

WHO ARE WE?

Envaserv Research Consult (ERC) Ltd. is a leading integrated multi-disciplinary Environmental and Social Performance Consultancy firm and Testing Laboratory Complex.

We deliver innovative services to clients across the oil and gas, petrochemical, mining, agriculture, manufacturing, and transportation industries, creating shared value beyond mere compliance.

Headquartered in Accra, Ghana, we serve various sectors in West Africa and beyond.



Our vision is to become a recognized choice for environmental research, social performance consultancy and laboratory testing services.

Our mission is to know our clients, understand their needs and deliver cost-effective solutions that address those needs.

We are committed to providing innovative and sustainable approaches that promote responsible development, ensure compliance, and foster economic growth.

Our core values are Integrity, Professionalism, Ethical Standards, Excellence, Sustainability, Innovation, and Customer Focus.

Our services are certified under ISO 9001:2015, and our multi-faceted laboratories services are accredited with ISO/IEC 17025:2017, ensuring the continuous improvement of our Quality Management Systems (QMS) and processes.

At ERC, we adopt a risk-based thinking approach to our QMS, planning and implementing actions to address both risks and opportunities.



Our commitment is to meet and exceed customer expectations through strategies focused customer satisfaction, leadership, participatory process in decision, and continuous improvement in our operations.

SUSTAINABLE FOCUS

Sustainable Development Goals (SDGs) aim to promote economic growth, ensure social inclusion, and protect the environment, particularly in emerging markets.

Among these frontier markets, Ghana – often referred to as “The Gateway to Africa”, - provides a stable and sustainable foundation in West Africa and beyond. ERC serves as Ghana's interface with SDGs.



This positioning enables ERC to offer cutting-edge environmental research, social governance and laboratory testing services for oil & gas, petrochemical, mining, agriculture, and other key sectors.



We integrate environmental concerns into our daily business operations, aligning our practices with Sustainable Development Goals (SDGs).

ENVIRONMENTAL CONSULTANCY SERVICES

Environmental Impact Assessments (EIAs): Comprehensive evaluations to assess potential environmental effects of proposed projects.

Social Performance Consulting: Strategies to enhance social responsibility and stakeholder engagement.

Compliance Audits: Thorough assessments to ensure adherence to environmental laws and regulations.

Risk Assessment and Management: Identifying and mitigating environmental risks to safeguard business operations and community welfare.

Agriculture Research: Assisting clients in testing and research; certification and inspection of agriculture and farming research needs including Precision Agriculture, Agro-Bioterrorism Response Service, Agro-Environmental Assessment

Environmental Modeling & Geospatial Analysis:

Data capturing and geo-processing using in-house applications to provide interactive mapping and GIS capabilities to integrate a powerful set of GIS/ CAD software with automated tools (ESRI ArcGIS, XTools, and AutoCAD) to assist clients in streamlining processes and continually improve operations management.

Our **environmental modelling** services utilize sophisticated simulation techniques to understand and predict environmental processes.

We develop models that assess various factors, including:



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Social Performance

Consulting: Strategies to enhance social responsibility and stakeholder engagement.

Compliance Audits:

Thorough assessments to ensure adherence to environmental laws and regulations.



Our **environmental modelling**

services utilize sophisticated simulation techniques to understand and predict environmental processes. We develop models that assess various factors, including:

- **Ecosystem Dynamics:** Understanding interactions between biotic and abiotic components to inform conservation strategies.
- **Pollution Dispersion:** Simulating the spread of pollutants in air, water, and soil to assess environmental impact and compliance with regulations. Climate
- **Change Impact:** Evaluating the potential impacts of climate change on ecosystems, communities, and infrastructure.

Geospatial analysis is crucial for visualizing and interpreting spatial data. Our consultancy provides:

- **GIS Mapping:** Creating detailed maps that represent spatial relationships and patterns relevant to environmental management.

- **Spatial Data Analysis:** Analyzing geographic data to identify trends, assess risks, and inform resource allocation.
- **Remote Sensing:** Utilizing satellite imagery and aerial photography to monitor land use, vegetation health, and environmental changes over time.

