



S & M PIG FARM

PROJECT SUMMARY

Name of Developer: Stephen Low-A-Chee

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Business Name: S & M Pig Farm

Project Location: Tract 'SL', Situated on Left Bank of the Badarima River, Left Bank Lamaha Creek, Northern Side of the Kuru Kururu/Laluni Trail, Eastern Side of the Soesdyke - Linden Highway

Project Type: Mixed Livestock Rearing

Project Duration: An additional 50 years

Project Location and Description

The mixed livestock rearing operation is located at Tract 'SL', Situated on Left Bank of the Badarima River, Left Bank Lamaha Creek, Northern Side of the Kuru Kururu/Laluni Trail, Eastern Side of the Soesdyke - Linden Highway and can be accessed via the Kuru Kururu trail.

The operation is an existing one that exists on approximately thirty-six (36) acres of Agricultural Lease lands and it includes the rearing of pigs, poultry, cows and sheep. There are also feed bunds on site, as well as a farm house, a pump house and a storage shed (See Site Plan). There are also plans to cultivate approximately one (1) acre of land for eddoes.

The operation is primarily surrounded by wooded areas, however, there are similar livestock operations located approximately six hundred and fifty metres (650 m) and eighteen hundred metres (1800 m) towards the north-east and the south-west, respectively. The access road to the facility is located towards the South. There is also a creek running through the lands towards the East of the facility. Please refer to figures 1 and 2 to view the location of the operation and the surrounding land uses.

S & M PIG FARM



Figure 1: Map showing location of facility

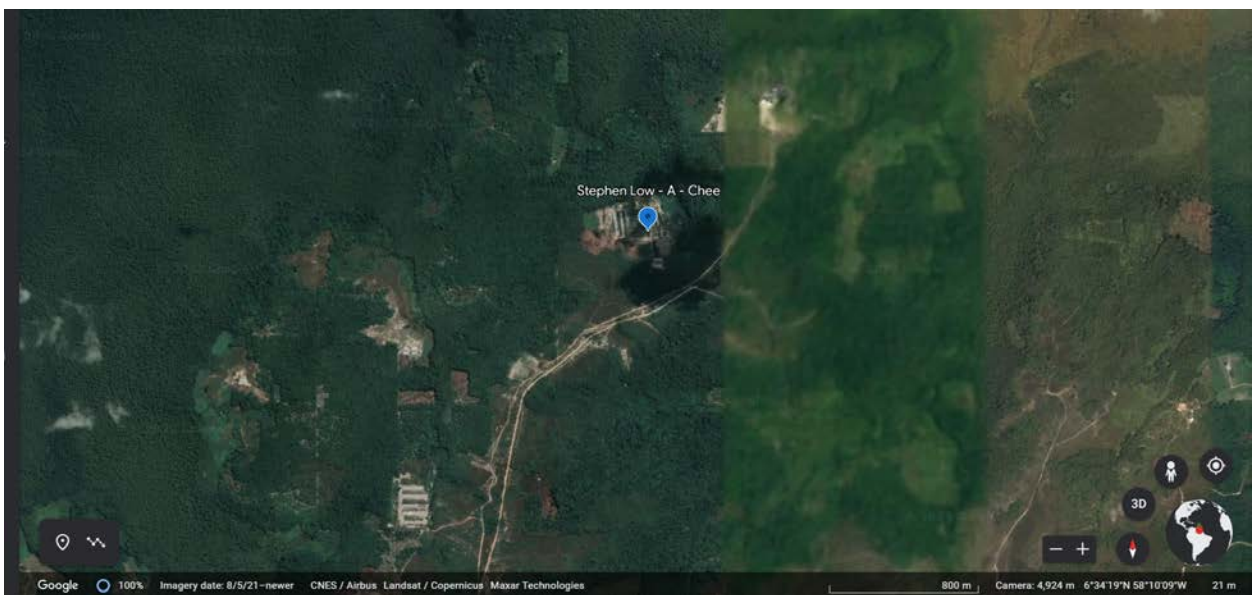


Figure 2: Map showing surrounding land uses.

General Information

Eleven (11) persons are employed to work on the operation between the hours will be 6:00 hrs to 17:00 hrs, Sunday to Sunday. Personal Protective Equipment (PPE) are provided to the workers and it includes gloves, respirators/masks, coveralls and long boots. A First Aid Kit is located in in the farm house to treat any minor cut(s) or bruise(s) and a vehicle system is on standby to transport any injured person to the nearest Hospital. Fire extinguishers are placed at strategic points of the operation. Furthermore, footbaths are located at the entrance way of each pen on site.

