



**Wildlife  
Conservation  
Society**

The background features abstract geometric shapes in shades of green and blue. A large, dark green shape is prominent on the left, with a lighter green shape overlapping it. A blue shape is visible in the upper right corner. The right side of the image is white, where the text is located.

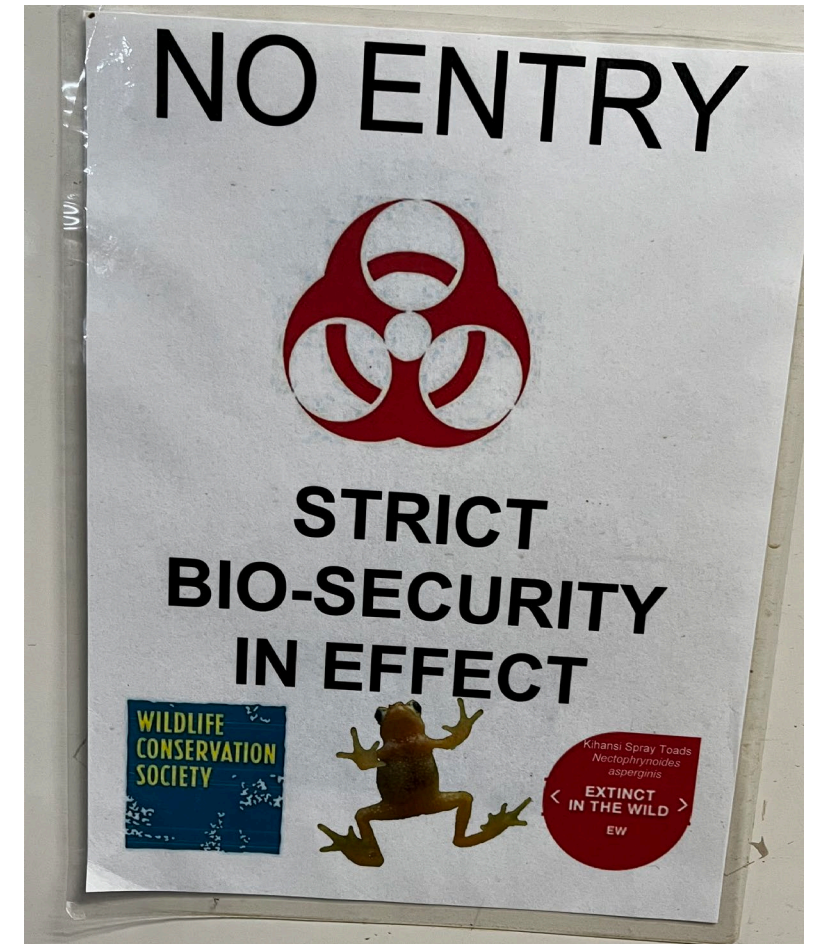
# Bio-Security Practices at the Bronx Zoo

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# Bio-Security

A set of management and physical measures designed to reduce the risk of introduction, establishment, and spread of animal diseases, infections or infestations to, from and within an animal population.

