

Appendix A

Bulls Maps

Appendix A Figures List

Figure	Description
1.1.1	Bulls Existing Water Supply System Performance
1.1.2	Bulls Existing Fire Flow System Performance
1.2.1	Bulls Existing Wastewater Network Performance - Dry Weather Flow
1.2.2	Bulls Existing Wastewater Network Performance - Wet Weather Flow
1.3	Bulls Stormwater Rapid Flood Hazard Assessment
2.1.1	BUL01 Water Supply System Performance
2.1.2	BUL01 Water Supply Option 2 Upgrade Map
2.1.3	BUL01 Water Supply Option 2 System Performance with Proposed Upgrades
2.1.4	BUL01 Option 2 Fire Flow with Proposed Upgrades
2.2.1	BUL01 Wastewater Network Performance - Dry Weather Flow
2.2.2	BUL01 Wastewater Network Performance - Wet Weather Flow
3.1.1	BUL02 Water Supply System Performance
3.1.2	BUL02 Water Supply Option 1 Upgrade Map
3.1.3	BUL02 Water Supply Option 1 System Performance with Proposed Upgrades
3.1.4	BUL02 Water Supply Option 1 Fire Flow with Proposed Upgrades
3.1.5	BUL02 Water Supply Option 2 Upgrade Map
3.1.6	BUL02 Water Supply Option 2 System Performance with Proposed Upgrades
3.1.7	BUL02 Water Supply Option 2 Fire Flow with Proposed Upgrades
3.2.1	BUL02 Wastewater Network Performance - Dry Weather Flow
3.2.2	BUL02 Wastewater Network Performance - Wet Weather Flow
3.2.3	BUL02 Wastewater Network with Upgrades - Wet Weather Flow
4.1.1	BUL03 Water Supply System Performance
4.1.2	BUL03 Fire Flow with Proposed Upgrades
4.2.1	BUL03 Wastewater Network Performance - Dry Weather Flow
4.2.2	BUL03 Wastewater Network Performance - Wet Weather Flow
5.1.1	Bulls Infill Water Supply System Performance
5.1.2	Bulls Infill Water Supply Upgrades
5.1.3	Bulls Infill Fire Flow (Option 1)
5.1.4	Bulls Infill Water Supply Option 2 Upgrade Map
5.1.5	Bulls Infill Water Supply System Performance with Proposed Upgrades (Option 2)
5.1.6	Bulls Infill Fire Flow with Proposed Upgrades (Option 2)
5.2.1	Bulls Infill Wastewater Network Performance - Dry Weather Flow
5.2.2	Bulls Infill Wastewater Network Performance - Wet Weather Flow
5.3	Bulls Infill Stormwater Rapid Hazard Assessment

