



**Environmental
Protection
Agency**

Ganges Street, Sophia,
Georgetown, GUYANA
Tel.: (592)-225-5467 / 5468 / 5469
Fax: (592) 225-5481
Website: <http://www.epaguyana.org>
Email: epa@epaguyana.org

Environmental Permit (Renewed & 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.:	20050913 – BCGIO
Fees:	Extra Large (C1)- US\$3,100 per one (1) year
Fees Paid	US\$15, 500: Five (5) years (April 2020 to March 2025)
Modification Fees	US\$ 0

Addressee (s): Mr. Gennadii Derevianko
Managing Director
Bauxite Company Guyana Inc.
278 – 282, Forshaw Street,
Queenstown, Georgetown.



**Activity: Bauxite Mining and Processing at 22 – Kurubuka Deposit
(Mining Licence ML 01/2006)**

Bauxite Company Guyana Inc., hereinafter referred to as the “Permit Holder” is hereby authorized in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to undertake Bauxite Mining and Processing within Mining Licence ML 01/ 2006 (22–Kurubuka Deposit) located in the Kwakwani District, Upper Berbice River, Mining District No. 1, hereinafter referred to as the “Project”, in a manner indicated in the Renewal Application submitted on February 11, 2019, subject to the terms and conditions set forth herein under the Environmental Protection Act, Cap. 20:05, existing and/or forthcoming regulations made under the said Act and/or any other applicable laws, best practices, guidelines and standards relevant to this project.

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

1.0 MINING OPERATION

1.1. Notify the Agency in writing and obtain approval for **ANY** proposed changes in operation of the Bauxite Mining and processing at least **fourteen (14) days** before making the change. The notification shall contain a **description of the proposed change in operation**. It is not 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, including but not limited to the following:

- I. Changes in construction, structure, layout of the facility;
- II. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility or operation; and
- III. Any technology installed at the facility from which effluent may be discharged.

1.2. Ensure mining activities do not occur outside the boundaries of Point A, located at geographical coordinates of longitude 58°0'56"W and latitude 5°17'15"N, thence at true bearing of 90°18'0", for a distance of approximately 1126 yards to Point B, located at geographical coordinates of longitude 58°0'23"W and latitude 5°17'15"N, thence at true bearing of 3°36'0", for a distance of approximately 543 yards to Point C, located at geographical coordinates of longitude 58°0'22"W and latitude 5°17'31"N, thence at true bearing of 92°12'0", for a distance of approximately 1151 yards, to Point D, located at geographical coordinates of longitude 57°59'48"W and latitude 5°17'30"N, thence at true bearing of 3°, for a distance of approximately 548 yards, to Point E, located at geographical coordinates of longitude 57°59'47"W and latitude 5°17'46"N, thence at true bearing of 91°48'0", for a distance of approximately 499 yards, to Point F, located at geographical coordinates of longitude 57°59'32"W and latitude 5°17'46"N, thence at true bearing of 1°36'0", for a distance of approximately 699 yards, to Point G, located at geographical coordinates of longitude 57°59'31"W and latitude 5°18'6"N, thence at true bearing of 90°36'0", for a distance of approximately 1 mile 184 yards, to Point H, located at geographical coordinates of longitude 57°58'34"W and latitude 5°18'6"N, thence at true bearing of 181°6'0", for a distance of approximately 1 mile 1274 yards, to Point I, located at geographical coordinates of longitude 57°58'36"W and latitude 5°16'36"N, thence at true bearing of 270°, for a distance of approximately 2 miles 422 yards, to Point J, located at geographical coordinates of longitude 58°0'33"W and latitude 5°16'36"N, thence through a bearing of 180°6'0", for a distance of approximately 540 yards, to Point K, located at geographic coordinates of longitude 58°0'33"W and latitude 5°16'20"N, thence at true bearing of 269°42'0", for a distance of approximately 1497 yards, to Point L, located at geographical coordinates of longitude 58°1'17"W and latitude 5°16'19"N, thence at true bearing

of 0°48", for a distance of approximately 1352 yards, to Point M, located at geographical coordinates of longitude 58°1'16"W and latitude 5°17'0"N, thence at true bearing of 90°12'0", for a distance of approximately 659 yards, to Point N, located at geographical coordinates of longitude 58°0'57"W and latitude 5°16'59"N, thence at true bearing of 2°18'0", for a distance of approximately 528 yards to the point of commencement at Point A.

