



Inspection Report

Memphis Zoo
2000 Prentiss Place
Memphis, TN 38112

Customer ID: **3059**

Certificate: **63-C-0004**

Site: 001

MEMPHIS ZOO AND AQUARIUM

Type: RE-LICENSE INSPECTION

Date: 27-NOV-2023

3.150(a) Critical

Facilities, general.

Primary enclosures failed to protect birds from injury.

***On September 25, 2023 a 1-year-old domestic bantam rooster was found not moving in a pool in the "Duckling Pen". After extensive medical interventions and treatments, the animal died. According to medical records and conversations with staff and the Attending Veterinarian and clinical veterinarian, the rooster died as a result of drowning in the pool. Prior to its death, the animal had been housed for approximately 3 weeks with another chicken in an enclosure adjacent to the "Duckling Pen". On the day of its death, the rooster (who was not flight restricted) flew over an approximately 3-foot tall baby gate into an adjacent enclosure (the "duckling pen") which contained a pool of water used for ducklings. The pool of water was square, approximately 4 feet wide by 4 foot long, and the sides of the pool were steep and smooth. The depth of the pool in the center was approximately 3 feet deep. Facility staff believe that the rooster fell into the pool and couldn't get out. The facility has since covered the pool so it is no longer accessible to birds in the enclosure.

***Disposition records show that two North American ruddy ducks "disappeared", and facility staff and the Attending Veterinarian stated that the animals were lost to predation, most likely racoons. The facility searched for the birds thoroughly for multiple days, and officially documented the disappearances on October 31st and October 23rd, 2023 in facility records. The birds had been living in the "Teton Marsh Exhibit", which contains a pond and natural marshy areas, and also houses a variety of waterfowl. The back walls of the enclosure are six-foot-tall chain link, and the front of the enclosure is an elevated public walkway bordered by an approximately 4-foot tall wire and wooden fence. The birds were flight restricted (pinioned). The facility has a predator control program in place and has undertaken measures to prevent additional predation near this exhibit.

Birds that are not protected from hazards or predation may suffer from stress, injury, or death.

Correct by ensuring that bird enclosures are maintained in good repair, protect the birds from injury, contain the birds, and restrict other animals from entering who may negatively affect the welfare of the birds within. Corrected at the time of inspection.

3.81(c)

Environment enhancement to promote psychological well-being.

The enrichment plan for nonhuman primates does not address special considerations for infants and young juveniles, animals showing signs of psychological distress, individually housed primates that are unable to see and hear other primates of their own or compatible species, and great apes. While the facility has a detailed and robust enrichment

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USDA, APHIS, Animal Care

Date:

28-NOV-2023

Title: VETERINARY MEDICAL
OFFICER

Received by Title: Facility Representative

Date:

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program for animals, the written plan does not include these special considerations.

Enrichment, including special consideration for the groups listed above, is important for ensuring the health and wellbeing of nonhuman primates. Enrichment is important for relieving stress, ensuring normal development of young animals, and for allowing the expression of species-typical behaviors.

Correct by ensuring that the written enrichment plan for nonhuman primates contains all of the elements required under the Animal Welfare Act regulations.

3.106(b)(3)

Water quality.

The facility failed to conduct or failed to maintain complete records of water sampling for marine mammal pools at the minimum frequency required by the Animal Welfare Act (AWA).

***Review of water quality records for the pools housing California sea lions show no water quality test results for pH or salinity on 9/20/23, 9/21/23, 9/10/23, 8/22/23, 5/30/23 (record noted, "crazy day, no sample collected"), and 1/20/23. The water system does have a probe that reads pH in real time, however, the results are not recorded for the days in question.

***Review of water quality records for the polar bear pool (which contains fresh water) do not contain test results for 15 dates in 2023 (8/5, 7/29, 7/21, 7/15, 6/24, 5/30, 5/20, 3/31, 3/18, 3/3, 2/16, 2/9, 1/17, 1/16, 1/13). The water system does have a probe that reads pH in real time, however, the results are not recorded for the days in question.

Testing for water quality in marine mammal pools is important for ensuring that water is safe for marine mammals who use the pools. Lack of water quality testing may result in delays in detecting water quality issues which may affect animal health.

Correct by testing marine mammal pools at least the minimum frequency required by the AWA.

3.127(d)

Facilities, outdoor.

