

WWF-Singapore Rifle Range Road Monitoring SOP for Volunteers



[Data Submission Form](#)
[Training Slides and Video](#)

| | |
|---|-----------|
| 1. Monitoring Sessions | 2 |
| 1.1 Schedule | 2 |
| 1.2 Registration | 2 |
| 2. Volunteer Logistics | 3 |
| 2.1 Equipment | 3 |
| 2.2 Coordination between Participants | 3 |
| 2.3 Directions to Rifle Range Road | 4 |
| 3. Survey Protocol | 6 |
| 3.1 Survey Route | 6 |
| 3.1.1 Survey Map | 6 |
| 3.1.2 Route Breakdown | 7 |
| 3.2 Data Collection | 8 |
| 3.2.1 Survey Overview | 8 |
| 3.2.2 Rope Bridge Point Count (Starting Oct 2024) | 9 |
| 3.2.3 Survey Datasheet (Transect Survey) | 10 |
| 3.2.4 Survey Datasheet (Point Counts) | 11 |
| 3.2.5 Data Submission | 12 |
| 4. Additional Information | 15 |
| 4.1 Safety Information | 15 |
| 4.2 Important Contacts | 15 |

1. Monitoring Sessions

1.1 Schedule

Every last Saturday and Sunday of the month, 1 morning (AM) and evening (PM) session per day.

***AM: 8.00 am - 10.30 am, PM: 6.00 pm - 8.30 pm**

1.2 Registration

The WWF-Singapore volunteer team will release slots on Eventbrite for volunteers to register one month prior to each session.

Each session will be capped at **5 participants** (including WWF-Singapore staff).

[Access the Eventbrite page here.](#)

**Eventbrite URL for internal circulation only.*

2. Volunteer Logistics

2.1 Equipment

Attire

- Comfortable hiking attire
- Long pants are highly recommended
- Covered shoes
- Reflective vest (if available)
- Cap, arm sleeves (optional)

Items to Bring

- Charged mobile phone
- Insect repellent
- Drinking water
- Wet weather gear (poncho, umbrella)
- Flashlight/headlamp (**for PM sessions**)
- Clipboard and printed datasheet (optional)
- Camera (optional)
- Binoculars (optional)

2.2 Coordination between Participants

Before the Session:

- WWF-Singapore staff will notify the Telegram group 2 days in advance on whether the session will proceed (i.e at least 2 participants have signed up)
- Contact details of all participants within a session will be released at least 1 day before the survey. Participants can create their own internal chat groups/contact one another before the session to make transport arrangements.
- Participants are to inform the main chat group ahead of time if they are not feeling well and need to withdraw from the session.
- Participants should check the weather forecast 1 - 2 hours before the start of the survey. The session should **NOT** proceed in the event of heavy rain/thunderstorm.

During and After the Session:

- Participants will meet at the [Visitor Pavilion](#) of Rifle Range Nature Park **regardless of whether survey is in the forward/reverse direction.**



- The survey can only proceed if there are **at least 2 participants** present.
- One representative to message the main Telegram chat group at the start and end of every session (feel free to take a photo for attendance 😊).

2.3 Directions to Rifle Range Road

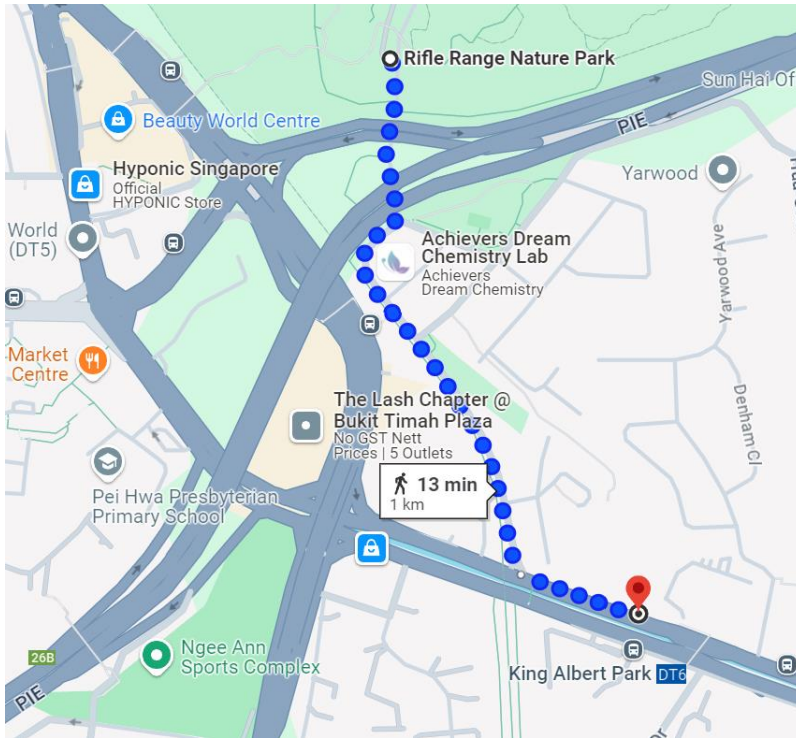
Car/Taxi:

