



## Environmental Protection Agency

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### Environmental Permit (Varied and Modified)

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

Reference No.:	20180222-PBTDS
Fee:	US\$ 11,400 (October, 2018-September, 2023)
Varied Fee:	Medium US\$125 (February, 2022-September, 2023)
Addressee:	Mr. Kaleshwar Surindranauth Puran General Manager Puran Bros. Disposal Inc. 7, Bella Street Klien Pouderoyen West Bank Demerara
Activity:	Collection and Transportation of Non-hazardous Solid Waste; Medical Waste; Mobile Tyre Shredding; Mobile Styrofoam Destruction and Asbestos Removal, Transportation and Disposal across Regions 3, 4 and 5.  Collection and Transportation of Drilling Fluids Waste within Guyana Shore Base (GYSBI) and Schlumberger Inc. Operation.



Puran Bros Disposal Inc. hereinafter referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, for the Collection and Transportation of Non-hazardous Solid Waste, Asbestos Waste, Medical Waste, Tyre Shredding and Styrofoam Destruction across Regions 3, 4 and 5; the Collection and Transportation of Drilling Fluids Waste within Guyana Shore Base (GYSBI) and Schlumberger Inc. Operation located at Plantation A, Houston, Georgetown hereinafter referred to as the "Project", in a manner indicated in the Application for Environmental Authorisation and Applications submitted for Variance of Environmental Authorisation submitted on February 22, 2018, March 8, 2019 and October 27, 2021 respectively and subject to the terms and conditions set forth herein under the Environmental Protection Act, existing and/or forthcoming regulations made under the said Act, and/or any

applicable laws, best practices, guidelines or standards relevant to this project.

This is a Variance and Modification of Operation Permit, Reference No. 20180222-PBTDS issued in April, 2019 and expires September, 2023.

The Permit Holder, His Servants, Agents and/or Sub-Contractors shall comply with the following Terms and Conditions for Operation:

**1.0 OPERATION**

- 1.1 Make an application to the Agency to vary this Permit (Varied and Modified) in instances where it becomes necessary to:
- i. change the construction, operation, structure, or layout of the facility and all associated buildings;
  - ii. change equipment, machine, apparatus, mechanism, system or technology serving the facility;
  - iii. change the position and design of any outlet at the point or points of discharge of effluents; or
  - iv. effect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.

- 1.2 Adhere to the requirements **of the Occupational Safety and Health Act, Cap. 99:01, Laws of Guyana.**

- 1.3 Vehicles dedicated for transportation of hazardous wastes shall not be used for any other purpose.

- 1.4 Affix labels to vehicles transporting asbestos and medical waste, labels may include the following information:

**Danger  
Transporting Hazardous Wastes**

- 1.5 Establish and maintain a spill incident report to document **ALL** occurrences of incidents during collection and/or transportation of waste. A copy of the incident report shall be made available to the EPA upon request.

- 1.6 Waste shall not be transported in inadequately secured packaging materials to minimise the risk of spills.

- 1.7 All employees involved in the collection and transportation of hazardous waste shall be trained on **Hazardous Waste Communication and Emergency Preparedness Response**. Training report shall be maintained and made available to the EPA upon request.

- 1.8 Transportation of multiple waste categories/types at any point in time is **strictly prohibited.**

1.9 Waste collection vehicles shall be inspected regularly for signs of damage. Damaged parts **shall be** repaired/replaced **prior to waste collection and transportation**. Inspection reports shall be maintained and made available to the EPA upon request.

2.0 **NON-HAZARDOUS SOLID WASTE COLLECTION AND TRANSPORTATION**

2.1 Adhere to the requirements of the **Environmental Protection (Litter Enforcement) Regulations 2013, Laws of Guyana**.

2.2 Non-hazardous solid wastes collected shall be disposed of at a site identified and approved by the Local Government Authority.

2.3 The waste collection vehicles shall be equipped with the following:

2.3.1 A metal tailgate to cover the hopper and compactor which shall be powered by a hydraulic or electric system.

2.3.2 A sump or drip pan made of anti-corrosive materials to collect leachate discharged from the compactor and hopper.

2.4 The Best Available Practices shall be implemented for the handling, storing and disposing of non-hazardous solid waste.

2.5 Highly visible and legible labels shall be affixed to the Waste Collection Vehicles and shall include the following information:

- i. Identity and contact information of the Project
- ii. The words **“Solid Waste Disposal Service”**

3.0 **ASBESTOS REMOVAL, TRANSPORTATION AND DISPOSAL**

3.1 Adhere to the requirements of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.

3.2 All Employees involved in the removal, transportation, and disposal of asbestos **shall be** qualified/certified to handle the removal and disposal of asbestos contaminated material.

