca Lafolette
Project Coordinator
Pacific Rim Land, Inc.
1300 N. Holopono Street
Kihei, HI 96753

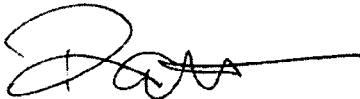
Dear Blanca:

Per your request, representatives of HC&S did a field inspection of the 20' wide roadway easement and the 10' wide concrete irrigation ditch on Lot 2, 86.030 acres and the adjacent parcels, the general area is circled on the enclosed map.

The 20' wide roadway terminates on the Southwest corner of Lot 2 and is nonexistent on the adjacent parcel. The 10' wide concrete irrigation ditch terminates on the North side (just outside of the boundary) and about 300' on the Southwest side of Lot 2. Both the roadway and irrigation ditch are no longer in use by HC&S.

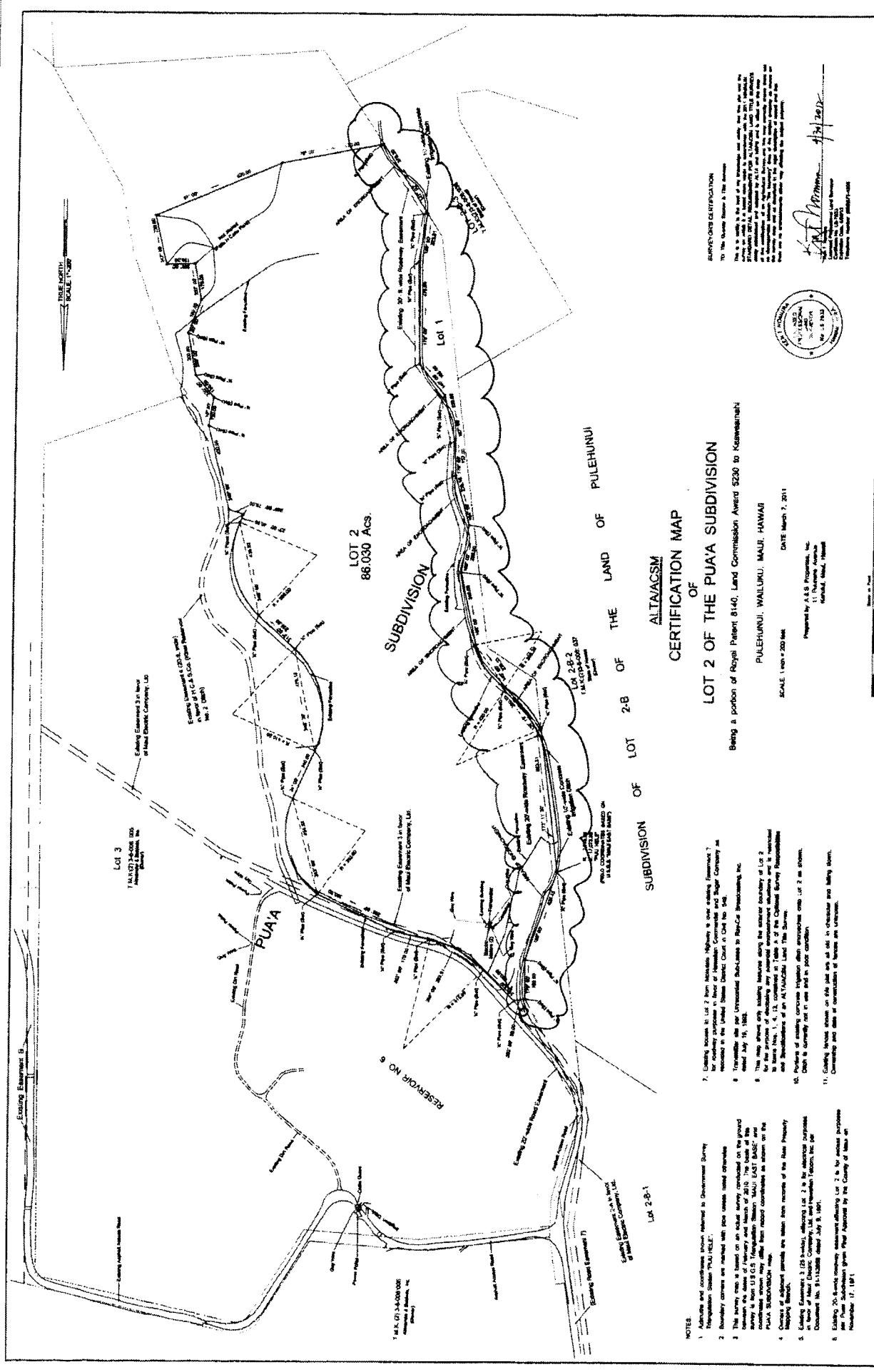
Please do not hesitate to call to discuss this matter.