Water for the operation is sourced from a nearby creek and solar power is used to provide basic electricity to power lights and charge phones. A generator is also used on site to power the water pump located on site, which is used to pump water to the water storage tanks. The water pumped to the farm are stored in a total of twenty-six (26) 45-gallon tanks and this water will be used for domestic purposes and for animal use. Furthermore, approximately 25 gallons of fuel will be stored on site in five-gallon jugs for generator use.

Construction

It should be noted that the facility is an existing one and there is no other construction expected to be conducted, as there are livestock pens and other infrastructure located on site. The current infrastructure on site includes:

- Five (5) poultry pens with dimensions of 400 ft x 30ft.
- Three (3) swine pens with the dimensions of 220 ft x 36 ft
- One (1) cow pen with the dimensions of 26 ft x 40 ft
- One (1) sheep pen with the dimensions of
- One (1) farm house
- One (1) pump house
- One (1) storage shed

Operation

It should be noted that the facility on rears livestock on site and **no processing occurs**. The **operation process** of the facility is as follows:

Poultry Rearing

1. The facility receives hatchlings from Bounty Farms Limited and are placed into the pens.
2. These birds are reared in batches on a six (6) week cycle on an all-in-all-out system.
3. After six (6) weeks and the birds are removed, the litter from the pens are removed from the pens by dry scraping and stored in a designated area.
4. After the pens are dry scraped, they are disinfected and allowed to rest before another batch of birds are brought in.

At any given time, there are approximately 60,000 birds on site.

Swine Rearing

The facility rears and breeds swine on site. The boars and sows are kept in separate pens, while the weaned piglets are kept in another pen. These pigs are reared on site and sold to slaughterhouses upon maturity. Unproductive sows are also sold off for slaughter. At any given time, there are approximately **1000 pigs** on site, which includes sows, boars and piglets.

Sheep Rearing

The facility rears and breeds sheep on site. At any given time, there are approximately **90 sheep** on site, which includes ewes, rams and lambs. These animals are reared until maturity and sold off for slaughter.

Cow Rearing

The facility rears and breeds cows on site. At any given time, there are approximately **5-10 cows** on site, which includes bulls, cows, and calves. These animals are reared until maturity and sold off for slaughter.

Potential Environmental Impacts and Mitigation Measures

Potential Environmental Impacts	Proposed Mitigation Measures
<p>Odour Nuisance: Odour nuisance from the operation could be emitted from the improper management of wastes and the improper cleaning of the facility.</p>	<p>To mitigate this impact:</p> <ol style="list-style-type: none"> 1. The swine, cow and sheep pens will be cleaned twice daily to prevent the accumulation of wastes. 2. Odour emissions from the poultry pens will be dealt with via the: <ul style="list-style-type: none"> • Topping up of litter when its wet. • Turning of wet litter to prevent caking • Removal of wet litter from the pens. <p>Additionally, wastes will be properly managed as outlined in the waste management section below.</p>
<p>Water Pollution: Water pollution from the facility could occur due to the release of untreated effluent into the water ways.</p>	<p>Since there is no processing occurring on site, the effluent being released would only occur from the washdown of the swine pens. To mitigate this impact, all effluent is washed into a soakaway pit.</p>
<p>Noise Nuisance: Noise nuisance from the facility could occur from the operation of a water pump and a generator on site.</p>	<p>This is impact would be minimal as the generator powers the water pump and it does not run consistently throughout the day. However, the water pump and generator are located within enclosed area to reduce noise emissions into the environment.</p>

Waste Management

Solid waste management: Solid waste from employees such as food boxes, bottles etc., will be collected in garbage receptacles on site and disposed of by burial in a waste pit located on site.

Organic Waste: Organic waste from the operation including dead animals, litter from pens and faeces will be managed in various ways such as:

- Litter from poultry pens will be scraped up and distributed to cash crop farmers in the area for use as fertiliser.
- Faeces from the cow and sheep pen are also collected and distributed as fertilizer. Faeces from the swine rearing area is dealt with as outlined in the Effluent section below.
- Dead poultry are removed from pens daily and reused as food for the swine.
- Larger dead animals (swine, cows, sheep) are disposed of via burial.

Municipal Waste: Municipal waste from the facility is discharged into the septic tank. The septic tank is accessible for cleaning and will be emptied when full by a solid waste disposal service.

Effluent: The effluent released from the swine pens is managed via washdown into a soakaway pit. The effluent from the soakaway pit is expected to be used to irrigate a crop area allocated for eddoe cultivation.