There are large piles of mulch next to the perimeter fence in the east end of the facility, adjacent to North Parkway Road. The perimeter fence in this area is less than 8-feet tall, due to the presence of the mulch piles against the fence. In some areas, the distance from the surface of the mulch pile (where it touches the fence) to the top of the fence is 5-feet, making the effective height of the fence 5-feet. The facility houses dangerous animals (including gorilla, big cats, and polar bear) which require perimeter fencing that is at least 8-feet tall.

Perimeter fencing is important for acting as a secondary containment system in the event that an animal escapes from its primary enclosure, and for preventing unauthorized animals and people from entering the facility.

Correct by ensuring that perimeter fencing is at least 8-feet tall in all areas, and maintained in good repair.

3.154(c)

Environment enhancement to promote psychological well-being.

The enrichment plan for birds does not address special considerations for nestlings, chicks, or fledglings; birds showing signs of psychological distress; or individually housed birds of a social species that are unable to see and hear birds of their own or compatible species. While the facility has a detailed and robust enrichment program for birds, the written plan does not include these special considerations.

Enrichment, including special consideration for the groups listed above, is important for ensuring the health and wellbeing of birds. Enrichment is important for relieving stress, ensuring normal development of young birds, and for allowing the

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expression of species-typical behaviors.

Correct by ensuring that the written enrichment plan for birds contains all of the elements required under the Animal Welfare Act regulations.

This is a 1st Re-License Inspection for a Class "C" license. The inspection and exit briefing were conducted with facility representatives.

All items must be in compliance within 2 more inspections or by January 25th, 2024 or the applicant will forfeit the license fee and must wait 6 months to reapply. Please contact your inspector to schedule your next Re-License Inspection.

Regulated activity can continue under your existing USDA license until it expires.

Additional Inspectors:

Brittany Kessler, VETERINARY MEDICAL OFFICER

KATHRYN VERNON, ANIMAL CARE INSPECTOR

Prepared By: DIANA CARE

USDA, APHIS, Animal Care

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Species Inspected

Cust No	Cert No	Site	Site Name	Inspection
3059	63-C-0004	001	MEMPHIS ZOO AND AQUARIUM	27-NOV-2023

Count	Scientific Name	Common Name
000002	<i>Didelphis virginiana</i>	VIRGINIA OPOSSUM
000003	<i>Orycteropus afer</i>	AARDVARK
000001	<i>Lasiorhinus latifrons</i>	SOUTHERN HAIRY-NOSED WOMBAT
000004	<i>Nomascus leucogenys</i>	WHITE-CHEEKED GIBBON
000006	<i>Pan paniscus</i>	PYGMY CHIMPANZEE / BONOBO
000003	<i>Mandrillus sphinx</i>	MANDRILL
000003	<i>Colobus guereza</i>	EASTERN BLACK-AND-WHITE COLOBUS / GUEREZA
000007	<i>Trachypithecus francoisi</i>	FRANCOIS'S LANGUR
000002	<i>Echinops telfairi</i>	LESSER MADAGASCAR HEDGEHOG TENREC
000005	<i>Loxodonta africana</i>	AFRICAN ELEPHANT
000001	<i>Tolypeutes matacus</i>	SOUTHERN THREE-BANDED ARMADILLO
000003	<i>Choloepus didactylus</i>	LINNAEUS'S TWO-TOED SLOTH
000003	<i>Tamandua tetradactyla</i>	SOUTHERN TAMANDUA
000002	<i>Otolemur garnettii</i>	SMALL-EARED BUSHBABY / NORTHERN GREATER GALAGO
000002	<i>Symphalangus syndactylus</i>	SIAMANG
000004	<i>Varecia rubra</i>	RED RUFFED LEMUR
000003	<i>Varecia variegata</i>	BLACK-AND-WHITE RUFFED LEMUR
000001	<i>Loris tardigradus</i>	SLENDER LORIS
000002	<i>Nycticebus pygmaeus</i>	PYGMY SLOW LORIS
000002	<i>Perodicticus potto</i>	POTTO
000002	<i>Aotus lemurinus</i>	GRAY-BELLIED NIGHT MONKEY / LEMURINE NIGHT MONKEY
000003	<i>Cercopithecus petaurista</i>	LESSER SPOT-NOSED GUENON
000003	<i>Erythrocebus patas</i>	PATAS MONKEY
000007	<i>Macaca nigra</i>	SULAWESI CRESTED MACAQUE
000028	<i>Heterocephalus glaber</i>	NAKED MOLE-RAT
000004	<i>Gorilla gorilla</i>	WESTERN GORILLA
000005	<i>Cynomys ludovicianus</i>	BLACK-TAILED PRAIRIE DOG
000001	<i>Dasyprocta leporina</i>	BRAZILIAN AGOUTI
000065	<i>Desmodus rotundus</i>	COMMON VAMPIRE BAT
000370	<i>Carollia perspicillata</i>	SEBA'S SHORT-TAILED BAT
000004	<i>Pongo abelii</i>	SUMATRAN ORANGUTAN
000001	<i>Erethizon dorsatum</i>	NORTH AMERICAN PORCUPINE
000003	<i>Hystrix africaeaustralis</i>	CAPE PORCUPINE
000002	<i>Panthera onca</i>	JAGUAR
000002	<i>Panthera pardus</i>	LEOPARD
000003	<i>Coendou prehensilis</i>	PREHENSILE-TAILED PORCUPINE
000002	<i>Hydrochaeris hydrochaeris</i>	CAPYBARA
000032	<i>Rousettus aegyptiacus</i>	EGYPTIAN FRUIT BAT
000002	<i>Acinonyx jubatus</i>	CHEETAH
000001	<i>Prionailurus viverrinus</i>	FISHING CAT
000131	<i>Noctilio leporinus</i>	GREATER BULLDOG BAT
000003	<i>Caracal caracal</i>	CARACAL
000003	<i>Panthera leo</i>	LION
000001	<i>Arctictis binturong</i>	BINTURONG
000003	<i>Puma concolor</i>	PUMA / MOUNTAIN LION / COUGAR
000004	<i>Panthera tigris</i>	TIGER
000003	<i>Uncia uncia</i>	SNOW LEOPARD
000003	<i>Ursus americanus</i>	NORTH AMERICAN BLACK BEAR
000003	<i>Ursus arctos</i>	BROWN BEAR