Integrated Solutions We combine environmental modelling and geospatial analysis to deliver integrated solutions tailored to client needs. Our approach includes:

- **Data Collection and Management:** Designing data collection frameworks that ensure high-quality, relevant data for analysis.
- **Stakeholder Engagement:** Facilitating workshops and discussions with stakeholders to ensure that modelling outcomes align with community needs and regulatory requirements.
- **Decision Support Systems:** Developing tools that allow clients to visualize scenarios and make informed decisions based on model outputs and spatial analysis.

Bathymetry and Geotechnical Surveys:

Our bathymetric survey offerings include:

- **Multi-beam and Single-beam Sonar Surveys:** Utilizing sonar technology to create detailed maps of the seafloor, enabling navigation, habitat mapping, and marine resource management.
- **Sediment Sampling and Analysis:** Collecting and analyzing sediment samples to assess marine environments and inform coastal management practices.

Geotechnical surveys assess soil and rock properties to inform construction and engineering projects. Our services include:

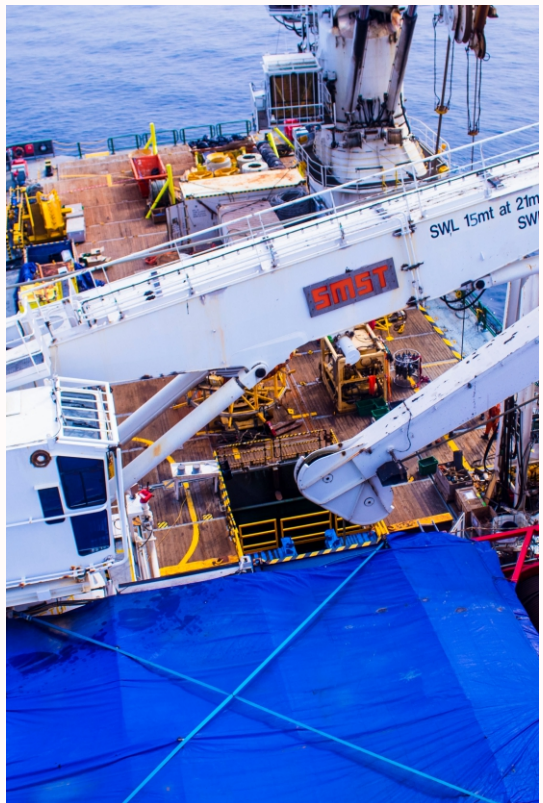
- **Soil Sampling and Testing:** Conducting field and laboratory tests to determine soil composition, strength, and stability, critical for foundation design and construction.

Borehole Drilling and Logging:

Drilling boreholes to collect subsurface samples and logging geological conditions to characterize the site for engineering projects.

• **Slope Stability Analysis:** Evaluating the stability of slopes and embankments to prevent landslides and ensure safe construction practices.

• **Marine Vibro-coring:** Our experienced team conducts vibro-coring operations using state-of-the-art equipment designed for marine environments. Our services include:



- o **Site Assessment:** Conducting preliminary assessments to identify suitable coring locations based on project objectives.
- o **Core Collection:** Utilizing a vibro-core system to extract sediment cores from the seabed, ensuring minimal disturbance to the surrounding environment.
- o **Core Recovery:** Collecting and transporting cores to our facilities for detailed analysis and processing.
- **Sediment Analysis** After core recovery, we provide comprehensive sediment analysis to characterize the samples, including:
 - o **Grain Size Distribution:** Analyzing sediment composition to understand depositional environments and sediment transport processes.
 - o **Chemical Testing:** Conducting tests for contaminants and nutrients to assess environmental health and compliance with regulations.
 - o **Physical Properties:** Evaluating the physical characteristics of sediments, such as density, porosity, and shear strength, to inform engineering decisions.
 - o **Data Interpretation and Reporting** We offer detailed reporting and interpretation of results, providing clients with actionable insights. Our services include:
 - o **Stratigraphic Analysis:** Interpreting sediment layers to understand geological history and sediment dynamics.
 - o **Environmental Impact Assessments:** Evaluating potential impacts of projects on marine ecosystems based on sediment quality and characteristics.
 - o **Customized Reporting:** Delivering tailored reports that meet specific client needs and regulatory requirements.

