NECROPSY FORM

FIELD #: Ps 4	NECROPSY DATE: March 29 2017
SPECIES: PHOCOENA SINUS	STRAND DATE: n/a
AGE CLASS: ADULT	STRAND LOCATION: FLOATING IN VAQUITA REFUGE, BAJA
	California, MX at 31 15,689N 114 50,382
SEX: MALE WEIGHT: 36.7 KG	THAW DATE: NOT FROZEN, KEPT ON ICE
PROSECTOR(S): LRB, FMDG, KD, SM, RLB,	CARCASS CONDITION CODE:4
TOTAL LENGTH: EST 135-140 CM (MISSING	TIME: 11.30 AM
FLUKES, SEE MORPHOMETRIC SHEET)	

Cause of Death: Trauma, acute death (stomach full). Fisheries bycatch

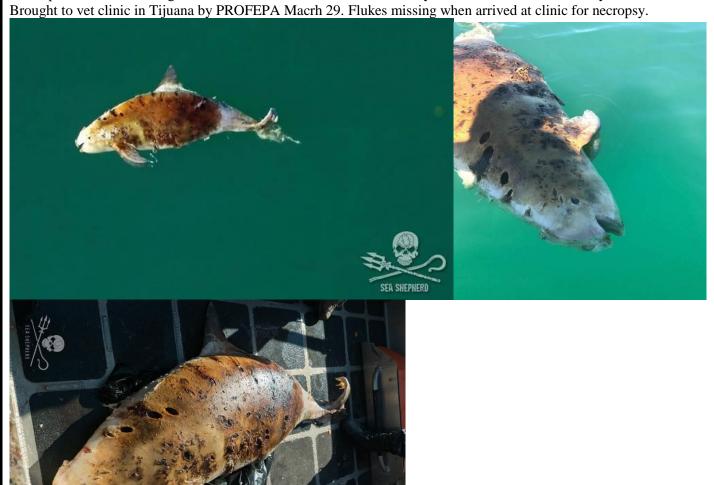
Samples collected:

Given to PROFEPA: Skin: 2 vials (ethanol & frozen); Muscle: 2 vials (ethanol & frozen), 1 frozen whirlpak Skeleton (whole), teeth (2 bags, 3 teeth in each, front & mid left mandibular), reproductive tract (frozen, pelvic bones included)

Transported to NOAA/SWFSC: Stomach contents

Feces (handed to "Nieto" from CICESE, Ensenada, for biotoxin analyses)

STRANDING OR SAMPLING HISTORY: Found floating by Sea Shepherd, extensively scavenged and decomposed on left side, right side more intact, flukes attached, Sunday March 19 2017. Collected by PROFEPA. Brought to vet clinic in Tijuana by PROFEPA March 29. Flukes missing when arrived at clinic for necropsy.



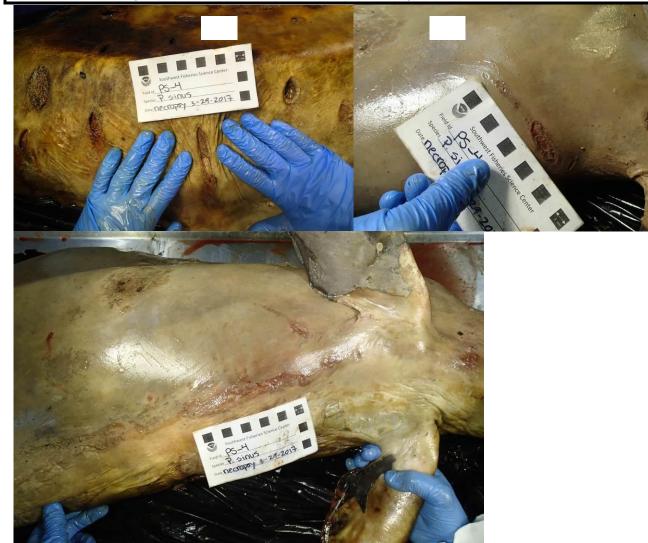
BODY CONDITION (EXTERIOR):

Robust nutritional condition (nuchal area convex), epithelium is mostly missing, blubber on left side is yellow, dried out, blubber on right side moist



SKIN / HUMAN INTERACTION: Multiple focal lacerations 2-5 cms in length, ovoid due to tissue dessication, clean edges to straight cuts over left side of body, suggestive of sharp blade cuts e.g., knife stabs. Superficial abrasion caudal to axilla right side, partial skin thickness, irregular in shape, similar shallow skin abrasion midline ventrum from axial to umbilical area.

Notch in caudal margin dorsal fin. Peduncle severed, flukes missing.



DISCHARGES: ABSENT

UMBILICUS: Healed

BLUBBER: Yellow, dried out on left side, right side moist. Liquefying with patches of green tissue. Edematous purple area around ventral neck, more marked on right side. Deep purple edema in right axillary area.



SKELETAL MUSCLE: Liquefying, deeper purple tissue in right axillary area.