- The World Health Organization for Animal Health



# Bio-Security at the Bronx Zoo

Protect the Collection

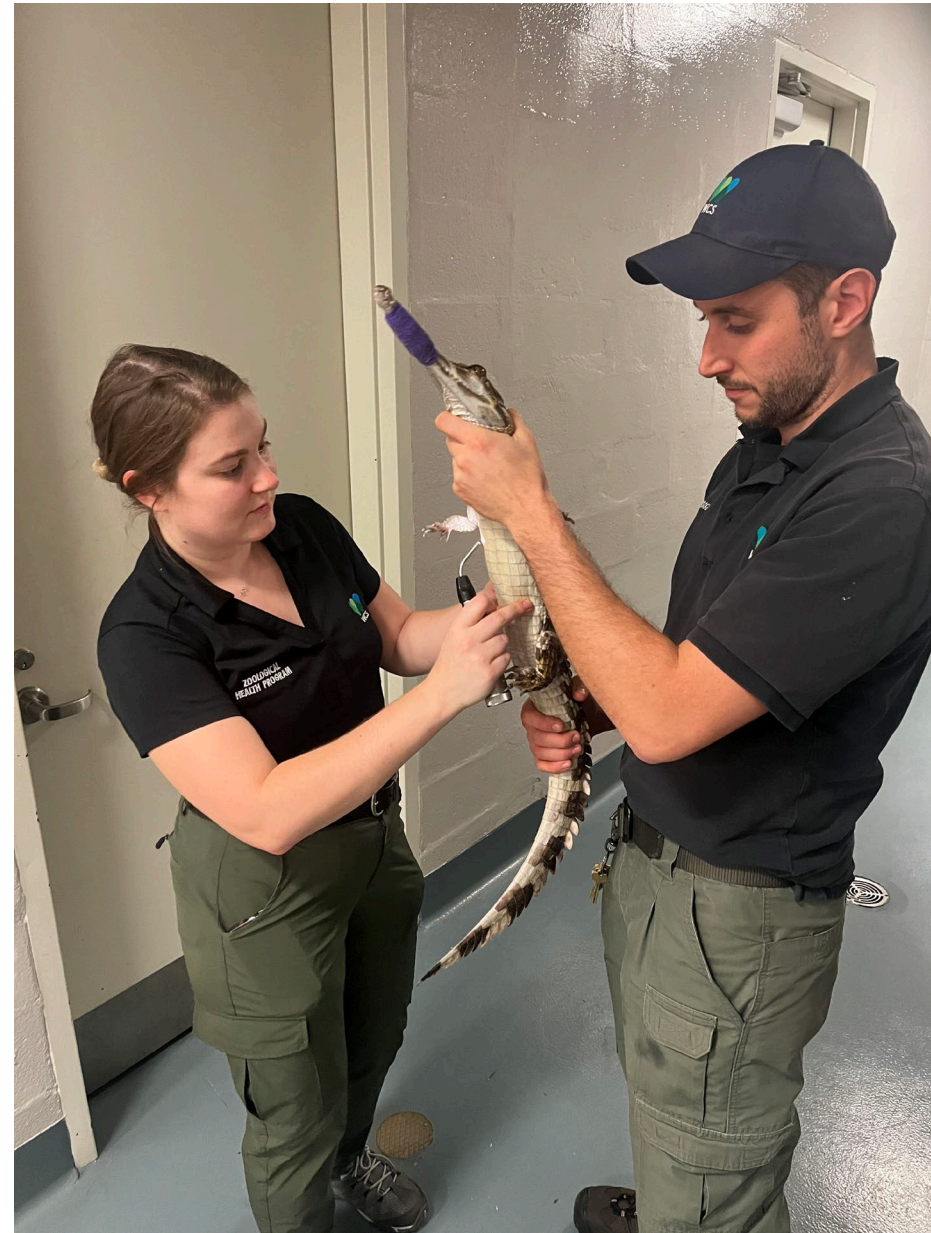
In-Situ Conservation





# Protect the Collection

- Pre-shipment disease screening
  - Taxa/species specific testing
  - Fecal screening for parasites
  - Blood analysis
  - Radiographs
- Quarantine
  - Minimum of 30 days in quarantine
  - Additional disease screening
  - 3 additional fecal screenings



# In-Situ Conservation

Kihansi Spray Toads

*Nectophrynoides asperginis*

Rote Island Snake-necked Turtles

*Chelodina mccordi*

Eastern Hellbenders

*Cryptobranchus alleganiensis*

Bog Turtles (In development)

*Glyptemys muhlenbergii*





# Isolation





# PPE





# Dedicated staff







# Challenges

- Staffing
  - Multiple bio-secure rooms
  - The entire collection needs care
  - Minimum staffing policies
- Logistics
  - Facilities in the same building
  - Facilities spread around the zoo
  - Animal healthcare in isolation
- Emergent diseases
  - Insufficient testing available
  - Poorly understood
- Permits
  - Timing of acquiring export permits
- Shipping
  - Ensuring bio-security throughout the export



# Conclusion

The goal is healthy populations by reducing risk

Limit the chances of introduction, establishment, and spread of diseases

Sometimes zoo-raised animals are the last hope for restoring wild populations





Questions  
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**We Stand for Wildlife™**

