

FEB 10-14 2008 Book 2 XII
MARCH 16-19 2008 XIII

mead BALAZS

COMPOSITION

2000
2000

KAPOHO
GEORGE BALAZS

OFFICIAL® 100 sheets • 200 pages
9¾ x 7½ in / 24.7 x 19.0 cm
wide ruled • 09918

APRIL 23-30 2009 KAPOHO XV

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OCTOBER 12-16 2008
KAPOHO XIV

3 of 3

BALAZS

BALAZS

155

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

MT #22 2nd Lat L & R

CAPTURE DATE, LOCATION AND METHOD:

4/27/09	Monday Night	Mangroveless Cove
PERSON RECORDING DATA: Kapoho Hand SNORKEL		

TUMOR SCORE

LH

OLD TAGS:

445226307A

RHF

NEW TAGS:

ORAL TMRS EXT. YES OR NO

4454473825

LHF

EMACIATION CODE

MT#

STRAIGHT CARAPACE - LENGTH:

47.3 cm

WIDTH:

38.7 cm

NOTCH LENGTH:

45.8 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

51.0 cm

WIDTH:

46.5 cm

HEAD WIDTH:

— cm

LATERAL1:

20.8 cm

LATERAL2:

18.4 cm

PPS: YES OR NO OR NE

Y

LATERAL3:

14.1 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

10.0 cm

C

6.5 cm

RIGHT FRONT FLIPPER WIDTH:

— cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

37.6 cm

WEIGHT:

37.5 #

DESCRIPTIVE REMARKS:

5/07 SCL = 41.6 Weight: 24.7

150

new 2nd lat L & R
MT#23

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/27/09 Monday night	Kapoho	Mangroveless Cove
PERSON RECORDING DATA: Michelle		Night-Hand Snorkel

TUMOR SCORE <input type="checkbox"/>	OLD TAGS:	NEW TAGS:
ORAL TMRS EXT: YES OR NO <input type="checkbox"/>		RHF: 483C41373C
EMACIATION CODE <input type="checkbox"/>		LHF: 470B252475
MT#		

STRAIGHT CARAPACE - LENGTH:	45.1 cm	WIDTH:	36.4 cm
NOTCH LENGTH:	44.3 cm	DB:	<input type="checkbox"/> L.O.
CURVED CARAPACE LENGTH:	48.0 cm	VB:	<input type="checkbox"/> L.O.
HEAD WIDTH:	<input type="checkbox"/> cm	LATERAL1:	17.5 cm
PPS: YES OR NO OR NE	Y	LATERAL2:	14.6 cm
TAIL LENGTH: T	9.0 cm	LATERAL3:	11.9 cm
		SEX: Male, Female or Undetermined	<input type="checkbox"/>
		C	6.0 cm

RIGHT FRONT FLIPPER WIDTH:	<input type="checkbox"/> cm	SAMPLES COLLECTED:
PLASTRON LENGTH:	36.8 cm	
WEIGHT:	26.0 #	

DESCRIPTIVE REMARKS: 15 small unusual indentations lateral Right

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See P. 199



new 2nd lot
L & R

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4 / 27 / 09 Monday	KAPoHo	MT # 24
PERSON RECORDING DATA: Michelle		Night Hand snorkel

TUMOR SCORE <input type="checkbox"/> 1	OLD TAGS:	NEW TAGS: 483A463F2E
ORAL TMRS EXT: YES OR NO <input type="checkbox"/> -		RHI 
EMACIATION CODE <input type="checkbox"/> 0		LHF 4853551A4F 
MT#		

STRAIGHT CARAPACE - LENGTH: 43.2 cm	WIDTH: 36.0 cm
NOTCH LENGTH: 42.9 cm	DB: <input type="checkbox"/> L.O. VB: <input type="checkbox"/> L.O.
CURVED CARAPACE LENGTH: 46.5 cm	WIDTH: 42.0 cm
HEAD WIDTH: <input type="checkbox"/> cm	LATERAL1: 18.5 cm LATERAL2: 15.8 cm
PPS: YES OR NO OR NE <input type="checkbox"/> N	LATERAL3: 12.7 cm SEX: Male, Female or Undetermined <input type="checkbox"/> U
TAIL LENGTH: T 9.0 cm C 6.0 cm	
RIGHT FRONT FLIPPER WIDTH: <input type="checkbox"/> cm	SAMPLES COLLECTED:
PLASTRON LENGTH: 36.1 cm	
WEIGHT: 27.5 #	

DESCRIPTIVE REMARKS: 2 adult leeches LFL and 3 adult leeches RFL
Pictures by MR. Rice

Hole
1 ~~whole~~ 2nd lateral Right

158

end
4/27/09
Captive

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

new 2nd lat. & left & right
MT#25

CAPTURE DATE, LOCATION AND METHOD:

4/27/09	Monday Night KAPoHo	Mangrove Less Cove Night Handworkel
PERSON RECORDING DATA: Michelle		

TUMOR SCORE

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

NEW TAGS:

485160186F

RHF



LHF

4856325B24



MT#

STRAIGHT CARAPACE - LENGTH:

44.4 cm

WIDTH:

36.5 cm

NOTCH LENGTH:

44.2 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

48.0 cm

WIDTH:

43.0 cm

HEAD WIDTH:

cm

LATERAL1:

19.6 cm

LATERAL2:

16.9 cm

PPS: YES OR NO OR NE

N

LATERAL3:

12.9 cm

SEX: Male, Female or Undetermined

TAIL LENGTH: T

9.5 cm

C

6.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

cm

PLASTRON LENGTH:

36.0 cm

WEIGHT:

31.0 #

POSTERIOR CONJUNCTIVAE
L & R eye suspicious
cloudy

DESCRIPTIVE REMARKS:

RFF 4 adult leeches

Left eye
Lower lid
Anterior
suspicious Necrotic

SEA TURTLE TAGGING FORM

2nd lat.
L&R

new
MT # 26

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/28/09	Tuesday Night	Kapoho	Champaign Pond
PERSON RECORDING DATA: Michelle		Hand Snorkel	

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

NEW TAGS:

485322605C

RHF



LHF

483B426C56



MT#

STRAIGHT CARAPACE - LENGTH:

41.8 cm

WIDTH:

32.5 cm

NOTCH LENGTH:

41.8 cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

45.0 cm

WIDTH:

38.0 cm

HEAD WIDTH:

LATERAL1:

17.1 cm

LATERAL2:

15.5 cm

PPS: YES OR NO OR NE

Y

LATERAL3:

~~11.9~~ 11.9 cm

SEX: Male, Female or Undetermined

TAIL LENGTH: T

9.5 cm

C

7.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

33.7 cm

WEIGHT:

24.5 #

DESCRIPTIVE REMARKS:

Adult leeches on neck,

Suspicious bump right & left eye.
Healed injury to LHF

leech eggs scraped off neck.