- Carpark and drop-off/pickup point is linked here: [Rifle Range Nature Park](#). Visitor Pavilion is at the same location.
- **For PM surveys - Note that the carpark entry gantry only operates between 7.00am - 7.00pm, but the exit gantry will remain open 24/7. You will still be able to exit the carpark even after park operating hours.**

Public Transport:

- Before Survey
 - Participants can get to the Visitor Pavilion (start point) via **Beauty World MRT** (DTL). Take Exit A, and head to Level 4 of Beauty World Centre. There is an **overhead bridge** beside MuzArt/Four Paws Pet Shop & Cafe straight to Rifle Range Nature Park.
 - Refer to this video by NParks: [Rifle Range Nature Park | How To Get There](#)
- After Survey

- **AM Surveys:** After the survey, you can exit via the **same overhead bridge** to head back to Beauty World MRT station.
- **PM Surveys:** The overhead bridge is not accessible after **7.00pm**, so **continue walking along Rifle Range Road past the Visitor Pavilion** until Dunearn Road, then turn left to **King Albert Park MRT (DTL)**. Refer to the map below.

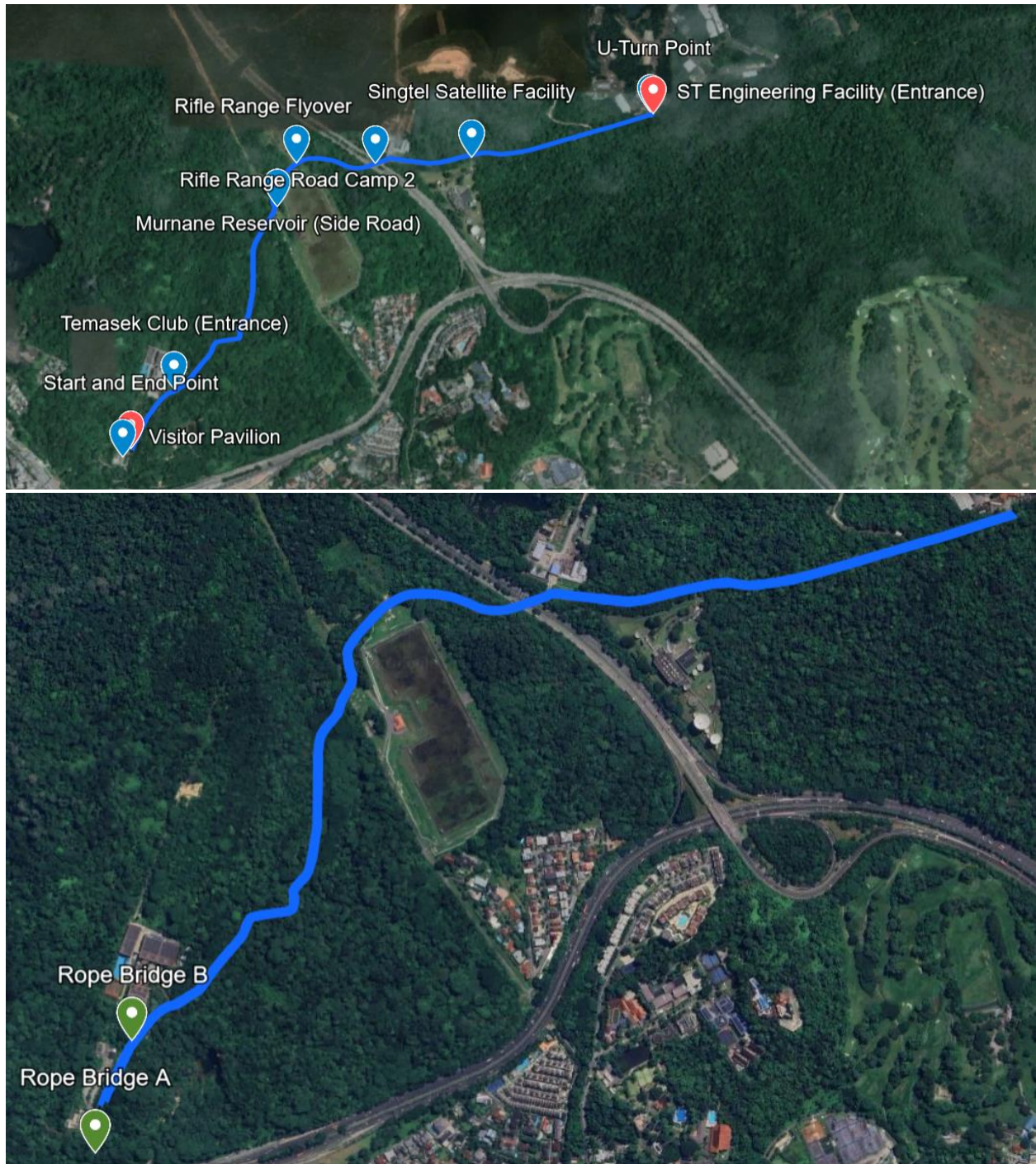


Google Maps link here: <https://maps.app.goo.gl/VojFYfW4Thi8GqDTA>

3. Survey Protocol

3.1 Survey Route

3.1.1 Survey Map



3.1.2 Route Breakdown

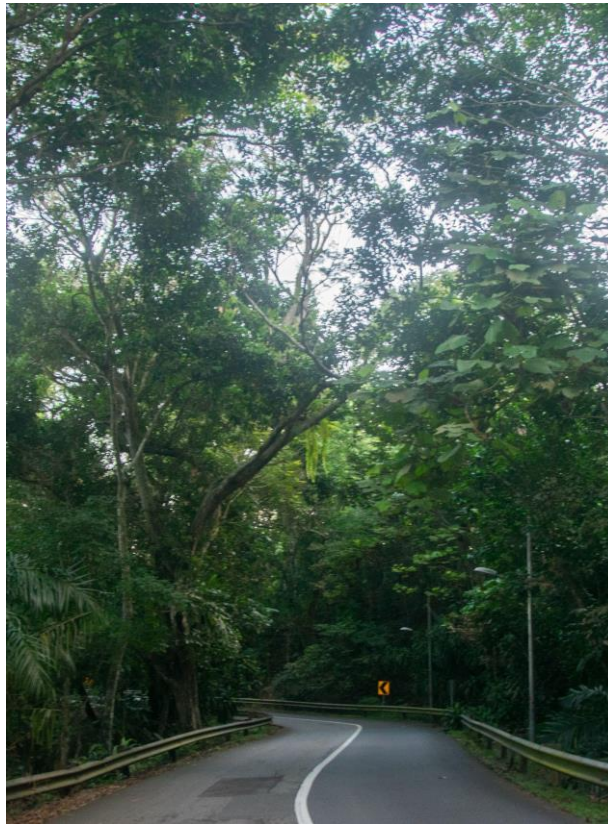
- Refer to this custom [Google Maps](#)
- Participants are to start from the [Visitor Pavilion](#) and walk out onto the pavement along Rifle Range Road. Data collection can start once participants are along the road.
- Following the road, head northeast towards Rifle Range Link. **Stick to the pavement as far as possible!**
- Notable Landmarks (in order): Temasek Club → Murnane Reservoir → Rifle Range Road
Camp 2 → Rifle Range Flyover → Singtel Satellite Facility → ST Engineering Facility
- The u-turn point will be at [Rifle Range Link](#). Participants should then spend the remaining time going back towards the Visitor Pavilion.

***As of Dec 2023, surveys will no longer be classified with Forward/Reverse directions. ALL surveys will start and end at the Visitor Pavilion.**

3.2 Data Collection

3.2.1 Survey Overview

- Each session will consist of **one transect survey** (From the Visitor Pavilion to the u-turn point at ST Engineering and finally back to the Visitor Pavilion) and **two point count surveys** (one at each Rope Bridge; refer to 3.2.2)
- Participants are to prioritise any **mammal, reptile, and amphibian** sightings on/along the road. Roadkills should also be recorded.
- Special attention should be given to crossings along the rope bridges and enclosed canopies.