Species Inspected

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3059	63-C-0004	001	MEMPHIS ZOO AND AQUARIUM	27-NOV-2023
000003	<i>Genetta tigrina</i>		LARGE-SPOTTED GENET	
000005	<i>Canis lupus</i>		GRAY WOLF / GREY WOLF / TIMBER WOLF	
000002	<i>Bassariscus astutus</i>		RINGTAIL	
000002	<i>Ceratotherium simum</i>		WHITE RHINOCEROS	
000002	<i>Ursus maritimus</i>		POLAR BEAR	
000006	<i>Ailurus fulgens</i>		RED PANDA	
000001	<i>Equus quagga</i>		BURCHELL'S / GRANT'S / CHAPMAN'S / PLAINS ZEBRA	
000008	<i>Zalophus californianus</i>		CALIFORNIA SEA LION	
000005	<i>Aonyx cinereus</i>		ORIENTAL SMALL-CLAWED OTTER	
000003	<i>Potos flavus</i>		KINKAJOU	
000002	<i>Madoqua kirkii</i>		KIRK'S DIKDIK / KIRKS DIK-DIK	
000004	<i>Hippopotamus amphibius</i>		HIPPOPOTAMUS	
000003	<i>Elaphurus davidianus</i>		PERE DAVID'S DEER	
000005	<i>Giraffa camelopardalis</i>		GIRAFFE	
000001	<i>Damaliscus pygargus</i>		BONTEBOK / BLESBOK	
000001	<i>Okapia johnstoni</i>		OKAPI	
000005	<i>Oryx dammah</i>		SCIMITAR-HORNED ORYX	
000003	<i>Bos taurus</i>		CATTLE / COW / OX / WATUSI	
000004	<i>Tragelaphus eurycerus</i>		BONGO	
000005	<i>Capra hircus</i>		DOMESTIC GOAT	
000004	<i>Ovis aries aries</i>		SHEEP INCLUDING ALL DOMESTIC BREEDS	
000001	<i>Euphractus sexcinctus</i>		YELLOW ARMADILLO	
000005	<i>Cervus canadensis</i>		ELK / WAPITI	
000001	<i>Ailurops ursinus</i>		SULAWESI BEAR CUSCUS	
000001	<i>Potamochoerus porcus</i>		RED RIVER HOG	
000001	<i>Dasyus novemcinctus</i>		NINE-BANDED ARMADILLO	
000002	<i>Hemigalus derbyanus</i>		BANDED PALM CIVET	
000004	<i>Otocyon megalotis</i>		BAT-EARED FOX	
000001	<i>Mephitis mephitis</i>		STRIPED SKUNK	
000001	<i>Sus scrofa</i>		WILD BOAR	
000002	<i>Struthio camelus</i>		COMMON OSTRICH	
000001	<i>Corvus albicollis</i>		WHITE-NECKED RAVEN	
000002	<i>Dromaius novaehollandiae</i>		EMU	
000001	<i>Meleagris gallopavo</i>		WILD TURKEY	
000001	<i>Chrysolophus pictus</i>		GOLDEN PHEASANT	
000007	<i>Marmaronetta angustirostris</i>		MARbled TEAL	
000003	<i>Rollulus rouloul</i>		CRESTED PARTRIDGE	
000006	<i>Chalcophaps indica</i>		ASIAN EMERALD DOVE / GREY-CAPPED EMERALD DOVE	
000002	<i>Coua cristata</i>		CRESTED COUA	
000018	<i>Spheniscus demersus</i>		AFRICAN PENGUIN / CAPE PENGUIN	
000001	<i>Tyto alba</i>		BARN OWL / WESTERN BARN OWL / AMERICAN BARN OWL / EASTERN BARN OWL	
000002	<i>Tragopan temminckii</i>		TEMMINCK'S TRAGOPAN	
000005	<i>Oxyura jamaicensis</i>		RUDDY DUCK	
000007	<i>Ptilinopus pulchellus</i>		BEAUTIFUL FRUIT-DOVE	
000001	<i>Parabuteo unicinctus</i>		HARRIS'S HAWK	
000001	<i>Bucorvus abyssinicus</i>		ABYSSINIAN GROUND-HORNBILL	
000012	<i>Gallus gallus</i>		RED JUNGLEFOWL	
000002	<i>Anser indicus</i>		BAR-HEADED GOOSE	
000002	<i>Balearica pavonina</i>		BLACK CROWNED-CRANE	
000002	<i>Lophura edwardsi</i>		EDWARDS'S PHEASANT / VIETNAM PHEASANT	