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Revised 08/21/07

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/28/09 Tuesday Night KAPOHO new MT#27
 CHAMPAIGN POND
 HAND SNORKEL

PERSON RECORDING DATA: Michelle

TUMOR SCORE

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

LH: 4607494E60

RH: 4602315F4E

NEW TAGS:

RHF

LHF

STRAIGHT CARAPACÉ - LENGTH:

59.2 cm

WIDTH:

46.0 cm

NOTCH LENGTH:

59.0 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

63.9 cm

WIDTH:

56.0 cm

HEAD WIDTH:

— cm

LATERAL1:

23.8 cm

LATERAL2:

21.4 cm

PPS: YES OR NO OR NE

N

LATERAL3:

17.8 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

13.0 cm

C

9.0 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

— cm

PLASTRON LENGTH:

47.0 cm

WEIGHT:

63.0 #

DESCRIPTIVE REMARKS:

red juice on jaw.

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/28/09 Tuesday Night

KAPOTO

2nd Cat C&R
new
MT#28

PERSON RECORDING DATA: Michelle

Hand snorzel BLIND
INLET
CHANNEL

TUMOR SCORE

1

OLD TAGS:

LH: 4527336730

NEW TAGS:

ORAL TMRS EXT:
YES OR NO

—

RH: 4523063B54

RHF

LHF

EMACIATION CODE

0

MT#

4/08
C&R

STRAIGHT CARAPACE - LENGTH:

107.6 cm

WIDTH:

50.5 cm

NOTCH LENGTH:

67.5 cm

DB:

∅ L.O.

VB:

∅ L.O.

CURVED CARAPACE LENGTH:

73.0 cm

WIDTH:

60.0 cm

HEAD WIDTH:

— cm

LATERAL1:

26.8 cm

LATERAL2:

25.0 cm

PPS: YES OR NO OR NE

Y

LATERAL3:

20.3 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

15.5 cm

C

11.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

~~110.0~~ cm

PLASTRON LENGTH:

53.7 cm

WEIGHT:

92.0 #

Thick peeling
of scutes
1st - 4th Cat
Left and 5th central
and 2nd Cat.
Right.

DESCRIPTIVE REMARKS:

one #1 eye posterior.

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SEA TURTLE TAGGING FORM

New 2nd Lat.
L & R
MT#29

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/28/09 Tuesday Night Kapa'oa Champagne Ponds
PERSON RECORDING DATA: Billie Hand capture

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

OLD TAGS:

LH 422D4F4030

RH 422F0A2B15

NEW TAGS:

RHF

LHF

MT#

STRAIGHT CARAPACE - LENGTH:

58.7 cm

WIDTH:

45.1 cm

NOTCH LENGTH:

58.7 cm

DB:

Ø L.O.

VB:

Ø L.O.

CURVED CARAPACE LENGTH:

63.5 cm

WIDTH:

55.5 cm

HEAD WIDTH:

— cm

LATERAL1:

25.4 cm

LATERAL2:

22.9 cm

PPS: YES OR NO OR NE

Y

giant PPS
3cm
long
Midline

LATERAL3:

18.6 cm

SEX: Male, Female
or Undetermined

U

TAIL LENGTH: T

16.0 cm

C

11.5 cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

— cm

PLASTRON LENGTH:

47.6 cm

WEIGHT:

67.5 #

DESCRIPTIVE REMARKS: Deep gauges in plastron

epoxy
Ace Hardware

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

new 2nd lot L & R MT#300

CAPTURE DATE, LOCATION AND METHOD:

4/28/09 Tuesday Night *KAPOHO* Mangroveless Cove snorkel Handicapture
PERSON RECORDING DATA: *Bhillee*

TUMOR SCORE

Q

LH

OLD TAGS:

4529615532

NEW TAGS:

ORAL TMRS EXT: YES OR NO

~~+~~

RH

45241E7C54

RHF

LHF

EMACIATION CODE

Q

MT#

STRAIGHT CARAPACE - LENGTH:

66.7

cm

WIDTH:

cm

NOTCH LENGTH:

cm

DB:

L.O.

VB:

L.O.

CURVED CARAPACE LENGTH:

cm

WIDTH:

cm

HEAD WIDTH:

LATERAL1:

cm

LATERAL2:

cm

PPS: YES OR NO OR NE

LATERAL3:

cm

SEX: Male, Female or Undetermined

TAIL LENGTH: T

cm

C

cm

SAMPLES COLLECTED:

RIGHT FRONT FLIPPER WIDTH:

PLASTRON LENGTH:

cm

WEIGHT:

#

DESCRIPTIVE REMARKS:

93.5

"Whistling" when breathing
Thick peeling scute 4th lateral RIGHT

964

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4/28/09
M20 sighted in
BI sighted in
1,3,4 sighted Champagne ponds
16 sighted
MT#31

SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

4/28/09 Tuesday Night KAPOTTO Mangroveless Cove
PERSON RECORDING DATA: Bhillie Hand snorkel

TUMOR SCORE

Q

ORAL TMRS EXT:
YES OR NO

N

EMACIATION CODE

Q

OLD TAGS:

LH 4629090167
RH 4629184E2D
MT#

NEW TAGS:

RHF
LHF

STRAIGHT CARAPACE - LENGTH:

56.7 cm
55.4

WIDTH: 45.5 cm

NOTCH LENGTH: 56.0 cm

DB: \emptyset L.O.

VB: \emptyset L.O.

CURVED CARAPACE LENGTH:

42.0 cm

WIDTH: 55.0 cm

HEAD WIDTH:  cm

LATERAL1: 22.7 cm

LATERAL2: 20.2 cm

PPS: YES OR NO OR NE Y

LATERAL3: 16.0 cm

SEX: Male, Female or Undetermined U

TAIL LENGTH: T 12.5 cm

C 9.0 cm

RIGHT FRONT FLIPPER WIDTH:  cm

PLASTRON LENGTH: 44.6 cm

WEIGHT: 57.0 #

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS: "whistling" ^{SR}

right eye posterior milky spot not raised

Ther. soft breathing

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SEA TURTLE TAGGING FORM

new 2nd lot LAR

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD: *Kapoho* MT# 32

4/28/09 Tuesday Night Mangroveless Cove

PERSON RECORDING DATA: *Bhillie* Hand Snorkel

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

EMACIATION CODE

1

OLD TAGS:

Empty box for old tags

NEW TAGS:

RHF 485321575F MF
LHE 48507E0F28 BL

MT#

STRAIGHT CARAPACE - LENGTH: 46.1 cm WIDTH: 39.4 cm

NOTCH LENGTH: 44.9 cm DB: \emptyset L.O. VB: \emptyset L.O.

