



Environmental Protection Agency

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Operation Permit (Renewed)

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.:	20101015-WDSMO
Fee:	Small (C1) – US\$ 500 (5 years) i.e. US\$ 100 per year
Fees Paid:	US\$500 (May 2019 to April 2024)
Retro Fees:	US\$300 (3 years) (February 2016 to March 2019)
Retro Fees Paid	US\$300

Addressee(s): Mr William Thomas Dalgety
86 Robb Street,
Lacytown

ENVIRONMENTAL PROTECTION AGENCY
Database Updated
Denzel 20th July, 2019

Activity: Operation of a Sand Mine

Mr William Thomas Dalgety, 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 (Authorisation) Regulations, 2000, to operate a Sand Mine located at Waikabra, Linden-Soesdyke Highway, hereinafter referred to as the "Project", in the manner indicated in the Application submitted on April 05, 2019, subject to the terms and conditions set forth herein and any existing and forthcoming regulations made under the said Environmental Protection Act and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

This Operation Permit (Renewed) is issued pursuant to the Environmental Protection (Authorisations) Regulations, 2000.

Terms and Conditions for the Operation to be adhered to by the Permit Holder:

1.0 GENERAL

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes to the operation at least **14 days before** making the change. The notification shall contain a **description of the proposed change in operation**. It is not

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necessary to make such a notification if **an Application to vary** this permit has been made and the Application contains a description of the proposed change. In this condition '**change in operation**' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

- 1.2 Not undertake any development activity which may significantly affect the environment other than those activities covered by this Permit without prior approval by the EPA.
- 1.3 Ensure proper signage and security measures to keep unauthorized persons from accessing restricted and high-risk areas.
- 1.4 Adhere to the Guyana Geology and Mines Commission's (GGMC) ***Code of Practice for Sand and Loam Mining***.
- 1.5 Submit to the Agency, a copy of the Mining Plan within 2 months of issuance of this Operation Permit (Renewed).

2.0 EMPLOYEES

- 2.1 At all times, operate the sand mine in such a manner that will minimize adverse impacts on public health and the environment.
- 2.2 Adhere to the requirements of the Occupational Health and Safety Act to ensure that employees' health and safety are protected.
- 2.3 Ensure all employees are aware of the Conditions of this Operation Permit and provide training on good environmental management practices. Documentation of such training should be available upon request by regulators.
- 2.4 Provide employees with the necessary protective equipment to fit their job specification such as: hi-visibility vests, respirator, hard hats, gloves, and appropriate footwear and ensure appropriate utilization of these gears. Prepare and maintain an employee log of distribution of Personal Protective Equipment.

3.0 ROADS

- 3.1 Utilize only one access road to sand mine from the main access road.
- 3.2 Ensure that all measures such as grading and compacting of the access road be carried out as is necessary to maintain road.

- 3.3 Maintain the access road to provide for good drainage and dust management. The running surface of the road should be crowned with a compacted layer and with good drainage on both sides to catch and direct water to local drainage system. In addition, the road should be wetted as needed to meet ambient dust conditions.
- 3.4 Ensure that adequate and appropriate **road signage** is installed with provisions for safe line of site along all access road.
- 3.5 Ensure that transportation to and from the operation do not impede Road traffic.

4.0 BUFFER ZONE AND SITE ACCESS MANAGEMENT

- 4.1 Demarcate and maintain boundary limits for the sand mine.
- 4.2 Maintain a non-extractable, vegetated buffer zone at least 20m around any water source/spring located within the property.
- 4.3 Maintain a vegetated buffer zone 50m wide from the side of the access road to the edge of the pit.
- 4.4 Use benchmarks to determine depth achieved during mining operations.
- 4.5 Use benchmarks to determine width during mining operations.
- 4.6 Conduct excavation to a depth that leaves two (2) m above the water table. No mining is allowed at or below the water table.

5.0 VEGETATION CLEARING AND TOP SOIL STRIPPING

- 5.1 Ensure vegetative debris is incorporated and stored with top soil to keep active for reuse in reclamation. In addition, practical measures, such as growing of vegetation such as shrubs and grasses on stockpiles of topsoil should be employed to reduce erosion.
- 5.2 Where possible, topsoil should be placed directly onto an area being rehabilitated to reduce double handling of soil.
- 5.3 Stockpile topsoil in suitable storage sites, where reuse can be accomplished easily.
- 5.4 Conduct reclamation activities at mined out sites/pits, in accordance with the stipulations of the Environmental Codes of Practice for Sand and Loam Mining

(Guyana Geology and Mines Commission, *Environmental Management Codes of Practice 2010, Mining Amendment Regulations, 2005*).

- 5.5 Be obligated to progressively rehabilitate the site, allocating at least one metre of the top soil to be used as backfill material. Rehabilitation will include reduction of slopes to prevent landslides and/or erosion and re-vegetation.

6.0 AIR QUALITY MANAGEMENT

- 6.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 6.2 Operate all mechanical equipment in accordance with manufacturer's specifications. All mechanical equipment and vehicles should be regularly maintained and operated at their optimal levels to minimize atmospheric emissions.
- 6.3 Employ dust suppression methods such as watering, erecting dust screens/fences to control dust emissions from material stockpiles and other components that would generate dust.

7.0 NOISE MANAGEMENT

- 7.1 Adhere to the provisions of the **Environmental Protection (Noise Management) Regulations 2000**.
- 7.2 Comply with Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*, not exceeding the limits below, at a distance of 15 metres (50 feet) from the source or property boundary, whichever is closer.

