

ALAN M. ARAKAWA
Mayor



GLADYS C. BAISA
Acting Director

SHAYNE R. AGAWA, P.E.
Deputy Director

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2018 AUG 14 AM 9:36

OFFICE OF THE MAYOR

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2155
www.mauiwater.org

August 8, 2018

Honorable Alan M. Arakawa
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

For Transmittal to:

Honorable Robert Carroll
Chair, Land Use Committee
Maui County Council
200 S. High Street
Wailuku, Maui, HI 96793

APPROVED FOR TRANSMITTAL

Mayor 
Date

Dear Chair Carroll:

SUBJECT: Waikapu Development Venture Affordable Housing Project (Wailuku)
(LU-2(4))

In response to your request dated August 3, 2018 and with regard to the August 1, 2018 Land Use Committee meeting during which the committee discussed where, in relation to the proposed Wellhead Protection Overlay District ("WPOD") identified in WR-18, the proposed Waikapu Development Venture Affordable Housing Project ("Project") and further identified as tax map key NO. (2) 3-5-002:001 is located, DWS staff provides the following clarification.

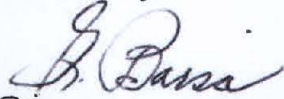
The attached map entitled "WELLHEAD PROTECTION OVERLAY DISTRICT, MAP No. 5, TMK (2) 3-5-002:011 WPOD Analysis" provides a visual depiction of where the identified TMK is located relative to the proposed WPOD zones. The map shows that the total acreage of the TMK is approximately 25.29 acres, with approximately 10.36 acres of the TMK being located within WPOD Zone C (10-year time of travel) and approximately 1.63 acres of the TMK being located within WPOD Zone B (2 year time of travel).

"By Water All Things Find Life"

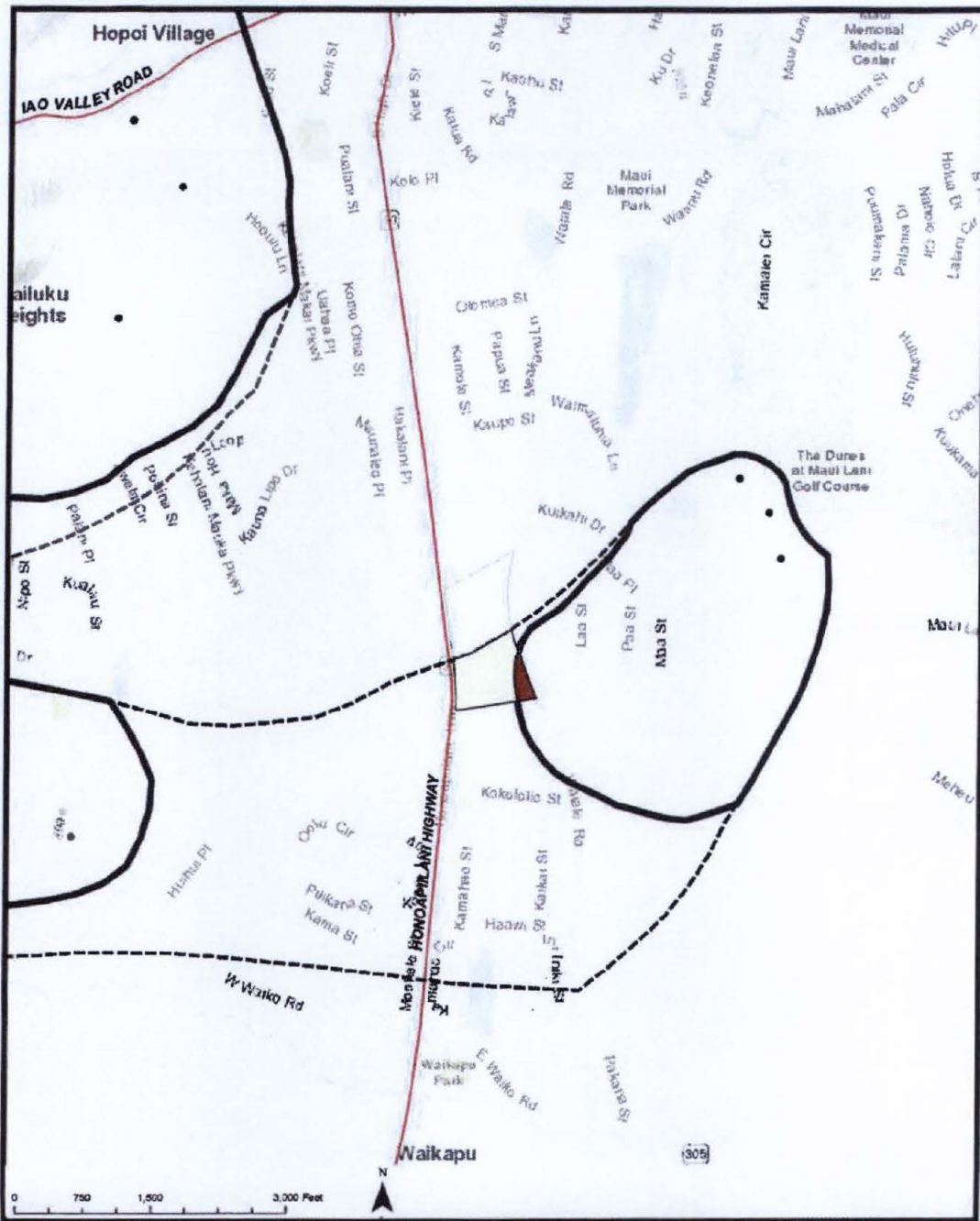
Honorable Robert Carroll
August 8, 2018
Page 2