Sincerely,



RANDALL H. ENDO
Vice President

Enclosure



LOT 2
86.030 Acs

SUBDIVISION
OF
LOT 2-B OF
THE LAND OF
PULEHUHUI

ALTAACSM
CERTIFICATION MAP
OF
LOT 2 OF THE PUA'A SUBDIVISION

Being a portion of Royal Patent 8140; Land Commission Award 5230 to KAUWAHAIHI
PULEHUHUI, WAILUKU, MAUI, HAWAII

SCALE 1:401 = 200 Feet DATE March 7, 2014

Prepared by A.A.S. Engineers, Inc.
11 Thurston Avenue
Honolulu, Hawaii, 96813



SURVEYORS CERTIFICATION
To The Owner Herein & The Public
This is to certify that the above described map, plan and plat, including the boundaries, areas, bearings, distances, and other data thereon, were prepared by me or under my direct supervision and that I am a duly licensed and registered Professional Engineer in the State of Hawaii, License No. 15539, and that I am a member in good standing of the Hawaii Engineering Council, Inc. I hereby certify that the map, plan and plat were prepared in accordance with the provisions of the Hawaii Land Commission Act, Chapter 215, Hawaii Revised Statutes, and that the map, plan and plat are true and correct copies of the original as shown on the ground.

- NOTES**
1. All bearings and conditions shown referred to Government Survey.
 2. All bearings and conditions shown referred to Hawaiian Survey.
 3. The survey map is based on an actual survey conducted on the ground between the lines of February and March of 2013. The boundaries of the lots are shown as shown on the ground.
 4. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements and is not intended to show any proposed improvements.
 5. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements.
 6. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements.
 7. Existing access to Lot 2 from the north, which is under existing easement 17, is hereby confirmed to be in fee simple.
 8. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements.
 9. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements.
 10. The map shows only existing features shown on the ground and does not show any proposed improvements and is not intended to show any proposed improvements.
 11. Existing access shown on the plat with all set in character and being shown.

ORDINANCE NO. 3977

BILL NO. 74 (2012)

A BILL FOR AN ORDINANCE AMENDING TITLE 19, MAUI COUNTY CODE,
RELATING TO M-3 RESTRICTED INDUSTRIAL DISTRICT

BE IT ORDAINED BY THE PEOPLE OF THE COUNTY OF MAUI:

SECTION 1. Title 19, Maui County Code, is amended by adding a new chapter to be appropriately designated and to read as follows:

"Chapter 19.25

M-3 RESTRICTED INDUSTRIAL DISTRICT

Sections:

- 19.25.010 Purpose and intent.**
- 19.25.020 Permitted uses.**
- 19.25.030 Accessory uses and structures.**
- 19.25.040 Special uses.**
- 19.25.050 Development standards.**
- 19.25.060 Rulemaking authority.**

19.25.010 Purpose and intent. Those uses which include the manufacture, processing, storage or treatment of goods from raw materials are permitted in the M-3 restricted industrial district. The district is intended to include manufacturing and nuisance industries. General retail and office uses are specifically excluded from this district.

19.25.020 Permitted uses. Within the M-3 restricted industrial district, no building, structure, or premises shall be used, and no building or structure hereafter erected, structurally altered, replaced, or enlarged except for one or more of the following uses:

Uses	Notes and exceptions
Acetylene gas manufacture or bulk storage	
Acid manufacture	
Alcohol manufacture	