- 1.3. Adhere to the stipulations within the Mining Act, No. 20 of 1989, and the Mining Regulations including the Mining (Amendment) Regulations, 2005.
- 1.4. Comply with the approved Environmental Impact Assessment (EIA) dated September, 2007, the Environmental Management Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents, for the Project.
- 1.5. Continue implementing the Monitoring Plan and the Emergency Response Plan as outlined in the approved Environmental Impact Assessment (EIA) and the Environmental Management Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents, for the Project.
- 1.6. Ensure that all boundary limits for the Mining property 01/2006 as described in Condition 1.2 are clearly demarcated and maintained at all times.
- 1.7. Maintain proper signage and security measures that are instituted to keep unauthorized persons from accessing restricted and high-risk areas within the mining property.
- 1.8. Where applicable and as needed, level and grade steep slopes, install drainage, backfill depressions and prepare ground in the mined-out areas in a manner that will result in a stable state that blends in with the surrounding area and allows for progressive reclamation.
- 1.9. Limit cleared areas to those identified within the mine plan for ore recovery, infrastructure, waste and stockpiles areas, etc.
- 1.10. Ensure that the transport of mined material from the mines to the processing facility is done in a manner that prevents adverse impacts to the environment.

2.0 EMPLOYEES & OCCUPATIONAL HEALTH AND SAFETY

- 2.1 Ensure compliance with the **Occupational Safety and Health Act No. 32 of 1997**, and ensure that employees' health and safety are protected at all times.
- 2.2 Inform all employees/third party contractors of the conditions of the Environmental Permit (Renewed) and provide regular training on good environmental management practices in keeping with the conditions of this Permit and any other environmental guiding regulations. A report inclusive of training materials, list of all persons trained, photographic evidence or minutes of these

sessions must be recorded and be available upon request by Compliance Auditors of the Agency at any given time.

- 2.3 Provide adequate fire protection measures in all operating areas. Place firefighting equipment such as fire extinguishers, sand buckets, and fire pumps at visible locations on site, in accordance with guidelines established by the Guyana Fire Service.
- 2.4 Company/Health, Safety and Environment (HSE) committee/personnel should be responsible for coordinating Environmental Management, implementing the conditions of this Permit, and ensuring that employees/third party operators are trained in Environmental Emergency Response Procedures.
- 2.5 Institute a transparent and accessible grievance mechanism for employees to relate and address any environmental and work-related concerns or problems which may arise and affect the well-being or performance of the workers. Employees must be notified of the agreed mechanism during recruitment.

3.0 WATER QUALITY MANAGEMENT

- 3.1 Comply with the **Environmental Protection (Water Quality) Regulations, 2000**, and adhere to the measures outlined for Water Resources Management in the Environmental Management Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents, for the Project.
- 3.2 Permitted discharges into waterways from sediment ponds and all final discharge points (as described in the approved Revised Environmental Monitoring Plan, 2016) should be in accordance with the Guyana National Bureau of Standards *Interim Guidelines for Industrial Effluent Discharge into the Environment* and the *International Finance Corporation (IFC) and World Bank Performance Standards*. The following maximum allowable limits should not be exceeded:

- pH 5.0 – 9.0;
- Total Suspended Solids(TSS) <100 mg/L;
- Oil and Grease <20 mg/L;
- Temperature <40°C;
- Turbidity <50mg/L;
- Biological Oxygen Demand (BOD) <50 mg/L;
- Phosphorous (P) <2 mg/L;
- Conductivity mS/cm;
- Dissolved Oxygen (DO) ≥5.0 mg/L; and
- Sulphates (SO₄²⁻) ≤200 mg/L.

- 3.3 Maintain the **two (2) monitoring wells** established at the mine and processing sites. Location of wells should be provided to the EPA on a suitable map.

