## REFINEMENT OPTIONS -- ESTIMATED CAPITAL COSTS

Authorized CSO Remedial Measures Plan (Based on Current Pre-design Costs)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (From RMR – due to increased sanitary flow in East)  Say million  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Say of			<b>Estimated Capital Cost</b>
Authorized CSO Remedial Measures Plan (Based on Current Pro-design Costs)  Sewer Separation (from City's Pro-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Pechanisation at Existing CSO Facilities (Pre-design Report)  Tannel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intreachment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Report)  Sala million  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sala million  Parametric Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (RMR – ratio of % of separation)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (Rm RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 4 – 80% Separati	Λ 111	thorized CSO Remedial Massures Plan (July 2001)	\$053 million
Sewer Separation (from Ciry's Pre-design Consultant)  Tunnel Storage and CSO Dump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Repunsion to Intrenchment Creek WRC (from RNR – due to increased sanitary flow in East)  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Separation (Irom City's Pre-design Combined Sewers (from RNR – ratio of % of separation)  Expansion to Intrenchment Creek WRC (from RNR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RNR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sanillion  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sanillion  Expansion to Internchment Creek WRC (from RNR – fact of increased sanitary flow in East)  Expansion to Internchment Creek WRC (from RNR – fact of increased sanitary flow in East)  Expansion to Internchment Creek WRC (from RNR – fact of increased sanitary flow in East)  Expansion to Internchment Creek WRC (from RNR – fact of increased sanitary flow in East)  Sanitary (Sanitary Russian)  Expansion to Internchment Creek WRC (from RNR – fact of increased sanitary flow in East)  Sanitary (Sanitary Russian)  Sanitary (Sanitary Russian)  Expansion to Internchment Creek WRC (from RNR – due to increased sanitary flow in East)  Sanitary (Sanitary Russian)  Sanitary (Sanitar	Au	morized C50 Achiedai Measures Fian (July 2001)	\$755 Hillion
Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-Chlorination at Existing CSO Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR — ratio of % of separation)  Total Estimated Capital Costs  S989 million  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-Chlorination at Existing CSO Facilities (Pre-design Report)  Sewer Separation (Interchement Creek WR (from RMR — due to increased sanitary flow in East)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (Rast Area)  Sewer Separation (Interchement Creek WR (from RMR — due to increased sanitary flow in East)  Refinement Option No. 2 – 40% Separation (Rast Area)  Sewer Separation (Interchement Creek WR (Irom RMR — facilities (Pre-design Report)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (Rast Area)  Sewer Separation (Irom City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (Rast Area)  Sewer Separation (Irom City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (Rast Area)  Sewer Separation (Irom City's Pre-design Consultant)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Internchement Creek WR (Irom RMR – due to increased sanitary flow in East)  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (Irom City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (Irom City's Pre-design Consultant)  Separation (Irom City's Pre-design Consultant)  Refinement Option No. 4 – 80% Separation (Irom RMR – ratio of % of separation)  Refinement Option No. 5 – 80% Separation (Irom RMR – ratio increased sanitary flow in East)  Refinement O	Au	thorized CSO Remedial Measures Plan (Based on Current Pre-design Costs)	
Deschlorination at Existing CSO Facilities (Pre-design Report)     Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Capacity Relief Repairs to Existing Combined Sewers (from RMR – antio of % of separation)     Total Estimated Capital Costs     S989 million  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)     Sewer Separation (from City's Pre-design Consultant)     Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)     Sexum Station at Existing CSO Facilities (Pre-design Report)     Separation of Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Separation of Intrenchment Creek WRC (from RMR – and to five Separation)     Total Estimated Capital Costs     S843 million  Refinement Option No. 2 – 40% Separation (East Area)     Sewer Separation (from City's Pre-design Consultant)     Tunnel Storage and CSO Dymp Station and Treatment Facilities (Pre-design Report)     Statisting CSO Facilities (Pre-design Report)     Statisting CSO Facilities (Pre-design Report)     Separation to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Deschlorination at Existing CSO Facilities (Pre-design Report)     Statisting CSO Facilities (Pre-design Report)     Separation (from City's Pre-design Consultant)     Deschlorination at Existing CSO Facilities (Pre-design Report)     Separation (from City's Pre-design Consultant)     Sewer Separation (from City's Pre-design Consultant)     Separation (from City's Pre-design Consult	•	Sewer Separation (from City's Pre-design Consultant)	\$153 million
Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Dymp Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (Trom City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief (Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief (Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Expansion to Internchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (from City's Pre-design Report)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 4 – 80% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Sewer Separation (from City's Pre-design Consultant)  Capacity Relief (Repairs	•	Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)	
Capacity Relief /Repairs to Existing Combined Sewers (from RMR - ratio of % of separation)   \$989 million   Total Estimated Capital Costs   \$989 million   Total Estimated Capital Costs   \$989 million   Refinement Option No. 1 - 27% Separation (Greensferry, McDaniel, Stockade)   \$153 million   Dec-Robination at Existing CSO Facilities (Pre-design Report)   \$522 million   Dec-Robination at Existing CSO Facilities (Pre-design Report)   \$77 million   Dec-Robination at Existing CSO Facilities (Pre-design Report)   \$77 million   \$70	•		
Refinement Option No. 1 – 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  S522 million  De-chlorination at Existing CSO Facilities (Pre-design Report)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sever Separation (From City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – antio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Internchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Internchment Creek WRC (from RMR – and to increased sanitary flow in East)  Sewer Separation (From Charles (Fre-design Report)  Separation (From Charles (Fre-design Consultant)  Expansion to Internchment Creek WRC (from RMR – and to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Internchment Cre	•	•	, and the second
