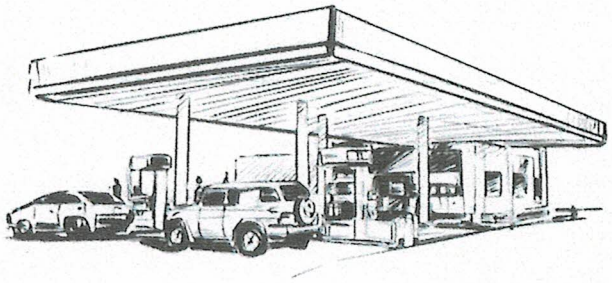
Project Summary

Sanjay Lalbachan
Lot 12, Grant 1778,
Crabwood Creek,
Corentyne,
Berbice



Project Name: Sanjay and Susan Service Station
Project Type: Gas Station
Address: Lot 36-37, N0. 70 Village, Corentyne, Berbice.
Contact Number: 592-645-1501

Prepared by: Sanjay Kumar Lalbachan

Date: 2023-12-18

Overview

This Project Summary describes the operation of Sanjay and Susan Service Station which is strategically located at Lot 36-37, N0. 70 Village, Corentyne, Berbice. The structure of the service station is existing and was previously owned and operated by Mr. Mishwarie Neil. Subsequently, Mr. Lalbachan purchased the property including the gas station. Renovation of the property is currently ongoing on the main building which will have residential dwellings on the upper flat and commercial activities on the ground floor. In addition to the gas station, the premises will have a supermarket, restaurant for dining. Lubricants and cooking gas will also be retailed on site.

The entire property including the service station is about 1,107 square meters and the service station will be operated with a space of about 330 square meters. The station will be easily accessible from the main public road on the Corentyne, to the eastern side of the station. The surrounding areas are moderately populated comprising commercial, residential and religious properties. The space around the station has a few residential housing, a muslim mosque and unoccupied lands as closest neighbors.

Major watercourse or drainage systems are not found close to the station. An interlot (a subsurface drain) is located immediately in front of the gas station. Two canals located at either ends of the village are 60m away from the station to the north and 70m away to the south. An internal drainage canal is located 200m towards the west. In addition, the largest and major water course, the Corentyne River is located to the east about 500 m away.

The entire property has ongoing construction, including the service station. The tanks, dispenser and pipelines from all fuel tanks are being checked and replaced to ensure that they are in good condition for operation and will be guided by the directions of the EPA and the Guyana Fire Service.

Figure 1. The project and surrounding areas [Google Earth Pro].

Renovation Activities (Construction) and possible Environmental impacts:

Minor construction works are to be completed on the station and main building. The remaining construction related activities for the service station includes the installation of fuel tanks, fuel dispensers, pipelines and electrical circuits and controls. The number of employees on site during this phase will vary depending on the pace and progress of the works to be completed and availability of materials. The station's construction will be completed within 2-3 months of approvals, while renovation to the main building,apart from the service station, will be ongoing in phases towards desired completion.

A solid reinforced concrete containment bund was constructed to house the two underground fuel tanks, that will store each store 12, 300 liters of gasoline and and diesel. The tanks will be tested to ensure welding integrity and checks for leaks. The tanks will also be coated with anticorrosive coating using rust oleum 9100, before installed in containment. All pipeline and connection will also be coated in a similar manner during installation.

The containment will have a steel cover with manholes to gain access for inspections and refueling of the tanks. In addition, a shed will be constructed to provide shade to the entire opening to serve as an added weather protection, particularly rain water.

Probable Impacts	**Sources**	**Mitigation Action Plan**
Solid and Construction Waste in small quantities.	• Form boards, wood ends and structural supports. • Cement bags • Food containers and bottles used by employees	Form boards or scraps will be given to residents for firewood use or animal pen construction. Wood scraps, cement bags and bottles and food containers will be disposed of using the local NDC approved site or as guided by the EPA.
Noise	• Operation of power tools • Mixing of concrete - ransom. • Background traffic	Noise will be limited to daylight hours and stipulation by the EPA.
Dust	• Cutting of wood materials • Stockpile materials. • Mixing of concrete using sand, store and cement.	Wood cutting will be minor and will be done in the enclosed area of the main building. Wetting of material used while mixing concrete will be practiced and covering materials when not in use. Materials will be purchased as needed to avoid unnecessary stockpiling.