Should you have any questions, please feel free to contact me at ext. 7834.

Sincerely,


GLADYS C. BAISA,
Acting Director of Water Supply

"By Water All Things Find Life"



LEGEND

- WPOD ZONE A
 - WPOD ZONE B - 2 year
 - ⊖ WPOD ZONE C - 10 year
 - TMK: (2) 3-5-002:011 (25.29 acres)
 - TMK in Zone B (1.63 acres)
 - TMK in Zone C (10.36 acres)
- MAJOR ROADS



NOTE:

WPOD zones were delineated by the University of Hawaii Department of Geology & Geophysics utilizing fixed distance for the ZONE A nearest the well and Time of Travel (TOT) criteria for Zones B and C using the USGS 3-dimensional numerical groundwater model, MODFLOW, followed by the particle tracking program, MODPATH.

ZONE B is intended to designate a conservative estimate of the area that may contribute bacteria and viruses to the wellhead.

A 2-year TOT criterion is based on survival times for bacteria and viruses in soil and groundwater.

ZONE C is based on a 10-year TOT to allow sufficient time to implement management and remedial measures to mitigate contamination from accidental contaminant spills and other causes.

OFFICE OF THE COUNTY CLERK
200 SO. HIGH ST., WAILUKU, MAUI, HAWAII 96793

**WELLHEAD PROTECTION
OVERLAY DISTRICT
MAP No. 5**

TMK (2) 3-5-002:011 WPOD Analysis

| | |
|------------------------------------|--------------------------------------------|
| APPROVED: | PUBLIC HEARING: _____ |
| COUNTY CLERK _____ DATE _____ | ADOPTED BY COUNCIL: _____ |
| APPROVED: | ADOPTED BY MAYOR: _____ |
| PLANNING DIRECTOR _____ DATE _____ | BILL No./YEAR _____ ORDINANCE No. _____ |

WPOD Map 5

180356

Council Chair
Mike White

Vice-Chair
Robert Carroll

Presiding Officer Pro Tempore
Stacy Crivello

Councilmembers
Alika Atay
Elle Cochran
Don S. Guzman
Riki Hokama
Kelly T. King
Yuki Lei K. Sugimura



Director of Council Services
Maria E. Zielinski

COUNTY COUNCIL
COUNTY OF MAUI
200 S. HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.MauiCounty.us

August 3, 2018

Ms. Gladys Baisa, Director
Department of Water Supply
County of Maui
Wailuku, Hawaii 96793

Dear Ms. Baisa:

SUBJECT: WAIKAPU DEVELOPMENT VENTURE AFFORDABLE HOUSING PROJECT (WAILUKU) (LU-2(4))

At its meeting of August 1, 2018, the Land Use Committee discussed the proposed Waikapu Development Venture Affordable Housing Project ("Project"). The Project is located along Waiale Road in the vicinity of Waikapu, Hawaii, and can be further identified as a 12.5-acre portion of tax map key No. (2) 3-5-002:011.