3.3 Security signs and notices shall be established around the asbestos removal site and the temporary asbestos storage site. Notices shall be placed at strategic points to reflect the following:

**DANGER**  
**Asbestos**  
**Cancer and Lung Disease Hazard**  
**Authorized Personnel Only**

### ***Use Respirators and Protective Clothing when working in this area***

- 3.4 All human activities in and around asbestos contaminated area shall be restricted. "No entry" signs shall be prominently displayed outside the entrances and exits to the project. An outer barrier shall also be erected around the premises to prevent unauthorized entry and exit.
- 3.5 All materials, equipment, etc., within the toxic area shall be covered with impermeable material or plastic sheeting secured by duct tape or any other suitable material to prevent contamination.
- 3.6 The cradle to grave approach shall be employed (whereby the Permit Holder is primarily responsible for the proper management of the hazardous waste on site from removal to disposal). Asbestos removal, transportation and burial shall be done in accordance with procedures indicated and outlined in sections 4.0 to 6.0 below.
- 4.0 **ASBESTOS REMOVAL**
- 4.1 All employees involved in the removal of the asbestos waste shall be equipped with disposable coveralls and either an N-100 or P-100 respirator or a HEPA- particle mask suitable for asbestos work.
- 4.2 Methods of **dry** sweeping or shoveling of dust and debris containing asbestos is **strictly prohibited**.
- 4.3 Wet dust-suppression methods shall be employed, before and during removal of the asbestos, in order to minimize the probability of fibres breaking, and entering the atmosphere.
- 4.4 The entire surface of the asbestos waste shall be saturated with the wetting agent and runoff shall be minimal. The asbestos waste shall remain wet throughout the entire removal process.
- 4.5 Power tools shall not be used to cut or remove the asbestos, except when removing screws or fastenings.
- 4.6 Contaminated coveralls and particle masks shall be disposed along with the asbestos waste.
- 4.7 Asbestos waste shall be double-wrapped in a minimum of 0.2 mm thick, durable construction plastic material following its removal, so as to ensure security and prevent any dispersion of the material into the surrounding environment.
- 5.0 **ASBESTOS TRANSPORTATION**
- 5.1 Off-site transportation of asbestos shall be conducted within twenty-four (24) hours of the removal of the asbestos so as to prevent releases, and exposures to employees



and the public.

- 5.2 Asbestos waste designated for off-site shipment shall be loaded, enclosed and secured on the transport vehicles prior to leaving the site.
- 5.3 All bags/containers containing asbestos shall be labelled and may include the following information:

**Danger**  
**Contains Asbestos**  
**Cancer and Lung Disease Hazard**

**6.0 ASBESTOS DISPOSAL**

- 6.1 Asbestos wastes shall be disposed at a Disposal Site designated and approved by the Local Authority or the Ministry of Local Government and Regional Development (MLGRD).
- 6.2 The Permit Holder shall monitor the disposal of asbestos wastes to ensure burial is conducted in an environmentally sound manner. In no instance should asbestos be removed off-site, or given to residents or any person for reuse.
- 6.3 The Permit Holder shall ensure during its monitoring as per Condition 6.2 above, that the following minimum environmental standards are implemented:

6.3.1 A separate cell away from other waste shall be prepared for the burial of the asbestos waste at the approved Disposal Site.

6.3.2 Once deposited, waste shall be covered immediately at a depth of at least 250 mm. By the end of the working day at least one metre of cover should be placed on all flanks and surfaces. The objective of cover in these cells is to ensure that no asbestos or waste containing asbestos is left exposed. This should prevent the aerial dispersion of asbestos fibres from the zone of deposit.

6.3.3 The final top cover shall be placed on the landfill/cell in order to avoid dispersion of fibres. This shall consist of at least two metres of suitable material. Suitable material shall be used for all covering purposes. This shall be incombustible, granular material, free from any objects capable of disrupting the waste or any packaging.

6.3.4 **The Permit Holder shall submit signed (by the Disposal Site personnel) copies of the Waste Delivery Note to the EPA, within one (1) week of disposal of the asbestos waste.**

6.4 The Permit Holder shall immediately notify the Agency of any contravention or deviation from the standards prescribed by Condition 6.2.

## **7.0 MEDICAL WASTE COLLECTION AND TRANSPORTATION**

- 7.1 All waste mixed or contaminated with medical waste shall be treated as bio-hazardous waste.
- 7.2 Occupational Safety, Health and Environmental Management Training Schedule for staff involved in the collection, transportation and handling of bio-hazardous waste shall be established and made available to the EPA upon request.
- 7.3 Medical wastes shall be segregated according to category, at the point of generation prior to collection and transportation.
- 7.4 Medical wastes shall be properly labelled and colour coded and clearly visible. Labelling may include words such as “Infectious Substances”, “Bio Hazardous Waste” and “Bio Hazard” where applicable.
- 7.5 The permit holder shall not accept medical hazardous waste unless accompanied by a manifest document in accordance with **Environmental Protection (Hazardous Wastes Management) Regulations, 2000**. Manifest shall be signed and dated, and a copy returned to the generator.
- 7.6 Medical waste transport equipment shall be cleaned and disinfected daily with appropriate disinfectant.
- 7.7 The project shall implement an offsite tracking system consisting of a consignment note outlining the following details:
- i. Waste Class;
  - ii. Waste Source;
  - iii. Pick-up Date;
  - iv. Destination;
  - v. Driver's Name;
  - vi. Number of containers or volume of load;
  - vii. Receipt of load from responsible person at pick-up destination.