- 3.4 Conduct quarterly monitoring of water quality parameters outlined in condition 3.2 and submit results to the EPA for groundwater, and surface water. Water sampling points and parameters tested should conform to the approved Revised Environmental Monitoring Plan, 2016. These reports should be submitted **two (2) months** after the reporting quarter.
- 3.5 Ensure no direct discharge of storm water to any water-bodies is allowed. Direct runoff from the overburden stockpile, ore stockpile areas and water accumulated in pit sumps into a settling pond retained or intercepted by a rock barrier or dam before releasing into the environment.
- 3.6 As far as possible, divert surface water runoff from higher mine benches to prevent it from reaching lower workings. Where possible, strategically place low permeability materials to restrict water flow into mining areas.
- 3.7 Maintain turn out drains towards a sump area and on main roads capable of handling the probable maximum precipitation storm event within the mines and ancillary facilities. Sediment control structures such as sediment traps and screens should be installed to prevent the inflow of sediments to surface water.
- 3.8 Where settling ponds and polishing ponds are used, maintain a minimum freeboard of 0.5 metres and ensure that they are constructed and operated in accordance with the guidelines specified in the approved Environmental Impact Assessment (EIA) dated September, 2007, and the Environmental Management Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents for the Project.
- 3.9 Engineer and maintain surface drainage systems to minimize disturbances to natural drainage patterns inclusive of underground pipelines. Drainage systems should be capable of handling the probable maximum precipitation within the mines and ancillary facilities.
- 3.10 Maintain the efficacy of the filter treatment system at the domestic water discharge point. Domestic waste water shall not be discharged directly into watercourses.
- 3.11 At all times, avoid water contamination from fuel, grease and waste oils.
- 3.12 Store overburden stockpiles away from drainage systems and beyond 100 meters of any water course.
- 3.13 Ensure that surface drains are cleared of debris on a regular basis to promote free flow of water.
- 3.14 Consider the weather pattern before initiating major earthworks e.g. road maintenance, topsoil excavation. Monitor areas of exposed soil during periods of heavy rainfall.
- 3.15 Conduct site clearing of any mine expansion panels in a gradual and phased manner to minimize sediment discharge.
- 3.16 Continue to conduct water quality monitoring for potential acid mine drainage in waterways.

4.0 HAUL ROADS

- 4.1 Ensure that roads are constructed at a minimum distance of 200 meters away from employees' accommodation. Further, maintain an adequate vegetative buffer between the mines, roads and employees living quarters.
- 4.2 Ensure the running surface of the haul road is crowned with a compacted layer of laterite or other durable road construction and equipped with good drainage on both sides of the road shoulder to catch and direct storm water to the local drainage system.
- 4.3 Ensure that the haul road between the mine and processing facilities at 22 Kurubuka is constructed of laterite or other suitable road construction material to accommodate the heavy duty machinery and is used in a manner to minimize dust nuisance to other users of the road.
- 4.4 Minimize the clearing of vegetation during road construction by restricting the width of road corridors as much as possible.
- 4.5 Ensure that culverts are installed at points of low elevation along new roadways to maintain local drainage patterns and sized to handle wet season flood flows.
- 4.6 Ensure all reasonable and practical measures such as the provision of turnout drains at regular intervals are implemented to prevent erosion of roads.
- 4.7 Ensure adequate safety signs are erected along all roads informing users of dangerous bends, crossing of haul trucks, speed limits, etc.

5.0 WASTE MANAGEMENT

- 5.1 Adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations, 2013**, as far as possible.
- 5.2 Maintain a solid waste disposal pit, which should be lined to the floor with earthen or geotextile material to prevent leaching to groundwater.
- 5.3 Storm water should be diverted from the waste pit. Pit should be maintained and covered on a regular basis to avoid fly and rodent infestations as well as mal-odour from leachate.
- 5.4 When the maximum capacity is reached, the solid waste pit should be covered with at least 0.3 metres of soil and a suitable site determined for another.
- 5.5 Promote the reduction and reuse of waste generated from your facility. Provide covered garbage receptacles at strategic locations of the operation and ensure that all solid waste materials are appropriately stored until the time of disposal in the solid waste disposal pit described in Condition 5.2. Reuse, recycle and compost waste materials as far as practical.
- 5.6 Undertake composting of organic waste and reuse organic materials as fertilizer for re-vegetation of reclaimed areas.

- 5.7 Maintain a septic system on site at all times. The septic tank should not be located within 1.5 m of a building or property boundary and should be accessible for cleaning and de-sludging. Any modification to the Septic tanks must be in accordance with the Guyana National Bureau of Standards (GNBS) Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems.