CURVED CARAPACE LENGTH: 49.5 cm WIDTH: 46.5 cm

HEAD WIDTH:  cm LATERAL1: 17.0 cm LATERAL2: 14.0 cm

PPS: YES OR NO OR NE N LATERAL3: 12.0 cm SEX: Male, Female or Undetermined U

TAIL LENGTH: T 8.0 cm C 4.0 cm

RIGHT FRONT FLIPPER WIDTH:  cm SAMPLES COLLECTED:

PLASTRON LENGTH: 38.6 cm relatively new recruit

WEIGHT: 27.5 #

DESCRIPTIVE REMARKS: Photos by Mr. Rice for notch & centrals

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Held in Animal
captive night of
4/29/09 -
Dead morning of 4/30/09

TREAT this case as a
STRANDING

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /
CAPTURE DATE, LOCATION AND METHOD:

4/29/09 Day time
PERSON RECORDING DATA: Michelle

Kapono
Found by ~~Michelle~~
Sam & his crew close to
straw wall under construction

TUMOR SCORE

0

OLD TAGS:

LH: 470AIF6617

ORAL TMRS EXT.
YES OR NO

1

RH: 470C7A4772

EMACIATION CODE

0

MT#

NEW TAGS:

RHF

LHF

Severe TWNING
w circles
UNCOORDINATED
unable to submerge

STRAIGHT CARAPACE - LENGTH:

48.1 cm

WIDTH: 38.9 cm

NOTCH LENGTH: 47.5 cm

DB: 0 L.O.

VB: 0 L.O.

CURVED CARAPACE LENGTH:

52.0 cm

WIDTH: 36.0 cm

HEAD WIDTH: — cm

LATERAL1: 19.8 cm

LATERAL2: 17.6 cm

PPS: YES OR NO OR NE Y

LATERAL3: 13.6 cm

SEX: Male, Female or Undetermined U

TAIL LENGTH: T 9.5 cm

C 6.0 cm

RIGHT FRONT FLIPPER WIDTH: — cm

PLASTRON LENGTH: 38.5 cm

WEIGHT: 24.0 #

SAMPLES COLLECTED:

DESCRIPTIVE REMARKS:

Left eye milky color - posterior
conjunctiva (not on pupa)

Taken to Honolulu 4/30/09 (not frozen) by GHB for T. work necropsy.

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SEA TURTLE TAGGING FORM

new 2nd Lat
L&R

DATE FORM FILLED OUT / /

CAPTURE DATE, LOCATION AND METHOD:

KAPOHO

MT #33

4/29/09 Wednesday ^{Cate afternoon} Mangroveless cove
Hand SNORKEL.

PERSON RECORDING DATA: Michelle

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

-

EMACIATION CODE

0

OLD TAGS:

[Blank box for old tags]

NEW TAGS:

485328240F

RHF



LHF

48503C6308



MT#

33

STRAIGHT CARAPACE - LENGTH:

63.8 cm

WIDTH:

52.1 cm

NOTCH LENGTH:

63.8 cm

DB:

0 L.O.

VB:

0 L.O.

CURVED CARAPACE LENGTH:

68.5 cm

WIDTH:

62.0 cm

HEAD WIDTH:

- cm

LATERAL1:

25.6 cm

LATERAL2:

22.8 cm

PPS: YES OR NO OR NE

N

LATERAL3:

18.6 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

17.0 cm

C

12.0 cm

RIGHT FRONT FLIPPER WIDTH:

- cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

48.7 cm

7th Marginal Left indentation
8th, 9th & 10th Marginal Left deep notches between 10 seams.
10th - 11th & 11th postcostals R - ~~deep notches~~

WEIGHT:

85.5 #

DESCRIPTIVE REMARKS:

485328240F

168
END
KAPONO XIV

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SEA TURTLE TAGGING FORM

DATE FORM FILLED OUT / /

new 2nd Cat
L & R
MT#34

CAPTURE DATE, LOCATION AND METHOD:

4/29/09 Wednesday Night Mangroveless Cove

PERSON RECORDING DATA:

Michelle FRATINARDO Hand SNORKEL
late afternoon

TUMOR SCORE

0

ORAL TMRS EXT:
YES OR NO

—

EMACIATION CODE

0

OLD TAGS:

Empty table for old tags

MT# 34

48501C6412

RHF



LHF

485070517B



STRAIGHT CARAPACE - LENGTH:

50.4 cm

WIDTH:

39.9 cm

NOTCH LENGTH:

50.2 cm

DB:

∅ L.O.

VB:

∅ L.O.

CURVED CARAPACE LENGTH:

54.5 cm

WIDTH:

48.0 cm

HEAD WIDTH:

— cm

LATERAL1:

21.3 cm

LATERAL2:

19.1 cm

PPS: YES OR NO OR NE

N

LATERAL3:

14.6 cm

SEX: Male, Female or Undetermined

U

TAIL LENGTH: T

10.5 cm

C

7.5 cm

RIGHT FRONT FLIPPER WIDTH:

measured cm

SAMPLES COLLECTED:

PLASTRON LENGTH:

40.6 cm

WEIGHT:

42.5 #

DESCRIPTIVE REMARKS:

Small piece of AMANSIA in lower jaw. White spots on posterior right and left eye. CONJUNCTIVA

See p. 144 4/24/09

169



TDR
popped off

170

See p. 146 4/26/09

141.9332



SHRIMP CHARGE LENS

HEAD WIDTH: 21.3

PPE: YES OR NO

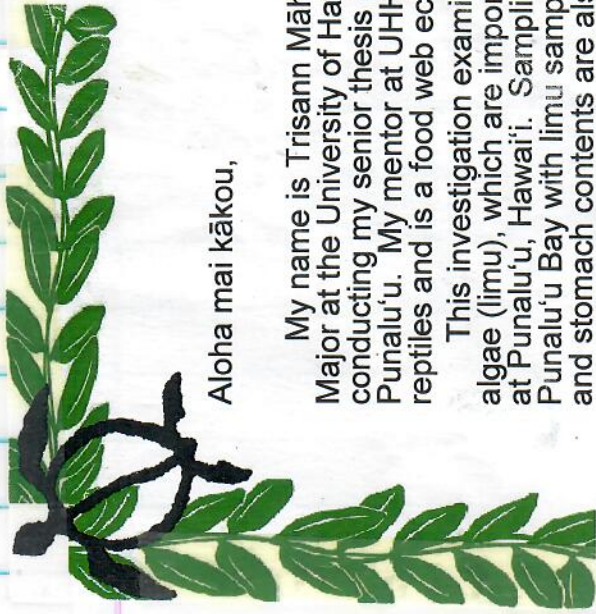
TAIL LENGTH: 10.6

RIGHT FRONT FLIPPER WIDTH

PLASTIC LENGTH: 40.6

WEIGHT: 42.5

REMARKS: AMPHIBIA in lower jaw white spots on



Aloha mai kākou,

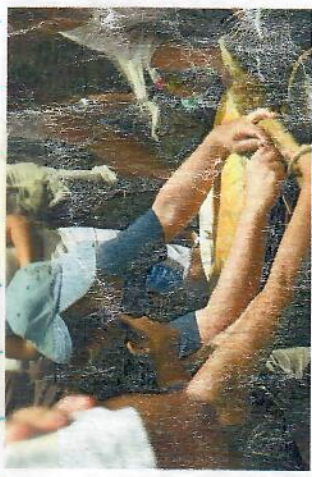
My name is Trisann Māhealani Bambico and I am a Marine Science Major at the University of Hawai'i at Hilo (UHH). I am a native Hawaiian conducting my senior thesis on the different types of limu (seaweed) here at Punalu'u. My mentor at UHH is Dr. Jason Turner, who works with marine reptiles and is a food web ecologist.