Ammonia, bleaching powder or chlorine manufacture	
Asphalt manufacture of refueling and asphaltic concrete plant	
Automobile wrecking	
Blast furnace or coke oven	
Boiler and steel works	
Brick, tile or terra cotta manufacture	
Canneries	
Cement, lime, gypsum, or plaster of paris manufacture	
Chemical manufacture	
Concrete or cement products manufacture	
Crematories, morgues	
Energy systems, power plants, substations, and utility facilities, major	
Explosives manufacture or storage	
Factories	
Fertilizer manufacture	
Fish canneries	
Foundries	
Freight classification yard (railroad)	
Garbage, offal or dead animals reduction or dumping	
Gas manufacture	
Glue manufacture	
Heavy equipment storage, servicing, and sales	
Junk establishment used for storing, depositing, keeping junk or similar goods for business purposes	
Landfill, solid waste processing and disposal	
Lime kilns	
Lumber yard and wood treatment facilities	
Machine shops	
Oilcloth or linoleum manufacture	
Oil storage plants	
Paint, oil (including linseed), shellac, turpentine, lacquer, or varnish manufacture	
Petroleum or biofuel product manufacturing or wholesale storage of	

petroleum or biofuels	
Petroleum refinery	
Planing mill	
Plastic manufacture	
Quarry or stone mill	
Railroad repair shops	
Recycling processing facilities or material recycling and recovery facilities	
Rock, sand, gravel, or earth excavation, crushing or distribution	
Rolling mills	
Saw mill	
Ship works	
Slaughter of animals	
Soap manufacture	
Stock yard or feeding pens	
Sugar mills and refineries	
Tannery or the curing or storage of raw hides	
Telecommunication towers, antenna and equipment	
Utility facilities, major	
Wood treatment plants	
In general those uses which may be obnoxious or offensive by reason of emission of odor, dust, smoke, gas, noise, vibration and the like, and not allowed in any other district	Provided, however, that any use not specified in this section shall not be permitted unless approved by the planning director as conforming to the intent of this title

19.25.030 Accessory uses and structures. The following uses and structures, located on the same lot, are deemed accessory, customary, incidental, usual, and necessary to the above permitted uses in the district:

Uses	Notes and exceptions
Energy systems, small-scale	
Fences, walls, patios, decks, and other landscape features	
Garages, porte-cochere, mailboxes, ground signs, and trash enclosures	
Office space related to the on-site permitted use	
Retail, or indoor product display area	Limited to 20% of gross floor area
Security/watchman or custodian outbuildings	

Subordinate uses and structures which are determined by the planning director to be clearly incidental and customary to the permitted uses listed herein	
--	--

19.25.040 Special uses. The following uses and structures shall be permitted in the M-3 restricted industrial district provided a County special use permit, pursuant to section 19.510.070, Maui County Code, has first been obtained.

A. Vent pipes, fans, chimneys, antennae, and equipment on roofs that exceed 199 feet.

19.25.050 Development standards.

	M-3	Notes and exceptions
Minimum lot area (square feet)	10,000	
Minimum lot width (in feet)	75	
Maximum building height (in feet)	90	
Minimum yard setback (in feet)		
Front	None	
Side and rear	0 or the same as the adjoining zoning category whichever is greater	
Free standing antenna or wind turbine structures height and setback	Maximum height of 199 feet and shall be set back 1 foot for every foot in height from all property lines	
Accessory structures allowed within setback area	Mailboxes, trash enclosures, boundary walls, and ground signs	

19.25.060 Rulemaking authority. The planning director may adopt rules to implement this chapter."

SECTION 2. This ordinance shall take effect upon its approval.

APPROVED AS TO FORM
AND LEGALITY:

A handwritten signature in black ink, appearing to read 'M. Hopper', written over a horizontal line.

MICHAEL J. HOPPER
Deputy Corporation Counsel
County of Maui

S:\ALL\MJH\ORDS\Amend 19.25 M-3 5-15-12.doc

WE HEREBY CERTIFY that the foregoing BILL NO. 74 (2012)

1. Passed FINAL READING at the meeting of the Council of the County of Maui, State of Hawaii, held on the 21st day of September, 2012, by the following vote:

Dennis A. MATEO Chair	Joseph PONTANILLA Vice-Chair	Gladys C. BAISA	Robert CARROLL	Eleanora COCHRAN	Donald G. COUCH, JR.	G. Riki HOKAMA	Michael P. VICTORINO	Michael B. WHITE
Aye	Aye	Aye	Aye	Aye	Aye	Aye	Aye	Excused

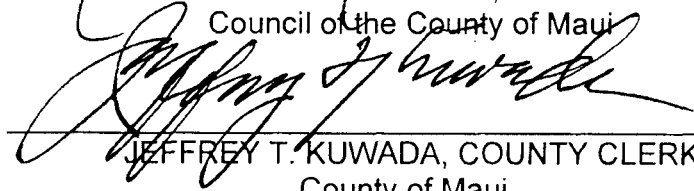
2. Was transmitted to the Mayor of the County of Maui, State of Hawaii, on the 21st day of September, 2012.

