

# Oiled Marine Mammal

## Gross Necropsy Report

|   |  |
|---|--|
| Spill Name: BP Deepwater Horizon / MC 252 |  |
| Animal Log #: BP-2010-LA408               |  |
| Level A Field #: SDD-20100905-LA003       | Tag #:                                     |
| Species: Tursiops truncatus               |  |
| Sex: Female                               | Age: Yearling                              |
| Weight: NE                                | kg (estimate/actual) <input type="radio"/> |
| SON: emaciated 1 2 3 4 5 6 7 obese 4      |  |
| Measurements: Blubber depth 11 mm         |  |
| SL 188 cm                                 | AG CBD cm                                  |
| UG 0 cm                                   | XG 0 cm                                    |

|  |                |
|--|----------------|
| Form completed by: M. Piscitelli   | Date: 9/8/2010 |
| Enforcement Officer:   |                |
| Strand/Capture location: Grand Isle, LA  |                |
| Collectors Name: Suzy Delaune - LDWF   |                |
| Intake date: 9-5-2010 / 17:30  | Euthanasia:    |
| Death date:  | Time:          |
| Post mortem date: 9/8/2010   | Time: 16:31    |
| Carcass Classification: Frozen <input type="radio"/> yes <input checked="" type="radio"/> no |                |
| 2- fresh, 3-fair (organs intact), 4-poor, 5- mummified 2                                     |                |
| Photographs: <input checked="" type="checkbox"/>   |                |
| Radiographs: <input type="checkbox"/>  |                |

|                          |              |
|--------------------------|--------------|
| Clinical signs/diagnosis | FDOB in surf |
| Antibiotics given        | NA           |
| Pertinent lab results    | NA           |

**GROSS NECROPSY ABNORMALITIES:**

**EXTERNAL EXAM:** Multiple, well-healed con-specific tooth rakes on R & L pectoral fins and dorsal peduncle. Girth CBD because of shark bites. No evidence of human interaction with what was left of the carcass after shark bites.

**Pectoral Girdle:** R gleno-humeral joint articulating surfaces were smooth, white with red tinged synovial fluid.

**Heart:** Retia tissue of tracheal ring engorged. Heart little apparent IVS fat. Ventricular wall thicknesses (mm)= 0.7 (right), 2.2 (left). R and L ventricles NVL. R atrio-ventricular valve had a focal area of grape jelly (hemorrhage / edema?).

**Lungs:** L lung was taut to the touch (inflated?) and nodular. Cranio-ventral margins were thin and undeveloped (typical character of juvenile of this species?). Pleural surface of lung was homogeneously pink-red. Along the dorsal mid-line, pleural surface was greenish in color (decomposition). Upon cut, parenchyma was homogeneously beige pink. Upon cut of nodules - light load, caseous encased lung worm. R lung similar to L lung. Both lungs had a light load of active lung worm.

**Fore Stomach:** Mucosa NVL. Moderate amount of bony fish parts and brownish fluid. Neither parasites, nor ulcers present.

**Main Stomach:** Light load of Braunina. Contained small amount of brownish fluid.

**Pyloric Stomach:** Light load of Braunina. Contained fish eyeballs. One volcanic-like ulcer, approximately 1 x 1cm in size.

**Intestine:** Serosal surface of the proximal intestine had multiple raised, circular nodules, approximately 1mm in size. Upon cut of this region, mucosa was focally pink in color but nodules did not perforate wall. Proximal intestine contained a small amount of cream-yellow fluid, and a light load of active nematodes. Colon contained small amount of sandy, yellow-cream viscous fluid. Most intestines missing except for a very small portion of proximal intestine and colon.

**Liver:** Firm to the touch. Serosal surface homogeneously purple in color. Upon cut, parenchyma was heterogeneously speckled blackish-brown. Endothelial lining of blood vessels were hypertrophied / thickened.

**Brain:** Dura mater was fibrotic to the touch. Cerebral blood vessels were engorged, especially R cerebrum. Blood vessels of cerebellum also engorged.