Figure 2. Picture of the service station's canopy and tanks for underground storage

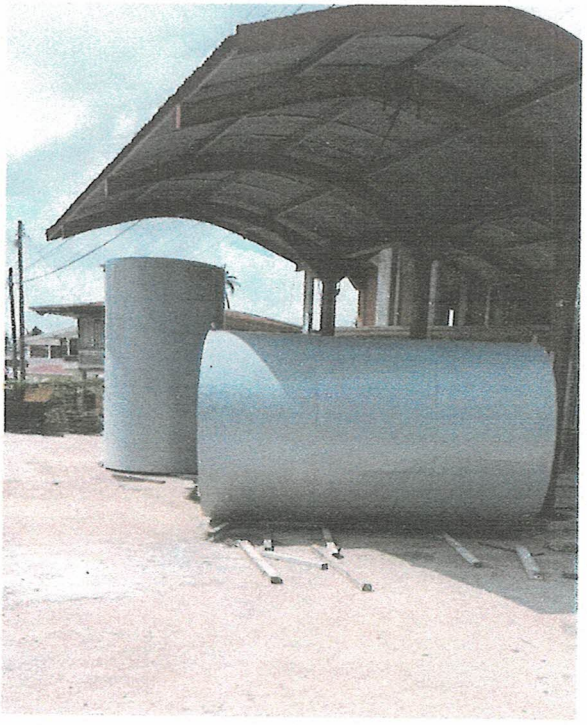


Figure 3. Picture of Storage Tanks (to be installed)