DATED AT WAILUKU, MAUI, HAWAII, this 21st day of September, 2012.

COUNTY OF MAUI
CLERK'S OFFICE
100 WAILUKU AVENUE
WAILUKU, HAWAII 96793
PHONE: (808) 243-2100
FAX: (808) 243-2101

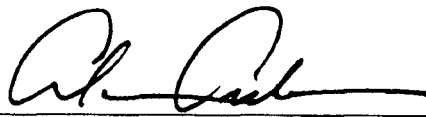


DENNIS A. MATEO, CHAIR
Council of the County of Maui



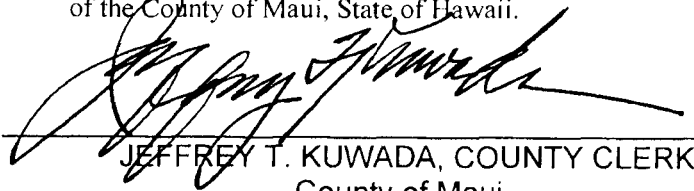
JEFFREY T. KUWADA, COUNTY CLERK
County of Maui

THE FOREGOING BILL IS HEREBY APPROVED THIS 24 DAY OF September, 2012.



ALAN M. ARAKAWA, MAYOR
County of Maui

I HEREBY CERTIFY that upon approval of the foregoing BILL by the Mayor of the County of Maui, the said BILL was designated as ORDINANCE NO. 3977 of the County of Maui, State of Hawaii.



JEFFREY T. KUWADA, COUNTY CLERK
County of Maui

Passed First Reading on September 7, 2012.
Effective date of Ordinance September 24, 2012

COUNTY OF MAUI
CLERK'S OFFICE
100 WAILUKU AVENUE
WAILUKU, HAWAII 96793
PHONE: (808) 243-2100
FAX: (808) 243-2101

I HEREBY CERTIFY that the foregoing is a true and correct copy of Ordinance No. 3977, the original of which is on file in the Office of the County Clerk, County of Maui, State of Hawaii.

Dated at Wailuku, Hawaii, on

County Clerk, County of Maui

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



WILLIAM J. AILA, JR.
CHAIRPERSON
WILLIAM D. BALFOUR, JR.
SUMNER ERDMAN
NEAL S. FUJWARA
LORETTA J. FUDDY, A.C.S.W., M.P.H.
JONATHAN STARR
TED YAMAMURA
WILLIAM M. TAM
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

November 8, 2012

Ref: 4927-02 & 03.wcp

Ms. Toni Gonsalves
Beylik Drilling & Pump Service, Inc.
91-259 Olai Street #A
Kapolei, HI 96707

Dear Ms. Gonsalves:

Well Construction Permit
CMBY-Wells 1 & 2 (Well Nos. 6-4927-002 & 003), Kahului, Island of Maui

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 Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70218.

Sincerely,

Handwritten signature of William J. Aila, Jr. in black ink.
WILLIAM J. AILA, JR.
Chairperson

Enclosures

c: CMBY 2011 Investment LLC (with applicable comments - DOH SDWB, WWB, Maui Dept. of Planning)

WELL CONSTRUCTION PERMIT

CMBY-Wells 1 & 2, Well Nos. 6-4927-002 & 003

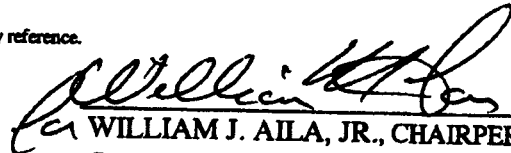
Note: This permit shall be prominently displayed at the construction site until the work is completed

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 CMBY-Wells 1 & 2 (Well Nos. 6-4927-002 & 03) at TMK (2) 3-8-008:019, Island of Maui, 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/cwrm/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.
7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part 1 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).
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 22, 2012**

Expiration Date: **October 22, 2014**


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

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

Printed Name: Toni Gonsalves Firm or Title: Beylik Drilling & Pump Service Inc.