**CONCLUSIONS:** YOY, non-emaciated, female. No obvious evidence of human interaction. Extensive shark bites from thoracic cavity caudally. Entire abdomen and organs missing. Significant findings includes the following. Both lungs had a light load of active lung worm. Moderate amount of bony fish parts in fore stomach. Light load of Braunina in main and pyloric stomachs. One volcanic-like ulcer, approximately 1 x 1cm in size in pyloric stomach. Serosal surface of the proximal intestine had multiple raised, circular nodules, approximately 1mm in size. Mucosa in this region was focally pink in color. Light load of active nematodes in proximal intestine. Upon cut, of liver parenchyma was heterogeneously speckled blackish-brown, and endothelial lining of blood vessels were hypertrophied. Dura mater of brain was fibrotic, and cerebral blood vessels were engorged, especially R cerebrum.

| HYDROCARBON ANALYSIS SAMPLES              |   |   | MICROBIOLOGY                   |  | SWABS: other   |  |
|---|---|---|--------------------------------|--|--|--|
| bile <input checked="" type="checkbox"/>  | kidney <input checked="" type="checkbox"/>    | blubber/fat <input checked="" type="checkbox"/> | Lung <input type="checkbox"/>  |  | 3 gauze swabs of epidermis, colon contents x1 vial   |  |
| blood <input checked="" type="checkbox"/> | muscle <input checked="" type="checkbox"/>    | other: <input checked="" type="checkbox"/>      | Liver <input type="checkbox"/> |  | skin for genetics, stomach contents x1 ziplock bag   |  |
| urine <input type="checkbox"/>            | lung <input checked="" type="checkbox"/>      |   | other <input type="checkbox"/> |  | DMSO skin for genetics, intestinal worm x1 vial E10H |  |
| liver <input checked="" type="checkbox"/> | intestine <input checked="" type="checkbox"/> |   |                                |  |  |  |

| HISTOLOGY SAMPLES                                    |  |  |   |   |  | LYMPH NODES:                        |   |
|--|--|--|---|---|--|-------------------------------------|---|
| lung <input checked="" type="checkbox"/>             | thyroid <input checked="" type="checkbox"/>  | ileum <input type="checkbox"/>               | kidney <input checked="" type="checkbox"/>      | mammary gland <input type="checkbox"/>        | muscle <input checked="" type="checkbox"/> | colonic <input type="checkbox"/>    | gastric <input type="checkbox"/>                |
| trachea <input checked="" type="checkbox"/>          | tonsil <input type="checkbox"/>              | colon <input checked="" type="checkbox"/>    | ureter <input type="checkbox"/>                 | adrenal <input checked="" type="checkbox"/>   | gonad <input type="checkbox"/>             | sublumbar <input type="checkbox"/>  | hepatic <input type="checkbox"/>                |
| heart <input checked="" type="checkbox"/>            | tongue <input type="checkbox"/>              | pancreas <input checked="" type="checkbox"/> | urinary bladder <input type="checkbox"/>        | skin <input checked="" type="checkbox"/>      | prostate <input type="checkbox"/>          | inguinal <input type="checkbox"/>   | mediastinal <input checked="" type="checkbox"/> |
| aorta <input checked="" type="checkbox"/>            | esophagus <input type="checkbox"/>           | spleen <input checked="" type="checkbox"/>   | urethra <input type="checkbox"/>                | eye (L/R) <input checked="" type="checkbox"/> | uterus <input type="checkbox"/>            | axillary <input type="checkbox"/>   | submandibular <input type="checkbox"/>          |
| pulmonary artery <input checked="" type="checkbox"/> | stomach <input checked="" type="checkbox"/>  | liver <input checked="" type="checkbox"/>    | blubber <input checked="" type="checkbox"/>     | fat-site: <input type="checkbox"/>            | vagina <input type="checkbox"/>            | mesenteric <input type="checkbox"/> | tracheobronchial <input type="checkbox"/>       |
| thymus <input checked="" type="checkbox"/>           | duodenum <input checked="" type="checkbox"/> | gall bladder <input type="checkbox"/>        | bone marrow <input checked="" type="checkbox"/> |   | cervix <input type="checkbox"/>            |                                     |   |
| salivary gland <input type="checkbox"/>              | jejunum <input type="checkbox"/>             | brain <input checked="" type="checkbox"/>    | spinal cord <input checked="" type="checkbox"/> | whole repro <input type="checkbox"/>          | penis <input type="checkbox"/>             |                                     |   |
| other: pulmonary marginal LN, pituitary, diaphragm   |  |  |   |   |  |                                     |   |

**Cause of death (preliminary diagnosis):** CBD on gross necropsy. Awaiting results of histopathology. See conclusions above.

Examiner: C. Field & M. Piscitelli      Examiner's signature: *C. Field, M. Piscitelli*      Date: 9/8/2010