This investigation examines the abundance and diversity of marine algae (limu), which are important components of green sea turtle (honu) diet at Punalu'u, Hawai'i. Sampling occurs along five random transects in Punalu'u Bay with limu samples collected using a PVC grid. Honu tissue and stomach contents are also collected for stable isotopes (a biochemical tracer) to determine honu diet. A comparison between different honu and limu species will help determine what limu are presently being fed on by honu at Punalu'u. Time depth recorders (TDR) have recently been deployed to determine the depth at which honu are feeding, nesting, basking, and migrating. The two TDRs will be retrieved during the Fall 2008 semester.

Preliminary results from honu feeding surveys suggest that *Pterocladia capillacea* are the most commonly consumed limu by the honu, which have been collected over the past several months. Similarly, stomach contents revealed that *Pterocladia capillacea*, *Jania sp.*, and *Chaetomorpha sp.* were most commonly found during recent feeding events. Currently research is being done to further determine the foraging habits of the honu at Punalu'u.

Mahalo nō kou hoihoi





UNIVERSITY
OF HAWAII
HILO

KAG

Subject: Fw: Kapoho Pond & Turtles
From: Scott Henderson <shenders@aloha.net>
Date: Sat, 16 Feb 2008 16:37:28 -1000
To: "Balazs, George" <George.Balazs@noaa.gov>

George...I'd like to apologize again for any inconvenience that I caused you in trying to get in touch with you. Sorry for the bad timing. Hope your Kapoho trip was productive...glad the weather leveled out.

There's been a certain amount of urgency in my wanting to contact you regarding the Kapoho pond as the EA consultant (Joe Farber) is wanting to finalize the EA this coming Thursday. I am heading to Kinoho for a week on Monday and wanted to get my updated comments to Mr. Farber before then.

I want to reiterate that I am not in the employ of the consultant. I was not even aware of the proposed project until I saw a newspaper article on it. I viewed the draft EA on OECC website and provided comments and pictures, much of which you were given copy on via e-mail. I told Mr. Farber that he is welcome to use any of my written comments and pictures in the EA.

About a week ago I visited the pond property with the consultant and had chance to meet and talk with the property owner (Mr. Barsell) and several Kapoho Beachlot property owners that had questions regarding the project. I recounted my childhood experiences and memories in the pond area and provided some of my opinions on the project and my viewpoints on how it would impact the natural resources in the area.

Most of the questions involved fish, fishing, recreational access and turtles. It was indeed a shame that you did not have a chance to review and comment on the draft EA. I noted the lack of discussion of turtles in the draft and had hoped that you would be brought into the process. In my updated comments I provide some of my own opinions on the turtle issues. I'll send you copy on that tomorrow.

From your work at Kapoho I've got several questions regarding turtles that might be able to answer. What is the approximate number of turtles in the bay or your survey area? Does the population appear to be stable? Or increasing/decreasing? Is it healthy...normal weights & growth rates? Have you tagged any of the Kapoho turtles?....one possible concern is that turtles may have the potential to carry weed algae to other sites such as nearby Waiopae. Do you have indication of what the turtles are eating in the ponds area? Have your workers seen *Gracilaria salicornia* &/or *Acanthopora spicifera* in the pond area?..when I looked along the downwind pond margins the other day I couldn't find any. Sam Kaawaloa says that they haven't seen turtles basking in or nearby the ponds...is that the same in your experience?

2008

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I know this request for info may seem bit overwhelming and last minute...it is for me too. But if it doesn't surface pretty quick it likely won't be addressed in the final EA. Maybe no big deal...I've just been trying to ensure that much of this project is done the right way....hopefully by my standards and yours as well.

Below is the msg that I tried to send your way several times last week with no success. Hope the other e-mail you provided works.

Aloha...Scott

----- Original Message -----

From: Scott Henderson

To: Balazs, George

Cc:

Sent: Saturday, February 09, 2008 8:05 AM

Subject: Kapoho Pond & Turtles

Hi George...yesterday I spent a few hours at the Kapoho fishpond property with Joe Farber (the EA consultant).

Quite impressive...its been maybe 3 months since I snorkeled near there and a huge amount of

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2008

mangrove has been cleared since. I was truly amazed at the amount of open water created inland in what used to be the nursery ponds...its much larger than I recollect...I think due to the fact that dense vegetation like hau and milo covered much of it (and, over time, much of that was displaced by mangrove) and geologic subsidence of nearly 2 feet over the last 30 years or so has also certainly enlarged those ponds. Ocean water from the main ("Kapoho") pond flows rapidly into the nursery ponds through an old makaha passage which is now nearly 20 feet wide. Reminiscent of the landlocked Kiholo pond, lots of turtles ride the current in and out of the ponds.

The amount of gently sloping shoreline being created in the calm water of these ponds should be a real boon to basking turtles. Sam Kaawaloa notes that the turtles do a considerable amount of grazing on the salt grass (*Paspalum virginicum*) along the inner pond shorelines. That grazing looks like its been mowed by a weedeater (photo below). Sam saved a large turtle fecal pellet for you that looks to be nearly 100% salt grass residue. As an aside, my wife Judy told me that the turtles that she checks out regularly along shoreline of the Hilo Yacht Club also graze on saltweed. I assume this must be pretty common feeding behavior for turtles wherever they have access to saltgrass...true in your experience? Was wondering how much nutrition there is in the grass relative to typical limu that they eat. The fecal pellet Sam had seemed to be composed of grass that was only slightly digested.

In walking the margins of the main pond and the nursery ponds, it occurred to me all of the large carpets of saltgrass that 30 years ago covered sections of the shoreline are now gone. Wouldn't be surprised that they've been grazed down by the turtles. Yum!

Jo Mitchel told me you'll be at Kapoho tomorrow through Wed.....would liked to have seen you there but Judy & I are on Oahu for that exact time. Aloha, Scott

2008

181



2008



April 2009 Kithulo XIV
 No signs of the grass grazing
 seen shown above (in 2008)