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

Attachment

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



WILLIAM J. AILA, JR.
CHAIRPERSON
WILLIAM D. BALFOUR, JR.
SUMNER ERDMAN
NEAL S. FUJIWARA
LORETTA J. FUDDY, A.C.S.W., M.P.H.
JONATHAN STARR
TED YAMAMURA
WILLIAM M. TAM
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

November 8, 2012

Ref: 4927-02 & 03.pip

Ms. Toni Gonsalves
Beylik Drilling & Pump Service, Inc.
91-259 Olai Street #A
Kapolei, HI 96707

Dear Ms. Gonsalves:

Pump Installation Permit
CMBY-Wells 1 & 2 (Well Nos. 6-4927-002 & 003), Pulehunui, Island of Maui

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.

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 Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 (Maui), extension 70218.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. Aila, Jr.", written over a horizontal line.
WILLIAM J. AILA, JR.
Chairperson

Enclosure

c: CMBY 2011 Investment LLC

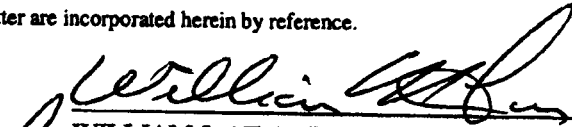
PUMP INSTALLATION PERMIT
CMBY-Wells 1 & 2, Well No. 6-4927-002 & 003

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 CMBY-Wells 1 & 2 (Well Nos. 6-4927-002 & 03) at TMK (2) 3-8-008:019, Maui, 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 300 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/info_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 22, 2012
Expiration Date: October 22, 2014


WILLIAM J. AILA, JR., 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 #: AC-21896 Date: _____

Printed Name: Toni Gonsalves Firm or Title: Beylik Drilling & Pump Service Inc.

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

Attachments

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



WILLIAM J. AILA, JR.
CHAIRPERSON
WILLIAM D. BALFOUR, JR.
SUMNER ERDMAN
LORETTA J. FUDDY, A.C.S.W., M.P.H.
NEAL S. FLINCHBAUGH
TED YAMAMURA
WILLIAM M. TAM
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 681
HONOLULU, HAWAII 96809

May 21, 2012

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawacka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
CMBY Wells 1 & 2 (Well No. 4927-02 & 03) TMK (2) 3-8-008:019

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 June 21, 2012.** 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 Charley Ice of the Commission staff at 587-0218.

CI: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, §11-20-20.
- This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical processes 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: Darryl Lum

Phone: 586-4309

Signed: Darryl Lum

Date: 5/29/12

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.

12/2984



WILLIAM J. AILA, JR.
CHAIRPERSON
WILLIAM D. BALFOUR, JR.
SUMNER EROMAN
LORETTA J. FUDDY, A.C.S.W., M.P.H.
NEAL S. FLUSHARA
TED YAMAGUCHI
WILLIAM M. TAM
DEPUTY DIRECTOR

DEPT. OF PLANNING
COUNTY OF MAUI

MAY 23 2012

RECEIVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96808

May 21, 2012

Mr. William Spence, Director
Planning Department
County of Maui
250 South High Street
Wailuku, HI 96793

RFC 2012/0521

Dear Mr. Spence:

**Special Management Area Use Permit Requirements for
Well Construction/Pump Installation Permit Application
CMBY Wells 1 & 2 (Well No. 4927-02 & 03)**

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 SMA permitting requirements specific to your division. **Please respond by returning this cover memo form by June 21, 2012.** 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 Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM J. AILA, JR.
Chairperson

Cl:ss

RESPONSE:

- This well project requires does not require a SMA. If a SMA is required it has has not been approved and is is not currently active.
- Other relevant rules/regulations, information, or recommendations are attached.
- No objections
- Other comments: Regulations of all applicable governmental agencies should be followed.