LABORATORY TESTING SERVICES



Water Quality Testing

Analysis of physical, chemical, and biological parameters to ensure safe water for consumption and use.

Soil Analysis

Testing for contamination, nutrient levels, and pH to support sustainable agricultural practices.

Fertilizer Testing

Testing for contamination, micro- and macro nutrient levels, and chemical guarantee analysis to support sustainable agricultural practices.

Petroleum Products Quality Testing

Testing for physical, chemical, and biological properties/parameters of petroleum products including crude oil, condensate, lube oil, gasoline, LPG, Glycol/MEG, and PVT analysis.



Air Quality Monitoring:

Assessing air pollutants and particulates to ensure compliance with health standards.

Stack Emission & Flue Gas Measurements: Assessing gaseous pollutant emissions and particulates from combustion engines to ensure compliance with health standards and operational efficiency.

Waste Management Testing:

Evaluating waste materials to determine safe disposal methods and recycling options.



Air Quality Monitoring Device



SPECIAL & RECENT PROJECTS

Tailored Solutions for Specific

Industries: Customized approaches to meet the unique environmental challenges of oil and gas, petrochemical, mining, and agriculture sectors.

Examples of successful projects include

Tullow Benthic Environmental Survey
The characterization of the marine ecosystem around oil and gas facilities involves assessing the environmental quality of benthic and water ecosystems to monitor their health status over time.

Envaserv Research Consult was engaged to conduct benthic survey within the Jubilee and TEN Fields of Tullow Ghana's offshore oil and gas facilities, which are situated in deep waters ranging from 800 to 2000 meters.

ERC successfully completed the project on time and to a high standard.

The survey results and recommendations would support informed decision-making and encourage sustainable practices.

Post Oil Spill Environmental Monitoring

Post-oil spill marine environmental monitoring is essential for understanding the impacts of oil spills on marine ecosystem, guiding effective management decision, and ensuring compliance with environmental regulations. Tullow Ghana Ltd.

(TGL) contracted Envaserv Research Consult to monitor the benthic and water ecosystems in order to assess potential adverse impacts for appropriate mitigations.

ERC successfully completed the project on time and to a high standard. The survey results and recommendations will support informed decision-making and encourage sustainable practices.

eDNA Sampling for Biodiversity Impact Monitoring

Eni Ghana Exploration and Production Limited is implementing a Biodiversity Action Plan to achieve No Net Loss of IFC Natural

Habitat by countering habitat loss from the construction of its Onshore Receiving Facility (ORF) in Sanzule, Western Region of Ghana.

The plan includes active revegetation and habitat improvements.

To monitor these efforts, Eni Ghana is using environmental DNA (eDNA) to assess changes in species diversity among mammals, insects, and amphibians.

Envaserv Research Consult was engaged to provide field technicians and collect seasonal samples for eDNA analysis from local swamps and plants.



Net Environmental Benefit Analysis (NEBA)

The Ghana EPA requested a Net Environmental Benefit Analysis (NEBA) for drill cuttings management to support an environmental permit for drilling an appraisal well.

Eni Ghana Exploration and Production Limited engaged Envaserv Research Consult to evaluate four options: (I) in-situ management, (ii) deep-sea management, (iii) onshore management, and (iv) transboundary management.

After assessing risks, impacts, and alternatives using in-house multivariate analysis and risk evaluation, and considering trade-offs the optimal disposal and management option was selected.

Bulk Supply Point (BSP) in Pokuase

The US\$488.2 million Ghana Power Compact, funded by the United States Government through the Millennium Challenge Corporation

(MCC), is supporting the construction of a Bulk Supply Point (BSP) in Pokuasi to enhance power quality in northern Accra. Once completed, the Pokuasi BSP will be the first 330kV bulk supply in Accra and the largest in Ghana. It will be developed under the existing 330kV Abaadze-Volta-Lome Transmission line and will have a total capacity of 580 MVA, featuring four 330/34.5kV 145 MVA power transformers.

