

## **Martha Brae Water Treatment Plant**

- The Martha Brae Treatment Plant was originally commissioned in 1987.
- Major works to rehabilitate and upgrade the system extending service to nearby Duncans and to increase production capacity to 6 mgd began in 2005 and was completed in November 2006.
- In May 2005 improvement works began to extend the supply eastwards to Runaway Bay in St. Ann. These works were completed in November 2008.
- Further rehabilitation of the plant was completed in February 2015. The production capacity was expanded by an additional 5 mgd
- The plant now has a capacity of 11 million gallons per day which represents 6mgd from the old side and 5mgd from the new side of the plant.

### **Description of the plant**

- A raw water pumping station with three installed pumps of 75 HP each with 100% electrical standby capacity
- A combined 11 mgd capacity treatment plant involving settling, flocculation, coagulation, clarification and rapid gravity filtration systems
- A half million gallon treated water reservoir fully fitted with pumps and 100% electrical standby generating diesel unit
- A 32" diameter transmission pipeline connected to the Terminal and Appleton Hall Reservoirs in Montego Bay
- 22 km of 500 mm diameter pipeline running alongside the highway from the water treatment plant in Martha Brae to serve communities in St. Ann, Trelawny and St. James

### **Areas Served**

- St. James - Greenwood, Rose Hall, Coral Gardens, Ironshore, Rhyne Park, Spot Valley, Cornwall, Mt. Zion, Palmyra, Saigon, Barrett Town, and Providence, Norwood, Glendevon, in St. James.
- Trelawny – Green Park, Schawfield, Silver Sands, Duncan's Bay, Carey Park, Stewart Castle, Salt Marsh, Davis Pen, Stonebrook Vista, Florence Hall Village, Coral Spring Village, Wiltshire, Hague, Hague Housing scheme, Hammersmith and Retreat Heights in Trelawny and

- St. Ann – Discovery Bay, Bridgewater Heights, Primrose Hill, Lakeside Park, Hopewell Park and Old Folly in St. Ann.

### Summary of Benefits Derived from Expansion

- Improvement in level of service to existing customers and new areas
- Provided opportunity for resort tourism type developments in areas between Trelawny and Montego Bay
- Improved efficiency of operations