Figure 1.1.1 Bulls Existing Water Supply System Performance

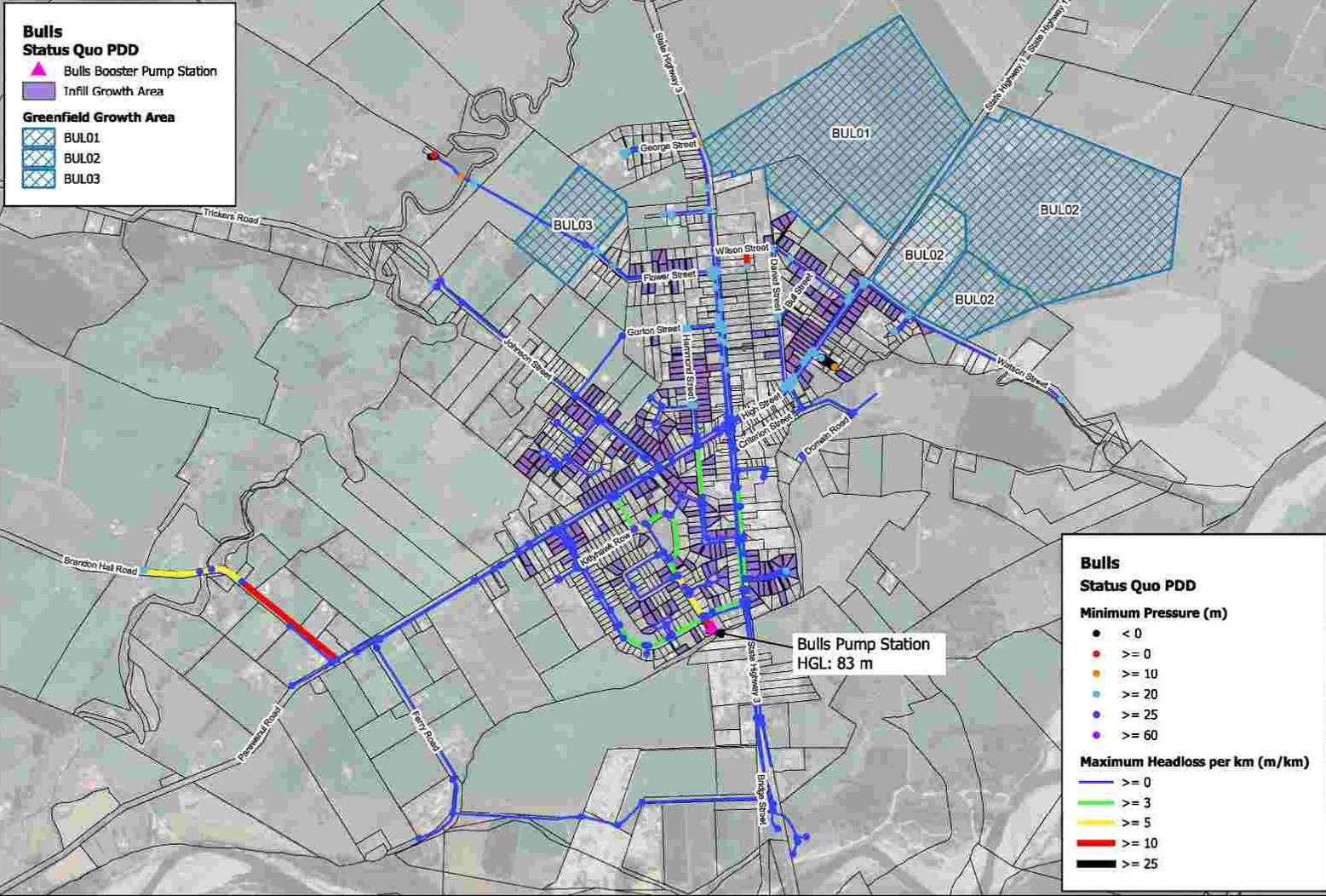


Figure 1.1.2 Bulls Existing Fire Flow (FW2) Assessment