6.0 AIR QUALITY MANAGEMENT

- 6.1 Comply with the provisions of the **Environmental Protection (Air Quality) Regulations, 2000**.
- 6.2 Comply with the World Health Organisation (WHO) Air Quality Guidelines for Particulate Matter in the Environment, not exceeding the limits below:

PM_{2.5}: 10 µg/m³ annual mean
25 µg/m³ 24-hour mean
PM₁₀: 20 µg/m³ annual mean
50 µg/m³ 24-hour mean

- 6.3 Monitor parameters listed in condition 6.2 on a biannual basis (including the wet season and the dry seasons) and submit results to the Agency on a biannual basis using the EPA's Reporting and Record-Keeping Form for Air Emissions.
- 6.4 Take all necessary precautions to reduce any instances of particulates released into the environment from the operation.
- 6.5 Employ wet suppression methods such as watering along roads, at material stockpiles, and other necessary areas to control and prevent fugitive dust impacts during the construction and operation phases of the mine site. Utilise dust suppression methods such as watering on a regular basis.
- 6.6 Operate all mechanical equipment in accordance with the manufacturer's specifications. Additionally, ensure that all mechanical equipment and vehicles are regularly maintained and operated at their optimal levels to minimize atmospheric emissions.

7.0 NOISE QUALITY MANAGEMENT

- 7.1 Comply with the **Environmental Protection (Noise Management) Regulation, 2000**, and the Noise Management measures outlined in the revised Environmental Management Plan (pending approval).
- 7.2 Comply with *Guyana National Bureau of Standards (GNBS) Guidelines Noise Emissions into the Environment*, not exceeding the limits below at a distance of 15 meters (50 feet) from the source or property boundary, whichever is closer.

- Industrial Limits: **100 dB** (Daytime Limits 06:00 h-18:00 h)
80 dB (Nighttime Limits 18:00 h- 06:00 h)

- 7.3 Ensure all significant noise-producing equipment, e.g. generators etc. are equipped with appropriate silencers or mufflers and/or are enclosed in suitable acoustic enclosures where necessary to reduce noise levels impacting the surrounding environment to achieve compliance with GNBS requirement.
- 7.4 Operate all mechanical equipment in accordance with manufacturer's specifications. All mechanical equipment, vehicles, should be regularly maintained and operated at their optimal levels to ensure efficiency and reduce the noise levels produced.

8.0 HAZARDOUS MATERIALS/WASTE MANAGEMENT

- 8.1 Adhere to the provisions of the Environmental Protection (Hazardous Waste Management) Regulations, 2000, and the stipulations within the Pesticides and Toxic Chemicals Act, No. 13 of 2000, the Pesticides and Toxic Chemicals Regulations, No. 8 of 2004, the Pesticides and Toxic Chemicals (Amendment) Regulations, No. 8 of 2007.
- 8.2 The Hazardous Material Storage areas shall be clearly labelled, secured and well illuminated when not in use. The following warning signs shall be clearly posted:
- (a) Danger- Chemical Storage Area "Authorized Personnel Only"
 - (b) Read and Follow all label directions
 - (c) No Smoking
 - (d) No Eating or Drinking
- 8.3 Establish and maintain a register of hazardous materials or chemicals used or generated by the operation. Submit to the Agency, twice yearly (June and December), a report on hazardous waste generation and management for the previous six months including (please see attached form):
- The name, location and type of facility.
 - Types and quantities (in metric units) of hazardous waste generated.
 - Manner of storage, use, any applied treatment standards/methods and disposal of these substances.
 - Data concerning off-site shipments of waste, i.e. local disposal facility utilized, country to which hazardous waste is shipped, purpose of shipment and amount of waste shipped.
 - A summary of any accidents that may have occurred and any action taken.
 - Any waste minimization efforts undertaken by your facility for hazardous material/waste.
 - Any other matter the Agency may require.

The Agency considers all materials listed in Schedule I and II of the Environmental Protection (Hazardous Wastes Management) Regulations, 2000, to be hazardous. (Please see attached list.)

