

Name of Project: Park Square Fun City & Mahaicony Service Station

Name of Developer: Roy Hercules

Project Address: Block 'H', Park Mahaicony, East Coast Demerara

Date Prepared: January 15, 2024

Prepared by: Roy Hercules

NON-TECHNICAL SUMMARY OF PROJECT

Mr. Roy Hercules will be constructing a fuel storage facility at Block 'H', Park Macaicony, East Coast Demerara. The main purpose of the facility will be to store fuel which will be transported to Mahaicony Service Stations that are owned by Mr. Hercules. These service stations provide quality services to the residents of the community as well as persons who traverse the area and refuel their vehicles. Therefore, by having a fuel storage facility, fuel will always be available to supply the service stations as needed.

The fuel storage facility will be constructed on land that is 200 m * 100m. The land was used as a parking area for vehicles belonging to the developer, however, it has been cleared and sand-filled.

There will be a total of six (6) above-ground double-wall tanks used to store fuel. Four (4) 18,000-gallon tanks will be used to store diesel while two (2) 10,000-gallon tanks will be used to store kerosene.

Guyana Water Inc. will supply the facility with water while Guyana Power and Light Inc. will provide electricity. However, there will be a generator at the location which will be used should there be a power outage.



Image 1: White marker showing the project location and surrounding area.

Construction Phase

There will be thirteen (13) persons employed for the construction phase of the project. During this phase, the following are expected to be completed:

- Main building with office
- Restroom facilities
- Drainage system
- Oil/water separators
- Concrete flooring in specific areas
- Room for firefighting equipment
- A shallow well
- Bund wall

Operation Phase

During the operational phase, the facility will be open from 6:00 am to 6:00 pm on Monday to Saturday. The developer will employ five (5) persons to work during these hours and will provide training as needed. The employees will be tasked with ensuring that the fuel is transported to and from the facility safely and no spillage occurs.

Guyana Water Inc. will provide water while Guyana Power and Light Inc. will provide electricity. A generator with a silencer and muffler will be placed in the generator room that will be used in the event of a power outage.

Domestic waste generated will be stored in garbage receptacles placed around the facility and collected by the local Neighbourhood Democratic Council once a week. A septic system will be constructed for the employees. The oil/water separator will have an easily removable cover so that it can be inspected and cleaned when needed.

Potential Environmental Impacts and Mitigation Measures

Potential Environmental Impacts	Mitigation Measures
Solid Waste	
<p>It is expected that the majority of solid waste produced at this phase will be a result of construction waste material mainly cement bags and pieces of lumber. Domestic waste will also be produced which would include food boxes, food scraps plastic cups and bottles.</p>	<p>The developer will place garbage receptacles around the construction area mainly to collect domestic waste. These will be collected and disposed of by the Mahaicony Neighbourhood Democratic Council. Private collection services will also be hired to provide skid bins to collect concrete materials and scraps of wood.</p>
Air Pollution	
<p>Minimal air pollution is likely to occur from construction activities being carried out.</p>	<p>The construction site will be soaked as necessary. Construction workers will be provided with dust masks and protective eyewear.</p>
Noise Nuisance	
<p>Noise will be generated from the use of machinery and equipment.</p>	<p>The developer will ensure that not all of the electrical equipment is used simultaneously. Construction activities will not be done between 6:00 pm to 6:00 am.</p>
Water Pollution	
<p>Given that the facility will be storing fuel, water contamination can occur from the accidental spillage of fuel.</p>	<p>The developer will ensure that fuel tanks and other equipment are inspected regularly. A spill kit will also be available and the drainage system will lead to the oil-water separator.</p>

HEALTH AND SAFETY MEASURES

The following health and safety measures will be implemented:

- Workers will be provided with training in the proper use and maintenance of equipment and machinery where necessary.
- The appropriate Personal Protective equipment will be worn at all times.
- Ensure there is no unwanted or deleterious discharge into the surrounding environment.
- Create an equipment maintenance schedule.
- Implement a strict no-dumping policy.
- Ensure the facility has adequate firefighting equipment such as fire hoses, extinguishers and sand buckets.
- A first aid kit will always be present and easily accessible.
- Establish a muster point and identify emergency procedures.
- Ensure there is a spill kit present.