183

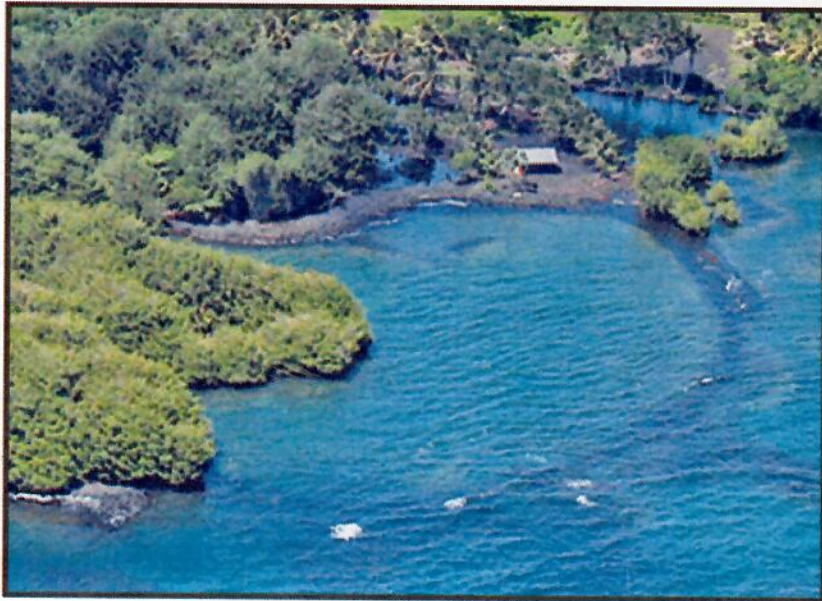


184

DRAFT ENVIRONMENTAL ASSESSMENT

**KAPOHO BAY FISHPOND RESTORATION PROJECT
KAPOHO, PUNA, HAWAI'I ISLAND, HAWAI'I**

OCTOBER 2007



Prepared for:
Department of Land and Natural Resources
State of Hawai'i
Department of Conservation and Coastal Resources
P.O. Box 621
Honolulu, Hawai'i 96809

Prepared by:
Farber & Associates Planning Services
2722 Ferdinand Ave.
Honolulu, Hawai'i 96822

See p. 186

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March 2008

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2.2 PROJECT PURPOSE

The objective of the proposed project is the repair, restoration and maintenance of "nameless" fishpond at Kapoho for historic and cultural preservation purposes and to serve as a marine sanctuary.

2.3 LOCATION

"Nameless" fishpond at Kapoho is located along the shoreline of Kapoho Bay, Kapoho Ahupua'a, Puna District, Hawai'i Island. It is a *loko kupa* type pond. It is identified as Tax Map Key (TMK) number 1-4-02: portion of 36. Unlike most historic fishponds, this fishpond has no known name attached to it. For the purposes of this Environmental Assessment, the "Nameless" fishpond at Kapoho will be referred to as Kapoho Fishpond.

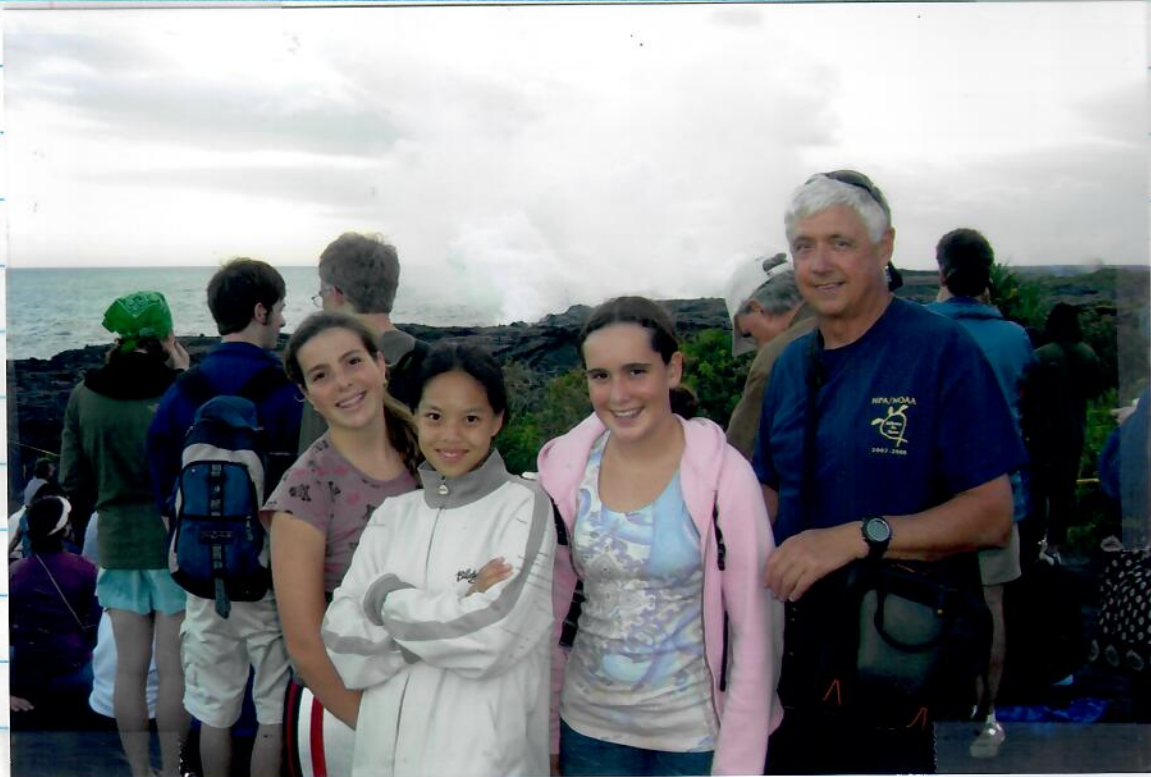
2.4 EXISTING USE

The subject property consists of the fishpond of about four acres in size and surrounding land of about 13 acres. The fishpond has deteriorated; walls are damaged by the forces of nature and altered by man. The fishpond basin waters *mauka* inland and adjoining land are heavily inundated with mangrove. The fishpond is not actively being used.

The land is undergoing improvements based on a SMA Permit dated 2/15/05 and associated building permits and includes: mangrove eradication by hand along the shoreline area, landscaping, fencing, a new gate and rock wall entrance, and construction of 1,600 square foot single-family dwelling (A copy of this permit is found in Appendix C, page 122).

MARCH 2008

187



MARCH 2008

LATE APRIL 2009



Bhille →

191



DEAN BAGLEY 2-11-08

181
Billie

Jo Mitchel

OME KAPOHO REMINDERS

- No pets allowed on premises
- Please conserve water at all times
- Hot water switch is in the hallway leading to the upstairs bedroom. TURN ON UPON ARRIVAL IF IT IS NOT ALREADY ON
- Please respect the neighbors and stay within the confines of the Jo Mitchel property
- High tide removes anything on the lanai so be sure to store your snorkeling equipment, tubes, etc in the laundry room
- When leaving, close the windows, lock door with key and place keys and gate opener in the outside shower house. Lock the shower house with the button.
- Please place all used towels in the laundry container near inside bathroom

TURTLES



Stacy MADE BREAKFAST!