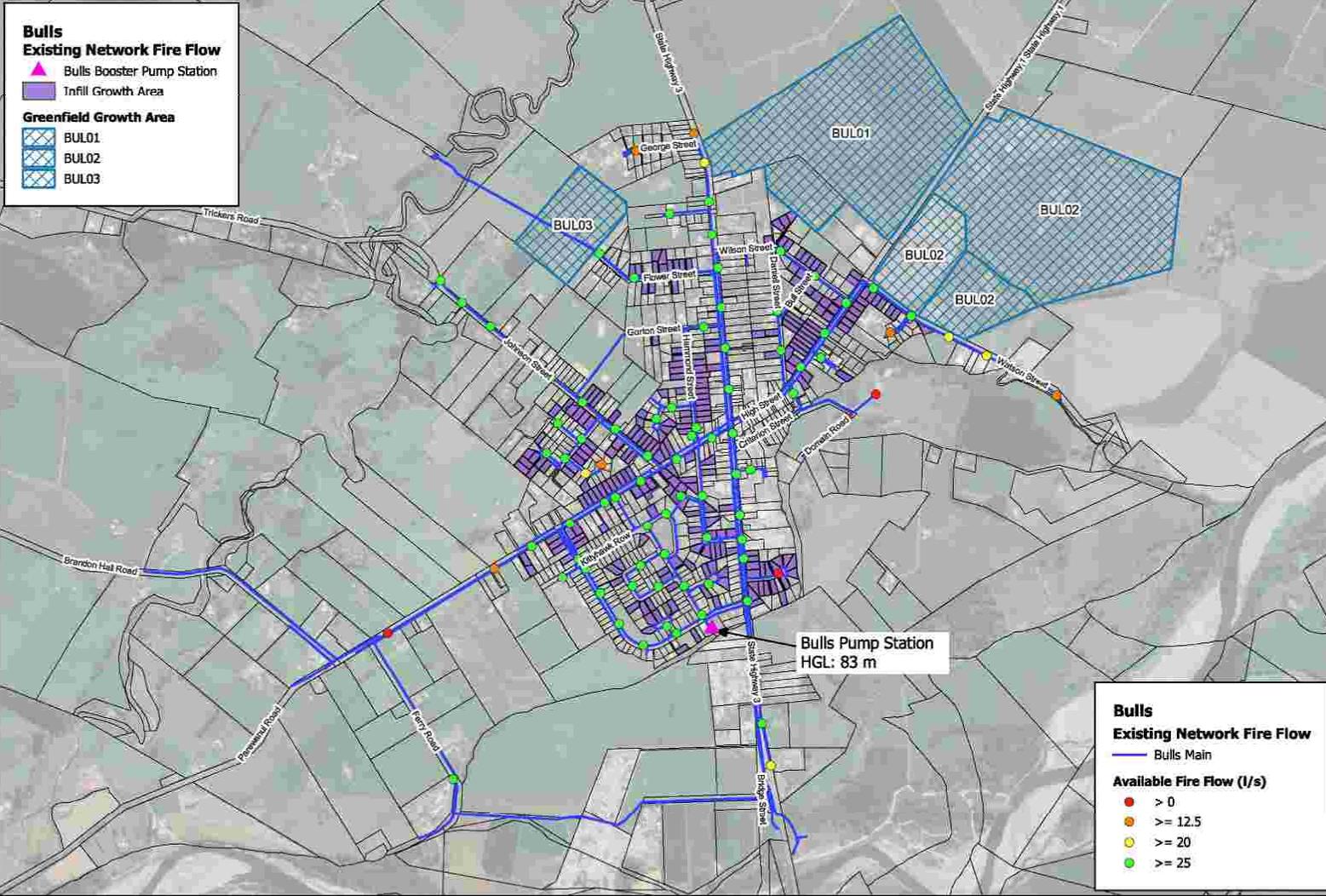


Figure 1.2.1 Bulls Existing Wastewater Network Performance - Dry Weather Flow

