

Name of Project: Two Brothers Service Station

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Prepared by:

Two Brothers Service Station

1. Project Site Description

Location: Lot '13-17 Parika Outfall, East Bank Essequibo – GPS Coordinates (6*51'23.7" N, 58*25'55.7" W) or 6.856573, -58.432142 written as decimal.

- Area: Approximately 0.64 acres on the Essequibo River
- Adjacent Land Use:
 - East: Bulk Storage Facility (165 meters)
 - North: Boat salvage yard (approximately 225m)
 - West: Open waters of the Essequibo River
 - South: Boat landing/jetty

Map: A map showing the location of the service station, main drainage canal, business, and housing developments is included as below



Figure 1.1 Map Showing Location of Service Station,

2. Project Design

This project/ development is in its operational phase. It encompasses the operation of a conventional marine service station, providing services of fuel refills to marine vessels.

Project Stage: Operational phase

- Description: The operation of a conventional marine service station, providing fuel refills to marine vessels.
- Utility Services: Water Supply: Guyana Water Incorporated (GWI) & Private well on property

- Electricity Supply: Guyana Power and Light (GPL) with a 20kv generator for backup power
- Communication Services: Guyana Telephone and Telegraph Company (GT&T)
- Waste Management:

Solid waste is collected weekly by the local authority.

No waste treatment is done on-site prior to removal.

3. **Project Economy**

- **Capital Investment:** \$50 million
- **Facilities:** Marine Fuel Pump Station
- **Production Rate:** Approximately 2,000 gallons of fuel sold daily (including kerosene, gasoline)
- **Operating Hours:** Fuel is sold for 8 hours daily.
- **Employment:** 3 daily employees, 1 night security personnel

4. **Potential Environmental Effects**

- There is expected to be minimal effect to the environment from this project during its operational phase.
- Potential effects include:
 - Oil spills, which could harm marine life, pollute waterways, and contaminate groundwater.
 - Noise pollution from refueling marine vessels.

5. **Proposed Plans to Mitigate Environmental Impacts**

- Secondary containment (trays) under fuel dispensers.
- Regular inspections of fuel lines, hoses, and tanks for leaks or corrosion.
- Staff training in proper fueling procedures to avoid overfills and accidental spills.
- Use automatic shut-off valves and emergency fuel cutoffs.
- An Emergency Response Plan (ERP) is in place to mitigate these potential environmental impacts from this site an the bulk storage facility located adjacent to this site.

6. **Summary of Proposed Oil Spill Management**

Ensure a swift, organized response to oil spills, minimizing environmental impact, safeguarding human health, and ensuring proper cleanup efforts. This applies to all oil spill incidents at the Two

Brothers Service Station, including spills during fuel transfer, storage, and handling. Covers spills affecting the Essequibo River and surrounding land.

Regulatory Framework

Developed under Guyana's Environmental Protection Act, Cap. 20:05, and other applicable regulations.

Responsibilities

- **Incident Co-Ordinator (IC):** Manages response, coordinates efforts, and liaises with regulatory agencies.
- **Spill Response Team:** Deploys booms, skimmers, and cleanup equipment.
- **Safety Officer:** Ensures responder safety and mitigates risks.
- **Environmental Officer:** Assesses impact, monitors cleanup effectiveness, and advises on remediation.

External Agencies Involved

- **Environmental Protection Agency (EPA):** Oversees compliance and response efforts.
- **Guyana Fire Service:** Provides fire suppression if needed.
- **Maritime Administration Department (MARAD):** Ensures navigation safety.
- **Guyana Police Force:** Provides security and crowd control.
- **Local Authorities:** Assist with waste management and local support.

Prevention & Control Measures

Includes routine inspections, secondary containment systems, personnel training, and proper fuel transfer protocols. Essential spill response equipment is maintained onsite.

Detection & Notification

Spills must be reported immediately to the IC and relevant agencies, detailing location, time, estimated volume, and type of oil.

Emergency Response Procedures

- **Initial Response:** Assess situation, activate ERP, contain spill, and stop the source.
- **Cleanup & Remediation:** Deploy skimmers, and shoreline cleanup methods. Manage waste and conduct environmental monitoring.
- **Post-Spill Activities:** Assess damage, complete cleanup, and revise ERP based on lessons learned.

Resources & Equipment

Includes skimmers, absorbents, storage containers, PPE, and communication tools.

Training & Drills

Regular training and drills ensure personnel readiness, with documentation for compliance.

Plan Review & Updates

The project environmental and spill response plans undergo periodic review to enhance effectiveness and adapt to regulatory changes.

