



Aplicaciones
nucleares
para una **REGIÓN**
sustentable

Segunda Reunión de Coordinación del Proyecto Regional RLA5075 "Fortalecimiento de la capacidad regional en materia de prevención y control progresivo del gusano barrenador de ganado"

Medellín, Colombia, 25 a 29 de Noviembre 2019

País: Belize

Nombre del ponente: Shawn Parham

Puesto: Animal Health Technician

Institución: Belize Agricultural Health Authority





Capital: [Belmopan](#)

Area: 22,965 km²

Population: 374,681
(2017) [World Bank](#)

MAP OF BELIZE





Belize Agricultural Health Authority

BAHA's

Vision

Statement

To be a trusted and respected agricultural health authority that inspires confidence in the safety, wholesomeness and health of Belize's agriculture, fisheries and food products.

BAHA's

Mission

Statement

To serve Belize by providing efficient, competent and cost effective professional animal health, plant health, quarantine and food safety services that protect human health, animal health and welfare, plant health and the environment, ensure safe and wholesome food, strengthen national food security and facilitate trade and commerce.



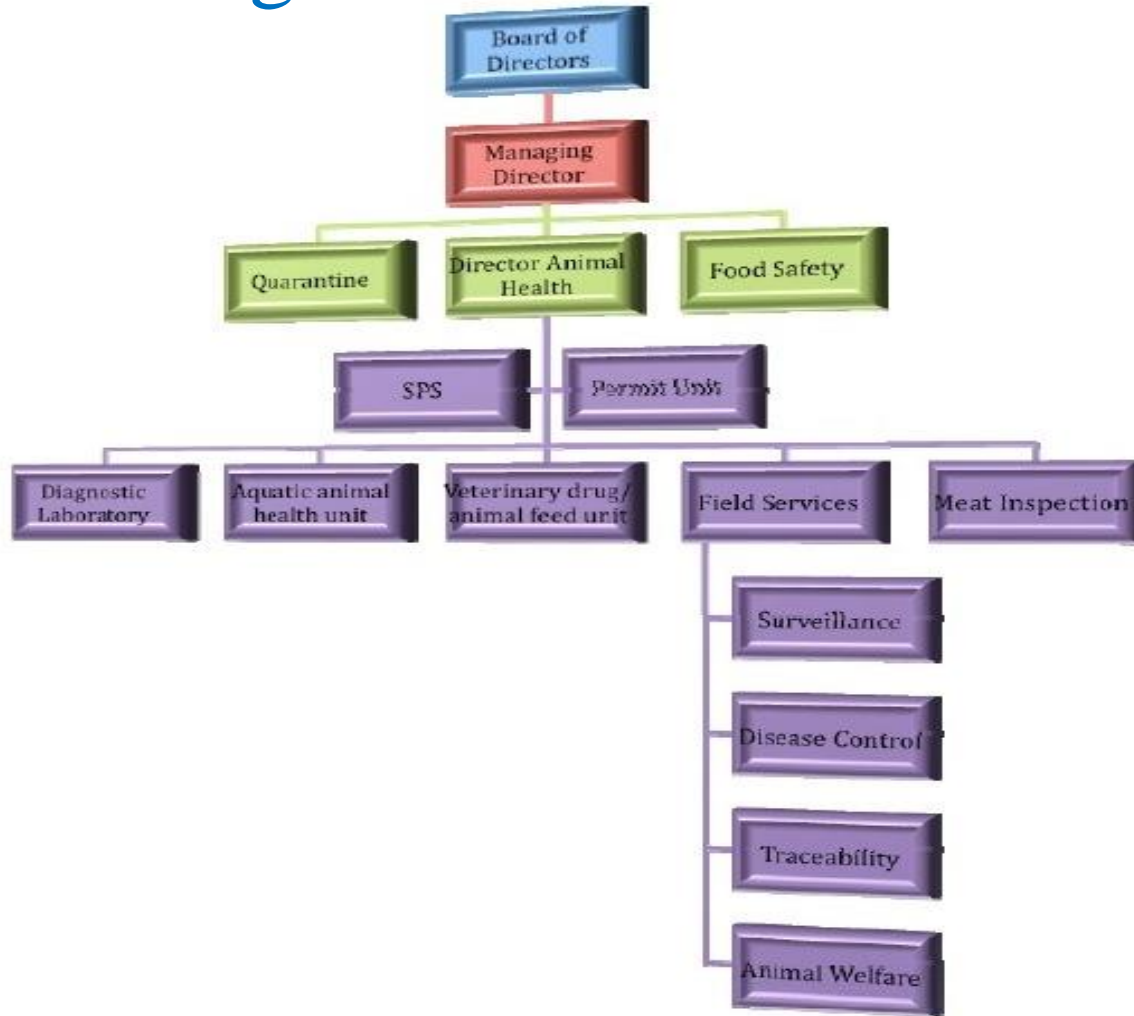


Belize Agricultural Health Authority

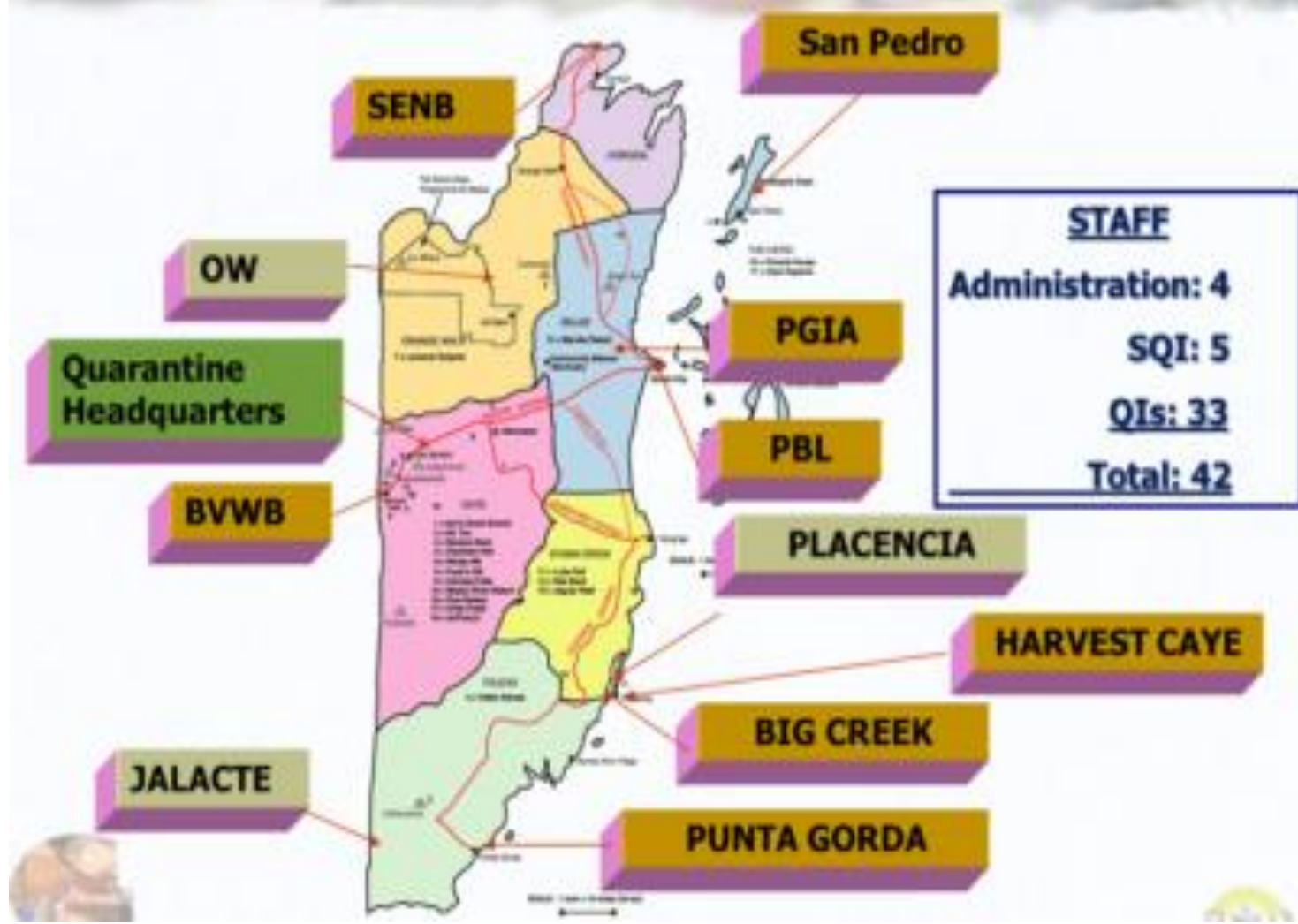
- Comprises of 4 operational departments and an administrative department:
- Animal Health Department: 15 staff (including 4 veterinarians);
- Plant Health Department: 17 staff;
- Food Safety Department: 17 staff (including 1 veterinarian);
- Quarantine Department: 42 staff
- Administration: 10 staff.