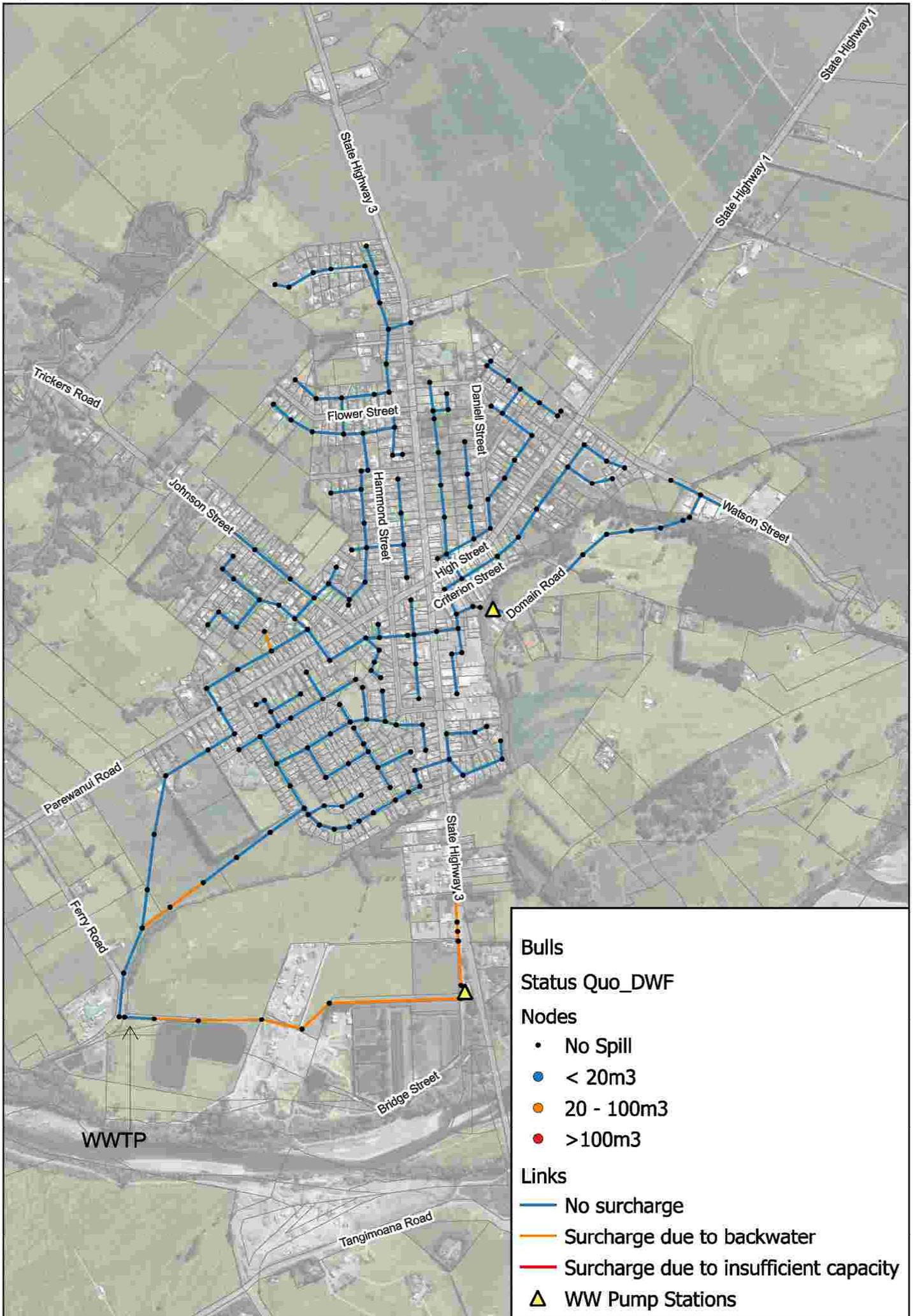


Figure 1.2.2 Bulls Existing Wastewater Network Performance - Wet Weather Flow

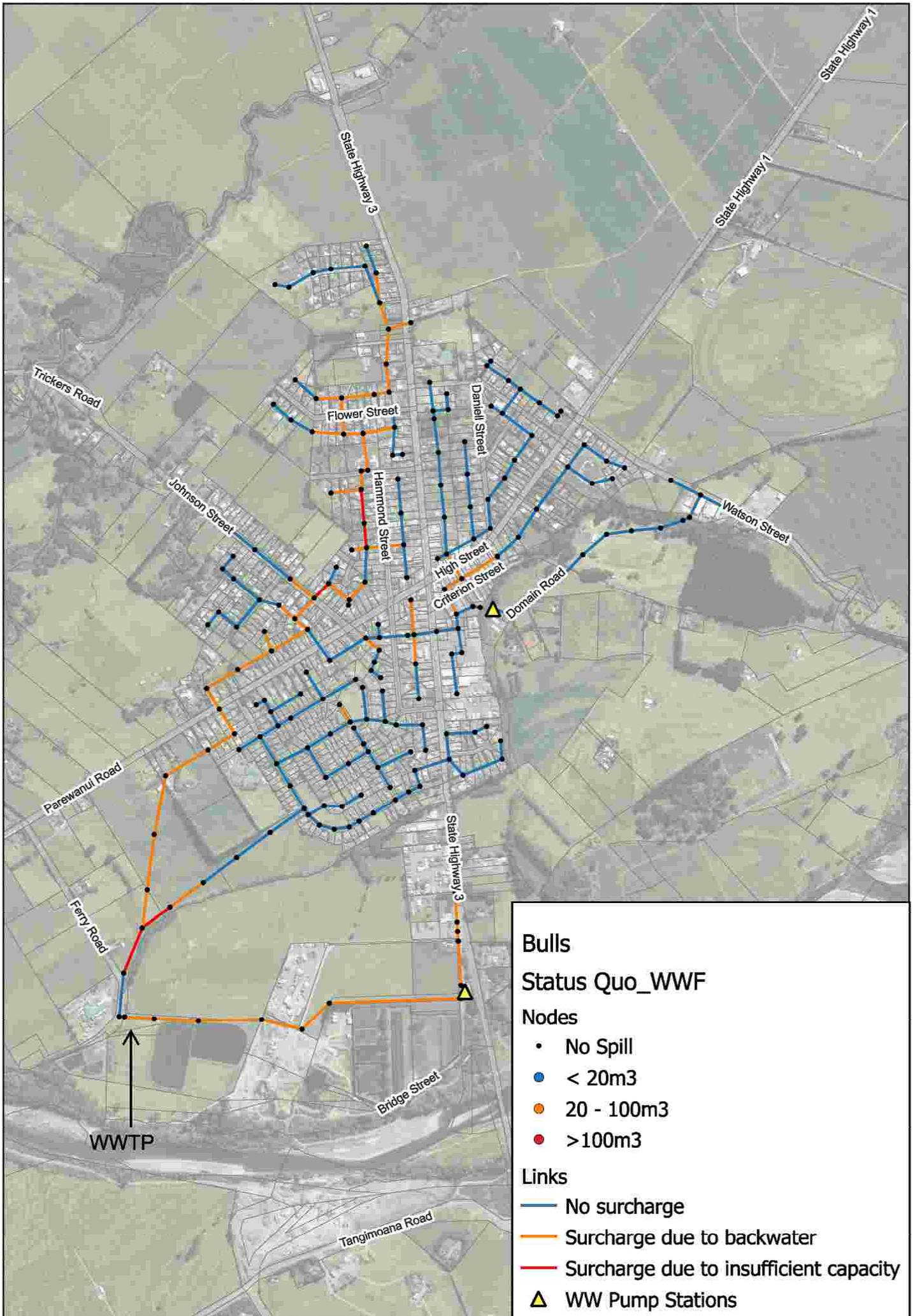