## **8.0 STYROFOAM DESTRUCTION, TRANSPORT AND DISPOSAL**

- 8.1 Adhere to the requirements of the **Environmental Protection (Expanded Polystyrene Ban) Regulations, 2015, Laws of Guyana**.
- 8.2 Destruction of Styrofoam shall be done by **shredding only** in an enclosed facility and disposed of at Haags Bosch Sanitary Landfill.
- 8.3 Shredded materials shall be secured in polyethylene bags and the bag opening shall be secured, so as to prevent any loss of the material to the surrounding environment

**8.4 Open burning of Styrofoam is strictly prohibited.**

8.5 The EPA and personnel from the Haags Bosh Sanitary Landfill shall be present during the disposal process. At no instance should Styrofoam be removed off-site, or given to residents or any person for reuse.

8.6 Styrofoam wastes shall be disposed at a Disposal Site designated and approved by the Local Authority or the Ministry of Local Government and Regional Development (MLGRD).

8.7 The Permit Holder shall monitor the disposal of Styrofoam wastes to ensure burial is conducted in an environmentally sound manner. In no instance should Styrofoam be removed off-site, or given to residents or any person for reuse.

8.8 The Permit Holder shall ensure during its monitoring as per Condition 8.7 above, that the following minimum environmental standards are implemented:

8.8.1 Once deposited, waste shall be covered immediately at a depth of at least 250 mm. By the end of the working day at least one metre of cover should be placed on all flanks and surfaces. The objective of cover in these cells is to ensure that no Styrofoam waste is left exposed. This should prevent the aerial dispersion of Styrofoam waste from the zone of deposit.

**9.0 TYRE SHREDDING, TRANSPORTATION AND DISPOSAL**

9.1 Open burning of tyres in the environment is strictly prohibited.

9.2 Shredding of tyres shall not be conducted in close proximity to any water course, drains or canals.

9.3 Flammable or combustible liquids, hazardous wastes or other ignitable materials shall not be stored close to tyre stockpiles

9.4 The project shall maintain records of the numbers of tyres received, shredded and removed. The records shall be maintained and made available to the EPA upon request.

9.5 Conduct maintenance inspections of mechanical tyre shredder and ensure machinery is in good working condition for use by staff of the operation.

**10.0 DRILLING FLUIDS WASTE COLLECTION AND TRANSPORTATION**

10.1 Drilling fluids shall be collected and transported in accordance with the Transportation Plan submitted to the EPA on **December 17, 2021**.

- 10.2 Emergency spill clean-up kits shall be maintained on waste transport vehicles for response to spills. Kits shall contain absorbent materials, drain seals and other appropriate tools for clean-up, and shall be readily available and clearly identified.
- 10.3 Waste being transported shall not exceed the maximum carrying capacity of the transport vehicles.
- 10.4 All collection and transfer operations shall be conducted on an impervious surface.
- 10.5 Post operational waste generated from the washing down, wiping etc. of transported trucks shall be collected and treated by a Hazardous Waste Facility authorized by the EPA.
- 10.6 The best available methods/techniques shall be utilized by the project during collection and release of waste to prevent spills or accidental release of drilling fluids.
- 10.7 All liquid waste spills during collection and transportation shall **immediately** be cleaned and disposed at an EPA authorized Hazardous Waste Facility.

#### **11.0 COMPLIANCE MONITORING AND REPORTING**

- 11.1 Notify the Environmental Protection Agency within **one (1) hour** of the occurrence of any environmental emergencies (e.g., oil spills, biohazardous materials/wastes spill, sudden onset disaster, natural, technological or human-induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood).
- 11.2 Monitor the implementation of the conditions of this Permit (Varied and Modified), insofar as they involve adherence by your employees and all third parties under your direction.
- 11.3 Notify the Agency in writing of any change of name or ownership of the Permit Holder's facility within **thirty (30) days** after the change occurs.
- 11.4 Notify the Agency **within twenty-one (21) days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 11.5 Maintain and submit to the Agency records of the type, composition and quantity of contaminant released (i.e., any solid, liquid, gas, odour, sound, vibration, radiation, heat or combination of any of them).
- 11.6 Submit an **Annual Report** to the EPA on your compliance with this Permit (Varied and Modified) on or before **March 31, each year**.