- 8.4 (a) Collect and store waste oils, used batteries, and any other hazardous waste on site until ready for disposal in a manner approved by the EPA.
- (b) Refrain from draining fuel/ lubricants, including waste oils of any quantity from equipment on to the ground and waterways.
- 8.5 Avoid servicing of vehicles in mining pits except in instances of emergency repairs.
- 8.6 Contain all chemicals securely and conform to the safety conditions as outlined in the Material Safety Data Sheet for each chemical. Keep all chemicals in well-sealed and individually labeled containers and properly store in an impervious and well ventilated room/bond.
- 8.7 Hazardous materials shall be stored in accordance with the manufacturer's directions or Safety Data Sheet (SDS) instructions.
- 8.8 Safety Data Sheets for all hazardous materials shall be readily available and easily accessible at all times at the Facility.
- 8.9 Take the necessary precautionary measures during the transport, transfer, use and handling of all hazardous material.
- 8.10 All hazardous waste shall be stored in a covered, bunded area. This area shall include the following:
- (a) Signage- "Hazardous Waste Storage Area";
 - (b) Low traffic;
 - (c) No floor drains; and
 - (d) Secondary containment capable of containing 110% of the largest volume therein.
- 8.11 Emergency spill clean-up kits shall be maintained on site for response to spills. Kits must contain absorbent materials, drain seals and other appropriate tools for clean-up. Kits must be readily available and clearly identified at the hazardous storage Facility.
- 8.12 A fully stocked first- aid kit shall be readily available at the hazardous storage Facility.
- 8.13 Material storage containers shall be inspected weekly for signs of leakage or corrosion and damaged containers must be replaced immediately. Inspection reports must be maintained and signed by the appropriately qualified inspecting officer and his/her supervisor.

- 8.14 Hazardous materials stored in ton bags and totes shall:
- a) Be protected from UV rays;
 - b) Be covered to prevent exposure to dirt, dust, and moisture; and
 - c) Not hang over the side of pallets used for stacking.
- 8.15 Hazardous materials stored within drums shall:
- a) Be placed within bunded storage to ensure any leaks or spills are immediately contained;
 - b) Be clearly marked with their contents, and any appropriate warning symbols;
 - c) Have scheduled inspection to detect rust, leaks or other damage; and
 - d) Remain covered to protect the integrity of your chemicals.
- 8.16 Hazardous materials stored within cans shall be tightly sealed and kept off the floor on pallets.
- 8.17 Hazardous materials shall not be stored on damaged, or inadequately secured racking or on damaged pallets.
- 8.18 Hazardous materials shall not be stored in passageways including forklift truck routes, other vehicle routes and pedestrian walkways on site.
- 8.19 Hazardous material storage area roof shall provide adequate rain protection and ventilation for heat and smoke in the event of fire.
- 8.20 Fork lifts utilized to lift and transport packaged hazardous materials shall have rated capacity to support the full weight of packages.
- 8.21 Fork lift tines used for lifting packaged dry chemicals shall be free of sharp edges and protrusions.
- 8.22 Hazardous material storage areas shall possess ventilation in accordance with one of the following:
- a) Gravity ventilation to the outside with a capacity of one cubic foot per minute per square foot or floor space; and
 - b) Mechanical ventilation with on/ off switches at points of ingress that are capable of exhausting to the outside.
- 8.23 Elevate all waste oil/ chemical tanks and containers so that leaks are easily identifiable.
- 8.24 Empty chemical containers or drums shall NOT be reused or sold to third parties for reuse.

- 8.25 Collect, store, transport and dispose of Medical Waste in accordance of the Company's approved Bio-medical Waste Management and Transport Regulations, 2019.

9.0 FUEL HANDLING AND STORAGE

- 9.1 Maintain the Standard Operating Procedure (SOP) for fuel transfer operations including the checklist of measures to follow during filling operations. A copy of any revisions to this SOP shall be submitted to the EPA as a component of the Annual Report required in **Condition 19.1**.
- 9.2 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimize corrosion of fuel tanks.
- 9.3 Maintain an impervious secondary containment wall around fuel storage tanks, creating a temporary holding area in the event of accidental spillage. The containment wall for areas with multiple tanks must have the capacity to provide at least 110% containment of the largest tank. The containment wall for areas with solitary tanks must have the capacity to provide 110% containment of each fuel tank. The containment wall **MUST** be fully sealed to prevent spillage into the receiving drainage system.
- 9.4 Install and maintain an oil-water separator through which all effluent discharged from the containment areas must be channeled before final discharge.
- 9.5 Install a drainage system around the fuel dispensers. The drain should be at least 2 meters from the dispensers and leading to the oil-water separator.
- 9.6 Secondary containment, drip trays or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points.
- 9.7 Existing secondary containment around the fuel tanks shall be inspected monthly for cracks and breakage to ensure they are liquid tight to withstand hydrostatic pressure. A summarized inspection report shall be submitted to the Agency as a component of the Annual Environmental Report required in condition 12.4.
- 9.8 All piping must enter or exit the containment over the wall and no part of the tank infrastructure (e.g. dispenser, filling hoses and valves) shall protrude outside the containment.
- 9.9 All fuel storage tanks shall be tested by competent persons to verify their integrity once every five years. All tests should be documented including a clear indication of the scope, type and results of the tests.