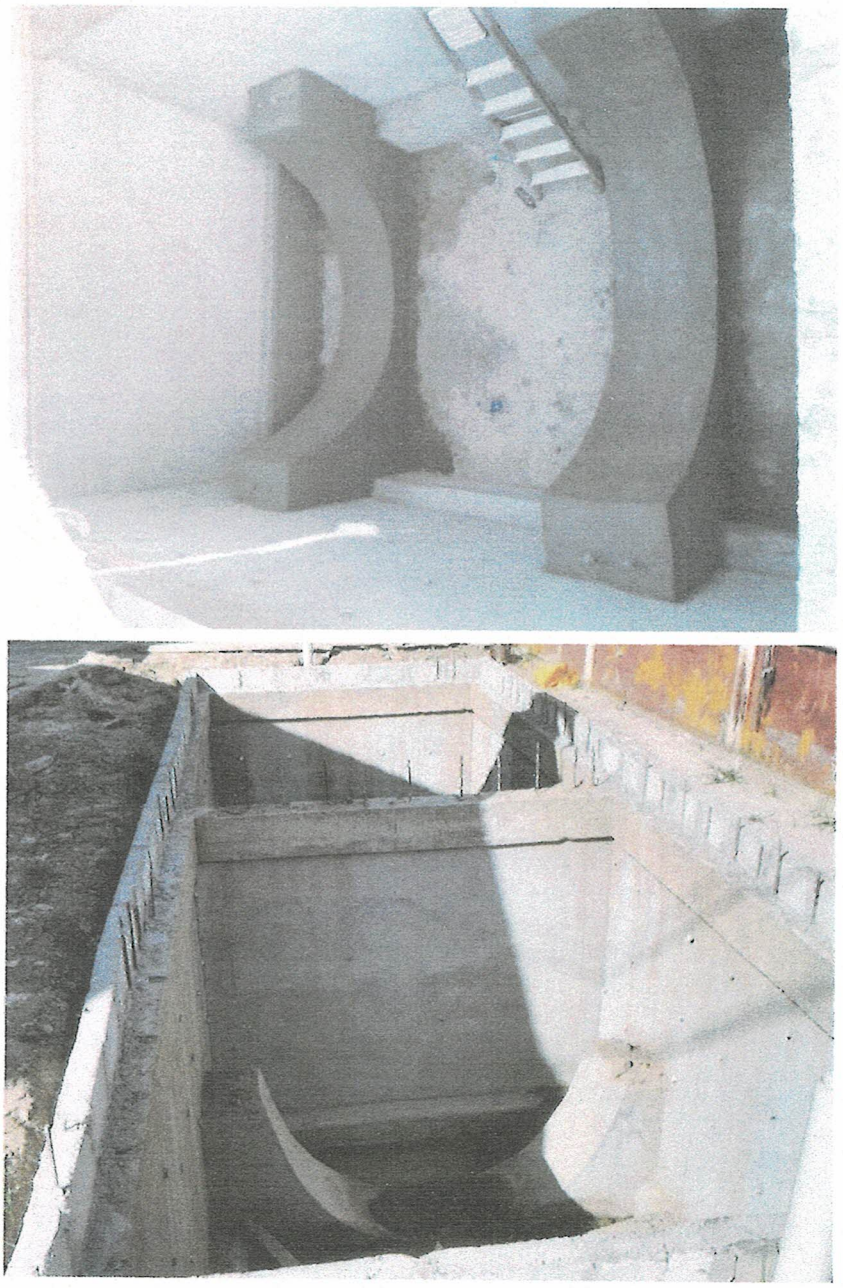


Figure 4. Pictures of reinforced concrete containment (completed)