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3059	63-C-0004	001	MEMPHIS ZOO AND AQUARIUM	27-NOV-2023
000001	<i>Bucephala albeola</i>		BUFFLEHEAD	
000002	<i>Balearica regulorum</i>		GRAY CROWNED-CRANE / AFRICAN CROWNED-CRANE /	
			GOLDEN CROWNED-CRANE	
000002	<i>Anthropoides virgo</i>		DEMOISELLE CRANE	
000001	<i>Bubulcus ibis</i>		CATTLE EGRET	
000002	<i>Chauna torquata</i>		SOUTHERN SCREAMER / CRESTED SCREAMER	
000003	<i>Callonetta leucophrys</i>		RINGED TEAL	
000031	<i>Phoeniconaias minor</i>		LESSER FLAMINGO	
000001	<i>Tockus deckeni</i>		VON DER DECKEN'S HORNBILL	
000003	<i>Lanius melanoleucus</i>		MAGPIE SHRIKE / SOUTHERN GREY SHRIKE	
000010	<i>Dendrocygna viduata</i>		WHITE-FACED WHISTLING-DUCK	
000007	<i>Branta ruficollis</i>		RED-BREASTED GOOSE	
000002	<i>Anas crecca</i>		GREEN-WINGED TEAL / COMMON TEAL	
000003	<i>Glossoptilus goldiei</i>		GOLDIE'S LORIKEET	
000001	<i>Cygnus buccinator</i>		TRUMPETER SWAN	
000002	<i>Oressochen jubatus</i>		ORINOCO GOOSE	
000001	<i>Netta rufina</i>		RED-CRESTED POCHARD	
000005	<i>Caloenas nicobarica</i>		NICOBAR PIGEON	
000002	<i>Ciconia ciconia</i>		WHITE STORK	
000001	<i>Aix sponsa</i>		WOOD DUCK / CAROLINA DUCK	
000001	<i>Anas platyrhynchos</i>		MALLARD	
000002	<i>Querula purpurata</i>		PURPLE-THROATED FRUITCROW	
000001	<i>Aix galericulata</i>		MANDARIN DUCK	
000002	<i>Aythya valisineria</i>		CANVASBACK	
000003	<i>Nettapus auritus</i>		AFRICAN PYGMY-GOOSE	
000002	<i>Alopecoenas xanthonurus</i>		WHITE-THROATED GROUND DOVE	
000002	<i>Antigone vipio</i>		WHITE-NAPED CRANE	
000001	<i>Trogon viridis</i>		GREEN-BACKED TROGON	
000001	<i>Ramphastos sulfuratus</i>		KEEL-BILLED TOUCAN	
000002	<i>Spatula hottentota</i>		BLUE-BILLED TEAL / HOTTENTOT TEAL	
000003	<i>Sibirionetta formosa</i>		BAIKAL TEAL	
000002	<i>Psophia crepitans</i>		GRAY-WINGED TRUMPETER	
000004	<i>Cinnyricinclus leucogaster</i>		VIOLET-BACKED STARLING	
000039	<i>Phoenicopterus chilensis</i>		CHILEAN FLAMINGO	
000004	<i>Cyanocorax chrysops</i>		PLUSH-CRESTED JAY	
000005	<i>Caloenas nicobarica</i>		NICOBAR PIGEON	
000002	<i>Ceratogymna elata</i>		YELLOW-CASQUED HORNBILL	
000003	<i>Bucorvus leadbeateri</i>		SOUTHERN GROUND-HORNBILL	
000003	<i>Trachyphonus erythrocephalus</i>		RED-AND-YELLOW BARBET	
000004	<i>Paroaria coronata</i>		RED-CRESTED CARDINAL	
000002	<i>Ducula bicolor</i>		PIED IMPERIAL-PIGEON	
000001	<i>Buteo jamaicensis</i>		RED-TAILED HAWK	
000006	<i>Haliaeetus leucocephalus</i>		BALD EAGLE	
000002	<i>Euphonia violacea</i>		VIOLACEOUS EUPHONIA	
000002	<i>Otidiphaps nobilis</i>		PHEASANT PIGEON	
000002	<i>Cathartes aura</i>		TURKEY VULTURE	
000006	<i>Megaceryle maxima</i>		GIANT KINGFISHER	
000003	<i>Xipholena punicea</i>		POMPADOUR COTINGA	
000002	<i>Antigone canadensis</i>		SANDHILL CRANE	
000005	<i>Loriculus galgulus</i>		BLUE-CROWNED HANGING-PARROT	
000003	<i>Euplectes nigroventris</i>		ZANZIBAR RED BISHOP	