Belize Agricultural Health Authority



QUARANTINE STATIONS



**IMPORT CONDITIONS
DOGS & CATS**

Legislation: Sections 60–64 of the Belize Agricultural Health Authority Act, Chapter 211 of the Substantive Laws of Belize, Revised Edition 2000-2003

1. The pet animal is to be accompanied by a **veterinary certificate issued within two weeks of travel date by a registered veterinarian** in the country of origin, and attesting

THAT:

- A.** The pet animal is clinically healthy, free of signs of infectious and contagious disease, free of ticks and has no fresh wound or wound in the process of healing.
- B.** The pet animal has been vaccinated against **rabies** and that its vaccination is current. The date of vaccination and the vaccine trade name must be indicated on the certificate.

Pet animals less than four (4) months of age: vaccination waived but house quarantine upon arrival in Belize until thirty (30) days after rabies vaccination by a registered veterinarian.

2. NOTES

- a. All pet animals entering Belize are to be inspected by a BAHA official.
- b. Pet animals from countries affected with diseases and pests of quarantine importance (FMD, screwworm, etc) will require veterinary inspection at port of entry.
 - i. Importer will be informed of need for veterinary inspection when permit is issued.
 - ii. Importer must notify date, time and flight number to BAHA two days before pet animals arrive to ensure that veterinary officer is present at the time of entry.
- c. All costs of quarantine are to be borne by importer.
- d. The cage is to be new or cleaned and disinfected prior to use for the exportation of the pet animal.
- e. It is ***strongly recommended*** that:
 - i. all dogs be vaccinated against Distemper, Hepatitis, Leptospirosis and Parvovirus.
 - ii. all cats be vaccinated against Feline Viral Rhinotracheitis, Calici Virus and Panleucopaenia.
 - iii. the pet animal be treated against **endoparasites and ectoparasites** within thirty (30) days of exportation.

Sept. 2019

End

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Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases



In February 2016, the USDA-OIRSA agreement for the prevention of foot and mouth disease and screwworm was established, through which funds were allocated to strengthen surveillance activities for these diseases in all OIRSA member countries, with the purpose of safeguarding the region's health status for trans-boundary animal diseases such as foot and mouth disease and screwworm.

The results of the surveillance activities in Belize would facilitate timely decision-making in the event such a disease is detected.



Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases

Objective: To strengthen epidemiological surveillance on the suspicion of vesicular diseases and screw worm in risk areas through the use of mobile devices.

Specific objectives:

- 1. Characterization of risk areas for introduction of emerging and exotic diseases.**
- 2. Creation of a database generated from the characterization of risk areas.**
- 3. Improve and increase active and passive epidemiological surveillance for vesicular diseases and screw worm.**
- 4. Use the electronic application to perform reports of suspected vesicular disease and screw worm.**
- 5. To rule out the presence of emerging and exotic diseases in the country by showing our status at the regional level.**



Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases



Belize Budget

Country	Fuel		Vehicle Maintenance	Transportation of Samples to Copa	Transportation of samples to LADIVES	Total
	Characterization	Surveillance				
Belize	\$600.00	\$2,000.00	\$400.00	\$500.00	\$1,500.00	\$5,000.00
				Credit with Copa account No. COSAL 05375- OIRSA		