Contact Person: Kurt Wollenhaupt Phone: 808 270 1789
Signed: Kurt Wollenhaupt Date: 6/1/12

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



WILLIAM J. AILA, JR.
CHAIRPERSON
WILLIAM D. BALFOUR, JR.
SUMNER BRIDGMAN
LORETTA J. FUDDY, A.C.S.W., M.P.H.
NEAL S. FURUKAWA
TED YAMAMURA
WILLIAM M. TAM
DEPUTY CHAIRPERSON

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 821
HONOLULU, HAWAII 96808

May 21, 2012

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
CMBY Wells 1 & 2 (Well No. 4927-02 & 03) TMK (2) 3-8-008:019

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 June 21, 2012. 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 Charley Ice of the Commission staff at 587-0218.

CI: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 installing 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 DCH rules/regulations, information, or recommendations are attached
- In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.
- No comments/objections

Contact Person: MICHAEL YAMAMURA

Phone: 586-4258

Signed: [Signature]

Date: 5/23/12

CWRM Application Source: CMBY Wells 1 & 2 (4927-02,-03)

TMK: (2) 3-8-008:019

Safe Drinking Water Branch (SDWB) - Engineering Section

- This well qualifies as a source that serves a regulated public water system. Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.
- All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.
- Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.
- The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water

CWRM Well Application Standard Comments (SDWB)

Vers. 9/30/09

quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

- All public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.
- Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.
- All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.
- All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled

CWRM Well Application Standard Comments (SDWB)

Vers. 9/30/09

and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.

- All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai'i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

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

SDWB Underground Injection Control (UIC) Section

Injection wells used for the subsurface disposal of wastewater, sewage effluent, or surface runoff are subject to environmental regulation and permitting under Hawai'i Administrative Rules, Title 11, Chapter 11-23, titled Underground Injection Control (UIC). The Department of Health's approval must be first obtained before any injection well construction commences. A UIC permit must be issued before any injection well operation occurs.

Authorization to use an injection well is granted when a UIC permit is issued to the injection well facility. The UIC permit contains discharge and operation limitations, monitoring and reporting requirements, and other facility management and operational conditions. A complete UIC permit application form is needed to apply for a UIC permit.

A UIC permit can have a valid duration of up to five years. Permit renewal is needed to keep an expiring permit valid for another term. For further information about the UIC permit and the Underground Injection Control Program, please contact the UIC staff of the Safe Drinking Water Branch at 586-4258.

The UIC Program has the following comments specific to this Application:

1. In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well's groundwater quality include

CWRM Well Application Standard Comments (SDWB)

Vers. 9/30/09

wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

2. The siting of a drinking water source below the UIC line may restrict new and existing injection well construction. New injection wells will be prohibited within setback areas defined in Chapter 11-23. If this drinking water source will serve a regulated public water system, the applicant will be required to inform landowners located within the setback surrounding the well of this proposed action because it will affect the injection well development potential of their properties.
3. Well water quality should be initially and periodically tested for its acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well's recharge area may, over time, have an unacceptable effect on the well's water quality. Well construction materials and related equipment could also affect water quality.

WARNING! As the owner of a privately-owned well, you should **NOT** assume that water from your well is safe for consumption. It is your responsibility to make sure that your well water is safe to drink. The only way to do this is to have your well regularly tested for bacteriological and chemical contaminants.

There are no regulations controlling water quality in private wells serving individual residences as there are for public water systems (public or privately owned utilities supplying water to 25 or more people or 15 service connections). In other words, there are no enforceable limits for contaminants and no requirements for regular testing. Private wells are often found in rural areas, where many activities such as onsite wastewater disposal can contaminate the ground water.

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) RECOMMENDATIONS

The EPA recommends that private well owners test their well water each year for such contaminants as Total Coliform Bacteria, Nitrates, as well as any other contaminants that may be of concern in your area. More frequent testing may be appropriate if you suspect a problem. EPA also suggests that you consider testing for pesticides, organic chemicals, and heavy metals before using it for the first time. Please refer to the EPA website on Private Drinking Water Wells at <http://www.epa.gov/safewater/privatewells/faq.html>

OTHER CONTAMINANTS

Water testing can be very expensive. It is important that you spend time to identify what other potential contaminants may be of concern. Please refer to the EPA website on Private Drinking Water Wells at <http://www.epa.gov/safewater/privatewells/whatyoucando.html> for more helpful information. Be aware of what and how you use and dispose of household and garden chemicals. Also determine the location of nearby septic tanks or cesspools, and agricultural or industrial activities in the area. General information on known chemical contamination of ground water in Hawaii can also be found at the DOH website www.hawaii.gov/health/environmental/water/sdwb/conmaps/pdf/conmaps05.pdf