11.7 Report to the Agency any non-compliance(s) with the Environmental Permit (Varied & Modified):

- i. Within **twenty-four (24) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance outlining the anticipated manner in which human health or the environment may be impacted.
  - ii. Within **seventy-two (72) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance, submit to the Agency a written report containing a description of the non-compliance, its cause, the period of non-compliance including exact dates and time and the anticipated time it is expected to continue if the non-compliance(s) has not been corrected.
- 11.8 Comply with any lawful directions given by the EPA from time-to-time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.
- 11.9 It is the responsibility of the Permit Holder to ensure the permitted activity and premises are secured and that all practicable steps necessary to prevent fires, explosions, leaks or suspected leaks and spills at the permitted premises are taken.

## **12.0 INSTITUTIONAL AUTHORITY/ LIABILITIES**

- 12.1 The Permit Holder shall be liable for any material environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.2 The Permit Holder shall be liable for any serious environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.3 The Permit Holder shall be liable for any activity that causes or is likely to cause pollution of the environment unless all reasonable and practicable measures are taken to prevent or minimize any resulting adverse effect, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.4 The Permit Holder shall be liable for discharging, causing or permitting the entry into the environment, of any contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Environmental Permit (Varied & Modified), pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.5 The Permit Holder shall be liable to compensate any person who suffers any loss or damage as a result of contravening conditions 12.3 and 15.4 of this Environmental Permit (Varied & Modified), pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

- 12.6 The Permit Holder shall not be indemnified by the Agency for any activity that causes or is likely to cause pollution to the environment, resulting from adverse effects through the discharge, any contaminant in any amount, concentration, ultra-hazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 12.7 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his Servants and/or Agents, to the environment, biodiversity, protected species and natural habitat with respect to any release, discharge, or spill, of contaminant fluids, oil or lubricants.
- 12.8 Should the Permit Holder contravene or be likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an Enforcement Notice in accordance with Section 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.9 Where it appears to the Agency that the Permit Holder is engaged in any activity that may pose a serious threat to natural resources or the environment, or a risk of serious pollution of the environment or any damage to public health, the EPA may issue to the Permit Holder a Prohibition Notice, which may order him to immediately cease the offending activity, in accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 12.10 The EPA reserves the right to conduct regular inspections of the Permit Holder's activities as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05, and the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 12.11 The Permit Holder, His Servants and/or Agents shall at all times, allow entry to the permitted facility to any Officer designated by the EPA for the purposes of conducting inspections or any other legitimate business of the Agency. Pursuant to Section 38 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to assault, obstruct or hinder an authorised person in the execution of his/her duty under the said Act or its Regulations and the Permit Holder shall be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.
- 12.12 The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 12.13 **This Environmental Permit (Varied and Modified) is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.**
- 12.14 This Environmental Permit (Varied and Modified) is effective for the period stipulated herein; **October, 2018 to September, 2023.**


**Environmental Permit (Varied and Modified) Ref. 20180222-PBTDS**  
**(Issued under the Environmental Protection Act, Cap. 20:05, Environmental Protection**  
**(Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations,**  
**2000)**

12.15 This Environmental Permit (Varied and Modified) shall remain valid until **September 30, 2023**, unless otherwise suspended, cancelled, modified or varied, in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.

12.16 This Permit (Varied and Modified) shall be renewed by submitting a completed *Application Form for Renewal of Environmental Authorization* to the Agency at least six months before this Permit expires, that is, no later than **March 31, 2023**.

12.17 Any late submission of renewal application after the specified date as stated above, may require the Permit Holder to pay, in addition to the renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2000.00) per day for every business day late, until such renewal application is submitted to the Agency**, without prejudice to any other rights of the Permit Holder in connection therewith.

12.18 Failure to comply with the requirements of this Permit or with applicable laws and regulations, whether existing or forthcoming, shall render the Permit Holder liable to prosecution and to penalties, inclusive of civil penalties, injunctive relief and imprisonment, as prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection Regulations and other applicable Laws of Guyana.

Signed by  on behalf of the Environmental Protection Agency.



Date 3.22.2022

**Environmental Permit (Varied and Modified) Ref. 20180222-PBTDS**  
**(Issued under the Environmental Protection Act, Cap. 20:05, Environmental Protection**  
**(Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations,**  
**2000)**

I hereby accept the above terms and conditions upon which this Environmental Permit (Varied and Modified) is granted and agree to abide by the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, guidelines, best practices and standards made under this Act.

NAME:	ROVINDRA PEESAYD
DATE:	24/03/2022
SIGNATURE:	<i>R. Peesayd</i>
DESIGNATION:	QHSE COORDINATOR



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