Above: Example of an 'enclosed' canopy where branches from both sides of the road overlap

- All data collection should be done during the stipulated **2 hr 30 minute survey window**.
- Any other interesting sightings not in the targeted taxa/survey window can also be recorded (e.g. birds, insects)

3.2.2 Rope Bridge Point Count (Starting Oct 2024)

- Each session will now also include a **10 minute point count survey** at each rope bridge along the survey route

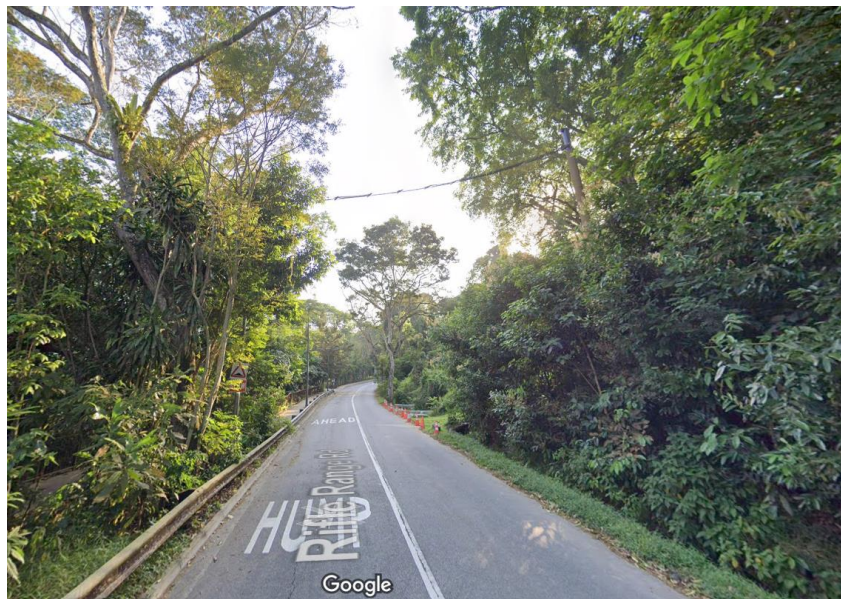
- **Rope Bridge A:** Before Visitor Pavilion/Overhead Boardwalk

- [Google Maps Link](#)



- **Rope Bridge B:** Between Visitor Pavilion and Temasek Club

- [Google Maps Link](#)



- Depending on the survey session, participants will do both point counts **either on the forward journey or on the return journey**. (Notified via email/Telegram)

9. Complete/Partial Crossing: Refer to descriptions below


10. Remarks: e.g. behaviours


- Definitions of crossing
 - **Complete:** the animal was recorded entering one side and exiting on the opposite side of the bridge.
 - **Partial:** the animal was recorded on a single side of the bridge and returned to its original side

3.2.5 Data Submission

- **All collected data should be submitted by one of the following methods:**
 - [Typeform](#)
 - Send copy of online datasheet/photos of physical datasheet to **Telegram group** or **volunteer@wwf.sg**
 - Please submit the data **within one week of the survey date.**
- If there are good photos of animals, please also submit them to the [WWF-Singapore iNaturalist](#) project!
 - **Step 1: Log In/Sign up for an iNaturalist account**

Welcome Back!

 Username or email

 Password

Remember me

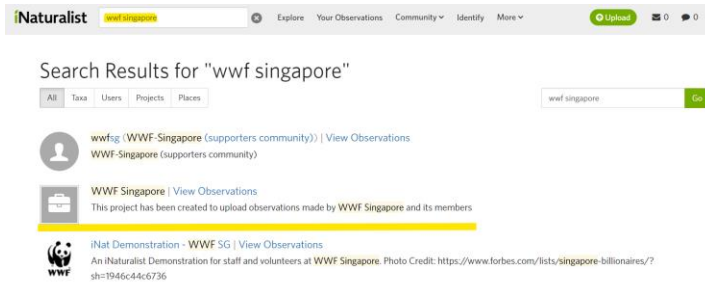
[Forgot your password?](#)

Log In

[Don't have an account? Sign up.](#)

[▶ Show more login options](#)

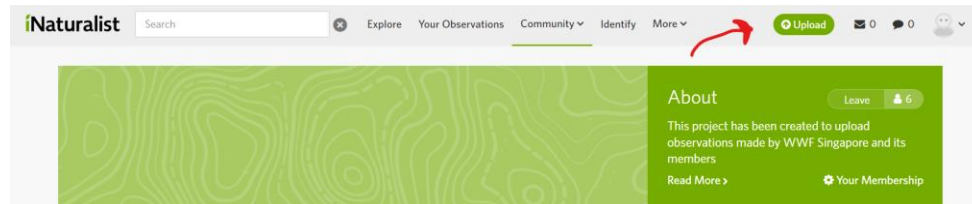
- **Step 2: Search for WWF-Singapore and click on the WWF-Singapore project**