As one of the activities the animal population of Belize was characterized in a radius of 17 kilometres from four identified risk points in the country of Belize;

- 1.) Orange Walk District (Northern Zone)
- 2.) Belize District (Central Zone)
- 3.) Cayo District (Western Zone)
- 4.) Toledo District (Southern Zone)

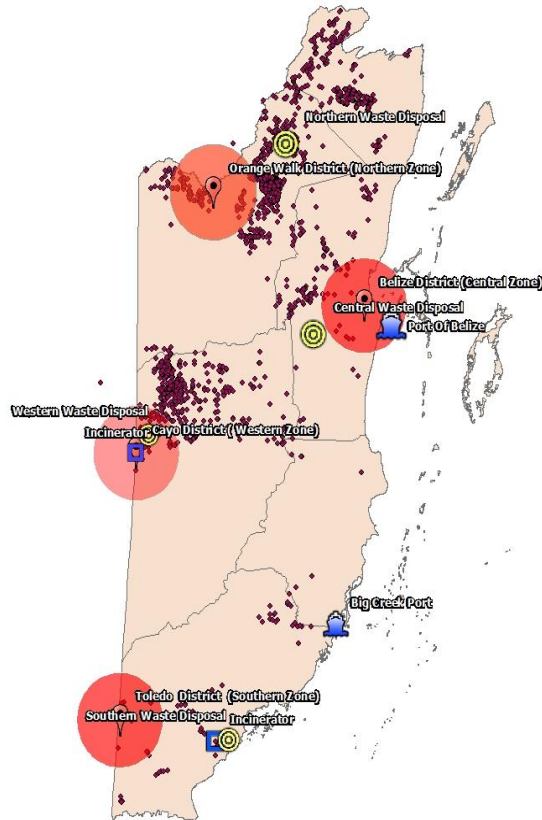
Specific activities were conducted in each risk zone including the characterization of the zone, identification of waste disposal sites, Identification of sentinel farms, farm visits, sampling and public awareness education campaigns.

Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases

<i>Risk Area</i>	<i>Area based on risk</i>	<i>Activity</i>	<i>Responsible</i>	<i>March 2016</i>	<i>April 16 – February 17</i>
1	International Airport (Central Zone)	Location of dumps and destruction points	Dr. Edwardo Teseicum	X	
		Determination of a radius of 17 km from the identified risk point			X
		Characterization of livestock establishments: (Use the traceability format F-TZ-01			X
		Epidemiological mapping (Access routes, geographic accidents and risk areas)			X
		Establish active surveillance			X
		Identification and establishment of sentinel farms			X
		Health education			X

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Characterization of risk areas: Map of Belize



	Cattle Farm
	Port
	Risk Area
	Waste Disposal
	Incinerator

Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases

CHARACTERIZATION OF TOLEDO DISTRICT SOUTHERN ZONE

No.	NAME	Village	Bovine	Equine	Porcine	Ovine	Caprine	Canine	Chickens	Turkeys	Ducks
1	Marcelino Ical	Jalacte	9	3	5	0	0	6	15	0	2
2	Clara Coe	Jalacte	0	0	0	0	0	0	20	1	0
3	Santos Coy	Jalacte	0	3	26	0	0	1	32	0	0
4	Yolanda Coy	Jalacte	0	0	0	0	0	0	8	0	0
5	Steven Coy	Jalacte	0	3	2	0	0	0	1	0	0
6	Alvina Pop	Jalacte	4	3	0	0	0	5	26	3	0

TRANSBOUNDARY DISEASE WEEKLY REPORT TOLEDO DISTRICT (SOUTHERN ZONE) JANUARY 2016 – FEBRUARY 2017

Week	Village	No. of Farms Visited	No. of Sentinel Farms Identified	Report	No. of Investigations	No. Samples	Public Awareness	Comment
Week 02 (11-17/01/2016)	Blue Creek Village	2		Reported by 0 owner	2		01	Farmer Education
Week 03 (18-24/01/2016)	Blue Creek Village	1		Reported by 0 owner	1		01	Farmer Education