The project contractor is Eleanor S.A. of Spain, with SMEC International PTY Ltd. serving as the project engineers.

Envaserv Research Consult provided HSES documentation in accordance with IFC Environmental and Social Performance Standards and Ghanaian legislation to facilitate project commencement.

Waste to Energy (WtoE) Power Plant Project

Renergenic Limited, an Independent Green Power

Producer (IGPP) exploits waste to wealth prospects in Ghana for mutual benefits.

Renergenc approached ERC for an Environmental & Social Impact Assessment (ESIA) and Monitoring Report proposed Waste to Energy (WtoE) Power Plant Project in Ablekuma-Joma, a suburb of Accra.



Karpower offshore Pipeline Survey

The Ghana government intended to improve the power generation capacity utilizing natural gas from the Western corridor offshore Ghana to support industrialization policy.

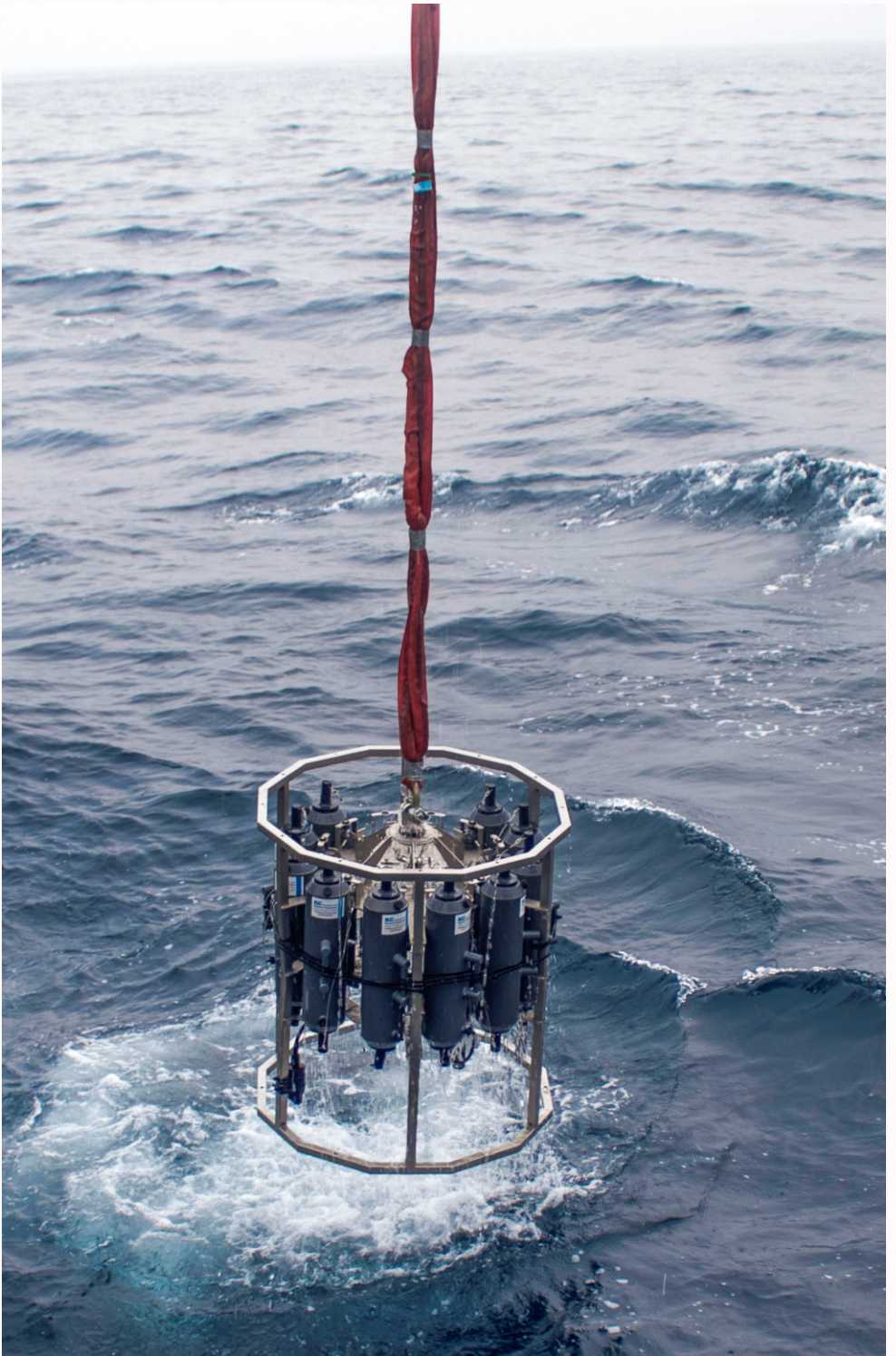
In order to optimize the FEED (Front-end Engineering Design).

