

# ENVIRONMENTAL IMPACT ASSESSMENT: SOCIO-CULTURAL COMPONENT

CEC APPLICATION NO. 5702/2019

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ENVIRONMENTAL IMPACT ASSESSMENT FOR THE ESTABLISHMENT OF A NEW MUNICIPAL WASTE DISPOSAL FACILITY TO INCLUDE AN ENGINEERED SANITARY LANDFILL, MATERIAL RECOVERY FACILITY, LEACHATE COLLECTION AND TREATMENT FACILITY AND ASSOCIATED INFRASTRUCTURE ON 75 HECTARES OF LAND AT KANGAWOOD ROAD, FORRES PARK, CLAXTON BAY



# **KAIRI CONSULTANTS LIMITED**

#### Founded in 1990



Our Range of Work Covers the English-speaking Caribbean, Including Trinidad and Tobago

We Have Considerable Experience in Conducting Social Assessments, Social Planning and Consultation Processes





# THE APPROACH TO THE SOCIO-CULTURAL ASSESSMENT

#### A **MIX METHOD APPROACH** IS BEING USED, CONSISTING OF PARTICIPATORY AND TECHNICAL METHODS

- Understanding the Project Objectives,
   Location, Components and Activities
- Defining the Immediate and Wider ImpactAreas
- Collecting and Reviewing Existing Information
- Identifying and Analysing Stakeholders
- Conducting Baseline Social Surveys and Studies





#### A **MIXED METHOD APPROACH** IS BEING USED, CONSISTING OF PARTICIPATORY AND TECHNICAL METHODS



- Profiling the Existing (Baseline)
   Socio-cultural Environment
- Identifying Potential Risks and Impacts
- Proposing Enhancement and Mitigation Measures
- Developing the Social
   Management System



# BASELINE SOCIO-CULTURAL STUDY

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### **BASELINE STUDIES...** LOCAL AREA AND MUNICIPALITY

- A review of the history of the site in relation to the development of the immediate area and the municipality
- Population and demography of the neighbouring communities and municipality
- Education and health status of the population
- Resource use land, water, recyclables, etc.







### **BASELINE STUDIES...** LOCAL AREA AND MUNICIPALITY

- Local economy employment levels, livelihoods, local businesses
- Physical infrastructure and amenities transport, electricity, water supply, fuel, tec.
- Social infrastructure and services schools, health facilities, social services
- Social networks social activities residents engage in, the places they socialise, their social relations, the role of community organisations, churches, etc.
- Culture Shared Beliefs and Customs, Attitude toward Proposed Development, Cultural Heritage
- Institutions Institutions provide services to residents







**Stakeholder engagement is a key component** of any assessment of the socio-cultural environment!



#### OBJECTIVES OF STAKEHOLDER ENGAGEMENT

- Make stakeholders part of the decision-making process, allowing for more transparent decision making
- Capture the views and local knowledge of the people who know the site and immediate communities (who may be affected or work within these areas) to:
  - improve the design and development of the proposed development.
  - avoid or minimise adverse impacts.
  - where possible, to enhance project benefits.
- Help validate and verify data.









### Key Stakeholder Groups

# APPROACH TO STAKEHOLDER ENGAGEMENT



Document review	Stakeholder identification and mapping	Stakeholder engagement activities	Analysis of results	Reporting of EIA results
<ul> <li>Review of project information</li> <li>Review of existing profiles of target communities and municipality</li> <li>Existing list of community and other stakeholders</li> </ul>	<ul> <li>Identification of stakeholders</li> <li>Stakeholder analysis and mapping</li> <li>Stakeholder Engagement Planning</li> </ul>	<ul> <li>First Public Meeting(s)</li> <li>Interviews and discussions with community experts, public sector, private sector and civil society stakeholders</li> <li>FPM Transcripts and Discussion summaries</li> </ul>	<ul> <li>Identification and prioritisation of development issues and challenges</li> <li>Identification and prioritisation of potential impacts and risks</li> <li>Measure to minimise adverse impacts and to maximise positive impacts</li> </ul>	<ul> <li>Stakeholder engagement report</li> <li>Draft Project Community Engagement Plan &amp; Grievance Redress Mechanism</li> <li>Second public meeting(s)</li> <li>Revision of stakeholder engagement report based on stakeholder feedback</li> </ul>



# Impact Assessment, Mitigation and Management

SWMCO

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#### Nature

- Positive
- Negative

#### Severity

- How long impact last?
- What is the scale of the impact?
- Can it be reversed or not?

#### Sensitivity

• How vulnerable are the different social groups (including social receptors)



Impact

significance

# Social Management Plan: Key Focus Areas

- Mitigation measures, roles and responsibilities and monitoring requirements for each significant negative impact.
- Enhancement measures to maximise benefits in the case of positive impacts.
- Stakeholder Engagement Plan which involves addressing community early warning and emergency response and project grievances.