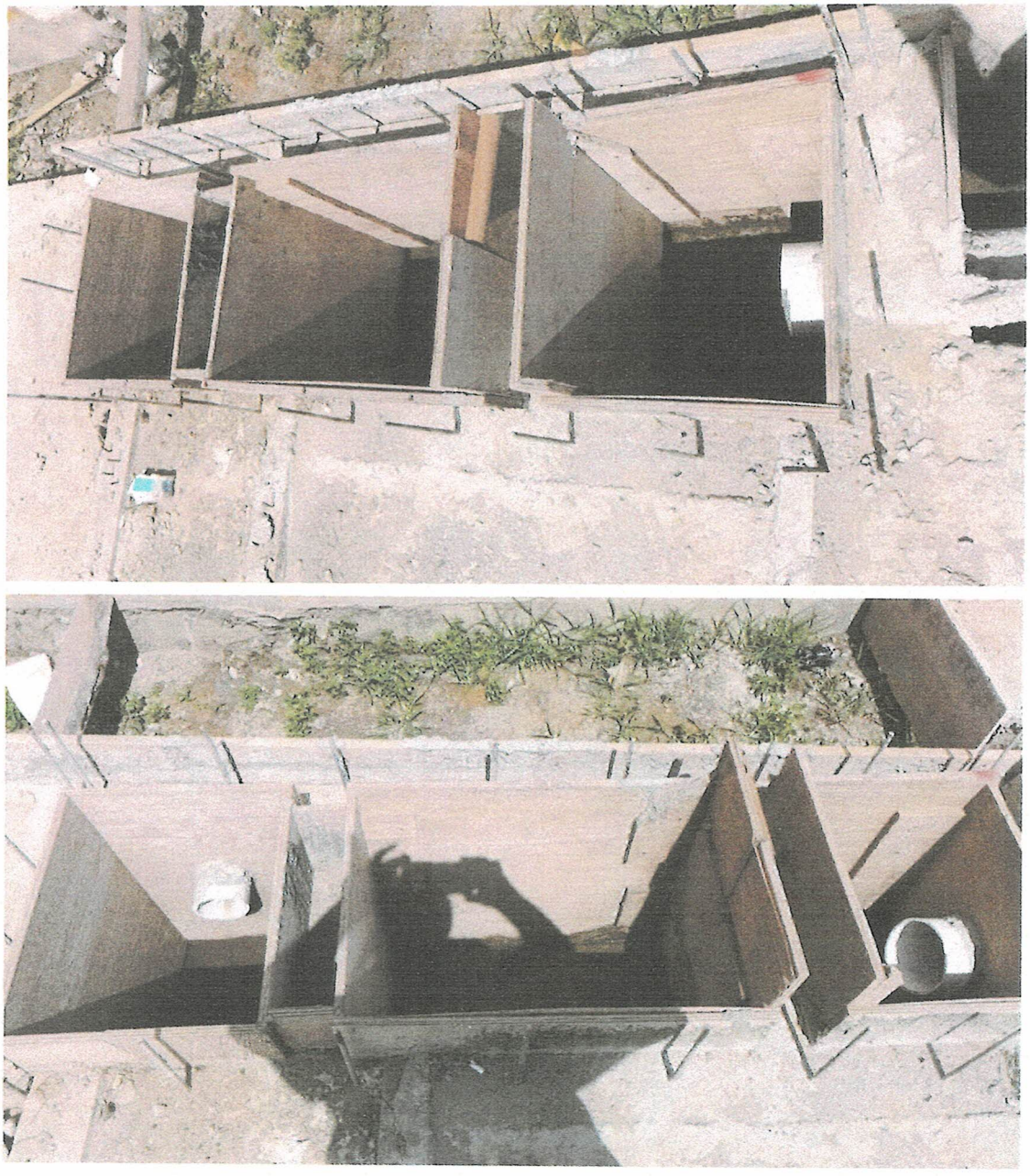


Figure 5. Pictures of oil water separator at the service station (construction to be completed)

Operation of Service Station and possible Environmental impacts:

The service station will be operated on a 24-hour basis and will be supplied with fuel from the Guyana Oil Company (GuyOil). The main activities at the station will include the fuel storage and dispensing on a retail bais to customers within the upper Corentyne area and those traveling along the route. A total capacity of 28,700 liters of fuel will be handled at the service station and shall include gasoline (12,300L), diesel (12,300L) and kerosene (4,100L) fuel will be sold at the service station. Three dispensing units (fuel pumps) will be installed at the location. In addition, lubricants, batteries and small spare parts will be sold at the station.

The expected life of the project remains uncertain currently. The service station is considered small and will be operated by five (5) employees. The estimated capital investment of the station is $40,000,000 Guyana Dollars and expected annual turn over $25, 000, 000 annually.

Probable Impacts	**Sources**	**Corrective Plan or Disposal**
Spills & Leaks	• While filling and refilling the fuel tanks • While operating the dispensing units • Leaking fuel tank	Drip pans or buckets (5-gallon) will be used to collect spills of fuel during the filling and refilling the fuel tanks. A spill kit at the location will be used to clean and contain minor spills. All tanks will be placed within reinforced concrete containment with cover and shed, to contain spills from the fuel tanks. Also, guidance from the EPA will be followed to ensure safety measures are in place.
Hazardous Waste	Spill, oily materials used for cleaning spills and waste from oil water separator recommended by the EPA. Oil changes from generator after servicing (purchase time not determined).	All liquid oily waste collected will be disposed of by the guidance received from the EPA, the Guyana Energy Agency and the Guyana Fire Service. Waste oil will be given to machine operators and farmers who use the oil to maintain farming machines.
Solid Waste	Cardboard boxes, wrappers from packaging. Food containers used by employees and customers to the gas station.	Waste bin will be placed on site to collect all solid waste based on quantities. Waste shall be disposed of using the services of the local NDC. If required a private service provider will be used during NDC downtime or non-pick-up days. The EPA instructions on how waste is to be disposed shall be followed.
Oily discharge to water	Runoff of rainwater around the service station. Customers with leaky	All discharges from the station will not be discharged to drains. Collecting drains around dispensers will carry any oily water which will

	vehicles visiting the station Spills from containment	flow to the oil water separator constructed at the station. Minor spill will be cleaned using rags or materials in a spill kit to be purchased. The dispensers will be covered under the canopy area to avoid contact with rain water.
Escape of fumes in air	Fume may be present when refilling tanks and dispensing fuel or spill or leaks of fuel occurs..	The smell of fumes may occur over short periods. Measures to prevent excessive escape of fumes will be followed as required by the EPA, Guyana Energy Agency and the Guyana Fire Service.
Discharge to land	Store fuel and run-offs	Fuel will be stored in fuel tanks that were tested and will be kept within a reinforced concrete containment to prevent escape to any soil or land area.
Fire & Explosions	Ignition of fuel	Signs will be installed around the station as required by the EPA, Guyana Energy Agency and the Guyana Fire Service. These will include indication of fuel types, "no smoking" signs, turning off of mobile devices. Fire extinguishers and fire buckets will be in place as directed by the Guyana Fire Service.

Utilities -

The Service Station will be supplied with electricity from the Guyana Power and Light. A power generator will be purchased sometime in the future after completing the construction of the service station. Treated water supplied to the property will be provided by the Guyana Water Incorporated.