- 9.10 Ensure that adequate signage is installed in fuel storage areas, such as No Smoking, Flammable Materials, etc.
- 9.11 Protection measures for fuel storage tanks such as painting and coating shall be maintained to minimize corrosion of fuel tanks.
- 9.12 Maintenance and/ or repair of fittings, pipes and hoses shall be conducted monthly and in accordance to manufacturer's specifications. A summarized inspection report shall be compiled and submitted to the Agency as part of the Annual Report required in condition 11.4.
- 9.13 Leak detection systems shall be installed on all fuel tanks. At least two (2) of the following measures should be implemented:
 - (a) Overflow alarms on tanks;
 - (b) Gauging system;
 - (c) Dipstick measurements;
 - (d) Sensors on walls of tanks; or
 - (e) Electric shut down buttons

10.0 BIODIVERSITY PROTECTION

- 10.1 Maintain vegetation around production facilities and along access roads to mitigate the impact on terrestrial resources.
- 10.2 Prohibit employees from the capturing, killing and trading of all Wildlife from the project area in accordance with the Wildlife Conservation and Management Act, 2016.
- 10.3 Conduct aquatic and terrestrial surveys at least once every two years to assess any change in species type and abundance. As far as possible, use the same methodology identified in the approved Environmental Management and Monitoring Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents, for the Project.
- 10.4 Record observances of aquatic and terrestrial biodiversity and submit quarterly reports to the EPA.
- 10.5 Report any occurrences of illegal wildlife trapping and trading in the project area to the EPA and Wildlife Conservation and Management Commission.

11.0 PROGRESSIVE RECLAMATION AND CLOSURE

- 11.1 Adhere to the Conceptual Closure and Decommissioning Plan as outlined in the approved Environmental Management Plan, 2013.
- 11.2 Segregate topsoil of reasonable quantity and overburden separately at a location

prepared for this purpose for re-use during progressive reclamation. Deposition of the top soil and overburden should occur in accordance with the Environmental Management Plan dated September, 2013 and any subsequent approved revisions/amendments of the afore-mentioned documents, for the Project.

- 11.3 Ensure progressive reclamation occurs as mining progresses.
- 11.4 Re-contour borrow pits from which materials are sourced for the construction of roads and for other infrastructure works to conform to the natural topography of the area. Replace topsoil removed from these areas after excavation to facilitate re-vegetation.
- 11.5 Backfill the mine pits and slopes with waste materials such as rock wastes from upper levels can be dumped or backfilled to the lower mined slope voids.

12.0 COMPLIANCE MONITORING AND REPORTING

- 12.1 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.
- 12.2 Report to the Agency of non-compliance(s) with the **Environmental Permit (Renewed & Modified)**:
 - 12.2.1 Within **twenty-four (24) hours** of the time the Holder of the Environmental Permit (Renewed) becomes aware of the non-compliance, the anticipated manner in which it may endanger human health or the environment.
 - 12.2.2 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.
 - 12.2.3 Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.
- 12.3 Keep all records of environmental monitoring, malfunctions, pollution of the environment, staff training and any failure to comply with requirements as stated in this Permit in an acceptable format, which should be made available to the EPA upon request.
- 12.4 Submit annual reports to the EPA on or before **March 31** every year of environmental management activities; status of the project, progress of the implementation of the EIA, monitoring activities, as well as compliance with the conditions of this Permit.



