

DRAFT

CITY OF HALLANDALE BEACH ECONOMIC EVALUATION OF WATER SUPPLY OPTIONS 20 YEAR NPW AT 5% INTEREST RATE , \$0.11/kWhr					
OPTION		OPERATING	CAPITAL	TOTAL PW	RISKS
1	Treat RWS with existing NF and purchase 2.5 mgd from NMB at \$1.65 per 1,000 gallons purchase price	\$ 42,460,000	\$ 1,250,000	\$ 43,710,000	must lock in purchase price loss of control of water treatment must increase size of interconnect limited time period for purchases
2	Treat all water thru membranes Treat BCRWS with existing NF and treat wells 7 & 8 with 2A new RO skids (construct)	\$ 30,450,000	\$ 6,850,000	\$ 37,300,000	costs will increase with electricity costs
2B	Treat BCRWS with existing NF and treat BCRWS with new NF skids (construct)	higher	lower	similar	full reliance on BCRWS no control of raw water
3	Construct new wellfield in West Park and treat with existing NF and LS				limited control of wellfield protection program
3A	assume 50/50 split produces quality water	\$ 27,860,000	\$ 8,500,000	\$ 36,360,000	contamination risk (dry cleaner solvents, pesticides, fertilizers)
3B	assume 75/25 required	higher	same	higher	water quality is lower than City wells responsible for water sampling for compliance with GWR
Phase 1	Rehab existing standby wells as needed	\$ -	\$ 300,000	\$ 300,000	
Option A	Salinity barrier effective				
Phase 2	Install new Bicyane well, continue existing treatment	\$ 25,520,000	\$ 1,400,000	\$ 26,920,000	
Option B	Salinity barrier ineffective				
Phase 2	Engineering for RO train and enhanced lime softening	\$ -	\$ 750,000	\$ 750,000	
Phase 3	Construct RO train and lime softening improvements	\$ 28,140,000	\$ 5,470,000	\$ 33,610,000	process risks for RO and LS treatment