Strengthening epidemiological surveillance and laboratory diagnosis for the prevention of foot-and-mouth disease, screw worm and other trans-boundary animal diseases

ACTIVE & PASSIVE SURVEILLANCE REPORT 2016

Zone	Specie	Active Surveillance				Passive Surveillance			
		Farm	Sampl e	Type	Test	Farm	Sampl e	Type	Test
Northern Zone	Avian	38	1080	Serum	A.I.	04	01	Sera	AI, NDV, Mycoplasma
	Bovine	0	0			14	12 04 01 01	Brain Serum Obex Faeces	Rabies CBC BSE Faecal Examination
	Equine	0	0			02	02	Brain	VEE, Rabies
	Porcine	0	0			01	0	N/A	N/A
	Ovine	0	0			02	01 01	Faeces Sera	Faecal Examination CBC
	Caprine	0	0			01	01	Faeces	Faecal Examination
	Canine	0	0			02	01	Brain	Rabies
	Wild Animals	0	0			01	01	Brain	Rabies
	Other	0	0						
	Sub Totals		38	1080			27	26	

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web announcement received from Member Countries on disease introduction simulation exercises taking place in their countries. (<http://www.oie.int/animal-health-in-the-world/the-world-animal-health-information-system/simulation-exercises/2014/>)

Location	Disease	Date
Denmark	Foot and mouth disease	2014 18 November
Belize	Classical swine fever	2014 28 to 29 October
Belize	White spot disease and emerging aquatic disease	2014 23 October
Brazil	Foot and mouth disease	2014 6 to 10 October
Romania	African and classical swine fever	2014 17 to 18 September
Belize	Foot and mouth disease	2014 15 to 17 September

Table 1: Farm Visits in Response to Notifications 2019

Species	District	Zone	Population	Cases
Bovine	Orange Walk and Corozal Districts	Northern Zone	3,132	52
Ovine	Orange Walk and Corozal Districts		317	11
Porcine	Orange Walk and Corozal Districts		1	1
Sub-Total	Orange Walk and Corozal Districts		3,450	64
Bovine	Stann Creek and Toledo Districts	Southern Zone	16	4
Ovine	Stann Creek and Toledo Districts		0	0
Porcine	Stann Creek and Toledo Districts		90	3
Sub-Total	Stann Creek and Toledo Districts		106	7
Bovine	Cayo and Belize Districts	Western and Central Zone	649	10
Ovine	Cayo and Belize Districts		180	2
Porcine	Cayo and Belize Districts		300	3
Sub-Total	Cayo and Belize Districts	Western & Central Zone	1,129	15
Grand Total		All Zones	4,685	86

Source: Animal Health Department, BAHA, 2019

Belize Agricultural Health Authority

Table 3: Farms visited and cattle tested, Jan-Oct 2019

2019 TESTING		
District	Number Of farms	No. Cattle
COROZAL	01	07
ORANGE WALK	125	1425
BELIZE	8	120
CAYO	62	1085
STANN CREEK	0	0
TOLEDO	0	0
TOTAL	196	2637

Source: Belize Livestock Producers Association. 2019





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BELIZE AGRICULTURAL HEALTH AUTHORITY - BAHA
 AGRICULTURAL TRACEABILITY FORM 01
 No. 00001

FTZ-01 AGRICULTURAL TRACEABILITY

DATE: _____ / _____ / _____
 TZ OPERATOR CODE: _____
 TZ OFFICIAL CODE: _____

REGISTRATION OF PERSONS AND ESTABLISHMENTS

Complete the following form.