LABORATORIES

Local commercial laboratories can be found in the yellow pages of the telephone book under "Laboratories, Analytical." Whenever possible, utilize a laboratory that is certified or approved for the specific drinking water tests and carefully follow their instructions for collecting, storing, and transporting the samples. Just be sure to ask the lab to use EPA approved methods for drinking water analysis. A list of labs certified or approved by the Department of Health can be found at www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/Testing%20Labs.pdf. As lab certification status changes constantly, confirm their status when you contact the lab. Please note that the list is limited to currently regulated contaminants in public water systems.

RESULTS

Once the lab provides you with the test results, you will be in a better position to determine if your well water is safe to drink or what contaminant you need to treat for. Generally, you should compare the results with Federal (www.epa.gov/safewater/mcl.html) and State (www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/State%20MCL.pdf) drinking water standards. Where your test results are greater than the State or Federal maximum contaminant levels, your well water should be considered as **unsafe** for consumption.



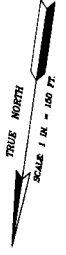
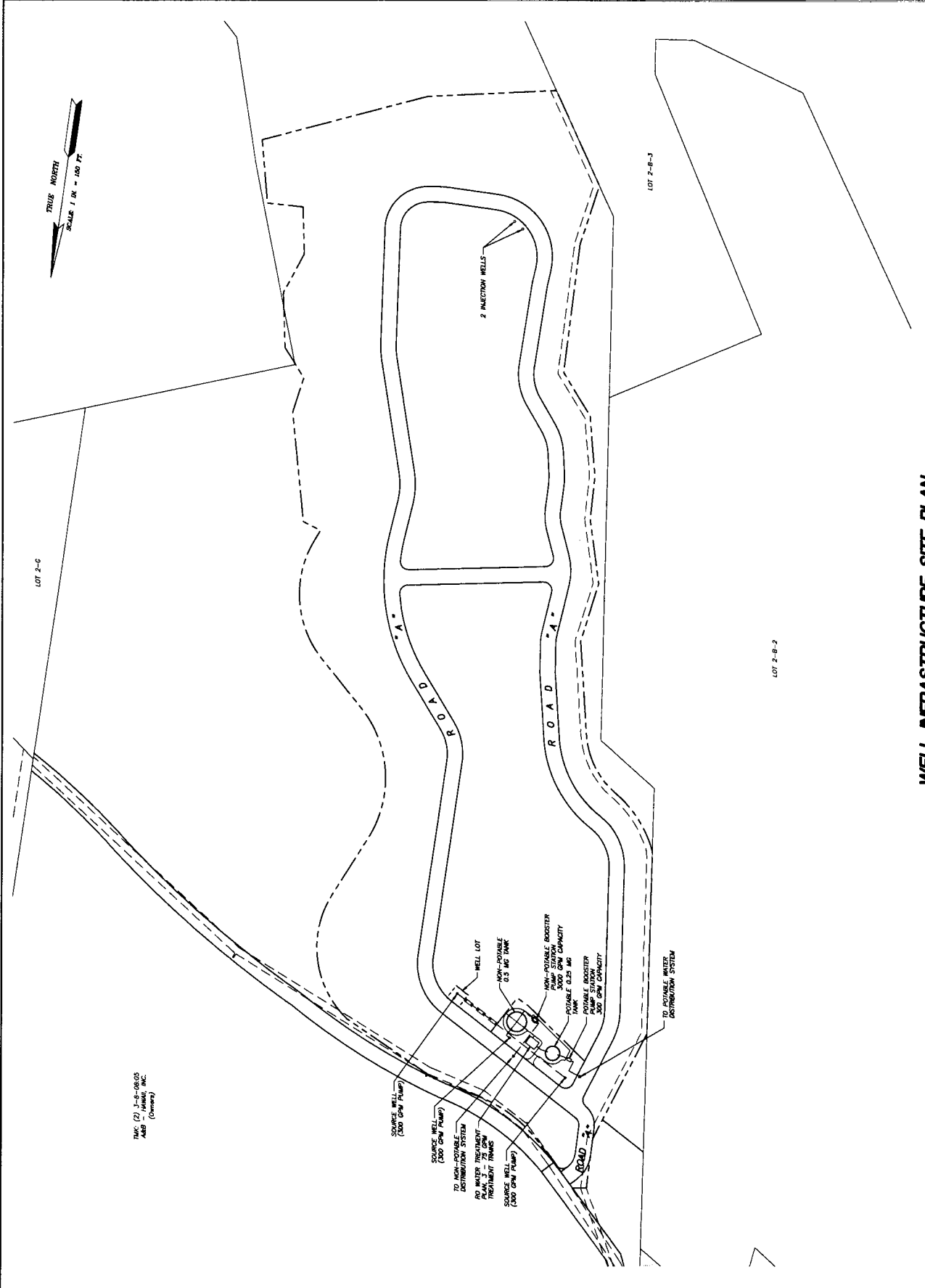
SIGNATURE: _____ DATE: _____
 T.M.K. (2) 3-8-08:19