Figure 1.3 Bulls Stormwater Rapid Flood Hazard Assessment

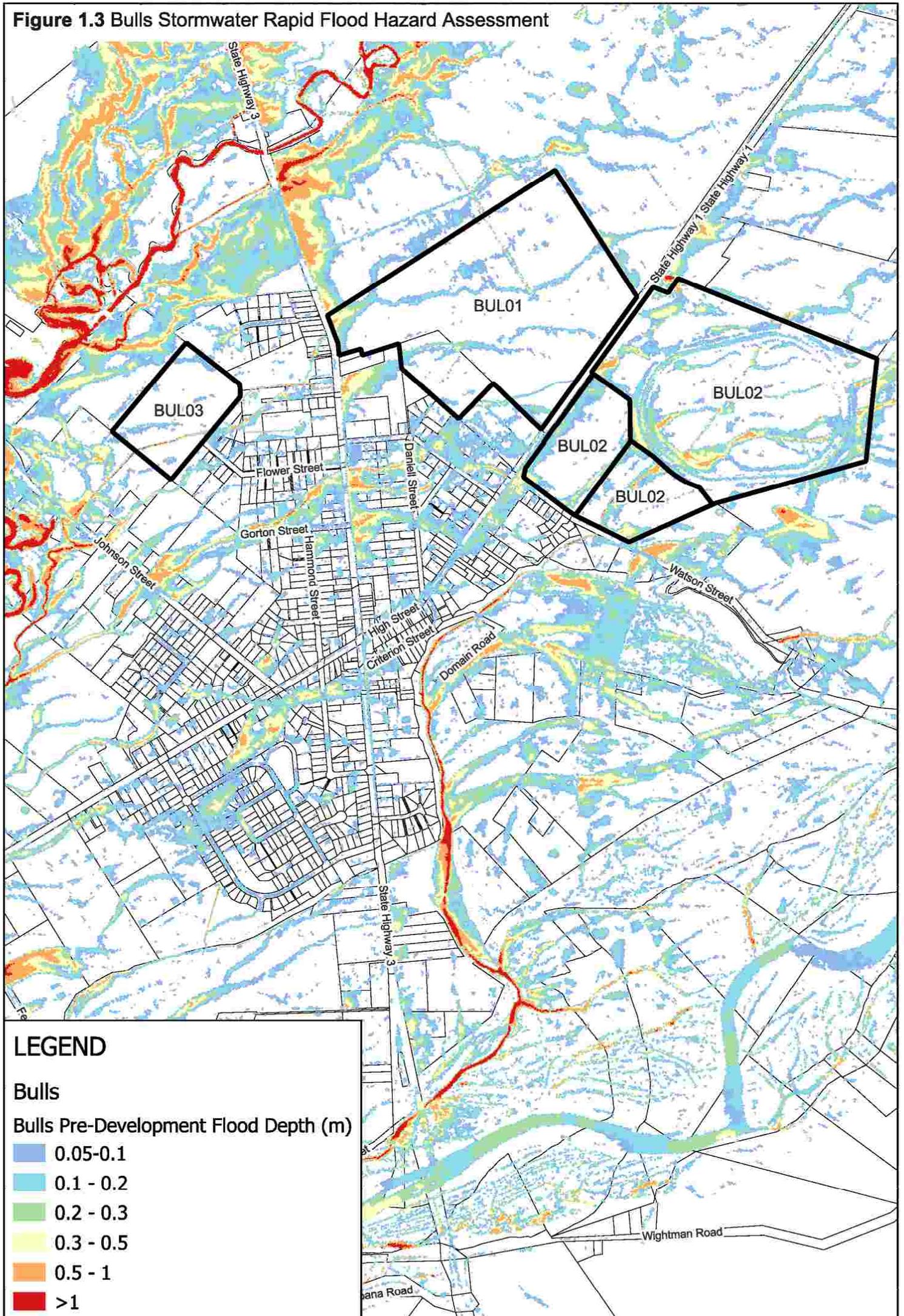


Figure 2.1.1 BUL01 Water Supply System Performance

