

**MINISTRY OF NATURAL RESOURCES AND  
AGRICULTURE  
AND  
SOLID WASTE MANAGEMENT AUTHORITY**

**SOLID WASTE MANAGEMENT  
PROJECT, BL-L1006**

**QUARTERLY PROGRESS REPORT, FROM  
JANUARY 19<sup>th</sup>, 2015  
ENDING MARCH 31<sup>st</sup>, 2015**

**APRIL 2015**

**GOVERNMENT      BSWaMA      INTER-AMERICAN      UNDP  
OF BELIZE**

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## **1. INTRODUCTION**

### **1.1. Project Component**

The Project consists of:

- (i) the closure of the Burrell Boom dumpsite and the construction of a transfer station and associated works at the same location (Burrell Boom – Hattievile Road).

## **2. PROJECT OBJECTIVES**

### **2.1. Objectives**

To protect human health and the environment locally and globally by reducing releases harmful POPs substances and increasing the capacity for hazardous chemicals and waste management. Proper waste disposal and discontinuation of uncontrolled waste burning with resulting UPOPs emissions at this site will be supported by the project and the GEF co-financing. This, with corresponding measures at the waste sites to separate hazardous and high POPs releasing waste fractions such as electric and computing equipment casings at waste transfer centers will result in considerable POPs release reduction by assisting on funding the closure of the Burrell Boom dumpsite and the construction of a transfer station and associated works.

## **3. PROJECT ORGANIZATION AND ADMINISTRATION**

### **3.1 Key Participants**

The project will be conducted through the National Implementation modality of UNDP (NIM). The Ministry of Forestry, Fisheries and Sustainable Development, will act as the National Implementing Partner, through the Department of Environment, and with the support of UNDP as a GEF Implementing Agency. The Department of Environment will be responsible for directing and managing the project and monitoring compliance with project work plans as a basis for project execution. Within the Department of Environment the Project Management Unit (PMU) will be responsible for the daily implementation of activities, including direct supervision in coordination with UNDP, for all activities that are carried out by the project.

## **4. STATUS OF PROJECT EXECUTION**

### **4.1 Closure of the Burrell Boom dumpsite and the construction of a transfer station and associated works at the same location (Burrell Boom – Hattievile Road);**

The resources allocated to this component will finance the closure of the Burrell Boom dumpsite and the construction of a transfer station and associated works at the same location (Burrell Boom – Hattievile Road);

On January 12<sup>th</sup>, 2015, Contract No. 008/2014-2015 was signed with Imer Hernandez Development Company Ltd. for the closure works of the Burrell Boom dumpsite and the

construction of a transfer station and associated works. The contracted period to execute and complete the entire scope of works is from January 19<sup>th</sup>, 2015 to August 30<sup>th</sup>, 2015.

#### **4.1.1 Closure of open dumpsite scope of works:**

Garbage in the active part of the dumpsite will be consolidated and covered in place. This will take place progressively as the transfer station is being constructed. The final closure will entail the placement of 10 inch thick layer of compacted clay over the consolidated and compacted garbage; seven (7) gas vents will be spaced uniformly within the closure area after the waste has been capped.



Consolidated waste at location of the active dumpsite

#### **Closure of open dumpsite current status:**

During the reporting period the following were completed:

- The site was cleared from vegetation, trees, bush and other debris;
- The garbage was compiled, centralized as directed on the set of plans.

#### **4.1.2 Transfer Station building scope of works:**

- Construction of 78ft x 61ft enclosed transfer station building erected on piles with corresponding pile caps;
- in situ cast beams and prestressed beams; flooring consisting of precast double tees and 3” reinforced concrete floor topping;
- walls consisting of 8 inch cavity filled cement blocks, plastered and 8 ft in height;
- metal structure consisting of steel columns, side wall framing with chainlink, roof frame and roof sheeting; gutters and piping;
- two access ramps – entrance/exit;
- sheet metal framed hopper for loading of solid waste;
- electrical installation and water connection;
- passive roof ventilators;
- block wall painting;
- leachate tank to receive contaminated water after wash down of the station.



Transfer Station pile in place

### **Transfer Station building current status:**

During this reporting period the following works were completed:

- Approximately 5,544 cubic yards of clay fill has been provided, spread and compacted.
- 44 piles were fabricated and transported to the site;
- Truck Crane was mobilized, all 44 piles for the Transfer Station Building were driven and cut down to their specific elevation;
- Began pile caps form works, steel works and in-situ concrete pouring for the same pile caps.

The Transfer Station is 26.90% completed.

### **4.1.3 Admin building/ Security area scope of works:**

Construction of 20ft x 14 ft administrative office building erected on reinforced concrete strip foundations; backfilled 5" thick reinforced concrete floor slab; 6" cement block walls; aluminum framed windows; mahogany doorframes and doors; wooden framed roof and sheet metal roofing; gutters and piping; tile works in all interior spaces; exterior and interior painting; interior spaces – general office, one kitchenette, one staff rest room, annexed separate a recyclers rest room; electrical and plumbing installations; 655 gallons portable Rotoplas tank to be connected to provide water to the administration building; two ceiling fans; interior and exterior lighting; septic tank system; five parking spaces.