Refinement Option No. 1 - 27% Separation (Greensferry, McDaniel, Stockade)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RNR – due to increased sanitary flow in East)  Capacity Relief / Repairs to Existing Combined Sewers (from RMR – due to increased sanitary flow in East)  Refinement Option No. 2 - 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Separation (From City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Salva million  Total Estimated Capital Costs  Sp12 million  Refinement Option No. 3 - 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Salva million  Refinement Option No. 3 - 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Salva million  Refinement Option No. 3 - 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Salva million  Capacity Relief / Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Salva million  Total Estimated Capital Costs  Refinement Option No. 4 - 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Separation of Separation (All but Downtown Urban Core)  Sewer Separation (From City's Pre-design Consultant)  Capacity Relief / Repairs	•		
Sewer Separation (from City's Pre-design Consultant)  De-chlorination at Existing CSO Pacifities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Consultant)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pr		Total Estimated Capital Costs	\$989 million
Sewer Separation (from City's Pre-design Consultant)  De-chlorination at Existing CSO Pacifities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Consultant)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sever Separation (from City's Pre-design Consultant)  Sever Separation (from City's Pr	Refinement Ontion No. 1 _ 27% Senaration (Greensferry McDaniel Stockade)		
Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – tation of % of separation)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sal million  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sewer Separation (from City's Pre-design Consultant)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)  Sewer Separation (from City's Pre-design Consultant –			\$153 million
De-chlorination at Existing CSO Facilities (Pre-design Report)     Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)     Total Estimated Capital Costs     Sass million  Refinement Option No. 2 – 40% Separation (East Area)     Sewer Separation (from City's Pre-design Consultant)     Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)     De-chlorination at Existing CSO Facilities (Pre-design Report)     Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)     Total Estimated Capital Costs     Sp12 million  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)     Sewer Separation (from City's Pre-design Consultant)     Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)     Sasser Separation (from City's Pre-design Consultant)     Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)     Sewer Separation (from City's Pre-design Consultant)     De-chlorination at Existing CSO Facilities (Pre-design Report)     Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)     Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)     Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)     Sewer Separation (from City's Pre-design Consultant)     Total Estimated Capital Costs     Soft million  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)     Sewer Separation (from City's Pre-design Consultant)     Total Estimated Capital Costs     Soft million     Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)     E	•		\$522 million
Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (From City's Pre-design Consultant)  Sewer Separation (From City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (From City's Pre-design Consultant)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Sewer Separation (From City's Pre-design Consultant)  Capacity Relief (Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Expansion to Intrenchment Creek WRC (from RMR – ratio of % of separation)  Capacity Relief (Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Sewer Separation (From City's Pre-design Consultant)  Capacity Relief (Repairs to Existing Combined Sewers (from RM	•		\$7 million
Refinement Option No. 2 – 40% Separation (East Area)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sewer Separation (from City's Pre-design Consultant)  Capacity Relief /Repairs to Existing Combined Sewer (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Sever Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Sever Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – ratio of % of separation)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)	•		\$35 million
Refinement Option No. 2 – 40% Separation (East Area)	•	Capacity Relief / Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)	\$117 million
Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing CSO Facilities (Pre-design Report)  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Separation (Separate Entire Combined Sewers (from RMR – ratio of % of separation)  Separation (Separate Entire Combined Sewers (from RMR – ratio of % of separation)  Separation (Inform City's Pre-design Consultant – assumes urban core = 2 times cost)  Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)  Separation (Inform City's Pre-design Consultant – assumes urban core = 2		Total Estimated Capital Costs	\$834 million
Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing CSO Facilities (Pre-design Report)  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Separation (Separate Entire Combined Sewers (from RMR – ratio of % of separation)  Separation (Separate Entire Combined Sewers (from RMR – ratio of % of separation)  Separation (Inform City's Pre-design Consultant – assumes urban core = 2 times cost)  Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)  Separation (Inform City's Pre-design Consultant – assumes urban core = 2	ъ.	P	
<ul> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Semantia of International Activities (Pre-design Report)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – atio of % of separation)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – atio of % of separation)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – atio of % of separation)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>De-chlorination at Existing CSO Faciliti</li></ul>			\$210 million
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<ul> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>S92 million</li> <li>Total Estimated Capital Costs</li> <li>8912 million</li> <li>Refinement Option No. 3 – 50% Separation (East Area + Greensferry)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Sund Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>S44 million</li> <li>Total Estimated Capital Costs</li> <li>S906 million</li> <li>Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>\$1,264 million</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>\$1,264 million</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>So million</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>So million</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – rat</li></ul>			