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3059	63-C-0004	001	MEMPHIS ZOO AND AQUARIUM	27-NOV-2023
000002	<i>Scopus umbretta</i>		HAMERKOP	
000002	<i>Urocolius macrourus</i>		BLUE-NAPED MOUSEBIRD	
000004	<i>Pteroglossus viridis</i>		GREEN ARACARI	
000002	<i>Garrulax leucolophus</i>		WHITE-CRESTED LAUGHINGTHRUSH	
000003	<i>Pelecanus erythrorhynchos</i>		AMERICAN WHITE PELICAN	
000001	<i>Athene cunicularia</i>		BURROWING OWL	
000002	<i>Uraeginthus bengalus</i>		RED-CHEEKED CORDONBLEU	
000002	<i>Tockus erythrorhynchus</i>		NORTHERN RED-BILLED HORNBILL	
000001	<i>Todiramphus cinnamominus</i>		GUAM KINGFISHER	
000002	<i>Icterus icterus</i>		VENEZUELAN TROUPIAL	
000002	<i>Polihierax semitorquatus</i>		PYGMY FALCON	
000001	<i>Ara chloropterus</i>		RED-AND-GREEN MACAW / GREEN-WINGED MACAW	
000002	<i>Ara macao</i>		SCARLET MACAW	
000001	<i>Cyanocorax yncas</i>		GREEN JAY	
000011	<i>Cyanopica cyanus</i>		AZURE-WINGED MAGPIE	
000002	<i>Tangara mexicana</i>		TURQUOISE TANAGER	
000007	<i>Urocissa erythroryncha</i>		RED-BILLED BLUE-MAGPIE	
000004	<i>Lamprotornis iris</i>		EMERALD STARLING	
000002	<i>Lamprotornis regius</i>		GOLDEN-BREASTED STARLING	
000002	<i>Leucopsar rothschildi</i>		BALI MYNA	
000002	<i>Chrysomus icterocephalus</i>		YELLOW-HOODED BLACKBIRD	
000002	<i>Paroaria gularis</i>		RED-CAPPED CARDINAL	
000003	<i>Vidua paradisaea</i>		EASTERN PARADISE-WHYDAH / LONG-TAILED PARADISE-WHYDAH	
000002	<i>Chlorophanes spiza</i>		GREEN HONEYCREEPER	
000001	<i>Cyanerpes caeruleus</i>		PURPLE HONEYCREEPER	
000002	<i>Dacnis cayana</i>		BLUE DACNIS	
000002	<i>Tangara chilensis</i>		PARADISE TANAGER	
000005	<i>Stilpnia cyanicollis</i>		BLUE-NECKED TANAGER	
000002	<i>Ramphocelus carbo</i>		SILVER-BEAKED TANAGER	
000007	<i>Suricata suricatta</i>		SLENDER-TAILED MEERKAT	
001205	Total			



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