- Industrial Limits: **100 dB** [Daytime Limits (06:00 h-18:00 h)]

8.0 HAZARDOUS WASTE/ MATERIALS MANAGEMENT

- 8.1 Adhere to the provisions of the **Environmental Protection (Hazardous Wastes Management) Regulations, 2000**.
- 8.2 Not undertake any refuelling activities and fuel transportation on site. All refuelling activities must be done offsite.
- 8.3 Prohibit storage of any quantity of fuel on site.

9.0 WASTE MANAGEMENT

- 9.1 Promote proper solid waste management and disposal practices at your operation. Waste shall not be disposed of in or near the waterways or water catchments. Reduction and reuse of waste should be promoted.
- 9.2 Ensure that solid waste pits are located at least one hundred (100) metres away from watercourses, or habitation. The waste sites should be constructed above the ground water table and lined to the floor with an impervious earthen or other material to prevent leaching to ground water.
- 9.3 Maintain good house-keeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 9.4 Ensure that garbage receptacles are placed in strategic locations within the project site. Have separate bins to facilitate the collection and sorting of waste according to liquid and solids; organic and inorganic; degradable and non-degradable. Used tyres and batteries should be re-used or disposed of in a manner approved by the EPA.

10.0 COMPLIANCE MONITORING AND REPORTING

- 10.1 Submit to the EPA, the **Environmental Annual Reports** on the status of the project, progress of the implementation of the monitoring activities and compliance with the conditions contained herein by **March 31** each year (Please see attached, the *Guidelines for the preparation of Environmental Annual Reports*).
- 10.2 Implement relevant measures/agreements to avoid conflicts with other land users/communities. Conflicts should be reported to the relevant authorities if they occur.
- 10.3 Notify the Agency of non-compliance with this Permit upon becoming aware of violation.
- 10.4 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 10.5 Immediately notify the EPA within **twenty (24) hours** of any accidental release of contaminants or incidence of pollution into the environment. The Permit Holder shall provide the financial, equipment and technical capacity to adequately respond to any emergency that may occur on site and emergency response shall be immediate.
- 10.6 Inform the Agency prior to or within **30 days** of any change of name or ownership of the operation.

- 10.7 Notify the Agency within **21 days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 10.8 Notify the EPA within **24 hours** of the occurrence of any environmental emergencies such as a sudden onset disaster, accident, natural, technological or human induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood.
- 10.9 Report to the Agency of non-compliance with the Operation Permit:
- 10.9.1 Within **twenty-four (24) hours** of the time the Holder of the Operation Permit becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
 - 10.9.2 Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance, its cause and the period of non-compliance including exact dates and time.

11.0 INSTITUTIONAL AUTHORITY AND LIABILITIES

- 11.1 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisation) Regulations, 2000, respectively.
- 11.2 The EPA reserves the right to review/amend the conditions and permit fees attached to this Permit in consideration of any changes in fee structure as determined by the Agency for projects of this nature.
- 11.3 The Permit Holder 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 s.38 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to assault, obstruct or hinder an authorized 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.
- 11.4 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 11.5 The Permit Holder shall be strictly liable for any loss or damage to the

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environment through any act caused intentionally or recklessly, through the adverse effect of any discharge or release, or cause to permit the entry of pollution, contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by any environmental authorization which are attributed to the Project. S. 19(1) EP Act, Cap. 20:05.

- 11.6 The Permit Holder shall be guilty of any offence in accordance with s. 39(1), (2), (3), (4) of the EP Act, Cap. 20:05, which states respectively –“every person who causes material or serious environmental harm by polluting the environment intentionally or recklessly and with the knowledge that material and/or serious environmental harm will or might result is guilty of an offence and shall be liable to the penalties prescribed under the Act.”
- 11.7 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed project. (s. 19(3)(e)) EP Act Cap. 20:05.
- 11.8 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any Complainant seeking loss or damage for negligence as a result of the Permit Holder, his Servants and/or Agents lack of due care and diligence.
- 11.9 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve him an enforcement notice in accordance with s. 26 of the EP Act Cap. 20:05.
- 11.10 Where it appears to the Agency (EPA) that the Permit Holder is engaged in any activity that may pose serious threat to natural resources or serious pollution of the Environment or any damage to public health, issue to the Permit Holder a Prohibition Notice Order to immediately cease the offending activity. S. 27 EP Act, Cap. 20:05.
- 11.11 The Permit is effective for the period stipulated herein **May, 2019 to April, 2024.**
- 11.12 This Operation Permit shall remain valid until **April 30, 2024**, unless otherwise varied, cancelled, suspended or modified in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisation) Regulations, 2000.
- 11.13 This Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorisation* to the Agency at least six months before this Permit expires, that is, no later than **October 31, 2023.**
- 11.14 Any late submission of renewal application (s) after the specified date as stated

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

- 11.15 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to penalties prescribed under the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisation) Regulations, 2000, respectively.

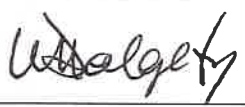
Signed by _____ on behalf of the Environmental Protection Agency.


Dr. Vincent Adams
Executive Director

Date: _____

22/7/19

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

NAME	William Thomas Dalgety
DESIGNATION	Owner
SIGNATURE	
DATE	22 July 2019