Administration Building Construction Progress



Administration Building Septic Tank

**Admin building/ Security area current status:**

- The area of the Admin building was set out, excavated and unsuitable material was taken out;
- Steel and form works for the strip foundation;
- In-situ concrete pouring for the strip foundation;
- Sand backfilled was compacted with in 2 rows of 8 inch blocks which were layed above the strip foundation;
- 5 inch thick reinforced concrete floor slab was poured in-situ;
- 6 inch cement block walls has been erected to 100% completed.
- Septic system has been 90% completed.

The Administration office total percentage is 35% completed.

**4.1.4 Storage Area scope of works:**

Hazardous waste storage structure (reinforced concrete strip foundation and reinforced concrete floor) which contains a drainage to its own leachate collection tank; and two other

areas adjacent for recyclables with hardcore topping. Enclosed by 3ft-2inch in height 6 inch thick masonry wall with open entrance.

**Storage area current status:**

- 0% of works completed.

**4.1.5 Material Drop off Facility (MDF) scope of works:**

This is attached to the Transfer Station building which includes 8, (50 gallon) bins and a baler .

**Material Drop off Facility current status:**

- 0% of works completed.

**4.1.6 Internal access road, deceleration lanes and intersection, signage and drainage scope of works:**

Construction of a onsite access road consisting of 6 inch compacted base, 6 inch compacted sub-base and varying thickness of compacted structural fill. The access road is connected to the two ramps and also provides access to the parking area, material drop off and storage areas.

Drainage - 3 single 24" diameter PVC culvert complete with end structures; 1 single 18" diameter PVC culvert complete with end structures; 1 single 48" diameter reinforced concrete culvert complete with end structures at the entrance.

Signage - A one way sign will be placed in the internal road, passing the administration building; a stop sign at the entrance facing in the way out of the facility; speed bumps signs and T junction signs will be installed approximately 200 yards in both direction coming to the facility. Speed bumps will be installed 100 yards in both directions away from the facility.

Perimeter chainlink fence - complete with barbed wire strands, braces and foundation.

**Internal access road, deceleration lanes and intersection, signage and drainage work, perimeter chainlink fence, current status:**

- The internal access road setting out was done.
- No work has been done regarding the deceleration lanes and intersection, signage, drainage and perimeter chainlink fence with barb wire strands.

## 5. PROJECT FINANCIAL EXECUTION

MINISTRY OF NATURAL RESOURCS AND AGRICULTURE				
SOLID WASTE MANAGEMENT PROJECT BL-L1006				
INFRASTRUCTURE WORKS				
Project: Closure of Burrell Boom Dump Site and Construction of Transfer Station and Associated Works				
Contract No. 008/2014-2015				
Contractor: Imer Hernandez Development C. Ltd.				
Start Date: January 19, 2015				
End Date: August 30, 2015				
Cash Flow Projection by Source of Funding				
Contract Value				BZ\$1,280,623.15
Payments				
Month	IDB	UNDP	Month's Total	Balance
Jan-15	BZ\$256,124.63	BZ\$0.00	BZ\$256,124.63	BZ\$1,024,498.52
Mar-15	BZ\$209,865.36	BZ\$0.00	BZ\$209,865.36	BZ\$814,633.16
Mar-15	BZ\$102,381.34	BZ\$0.00	BZ\$102,381.34	BZ\$712,251.82
Apr-15	BZ\$12,251.82	BZ\$150,000.00	BZ\$162,251.82	BZ\$550,000.00
May-15	BZ\$0.00	BZ\$150,000.00	BZ\$150,000.00	BZ\$400,000.00
Jun-15	BZ\$0.00	BZ\$120,000.00	BZ\$120,000.00	BZ\$280,000.00
Jul-15	BZ\$0.00	BZ\$100,000.00	BZ\$100,000.00	BZ\$180,000.00
Aug-15	BZ\$0.00	BZ\$180,000.00	BZ\$180,000.00	BZ\$0.00
total	BZ\$580,623.15	BZ\$700,000.00		



## 6. MONITORING AND EVALUATION

The project will generate a set of outputs and outcomes that will be monitored.

Monitoring and Evaluation should give:

- (i) Report on progress and compliance with environmental and social performance indicators established in the amended Environmental Compliance Plan (ECP) to be prepared and signed by DOE with the SWaMA.

*Status:* *The Department of the Environment had not visited the facility during the reporting period. However, surface water and leachate have been sampled for analysis on March 2015 as per the requirements of the ECP.*

- (i) Report on achievement of the technical performance indicators.

*Status:* *these will be reported in the Results Framework.*

## 7. CONCLUSIONS

For the period of January 12<sup>th</sup> to March 31<sup>st</sup>, 2015, of the total actual expenditure/investment, infrastructure accounted for 33.83% that is **BZ\$446,066.70** out of the **BZ\$1,280,623.15**. Remaining portion of IDB funds is 2.11% that is BZ\$12,251.82 out of the BZ\$580,623.15. The projected disbursements funds from the UNDP initiates on the Month of **April 2015** and ends on **August 2015**.

Cumulatively, from the start of the Project to March 31<sup>st</sup>, 2015, infrastructure has accounted for **44.38%** of the total funds invested. From this perspective, the distribution by funding agency is as follows: **IDB 45.34%**, **UNDP 54.66%**. In terms of the percentage invested from the funds provided by each funding source, to date 97.89%, of BZ\$580,623.15 has been invested from the IDB; 0% of BZ\$700,000.00 from UNDP.

Surface water and leachate have been sampled and monitored on March 2015 as per the requirements of the ECP.