Eni Third Party Laboratory Testing

Eni Ghana Exploration and Production Limited engages the Development Project in the Offshore Cape Three Points (OCTP) Block.

ERC was contracted/engaged to provide first-class third-party laboratory testing services for lube oil, condensate, gas, glycol through sampling the indicated fluids, testing, and accurate reporting for relevant feedback on plant conditions to allow for maximizing plant performance.

Additionally, ERC was also required to train Eni's laboratory personnel.



Quality Management:

Risk-Based Thinking: We implement a proactive approach that identifies potential risks and opportunities within our Quality Management System (QMS). This ensures that we continuously adapt and improve our services to meet client needs and industry standards.

Continuous Improvement: Our commitment to excellence drives us to regularly evaluate and enhance our processes, ensuring that we deliver the highest quality services.

Sustainable Practices:

Alignment with Sustainable Development Goals (SDGs): We committed to contributing to the Sustainable Development Goals (SDGs) by fostering economic growth, social inclusion, and ensuring environmental protection in all our operations.

Our proactive sustainability Initiatives reflect this commitment.

ERC actively organizes community and students engagement activities during the World Environment Days, aimed at raising awareness about plastic pollution and promoting sustainable waste management practices. These initiatives involve students and community members to amplify our impact. Additionally, we embrace eco-friendly practices, including tree planting, as part of our environmental stewardship policy.

Commitment to Community and Environment:

We are committed to corporate social responsibility initiatives, such as community training programs, environmental education, or partnerships with local NGOs.

Corporate Social Responsibility (CSR) is a long-standing cultural norm for business entities. We stand by our conviction that we will "do well by doing good".

We actively engage our neighbors, enabling employees to volunteer in the local community with active support and encouragement of the Executive Management.

ERC has built and maintained its Social License to Operate (SLO) since 2011 whilst diversifying and refining business processes to accommodate and add sustainable values to developing markets.



Practical and hands-on training for tertiary students, PhD candidates and industries.



Educational Supporting of Basic School Infrastructure



- Charitable donation to Happy Family Shelter (non-profit organization) providing care, education and support to under-privileged and homeless children.



Innovative Technologies:

We continually innovate our operational methodologies by leveraging the latest technologies, such as GIS mapping for spatial analysis and automated laboratory testing systems.

WHY CHOOSE ERC

Expertise and Experience: Our team comprises highly qualified professionals with extensive experience in environmental consulting and laboratory testing, ensuring that clients receive expert guidance and support.



State-of-the-Art Facilities: Our accredited laboratories are equipped with cutting-edge technology for accurate and reliable testing.



Tailored Solutions: We understand that every project is unique. Our customized approach ensures that our services meet the specific needs of each client.

Customized Solutions: We recognize that each project is unique. Our approach is tailored to address the specific requirements and challenges of our clients.

Commitment to Sustainability: We are dedicated to promoting sustainable practices and solutions that protect our planet for future generations.

Commitment to Safety and Quality: We prioritize safety and quality in our operations, adhering to industry standards and best practices.

Client-Focused Strategies: We prioritize our clients' needs, employing participatory decision-making processes to ensure their perspectives are integrated into our solutions.

