

GROSS NECROPSY REPORT

Updated 11/11/2010

SPECIES Tursiops truncatus **FIELD NUMBER** 76IMMS080510 **DATE** 08/05/2010

LOCATION 1.5 miles from Pass Christian Harbor, MS **LAT** 30.17.372/**LONG** 89.16.432

GENDER Female **TL** 141 **COND** 2 **WEIGHT** Approx 31 kgs

HISTORY: Found floating dead in oiled water.

NECROPSY

EXTERNAL EXAM: Flaky white dried substance on skin. Left dorsal fluke- multiple fresh conspecific rake marks. Ventral left fluke- 1 fresh conspecific rake mark. Left flipper- fresh conspecific rake marks. Right dorsal fluke- fresh conspecific rake marks and conspecific rake mark scars, 0.5 cm circular punctuate light gray discolored lesion. Left dorsal fin- Long, conspecific rake mark on cranial aspect. Right flipper, medial aspect- multiple fresh, bleeding conspecific rake marks with 1 cm area of skin missing. Vibrissae follicles visible on upper jaws. Blood coming out of mouth and blowhole. Left lower jaw- 3 teeth erupted. Upper left jaw- 15 teeth erupted. Upper right jaw- 19 teeth erupted. Purulent discharge from left eye.

INTERNAL EXAM:

BLUBBER: Petechial hemorrhage.

MUSCULOSKELETON

Axial Muscle: Subcutaneous tissue dry. Bruising of peritoneal lining ventral midline ventral to liver.

Axial Skeleton: No fractures visible.

Ribs & Sternum: Fracture of 4,5,6,7 right ribs dorsal to costosternal junction. Fracture of 8 and 9th ribs on dorsal aspect.

CIRCULATORY SYSTEM

Heart: Valves normal. No congenital defects found. Coronary arteries normal.

RESPIRATORY SYSTEM

Blowholes: Blood coming out of blowhole

Trachea: Mucosal hemorrhage trachea and bronchi.

Lungs: Left lung- Ecchymotic hemorrhage. Generalized irregular sized granulomas ranging in size from 0.5 cm to 2 cm. Granulomas had yellowish green caseous material. Cranial lobe- 2 greenish red circular lesions- 4 cm x 2 cm, 3 cm x 2 cm. Smaller lesion had with two healing puncture wounds. Right lung hemorrhagic with 9 cm laceration. Clotted blood in right thorax. Generalized irregular sized granulomas in right lung. Mild small white parasites found in right lung. One granuloma contained multiple small white linear parasites.

DIGESTIVE SYSTEM

Esophagus: Blood tinged liquid with white flecks in esophagus

Fore Stomach: Approximately 25 mls of reddish brown fluid. No ulcers. No parasites.

Main Stomach: Empty. No parasites.

Pyloric Stomach: Large amount of brownish tan liquid. No parasites seen.

Intestine: No parasites seen.

Describe food-stuffs found in GI Tract: Reddish brown fluid.

Describe parasites found in GI Tract: None found.

Liver: Bruising between liver and diaphragm

Pancreas: Pink. Bile orange colored.

URINARY SYSTEM

Kidneys: No stones seen. Firm, normal appearance to renacula

Adrenals: Reddish brown, firm.

Urinary Bladder: Empty. No stones found.

ENDOCRINE & HEMOLYMPHATIC SYSTEMS

Thymus: Large, white.

Thyroid: Dark red.

Pituitary: Dark red.

Spleen: Dark red.

Lymph Nodes: Suprascapular ln- hemorrhagic and edematous.

REPRODUCTIVE TRACT: Within normal limits.

CENTRAL NERVOUS SYSTEM

Brain: Subdural hematoma on caudal aspect. Hematoma on caudal cerebrum.

Spinal Cord: Clotted blood in spinal canal.

HEAD

SENSORY ORGANS

Eyes: Mucopurulent discharge from left eye.

Ears: Blood in left ear canal.

OTHER: Parasites in formalin for Dr. Overstreet

CONCLUSIONS: Trauma to head and right thorax, bilateral pulmonary granulomatous pneumonia, hemorrhagic syndrome

Carcass Disposition:

CAUSE OF DEATH FROM FIELD DETERMINATION: Trauma and rupture of right lung.

This report was generated by: Dr. Connie Chevis

TISSUES COLLECTED

Hydrocarbon testing:

Bile
Blood
Liver X 2
Kidney X 2
Muscle X 2
Lung X 2
Intestine X 2
Blubber X 2

Frozen (-10°C): IMMS

Blubber
Muscle
Liver
Kidney- left
Stomach contents
Teeth

Histo (10% Buffered Formalin): Dr. Rotstein X2, IMMS X 2

Blubber
Muscle
Liver
Kidney- left
Stomach
Heart
Intestine
Lymph nodes- suprascapular, pulmonary, colonic, tracheobronchial
Cerebrum
Cerebellum
Thymus
Thyroid
Ureter
Adrenal
Spinal cord
Taste buds
Pancreas
Bladder
Eyes- L-DROT, R-IMMS
Bone marrow

70% ETOH:

Skin

Skeletal: Rib in formalin

Virology: Dr. Romero, frozen

Lung
Feces-LI

Cerebrum
Cerebellum
Spinal Cord
BH Swab
Spleen
Liver
Kidney
Culturette: Abdominal fluid

Cultures: Memorial Hospital- Bacterial and fungal

Abdominal fluid- No growth after 48 hours. No fungus at 4 weeks.

Mucopurulent fluid from left eye- 2+ *Vibrio parahaemolyticus*. No fungus at 4 weeks.

Lung- granuloma. 1+ *Vibrio damsela*. No fungus at 4 weeks.

PHOTOS/VIDEO: Yes/No

ASSOCIATED DATA SHEETS: Level A Data Form, Delphinid Specimen record, NOAA Photo Log, NOAA Chain of custody record.