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Refinement Option No. 3 – 50% Separation (East Area + Greensferry)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Tunnel Storage and CSO Pacilities (Pre-design Report)  Sasymillion  Total Estimated Capital Costs  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Total Estimated Capital Costs  S1,264 million  Total Estimated Capital Costs  S3,00 million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  S27 million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  S38 million  Total Estimated Capital Costs  S1,047 million  Total Estimat		•	· ·
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<ul> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Sewer Separation (100% Tunnel Storage and Treament System)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Sewer Separation (from City's Pre-design Consul</li></ul>		•	
<ul> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Be-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Sp63 million</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Somillion at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Somillion</li> <li>Expansion to Intrenchment Creek WRC (from RMR – ratio of % of separation)</li> <li>Somillion</li> <li>Expansion to Intrenchment Creek WRC (from RMR – ratio of % of separation)</li> <li>Somillion Somillion at Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Somillion at Existing Combined Sewers (from RMR – rat</li></ul>	Ref		****
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<ul> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (Separate Entire Combined Sewer Area)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Sp63 million</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Bepansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>\$1,047 million</li> <li>Wesperation (100% Tunnel Storage and Treatment System)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>Sp0 million</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Sp0 million</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)<td></td><td></td><td>· ·</td></li></ul>			· ·
• Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  *\$996 million  Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  • Sewer Separation (from City's Pre-design Consultant)  • Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  • Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  • Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  • Total Estimated Capital Costs  100% Separation (Separate Entire Combined Sewer Area)  • Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)  • De-chlorination at Existing CSO Facilities (Pre-design Report)  • De-chlorination at Existing CSO Facilities (Pre-design Report)  • De-chlorination at Existing CSO Facilities (Pre-design Report)  • Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  • Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  • Total Estimated Capital Costs  **Stationary flow in East)  • Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  • Total Estimated Capital Costs  **Stationary flow in East)  • Sewer Separation (from City's Pre-design Combined Sewers (from RMR – ratio of % of separation)  • Total Estimated Capital Costs  **Stationary flow in East)  • Sewer Separation (from City's Pre-design Combined Sewers (from RMR – ratio of % of separation)  • Sewer Separation (from City's Pre-design Report)  • Sewer Separation (from City's Pre-design Report)  • De-chlorination at Existing CSO Facilities (Pre-design Report)  • Capacity Relief /Repairs to Existing			
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Refinement Option No. 4 – 80% Separation (All but Downtown Urban Core)  Sewer Separation (from City's Pre-design Consultant)  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  Total Estimated Capital Costs  100% Separation (Separate Entire Combined Sewer Area)  Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)  Sewer Separation at Existing CSO Facilities (Pre-design Report)  Sewer Separation at Existing CSO Facilities (Pre-design Report)  De-chlorination at Existing CSO Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing CSO Facilities (Pre-design Report)  So million  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)  Total Estimated Capital Costs  1,047 million  O% Separation (100% Tunnel Storage and Treament System)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (from City's Pre-design Consultant)  So million  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)  Sewer Separation (from City's Pre-design Consultant)  Sewer Separation (Itoo% Tunnel Storage and Treament System)  So million  Capacity Relief /Repairs to Existing CSO Facilities (Pre-design Report)  So million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  So million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)  So million	•		
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<ul> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Sewer Separation (Separate Entire Combined Sewer Area)</li> <li>Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation)</li> <li>Total Estimated Capital Costs</li> <li>Separation (100% Tunnel Storage and Treament System)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Sewer Separation (from City's Pre-design Consultant)</li> <li>Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>De-chlorination at Existing CSO Facilities (Pre-design Report)</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Omillion</li> <li>Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East)</li> <li>Omillion</li> </ul>	Ref		
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Total Estimated Capital Costs \$1,264 million  100% Separation (Separate Entire Combined Sewer Area)  Sewer Separation (from City's Pre-design Consultant – assumes urban core = 2 times cost) \$963 million  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report) \$0 million  De-chlorination at Existing CSO Facilities (Pre-design Report) \$0 million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East) \$84 million  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation) \$0 million  Total Estimated Capital Costs \$1,047 million  O% Separation (100% Tunnel Storage and Treament System)  Sewer Separation (from City's Pre-design Consultant) \$0 million  Tunnel Storage and CSO Pump Station and Treatment Facilities (Pre-design Report) \$677 million  De-chlorination at Existing CSO Facilities (Pre-design Report) \$9 million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East) \$0 million  Expansion to Intrenchment Creek WRC (from RMR – due to increased sanitary flow in East) \$0 million  Capacity Relief /Repairs to Existing Combined Sewers (from RMR – ratio of % of separation) \$143 million			
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