CLIENT TESTIMONIALS

QUOTES FROM SATISFIED CLIENTS

“Envaserv Research Consult conducted environmental monitoring on very professional level. The agreed upon time and schedule was upheld and the working team was attentive and always willing to help and advise when requested. The work was conducted as per expected safety standards required and completed safely with reports submitted timeously. Definitely would recommend Envaserv Research Consult to other users” **J. Andrew Storie, Project HSE Manager, Saiwest Limited.**



SAIPEM

“Envaserv Research Consult were attentive to the details of the Project and adept at meeting deadlines. They provided professional advice that considered relevant national and international standards and successfully completed the ESIA addendum and CESMP for the Ghana Bridge Power Project. We will continue to engage Envaserv Research Consult for their tailored environmental services and will recommend them to any party interested in their services” **Richard Badger, Deputy General Manager, Early Power Limited.**



“Any contacts we have had with Envaserv Research Consult has always been handled in a professional manner. In sum, it has been a pleasure doing business with you” **Edward Arthur, Laboratory Services Manager, VALCO.**



Clients Worked for

Oil & Gas

- Eni E&P Limited, Ghana
- Tullow Ghana Limited, Ghana
- Baker Hughes/GE Oil & Gas Limited
- Ghana Gas Company Limited
- Tema Lube Oil Limited
- West African Gas Pipeline Limited, Ghana & Togo
- Tema Oil Refinery, Ghana
- Sri Emas Ghana Limited
- Cassel LHS & Bluefone Limited, Ghana
- Viking Offshore Support Service (Ghana) Limited, Ghana
- Kpone Marine Services Limited, Ghana
- Quantum Oil Terminals Limited, Ghana
- Tema Offshore Mooring Limited, Ghana
- WSP, United Kingdom
- Tema Fuel Trade, Ghana
- Takoradi International Company Limited (TICO)

Manufacturing/Construction

- Continental Blue Investments (CBI) Ghana Limited
- Acieries de Cote D'Ivoire, Cote D'Ivoire
- Mass Industries Limited, Ghana
- Niche Cocoa Limited, Ghana
- Western Rod and Wire Limited
- GHACEM Limited
- Danadams Pharmaceuticals Industry Limited
- Fan Milk Ghana Limited
- Cocoa Touton
- HPW Fresh & Dry Limited
- N.N. EST Metals Company
- Wilmar Africa Limited
- Ghana Specialty Fat Industries Limited
- Ernest Chemist Ghana Limited
- Contracta Limited
- Nutrifoods Ghana Limited
- Scantogo Limited, Togo

Energy

- Elecnor S.A Infraestructuras
- Shenzhen Energy Group, China
- African Plantation & Sustainable Development

- METKA Limited, Greece
- Karpower Ghana Limited,
- AKSA Energy Ghana Limited, Ghana
- All Service Group (ASG)
- Saiwest Limited
- One Energy Company Limited
- Soroma Operations Company Limited
- CenPower Generation
- CenPower Operations
- Amandi Energy Limited
- Volta River Authority, Takoradi
- Volta River Authority, Kpone
- Sunon Asogli (Gh) Power Limited
- Renenerg Limited, Ghana
- Golden Star Wassa Limited, Ghana
- Golden Star Resources, Bogoso
- Prestea Limite Endeavour Mining Limited, Ghana
- Gold Recovery Ghana Limited, Ghana
- TE Power Limited, Guinea
- Asanko Gold Ghana Limited, Ghana
- Great Consolidated Diamond Mine
- Endemic Mining

Telecommunication

- Huawei Technologies Ghana Limited
- Surfline Ghana Limited
- **Mining**
- AngloGold Ashanti Obuasi Limited, Ghana

Agriculture

- AngloGold Ashanti Iduapriem Limited, Ghana
- AngloGold Ashanti Siguru Limited
- Goldfields Ghana Limited, Ghana
- IFDC
- Min of Food and Agriculture
- Cosmos Sea Foods



Call to Action

✉ info@envaservconsult.com

🌐 www.envaservconsult.com

📍 8 Dr Lamptey St Sowutoum Accra



<https://www.linkedin.com/company/envaserv-research-consult-limited>



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<https://twitter.com/Envaserv?s=20>

☎ **+233 302 925 173**

Invitation to Connect:

Contact us today to learn how we can support your environmental, social performance needs and laboratory testing needs! We look forward to partnering with you for a sustainable future.”