### PRELIMINARY CONCERNS AND MANAGEMENT OPTIONS

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## DURING CONSTRUCTION OF THE NEW FACILITY

SWMCOL



#### Potential Socio-cultural Concerns and Management Options

Socio-cultural Concern	Management Options
<b>Community Health and</b> <b>Safety</b> due to increased levels of noise and dust, which can affect nearby residents	<ul> <li>a. Include the Management Options for noise and dust concerns.</li> <li>b. Inform nearby residents as to when paving of roads will occur.</li> <li>c. Establish and encourage the residents and the public to use the Project's Grievance Redress Mechanism.</li> </ul>
<b>Local Job Opportunities</b> (creation of employment for neighbouring residents)	<ul> <li>Collaborate with local communities to maximise employment opportunities during construction of the new waste facility.</li> <li>Establish transparent labour hiring practices.</li> <li>Include the employment of local workers, young people, and women.</li> </ul>





#### Potential Socio-cultural Concerns and Management Options

Socio-cultural Concern	Management Options
<b>Increased Road Traffic</b> due to transportation of equipment and materials to and from the project site	<ul> <li>Avoid offloading, stockpiling and parking of vehicles on the road. Provide designated areas for these activities, so as to not affect other users of the road.</li> <li>Use flagmen at the limits of the construction zone to maintain a steady flow of traffic.</li> <li>Inform nearby residents at least one (1) month in advance of construction activities.</li> <li>Inform emergency response services (police, fire and ambulance) about proposed work activities and schedules.</li> </ul>
Damage to Roads and Utilities resulting from trucks and heavy machinery/ equipment traversing to and from the project site	<ul> <li>Inspection of roads and utilities should be done before project activities are scheduled to begin.</li> <li>Establish and advertise the use of the Project's Grievance Redress Mechanism</li> </ul>





### Potential Socio-cultural Concerns and Management Options

Socio-cultural Concern	Management Options
<b>Public Safety</b> (road traffic incidents while hauling equipment and construction materials via roadways to and from the project site	<ul> <li>Strategically place safety warning signs along the roads, in both directions from the project site (reduce speed, construction ahead, no overtaking, no entry, etc.).</li> <li>Ensure construction drivers are adequately trained in defensive driving and cautioned to obey the speed limit and other traffic laws.</li> <li>Arrange for police outriders to escort convoys and long loads to and from the project site.</li> </ul>



# DURING OPERATION OF THE NEW FACILITY



# Potential Socio-cultural Concerns and Management Options



#### Concern

#### **Management Options**

Loss of Livelihoods for Recyclers (collectors and middlemen) due to the reduced recyclable material available as a result of the implementation of the Material Recovery Facility

• Collaborate with collectors and middlemen operating at the landfill to integrate their activities into recycling operations (e.g. employment, subcontracting arrangements, etc.).



# Potential Socio-cultural Concerns and Management Options



	Concern	Management Options
<ul> <li>Community Impacts due to smoke emissions from the landfill</li> <li>Develop and maintain the various components of the facility to international standards, including the leachate collection system, landfill gas collection system, methane gas-monitoring system, landfill liners.</li> <li>Establish the national recycling system in tandem with the establishment of the new municipal waste disposal facility.</li> </ul>	<b>Community Impacts</b> due to smoke emissions from the landfill	<ul> <li>Develop and maintain the various components of the facility to international standards, including the leachate collection system, landfill gas collection system, methane gas-monitoring system, landfill liners.</li> <li>Establish the national recycling system in tandem with the establishment of the new municipal waste disposal facility.</li> </ul>



# Potential Socio-cultural Concerns and Management Options



<ul> <li>Establish a fire prevention/preparedness system at the new facility including the establishment of</li> </ul>	Concern	Management Options
<ul> <li>Community Impacts due to smoke emissions from the landfill</li> <li>Establish a community warning and emergency system to advise neighbouring communities and the travelling public of fires occurring at the facility.</li> </ul>	<b>Community Impacts</b> due to smoke emissions from the landfill	<ul> <li>Establish a fire prevention/preparedness system at the new facility including the establishment of surveillance system of the most flammable sections of the facility during dry periods.</li> <li>Establish a community warning and emergency system to advise neighbouring communities and the travelling public of fires occurring at the facility.</li> </ul>





## Potential Socio-cultural Concerns and Management Options

Concern	Management Options
Altered Aesthetics due to the natural change in the appearance of the landfill when compared to the previous Forres Park Landfill	• A change in the aesthetics as a result of the new sanitary landfill is considered unavoidable, however, the use of neutral colours on buildings, minimizing reflective surfaces, and landscaping of the site will be considered.
<b>Road traffic incidents</b> involving the vehicles moving between the transfer stations and the new facility.	<ul> <li>Strategically place safety warning signs along the roads close to the transfer stations and the waste disposal facility, in both directions (e.g., reduce speed no overtaking, no entry, etc.).</li> <li>Ensure drivers are adequately trained in defensive driving and cautioned to obey the speed limit and other traffic laws.</li> </ul>



#### **END OF PRESENTATION**