The Council's Water Resources Committee recently discussed and recommended approval of a resolution transmitting a proposed bill relating to a Wellhead Protection Overlay District ("WPOD") to the Planning Commissions for review. The attached maps represent the WPOD zones in the Wailuku area. Based on these maps, would this project fall within the potential WPOD; and if so, would it be within zones A, B, or C?

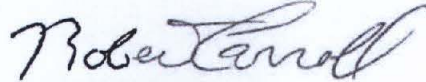
I would appreciate your response by **August 15, 2018**. To ensure efficient processing, please include the relevant Committee item number in the subject line of your response.

AUG - 6 2018

Ms. Gladys Baisa
August 3, 2018
Page 2

Should you have any questions, please contact me or the Committee staff
(Alec Wagner at ext. 7662, or Rayna Yap at ext. 8007).

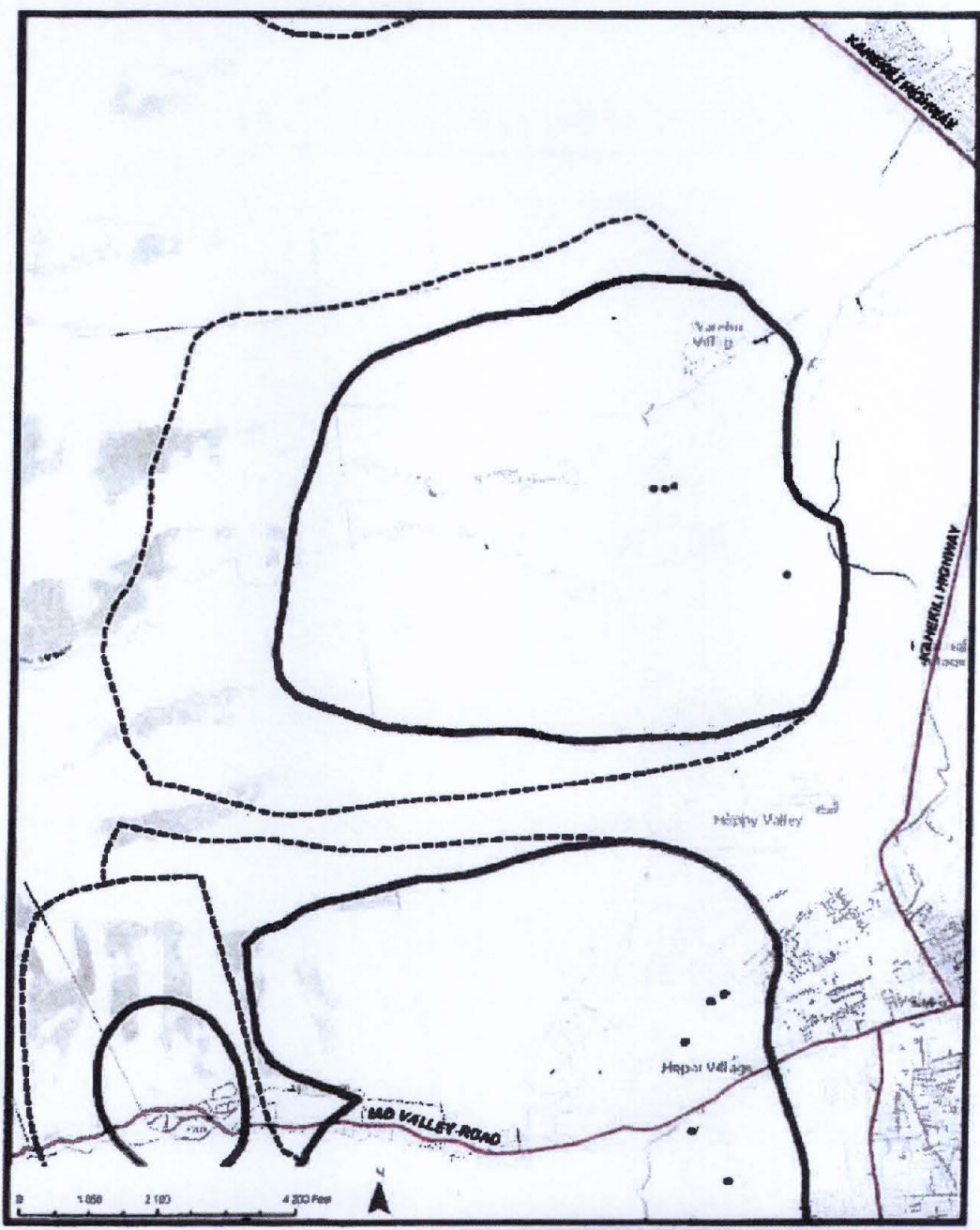
Sincerely,

A handwritten signature in cursive script that reads "Robert Carroll".

ROBERT CARROLL, Chair
Land Use Committee

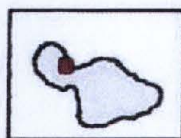
lu:ltr:002(4)aws01:ajw

Attachment



LEGEND

- WPOD ZONE A
- WPOD ZONE B - 2 year
- ⋯ WPOD ZONE C - 10 year
- 2017 PARCEL
- MAJOR ROADS



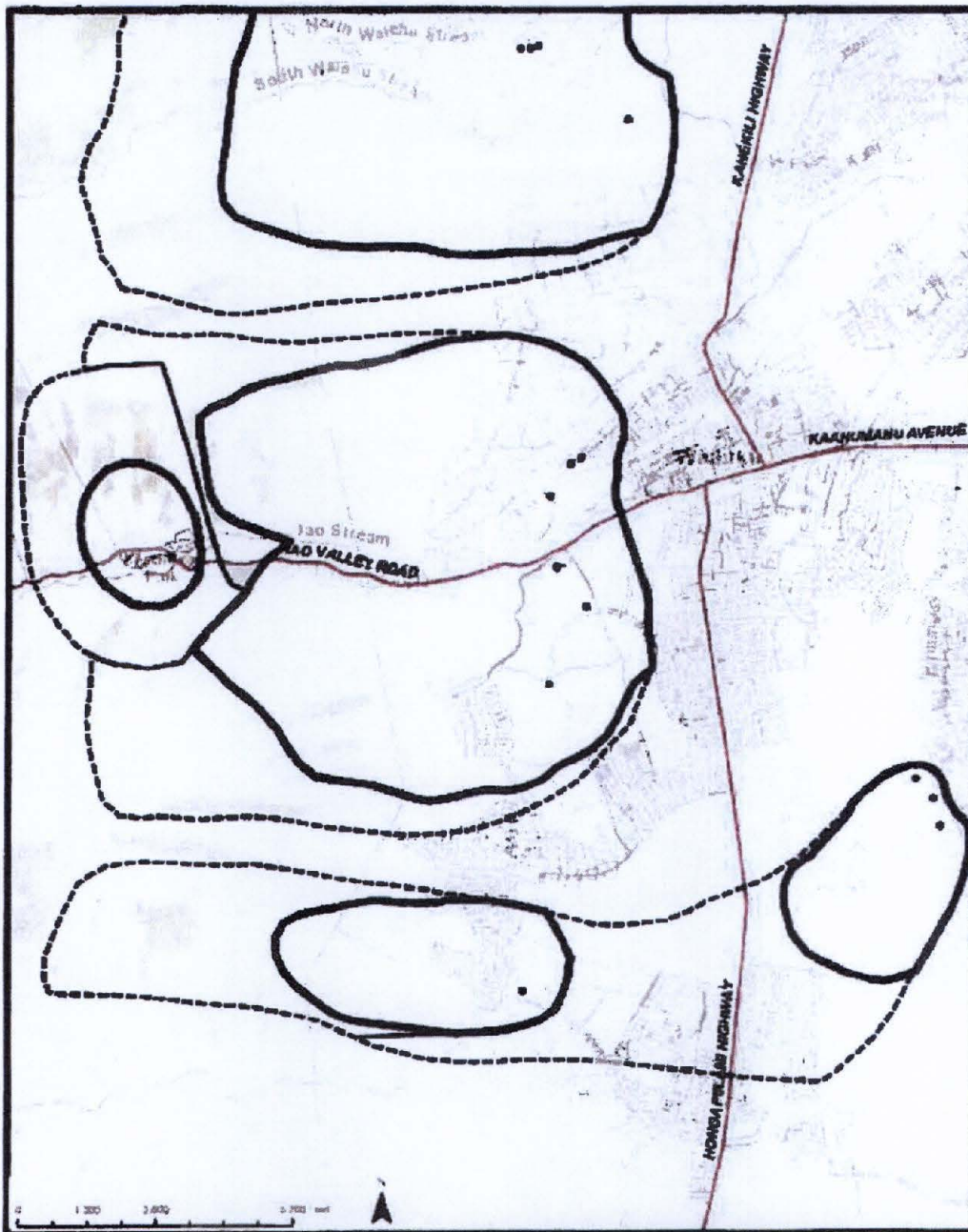
NOTE:

