

METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM RISK MANAGEMENT PLAN

RISKS	MITIGATING MEASURES
1) El Nino Phenomenon	<ul style="list-style-type: none"> ▪ Optimization of the use of La Mesa Reservoir including intervening flows at Ipo Dam, and washwater recovery in the water treatment plants. ▪ Supply, demand and pressure management. ▪ Mobilization of water tankers and mobile/package water treatment plant. ▪ Recovery of non-revenue water (leak repairs) and reactivation of deepwells. ▪ Development of new water source as a redundancy to the existing Angat Dam, the only current source of domestic supply. ▪ Improvement and rehabilitation of existing raw water transmission system which aims to improve the reliability and security of the raw water conveyance from Ipo Dam to La Mesa.
2) Flooding	<ul style="list-style-type: none"> ▪ Deployment and operation of mobile water treatment plant, and static/mobile water tanker to flooded area. ▪ Development of disaster preparedness plan and conduct regular drills/trainings.
3) Earthquake	<ul style="list-style-type: none"> ▪ Implementation of the Angat Dam and Dyke Strengthening Project (ADDSP) intended to strengthen the Angat Dam and Dyke in order to ensure its stability and safety to withstand the potential risk posed by possible seismic activity associated with the West Valley Fault. ▪ Engagement of experts to conduct probabilistic seismic hazard study and assessment of critical facilities. ▪ Rehabilitation and retrofit of major transmission lines and headworks, including the application of seismic-resilient materials and state-of-the-art technologies. ▪ Development of disaster preparedness plan and conduct regular drills/trainings.
APPLICABLE TO ALL RISKS	<ul style="list-style-type: none"> • Activation of Crisis Management Team including coordination with concerned agencies. ▪ Procurement of additional equipment such as emergency mobile water treatment units, tankers, anti-seismic storage facilities, and other emergency equipment.