195



REAL EYES VISIBLE EXTERNALLY. YES OR NO

RESEARCH INFORMATION TAG

Red cloaca

Overall 7.5

MANGROVELESS
POND 10/15/08

Turtle 197
28
see page 125

LH=467D3A2A1E RH=470C72633C

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE		11				1 posterior 1 anterior - (necrotic)
LEFT EYE						
MOUTH						
NECK						
RFF		1				leeches
LFF	2		1			vertical, (bloody)
RHF						
LHF						
CLOACA / TAIL						
SEAMS / SCUTES						
INTERNAL						
TOTAL						

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO



OTHER INFORMATION: Left eye suspicious pumb posterior
Red cloaca
Full vision both eyes

overall TS 2

See page 157

4/27/09

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Mangroveless Cove

right hand snorkel

LOCATION, SIZE, AND NUMBER OF TUMORS

	#1	#2	#3	#4	TOTAL	REMARKS
RIGHT EYE	1					suspicious
LEFT EYE	1					BUMPS
MOUTH						"thin" conjunctiva
NECK	4					PINK FLATTISH
RFF LFF	4	7				PINK SMOOTH
RFF	4					SOME NECROTIC
RHF						
LHF						
CLOACA / TAIL	3					2 BASE of TAIL / DORSAL
SEAMS / SCUTES	1					FLAT PATCH
INTERNAL						
TOTAL						

ORAL TUMORS VISIBLE EXTERNALLY: YES OR NO

—

OTHER INFORMATION:

Score 1

483446352E



LEINA MORISE

MEIMEI NAKAMURA

MARI ASAI

Rebecca WONG

JAPAN MARCH-APRIL 2009

John Theismann

Rt.2 Box 3879

Pahoa, HI 96778

MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

LENGTH

1 meter (m)	=	100 cm = 1,000 mm
1 millimeter (mm)	=	.001 m
1 centimeter (cm)	=	.01 m
1 decimeter (dm)	=	.1 m
1 decameter (dkm)	=	10 m
1 hectometer (hm)	=	100 m
1 kilometer (km)	=	1,000 m

WEIGHT

1 gram (g)	=	100 cg = 1,000 mg
1 milligram (mg)	=	.001 g
1 centigram (cg)	=	.01 g
1 decigram (dg)	=	.1 g
1 decagram (dkg)	=	10 g
1 hectogram (hg)	=	100 g
1 kilogram (kg)	=	1,000 g

NEIGHBOR ISLANDS

Dead fisherman was Paho man

Big Island police identified yesterday the second of two fishermen who drowned Saturday after a wave swept them into the ocean as Reynaldo Lucero Jr., 61, of Paho.

Lucero and Antonio Lagronio, 52, of Keaa were fishing on a rock when a large wave knocked them down at about 11:45 a.m., Lagronio's wife, who was at the scene, told police.

Lucero tried to pull Lagronio onto shore but was dragged out by the waves, police said.

Both men were found face down in the water about 250 yards from Kapoho Lighthouse. Their bodies were brought to shore by emergency personnel.

Star-Bulletin staff

- There are eight parts of speech:

1. **NOUN**—the name of a person or thing
2. **VERB**—an action word
3. **ADJECTIVE**—describes a noun
4. **ADVERB**—describes a verb, another adverb

- Some verbs need helpers.

INCORRECT

I be / You be
I ain't / You ain't
I got to
I seen
I done

CORRECT

I am / You are
I am not / You are not
I have to
I have seen / I saw
I have done / I did

substitutes for a noun

N—connects a noun to another noun

N—connects words or ideas

N—an exclamation

"it is" or "it has."

means "you are."

verb. To "lie" is to recline.

Affect or Effect?

To "affect" is to influence. To "effect" is to cause.

- Punctuation

A **comma** is used to group words and phrases that belong together. It is also used to denote a slight pause, as with items in a series and interjections.

A **colon** is used prior to a list or other elements that rename or restate what has been previously stated.

A **semicolon** is used to separate independent clauses or to divide a series of longer phrases.

An **apostrophe** is used to indicate the possessive case of nouns, to form a contraction, and to form the plural of a letter or number.

A **hyphen** divides one word into syllables or joins multiple words.

Quotation marks are used around the exact words someone spoke. Use with titles of songs, short stories, chapter titles, short plays, episodes of television programs, magazine articles, and poems.

Underlining is used with the titles of books, movies, newspapers, television programs, magazines, and long plays.

East Hawaii Veterinary Center, LLC

Prince Kuhio Plaza
111 East Puainako Street, Suite A-109
Hilo, HI 96720

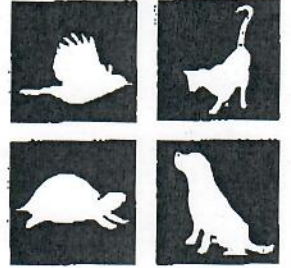
Phone: (808) 959-CARE (2273)

Fax: (808) 959-2098

ALFRED J. MINA, DVM

Agnes Bajor DVM

Bill San Filippo DVM



Fax Transmittal Form

Date: 5/26/02

Fax Number Sending To: 1800-963-2902

TO: GEORGE BLANKS

COMPANY: _____

FROM: CHASING @ EHC

RE: "Shirley" SEA TURTLE PROBABLY BLANKS

of pages (including this page): 11

MEMO:

100% LAB RESULTS.

A handwritten signature in black ink, appearing to be 'Chasing'.

Can I if you have any
QUESTIONS





EAST HAWAII VET CENTER
 PRINCE KUHUO PLAZA
 111 EAST PUAINAKO STREET SUITE A109

808-959-2273

Account: 4757

Owner: BLACKWELL 7423
 Patient: SAM
 Species:
 Breed: TURTLE
 Age: 40
 Gender: M
 Requisition #: 2247171
 Accession #: E7598721
 Order rec'd: 01/30/2010
 Ordered by: MINA
 Reported: 02/04/2010

1-888-433-9987
 Online results at
 www.vetconnect.com

ANAEROBIC & AEROBIC CULTURE	
Test	Result
SOURCE:	MOUTH
STATUS:	FINAL
COMPLETED CULTURE RESULTS	Aeromonas hydrophila - 4+ Pseudomonas aeruginosa - 4+ Klebsiella oxytoca - 4+
ANAEROBIC RESULTS:	No organisms isolated anaerobically.

SUSCEPTIBILITY	
Test	Result
ORGANISM	Aeromonas hydrophila 4+
CEFAZOLIN	Resistant (ug/ml)
CEFIXIME	Sensitive (ug/ml)
CEFOTAXIME	Sensitive (ug/ml)
CEFTRIAZONE	Sensitive (ug/ml)
CEFUROXIME	Sensitive (ug/ml)
IMIPENEM	Sensitive (ug/ml)
MARBOFLOXACIN	Sensitive (ug/ml)
ORBIFLOXACIN	Resistant (ug/ml)
OFLOXACIN	Sensitive (ug/ml)
CEFPODOXIME	Sensitive (ug/ml)
CEFOVECIN	Sensitive (ug/ml)

SUSCEPTIBILITY	
Test	Result
ORGANISM	Aeromonas hydrophila 4+
AMIKACIN	Sensitive (<=2 ug/ml)

BLACKWELL, SAM
 02/04/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
 PAGE 1