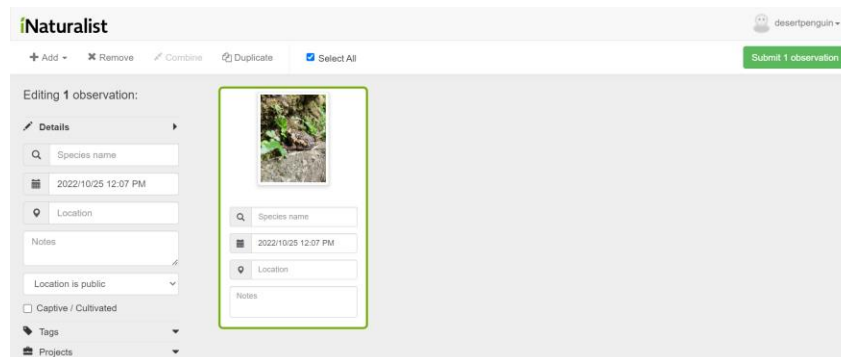
- **Step 3: Press 'Join' on the top right corner of the page**



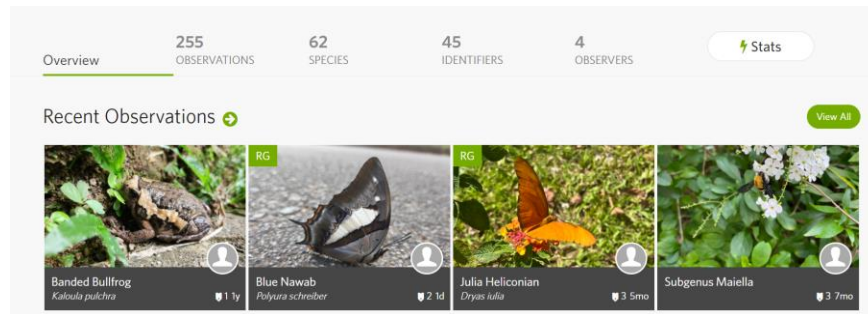
- **Step 4: Press on 'Upload' on the top right corner to add a listing**



- **Step 5: Add one or more pictures from your phone/computer and fill up the listed fields**



- **Step 6: Submit your observation(s) and it will automatically be added to the WWF-Singapore project!**



- Useful apps/sites for **animal identification**:
 - https://www.inaturalist.org/pages/seek_app
 - <https://www.ecologyasia.com/>
 - <https://singapore.biodiversity.online/>
 - <https://www.nparks.gov.sg/florafaunaweb>
 - <https://wiki.nus.edu.sg/display/TAX/Species+Pages>
 - Alternatively, send the photos into the volunteer Telegram group 😊

4. Additional Information

4.1 Safety Information

- Please always walk on the pedestrian pavement wherever possible. In certain stretches where there is no pavement, please keep to the side of the road and look out for oncoming traffic.
- For PM sessions, ensure your torches are fully charged and/or bring spare batteries. Wearing bright colours/reflective vests is recommended.
 - Most of the route will be lit by street lamps, except for the stretch near ST Engineering.
- If you encounter macaques and wild boars, keep your distance and make sure any food/bottles are stored securely in your bags.
 - Remember to record them in the datasheet too!
- Be wary of snakes/bees/wasps in the foliage along the road.
- There are only shelters at both ends of the survey route (Visitor Pavilion, Temasek Club and ST Engineering Visitor Carpark). Participants are to make the call on whether to end the survey and head to shelter in the event of sudden rain.

4.2 Important Contacts

- Ambulance/Emergency Services
 - Ambulance/Fire: **995**
 - Police: **999**
- WWF-SG Staff
 - General Volunteer Enquiries: +65 84881607
 - Jiajun: +65 97848003 or @lamjiajun on Telegram
 - Nayli: +65 9025 5787 or @thatssonalzzz on Telegram
- ACRES Wildlife Rescue (9783 7782) or NParks Animal Response Centre (1800 476 1600)

4.3 Miscellaneous

- Toilets at Rifle Range Nature Park Visitor Pavilion are open and functioning 24 hours, but lights will only be on from 7.00am to 7.00pm. Do let the onsite security guard know before using.
- AED available at Visitor Pavilion