WPOD zones were delineated by the University of Hawaii Department of Geology & Geophysics utilizing feed distance for the ZONE A nearest the well and Time of Travel (TOT) criteria for Zones B and C using the USGS 3-dimensional numerical groundwater model MODFLOW followed by the particle tracking program MODPATH.

ZONE B is intended to designate a conservative estimate of the area that may contribute bacteria and viruses to the wellhead. A 2-year TOT criterion is based on survival times for bacteria and viruses in soil and groundwater.

ZONE C is based on a 10-year TOT to allow sufficient time to implement management and remedial measures to mitigate contamination from accidental contaminant spills and other causes.

| | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| OFFICE OF THE COUNTY CLERK 200 SO HIGH ST. WAILUKU, MAHI HAWAII 96783 | |
| WELLHEAD PROTECTION OVERLAY DISTRICT MAP No. 4 KOPE GULCH TO IAO STREAM, MAHI | |
| APPROVED: _____ COUNTY CLERK DATE | PUBLIC HEARING _____ ADOPTED BY COUNCIL _____ |
| APPROVED: _____ PLANNING DIRECTOR DATE | ADOPTED BY MAYOR _____ BILL No / YEAR _____ ORDINANCE No _____ |
| WPOD Map 4 | |



LEGEND

- WPOD ZONE A
- WPOD ZONE B - 2 year
- ⊖ WPOD ZONE C - 10 year
- 2017 PARCEL
- MAJOR ROADS



NOTE:

WPOD zones were delineated by the University of Hawaii Department of Geology & Geophysicist using fixed distance for the ZONE A nearest the well and Time of Travel (TOT) criteria for Zones B and C using the USGS 3-dimensional numerical groundwater model, MODFLOW, followed by the particle tracking program, MODPATH

ZONE B is intended to designate a conservative estimate of the area that may contribute bacteria and viruses to the wellhead. A 2-year TOT criterion is based on survival times for bacteria and viruses in soil and groundwater.

ZONE C is based on a 10-year TOT to allow sufficient time to implement management and remedial measures to mitigate contamination from accidental containment spills and other causes.

OFFICE OF THE COUNTY CLERK
200 SO HIGH ST, WAILUKU, MAUI, HAWAII 96793

**WELLHEAD PROTECTION
OVERLAY DISTRICT
MAP No. 5**

IAO STREAM TO WAIKAPU, MAUI

| | |
|------------------------------------|--------------------------|
| APPROVED: | PUBLIC HEARING _____ |
| COUNTY CLERK _____ DATE _____ | ADOPTED BY COUNCIL _____ |
| APPROVED: | ADOPTED BY MAYOR _____ |
| PLANNING DIRECTOR _____ DATE _____ | BILL No /YEAR _____ |
| | ORDINANCE No _____ |

WPOD Map 5