- 12.5 Ensure the annual reports and other records of monitoring include the following:
- The names of the individuals and designations, who conducted sampling, prepared and compiled the reports;
 - The date, place/location, time, weather conditions, techniques and methods used in sampling;
 - The date the measurements were compiled or analysed and the names of the individuals who compiled the information;
 - Observations, readings, calculations, benchmarks, bench data, the results of analyses;
 - Limitations of the sampling process and all other occurrence at the time of study, which may affect the results;
 - Possible sources of error during monitoring activities;
 - Photographs and drawings of all relevant aspects of the operation; and
 - The state of operation of facilities at the time of measurement, including planned and unplanned shutdowns, production levels and achievement of design capacity, identification of release point, source of release and substances being released.
- 12.6 Commission an independent environmental audit of the operation every two (2) years using a Terms of Reference agreed upon by the EPA and the Company and submit the report to the Agency within three (3) months of completion of the audit.
- 12.7 Submit to the EPA, a detailed **Project Closure/Reclamation Plan** for approval **one (1) year** prior to closure. Thereafter, the closure plan will be updated and reviewed at a frequency agreed to with the Agency.
- 12.8 Immediately notify the EPA of any accidental release of contaminants or incidence of pollution into the environment within **twenty-four (24) hours**. 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.
- 12.9 Inform the National Trust and Walter Roth Museum if any artifacts of archaeological and anthropological significance are unearthed during operations.
- 12.10 Be responsible for payment for all environmental audits and compliance Monitoring associated with this Permit.
- 12.11 Conform to all terms and conditions under which this Permit (Renewed) is granted and be liable for any loss or damage which arises from the project as a result of the Permit Holder's activities or breach of any term or condition of this Permit.
- 12.12 Foster good corporate relations involving the Regional Democratic Council (RDC), residents, Village Councils and other stakeholders, where general information can be shared and major concerns or complaints resolved. Adhere to

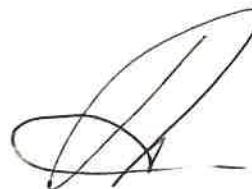
the agreement signed between the Bauxite Company of Guyana Inc. and the Hururu Village.

- 12.13 Institute a transparent and accessible grievance mechanism for surrounding communities and other land-use owners related to any environmental concerns or problems which may arise and affect their well-being as a result of the Company's operation.
- 12.14 Inform the Agency prior to or within **thirty (30) days** of any change of name or ownership of the operation.
- 12.15 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.


13.0 INSTITUTIONAL AUTHORITY AND LIABILITIES

- 13.1 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, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 13.2 The EPA reserves the right to review and/or amend the permit conditions and fees attached to this Permit in consideration of any changes in fee structure as determined by the Agency for projects of this nature.
- 13.3 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 13.4 The Permit Holder, His Servants, Agents, and/or Sub-Contractors 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 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 be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.
- 13.5 This **Environmental Permit (Modified)** is not the final consent; all relevant permissions should be obtained from other regulatory bodies for continued operation.
- 13.6 The Permit Holder, his Servants and/or Agents shall be strictly liable jointly and/or severally for any loss or damage to the environment through any act caused intentionally or recklessly, through the adverse effect of any discharge or release, or cause or 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 Authorisation which are attributed to the Project. (s. 19 (1) (2) Environmental Protection Act, Cap. 20:05, Laws of Guyana).

- 13.7 The Permit Holder, his Servants and/or Agents shall be liable jointly and/or severally for any gross negligence or willful misconduct to the marine environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil or lubricants from fuel storage at any facilities permitted under this project.
- 13.8 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed project. (s. 19(3) (e)) Environmental Protection Act Cap. 20:05, Laws of Guyana.
- 13.9 The Permit Holder shall be responsible for the payment of all costs related to the assessment of damage and costs for the independent assessor (s).
- 13.10 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an enforcement notice in accordance with s. 26 of the Environmental Protection Act Cap. 20:05, Laws of Guyana.
- 13.11 Where it appears to the Agency 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, Laws of Guyana.
- 13.12 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 lack of due care and diligence.
- 13.13 This **Environmental Permit (Modified)** *remains* effective for the period stipulated herein **(April 2020 to March 2025)**. This modification only applies to Environmental Permit (Renewed) issued on **April 27, 2020**.
- 13.14 This **Environmental Permit (Modified)** shall remain valid until **March 31, 2025**, unless otherwise suspended, cancelled, modified or varied, in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 13.15 This **Environmental Permit (Modified)** must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorisation* to the Agency **at least six (6) months** before this Permit expires, that is, no later than **September 30, 2024**.



- 13.16 Any late submission of renewal application(s) after the specified date as stated above, shall 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\$2,000.00) 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.
- 13.17 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to civil penalties and/or injunctive reliefs prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act 2005, and the Environmental Protection (Authorisations) Regulations 2000, including under any existing and forthcoming regulations made under the said Act or any other applicable Laws of Guyana.

Signed by  on behalf of the Environmental Protection Agency.
Ms. Sharifah Razack
Executive Director (A.g.)

Date:

2021. 06.11



Environmental Permit (Modified) - Ref. No.: 20050913-BCGIO

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.

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

NAME:	Gerardii' Azeviano
DATE:	17.06.2021
DESIGNATION:	Managing Director
SIGNATURE:	