AMOX/CLAV ACID	Resistant (≥ 32 ug/ml)
AMOXICILLIN	Resistant (≥ 32 ug/ml)
CEFTAZIDIME	Sensitive (≤ 8 ug/ml)
CEFTIOFUR	Sensitive (≤ 1 ug/ml)
CEPHALEXIN	Resistant (≥ 32 ug/ml)
CHLORAMPHENICOL	Sensitive (≤ 1 ug/ml)
CIPROFLOXACIN	Sensitive (≤ 0.5 ug/ml)
ENROFLOXACIN	Intermediate (1 ug/ml)
GENTAMICIN	Sensitive (≤ 0.5 ug/ml)
PIPERACILLIN	Sensitive (≤ 8 ug/ml)
TETRACYCLINE	Sensitive (≤ 1 ug/ml)
TICARCILLIN	Sensitive (≤ 16 ug/ml)
TOBRAMYCIN	Sensitive (≤ 0.5 ug/ml)
TRIMETHOPRIM-SULFA	Sensitive (≤ 10 ug/ml)

SUSCEPTIBILITY	
Test	Result
ORGANISM	<i>Pseudomonas aeruginosa</i> 4+
AMIKACIN	Sensitive (≤ 2 ug/ml)
CEFTAZIDIME	Sensitive (≤ 8 ug/ml)
CEFTIOFUR	Resistant (≥ 8 ug/ml)
CHLORAMPHENICOL	Resistant (≥ 32 ug/ml)
CIPROFLOXACIN	Sensitive (≤ 0.5 ug/ml)
ENROFLOXACIN	Sensitive (0.5 ug/ml)
GENTAMICIN	Sensitive (1 ug/ml)
PIPERACILLIN	Sensitive (≤ 8 ug/ml)
TICARCILLIN	Sensitive (≤ 16 ug/ml)
TOBRAMYCIN	Sensitive (≤ 0.5 ug/ml)

SUSCEPTIBILITY	
Test	Result
ORGANISM	<i>Klebsiella oxytoca</i> 4+
AMIKACIN	Sensitive (≤ 2 ug/ml)
AMOX/CLAV ACID	Sensitive (≤ 8 ug/ml)
AMOXICILLIN	Resistant (≥ 32 ug/ml)

BLACKWELL, SAM
02/04/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
PAGE 2

CEFTAZIDIME	Sensitive (≤ 8 ug/ml)
CEFTIOFUR	Sensitive (≤ 1 ug/ml)
CEPHALEXIN	Sensitive (8 ug/ml)
CHLORAMPHENICOL	Sensitive (4 ug/ml)
CIPROFLOXACIN	Sensitive (≤ 0.5 ug/ml)
ENROFLOXACIN	Sensitive (≤ 0.25 ug/ml)
GENTAMICIN	Sensitive (≤ 0.5 ug/ml)
PIPERACILLIN	Sensitive (≤ 8 ug/ml)
TETRACYCLINE	Resistant (≥ 16 ug/ml)
TICARCILLIN	Resistant (≥ 256 ug/ml)
TOBRAMYCIN	Sensitive (≤ 0.5 ug/ml)
TRIMETHOPRIM-SULFA	Sensitive (≤ 10 ug/ml)



EAST HAWAII VET CENTER
 PRINCE KUHUO PLAZA
 111 EAST PUAINAKO STREET SUITE A109

808-959-2273

Account: 4757

Owner: BLACKWELL
 Patient: SAM
 Species:
 Breed: GREEN SEA TRTL
 Age: 40
 Gender: M

1-888-433-9987
 Online results at
 www.vetconnect.com

Requisition # 2247171
 Accession # E7597652
 Order rec'd. 01/30/2010
 Ordered by MINA
 Reported 02/05/2010

ANAEROBIC & AEROBIC CULTURE

Test	Result
SOURCE	RT FLIPPER
STATUS	FINAL
COMPLETED CULTURE RESULTS	Aeromonas hydrophila - 3+ Pseudomonas aeruginosa - 3+ Pseudomonas mendocina 3+ Escherichia coli - 4+
ANAEROBIC RESULTS:	No organisms isolated anaerobically.

SUSCEPTIBILITY

Test	Result
ORGANISM	Escherichia coli 4+
CEFAZOLIN	Sensitive (ug/ml)
CEFIXIME	Sensitive (ug/ml)
CEFOTAXIME	Sensitive (ug/ml)
CEFTRIAXONE	Sensitive (ug/ml)
CEFUROXIME	Sensitive (ug/ml)
IMIPENEM	Sensitive (ug/ml)
MARBOFLOXACIN	Resistant (ug/ml)
ORBIFLOXACIN	Resistant (ug/ml)
OFLOXACIN	Resistant (ug/ml)
CEFPODOXIME	Sensitive (ug/ml)
CEFOVECIN	Sensitive (ug/ml)

SUSCEPTIBILITY

Test	Result
ORGANISM	Aeromonas hydrophila 3+

BLACKWELL, SAM
 02/05/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
 PAGE 1

AMIKACIN	Sensitive (<=2 ug/ml)
AMOX/CLAV ACID	Resistant (>=32 ug/ml)
AMOXICILLIN	Resistant (>=32 ug/ml)
CEFTAZIDIME	Sensitive (<=8 ug/ml)
CEFTIOFUR	Sensitive (<=1 ug/ml)
CEPHALEXIN	Sensitive (<=2 ug/ml)
CHLORAMPHENICOL	Sensitive (<=1 ug/ml)
CIPROFLOXACIN	Sensitive (<=0.5 ug/ml)
ENROFLOXACIN	Resistant (>=2 ug/ml)
GENTAMICIN	Sensitive (<=0.5 ug/ml)
PIPERACILLIN	Sensitive (<=8 ug/ml)
TETRACYCLINE	Sensitive (<=1 ug/ml)
TICARCILLIN	Sensitive (<=16 ug/ml)
TOBRAMYCIN	Sensitive (<=0.5 ug/ml)
TRIMETHOPRIM-SULFA	Sensitive (<=10 ug/ml)

SUSCEPTIBILITY	
Test	Result
ORGANISM	Pseudomonas aeruginosa 3+
AMIKACIN	Sensitive (<=2 ug/ml)
CEFTAZIDIME	Sensitive (<=8 ug/ml)
CEFTIOFUR	Resistant (>=8 ug/ml)
CHLORAMPHENICOL	Resistant (>=32 ug/ml)
CIPROFLOXACIN	Sensitive (<=0.5 ug/ml)
ENROFLOXACIN	Sensitive (0.5 ug/ml)
GENTAMICIN	Sensitive (2 ug/ml)
PIPERACILLIN	Sensitive (<=8 ug/ml)
TICARCILLIN	Sensitive (<=16 ug/ml)
TOBRAMYCIN	Sensitive (<=0.5 ug/ml)

SUSCEPTIBILITY	
Test	Result
ORGANISM	Pseudomonas mendocina 3+
AMIKACIN	Sensitive (<=2 ug/ml)
AMOX/CLAV ACID	Intermediate (16 ug/ml)