PUNENE HEAVY INDUSTRIAL SUBDIVISION
WELL INFRASTRUCTURE SITE PLAN
 T.M.K.: (2) 3-8-08: 19
 PUNENE, MAUI, HAWAII

REVISION	DATE	NOTE

DESIGNED BY: S.A.O.
 DRAWN BY: L.C.O.
 PROJECT NO.: 2011-48
 DRAWING NAME: SITE-WELL
 DATE: 3-8-13
 SHEET NO. _____

OF SHEETS



T.M.K. (2) 3-8-08:19
 A.M.B. - HAWAII, INC.
 (Owner)

WELL INFRASTRUCTURE SITE PLAN
 SCALE 1 IN. = 100 FT.

CARLSMITH BALL LLP

STEVEN S.C. LIM 2505
JENNIFER A. BENCK 8357
ASB Tower, Suite 2200
1001 Bishop Street
Honolulu, Hawaii 96813
Tel. No.: (808) 523-2500
Facsimile No.: (808) 523-0842

Attorneys for Petitioner
CMBY 2011 INVESTMENT, LLC

BEFORE THE LAND USE COMMISSION
OF THE STATE OF HAWAII

In the Matter of the Petition of

CMBY 2011 INVESTMENT, LLC

To Amend the Agricultural Land Use District
Boundaries into the Urban Land Use District
For Certain Lands Situate at Pulehunui,
District of Wailuku, Island and County of
Maui, State of Hawai'i, consisting of
approximately 86.030 acres, Tax Map Key No.
(2) 3-8-008:019

DOCKET NO. A13-797

CERTIFICATE OF SERVICE

CERTIFICATE OF SERVICE

I hereby certify that service of a copy of Petitioner's First List of Witnesses; Petitioner's First List of Exhibits; Exhibits 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 39, 40, 41, 42, in the above-referenced Docket was made by depositing the same with the United States Mail, by certified mail, postage prepaid, or by hand delivery, on July 29, 2013, addressed to:

JESSE K. SOUKI
Director
Office of Planning, Land Use Division
State of Hawaii
235 South Beretania Street, Room 600
Honolulu, Hawaii 96813

BY HAND DELIVERY

BRYAN C. YEE, ESQ.
Deputy Attorney General
Department of the Attorney General
425 Queen Street
Honolulu, Hawaii 96813

BY HAND DELIVERY

WILLIAM SPENCE
Director, Planning Department
County of Maui
250 South High Street
Wailuku, Hawaii 96793

BY MAIL

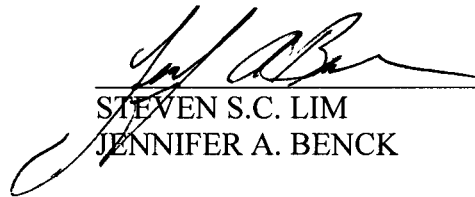
PLANNING COMMISSION
County of Maui
250 South High Street
Wailuku, Hawaii 96793

BY MAIL

JAMES A. GIROUX, ESQ.
Deputy Corporation Counsel
Department of the Corporation Counsel
County of Maui
200 South High Street
Wailuku, Hawaii 96793

BY MAIL

DATED: Honolulu, Hawai'i, July 29, 2013.



STEVEN S.C. LIM
JENNIFER A. BENCK

Attorneys for Petitioner
CMBY 2011 INVESTMENT, LLC