PERSON INFORMATION

1. ARE YOU REGISTERED IN BELIZIAN LIVESTOCK REGISTRY?		YES	NO	If you answer is YES, continue to 3 and 4 section. Complete the Establishments information.	
2. CLASSIFICATION					
<input type="checkbox"/> FARMER		<input type="checkbox"/> MERCHANT		<input type="checkbox"/> MIDDLE MAN	
<input type="checkbox"/> SLAUGHTERHOUSE		<input type="checkbox"/> PROVIDER		<input type="checkbox"/> DISPLAY	
<input type="checkbox"/> ARTISAN PROCESSOR		<input type="checkbox"/> SLAUGHTERER		<input type="checkbox"/> INDUSTRIAL PROCESSOR	
<input type="checkbox"/> LESSEE					
3. INDIVIDUAL:		FIRST NAME		LAST NAME	
NATIONALITY		<input type="checkbox"/> BELIZEAN		<input type="checkbox"/> OTHER:	
4. CORPORATE:		CORPORATE NAME		COMMERCIAL NAME	
LEGAL REPRESENTATIVE:		FIRST NAME		LAST NAME	
NATIONALITY		<input type="checkbox"/> BELIZEAN		<input type="checkbox"/> OTHER:	
5. PHONE NUMBER		MOBILE		EMAIL	
6. ADDRESS					
DISTRICT		COMMUNITY			
STREET		HOUSE NUMBER			
ASSOCIATION					

ESTABLISHMENT INFORMATION

1. ESTABLISHMENT NAME		CODE	0	8	4														
2. ADDRESS																			
DISTRICT		COMMUNITY																	
STREET		HOUSE NUMBER																	
3. GEOGRAPHICAL COORDINATES		LATITUDE (°)		LONGITUDE (°)		GPS / DECIMAL COORDINATES		GRADES		MINUTES		SECONDS							
4. FARM SIZE		Acres		CATTLE		Acres		FOREST		Acres		AGRICULTURAL		Acres					
5. ESTABLISHMENT TYPE		<input type="checkbox"/> FARM		<input type="checkbox"/> OTHER:															
<input type="checkbox"/> CATTLE		<input type="checkbox"/> SWINE		<input type="checkbox"/> APIARIAN		<input type="checkbox"/> OVINE		<input type="checkbox"/> GOATS		<input type="checkbox"/> EQUINE		<input type="checkbox"/> POULTRY		<input type="checkbox"/> AGRICULT		<input type="checkbox"/> AQUACULT		<input type="checkbox"/> OTHER	
6. PRODUCTION SYSTEM		<input type="checkbox"/> PASTURE		<input type="checkbox"/> FEEDLOT		<input type="checkbox"/> RANGE		<input type="checkbox"/> MIXED		7. CAMPAIGNS (BR / TB / TICKS)									
8. IRRIGATION WATER SOURCE		<input type="checkbox"/> GROUND		<input type="checkbox"/> RIVER		<input type="checkbox"/> COMMERCIAL		<input type="checkbox"/> SURFACE		<input type="checkbox"/> LAGOON		<input type="checkbox"/> TRANSPORTED		<input type="checkbox"/> CORRAL					

ANNEX

Person Name _____ Signature _____
 Operator / Official Name _____ Signature _____



Nota: Original BAHA, Copy 1 Person y Copy 2 Operator. | The information contained in this document is an affidavit.

Annex 03: LIST OF MATERIALS AND EQUIPMENT

List of materials and equipment to be taken by the veterinarian to take samples of suspected vesicular disease

- | | |
|---|--------------------------|
| Disposable protective suit | <input type="checkbox"/> |
| Pair of rubber boots or covers disposable footwear | <input type="checkbox"/> |
| Pair of rubber gloves with rough palm surface | <input type="checkbox"/> |
| Pair of rubber or disposable gloves | <input type="checkbox"/> |
| Disposable Face Mask | <input type="checkbox"/> |
| Towel paper towels (do not carry the whole roll, just what you need) | <input type="checkbox"/> |
| Nose plug | <input type="checkbox"/> |
| Animal tie or rope | <input type="checkbox"/> |
| Thermometers | <input type="checkbox"/> |
| Plastic or metal bucket | <input type="checkbox"/> |
| Sponge | <input type="checkbox"/> |
| Strong Bristle Brush | <input type="checkbox"/> |
| Tweezers, scissors, syringes and needles), adhesive tape, etc. | <input type="checkbox"/> |
| Sample bottles, thermal box (which must not be removed from the vehicle) | <input type="checkbox"/> |
| 2Kg. Or more of 4% sodium carbonate or a disinfectant such as VIRKON | <input type="checkbox"/> |
| Form for the taking and sending of samples | <input type="checkbox"/> |



GRACIAS POR SU ATENCION