AMOXICILLIN	Resistant (≥ 32 ug/ml)
CEFTAZIDIME	Sensitive (≤ 8 ug/ml)
CEFTIOFUR	Resistant (≥ 8 ug/ml)
CEPHALEXIN	Resistant (≥ 32 ug/ml)
CHLORAMPHENICOL	Resistant (≥ 32 ug/ml)
CIPROFLOXACIN	Sensitive (≤ 0.5 ug/ml)
ENROFLOXACIN	Intermediate (1 ug/ml)
GENTAMICIN	Sensitive (≤ 0.5 ug/ml)
PIPERACILLIN	Sensitive (≤ 8 ug/ml)
TETRACYCLINE	Resistant (≥ 16 ug/ml)
TICARCILLIN	Sensitive (≤ 16 ug/ml)
TOBRAMYCIN	Sensitive (≤ 0.5 ug/ml)
TRIMETHOPRIM-SULFA	Sensitive (≤ 10 ug/ml)

SUSCEPTIBILITY

Test	Result
ORGANISM	Escherichia coli 4+
AMIKACIN	Sensitive (≤ 2 ug/ml)
AMOX/CLAV ACID	Sensitive (≤ 8 ug/ml)
AMOXICILLIN	Resistant (≥ 32 ug/ml)
CEFTAZIDIME	Sensitive (≤ 8 ug/ml)
CEFTIOFUR	Sensitive (≤ 1 ug/ml)
CEPHALEXIN	Intermediate (8 ug/ml)
CHLORAMPHENICOL	Sensitive (4 ug/ml)
CIPROFLOXACIN	Resistant (≥ 4 ug/ml)
ENROFLOXACIN	Resistant (≥ 2 ug/ml)
GENTAMICIN	Resistant (≥ 16 ug/ml)
PIPERACILLIN	Resistant (16 ug/ml)
TETRACYCLINE	Resistant (≥ 16 ug/ml)
TICARCILLIN	Resistant (≥ 256 ug/ml)
TOBRAMYCIN	Intermediate (8 ug/ml)
TRIMETHOPRIM-SULFA	Resistant (160 ug/ml)

REPTILIAN PROFILE #1 REPTILIAN PANEL #1

Test	Result	Reference Range	Flag	Bar Graph
------	--------	-----------------	------	-----------

BLACKWELL, SAM
02/05/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
PAGE 3

ALK PHOSPHATASE	16	- U/L		
ALT (SGPT)	2	- U/L		
AST (SGOT)	556	- U/L		
CK	3198	- U/L		
RESULT VERIFIED BY REPEAT ANALYSIS				
LDH	491	- IU/L		
ALBUMIN	0.9	- g/dL		
TOTAL PROTEIN	3.1	- g/dL		
GLOBULIN	2.2	- g/dL		
CHOLESTEROL	212	- mg/dL		
GLUCOSE	121	- mg/dL		
CALCIUM	19.4	- mg/dL		
RESULT VERIFIED BY REPEAT ANALYSIS				
PHOSPHORUS	5.9	- mg/dL		
POTASSIUM	5.7	- mEq/L		
SODIUM	123	- mEq/L		
A/G RATIO	0.4			
URIC ACID	27.9	- mg/dL		

REPTILIAN PROFILE #1		AVIAN/EXOTIC CBC AND PLASMA PROTEIN		
Test	Result	Reference Range	Flag	Bar Graph
WBC-EST	21.5-23.5	- THOUS.		
WBC CORRECTED	17.6	- THOUS.		
WBC COUNT	22.5	- THOUS.		
ESTIMATED WBC.				
HCT	18.0	- %		
HETEROPHILS	75	- %		
LYMPHOCYTES	19	- %		
MONOCYTES	3	- %		
EOSINOPHIL	1	- %		
BASOPHIL	2	- %		
ABSOLUTE HETEROPHIL	16875	- /uL		
ABSOLUTE LYMPHOCYTE	4275	- /uL		
ABSOLUTE MONOCYTE	675	- /uL		
ABSOLUTE EOSINOPHIL	225	- /uL		
ABSOLUTE BASOPHIL	450	- /uL		
THROMBOCYTES	ADEQUATE			
REMARKS	BASOPHILIC STIPPLING + IMMATURE RBC'S PRESENT - FEW			

BLACKWELL, SAM
02/05/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
PAGE 4

PLASMA PROTEIN	4.5			
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BLACKWELL, SAM
02/05/2010

FINAL REPORT

PAGE 5 OF 5



EAST HAWAII VET CENTER
PRINCE KUHUO PLAZA
111 EAST PUAINAKO STREET SUITE A-109

808-959-2273

Account: 4/5/

Owner: BLACKWELL
Patient: SAM
Species: REPTILE
Breed: GRN SEA TURTLE
Age: 40
Gender: M

1 888 400 0087
Online results at
www.vetconnect.com

Requisition # 224112
Accession # E0462364
Order received 02/08/2010
Ordered by ANNA
Reported 02/08/2010

PRIORITY BIOPSY W/ MIC (1 SITE)

TEST	Result	Reference Range	Flag	Bar Graph
SOURCE/HISTORY				

ADDENDUM: 2/08/10

Anorexia, sluggishness, and skin sloughing; sample is a flake of skin from the left front flipper

MICROSCOPIC DESCRIPTION

A single thin wedge portion of skin is received and a representative cross-section is evaluated, demonstrating diffuse complete full thickness necrosis of the epidermis, extending deeply into the dermis, unaccompanied by inflammatory reaction. The net affect is complete coagulative necrosis of skin, with deep tissue colonization by apparent bacteria. Furthermore, within the necrotic tissue, there are vague outlines of suspected fungal organisms. Special chromatic stains have been requested to help highlight fungal organisms. Focally, several deep dermal vessels also contain fragments of spirorchid trematodes (ubiquitous in turtles).

MICROSCOPIC INTERPRETATION

Regionally marked full thickness skin necrosis (necrotizing dermatitis), pending special chromatic stains

ADDENDUM: 2/08/10

Mycotic dermatitis

COMMENTS

Correlating with the clinical history, the submitted portion of skin demonstrates complete full thickness necrosis of epidermis and dermis. Though difficult to visualize on H and E, I suspect that there are fungal organisms associated with the skin necrosis, and for this reason, special chromatic stains have been requested. Please allow two to three days for processing, and an addendum will be issued. Thank you for your patience.

BLACKWELL, SAM
02/08/2010

FINAL REPORT - CONTINUED ON NEXT PAGE
PAGE 1

ADDENDUM. 2/08/10

PAS stain highlights fungal hyphae invading the necrotic skin. These are nonparallel, irregularly septate branching hyphae; specific in conidia are not observed. Most frequently, mycotic dermatitis of chelonians is secondary, associated with other causes of immunosuppression, and a wide variety of fungal organisms can be associated with this dermatitis. These infections can become systemic.

PATHOLOGIST

TAMMY JOHNSON, DVM
Diplomate, American College
of Veterinary Pathologists
(1-888-433-9987, ext. 68603)
E-mail: tammy.johnson@IDEXX.com

*Marine Turtle Research
NOAA NMFS PIFSC
2570 Dole Street
Honolulu, Hawaii 96822*