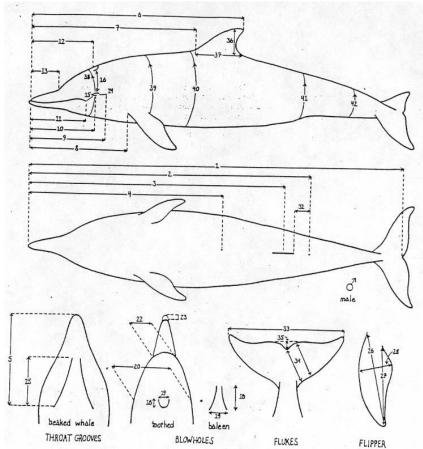
SKELETON AND JOINTS: Fracture of third rib left side, comminuted with sharp edges. Possibly underlying area of stab wound in skin. No abnormalities of neck detected on X ray. Dorsal processes of lumbar vertebrae photographed to show characteristic shape.



FIELD #:Ps 4
EYES: Right: intact, rotting Left: missing
ORAL CAVITY: Teeth fully erupted, multiple teeth missing, presumed due to post mortem loss.
THORACIC CAVITY: Liquefied contents E
ESOPHAGUS: Empty
THYROID: Smooth, deep red, 2 cms diameter THYMUS: NE
TRACHEA / BRONCHI / LUNGS: No parasites detected, no froth in airways, lung parenchyma uniformly congested.
HEART / PULMONARY ARTERIES / AORTA: Fat present in cardiac groove, valves smooth
ABDOMEN LIVER: Dark green/black, friable, shape normal SPLEEN: Liquefying PANCREAS: NE
STOMACH: Fore stomach distended with partially digested fish, 558 g with 7 whole fish, 5 pairs of otoliths and 19 additional otoliths, side unknown, one squid beak and crustacean parts. No parasites detected.
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SMALL INTESTINE: Brown liquid contents. No parasites detected
LARGE INTESTINE: Contents light brown, firm.
ADRENAL GLAND: Right: NE Left: NE
URINARY BLADDER: NE
KIDNEY: Right: NE Left: NE
MALE REPRODUCTIVE TRACT testes decomposing, right testis approx 20 cms long, penis no external lesions.
WALE REI ROBUCTIVE TRACT testes decomposing, right testis approx 20 cms long, pems no external resions.
INSIDE SKULL: NE
BRAIN: Cerebrum: NE Cerebellum: NE Brain stem: NE
SPINAL CORD:

1 IEEE 11_1 S. 1
MEASUREMENTS (specify units <u>Cm</u>) 1. total length missing fulles to the part 123
2. snout to anus
3. snout to genital slit
4. snout to umbilicus
5. snout to throat grooves
6. snout to dorsal fin tip
7. snout to anterior dorsal fin
8. snout to flipper
9. snout to ear
10.011000.1003
11. snout to gape
· · · · · · · · · · · · · · · · · · ·
13. snout to melon apex
15. center of eye to gape*
16. center or eye to gape
17. center eye to blowhole edge, R*
18. blowholelengthwidth*
19. diameter ear opening
20, head diameter at eyes*
21. length of eye opening
22. rostral width, melon apex*
23. projection upper/lower jaw
24. number of throat grooves

(*not parallel to body axis) 25. length of throat grooves
44. thickness same place*
45. blubber thickness, dorsal*
46. blubber thickness, lateral*
47. blubber thickness, ventral*
48. blubber thickness, cervical*



Estimated total length is 135 cm -140cm. This is based on measure comparisons to a male Vaquita, total length 134.5 cm, specimen 85-0313-04-24 (Brownell et al 1987). The measurement used for comparison were snout to tip of dorsal fin, snout to umbilicus, snout to genital slit of specimen.

Ps 4 FIELD #: S# 1898 SPECIMEN NO. **DATE EXAMINED** PS-4 3/30/2017 **EXAMINED BY** K. Sherman, R. Brownell **FORESTOMACH** Nine otoliths collected from five almost whole fish and remains of two more plus 19 additional otoliths SQUID WEIGHT (g) FISH WEIGHT (g) 367.2 WEIGHT BEFORE EXAM (g) 558.2 WEIGHT AFTER EXAM (g) 0 WEIGHT OF CONTENTS (g) 558.2 CONTENTS Number of: Uppers Lowers Undeter. **Pairs** Beaks Rights Lefts Undeter. **Pairs Otoliths** # Beak Vials: 1 # Otolith Vials: 2 # Nematodes # Isopods 0 # Crustaceans Foreign Objects MAIN STOMACH - No weight taken BEAKS PRESENT: OTOLITHS PRESENT: 0 0 0 0 19

NOTES Weight is from after contents were removed from stomach. Miscellaneous vertebral columns measure out to ~35cm. Fish A: 80.2g, 23.2cm; Fish B: 27.8g, 15.9cm; Fish C: 41.6g, 17.8cm; Fish D: 39.0g, 15.6cm (minimum- hypural plate to brain case); Fish E: 53.8g, 17.4cm; Fish F: 32.7g, 16.8cm (minimium- no hypural plate); Fish G: 32.6g, 18.0cm. Fish F and G had no otoliths, Fish E was the most intact and only the left otolith was removed to keep the right side of the fish intact for possible identification. Crab legs saved in ETOH, unidentified shells saved in ETOH (1 large

FIELD #__Ps. 4_____