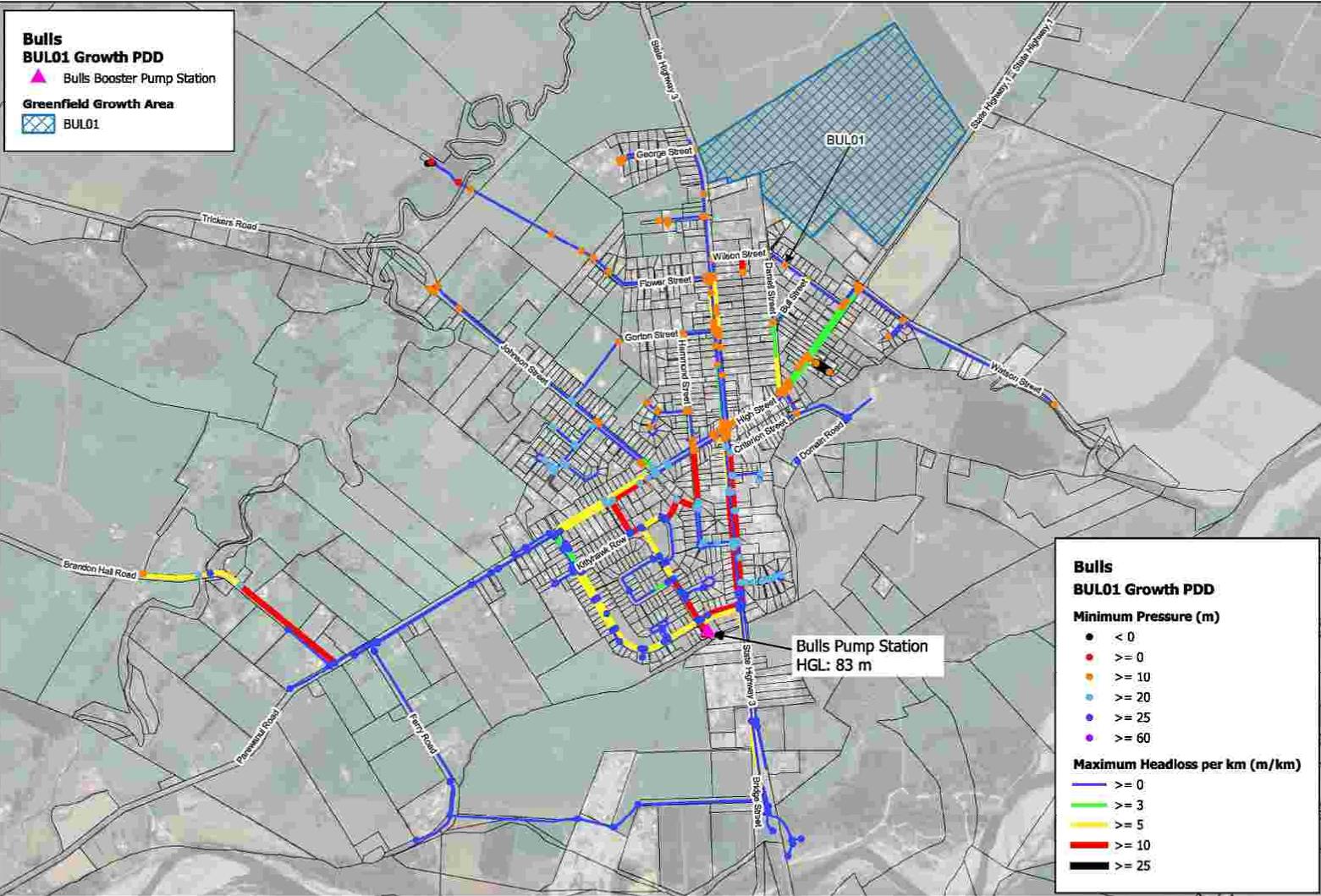


Figure 2.1.2 BUL01 Water Supply Option 1 System Performance with Proposed Upgrades

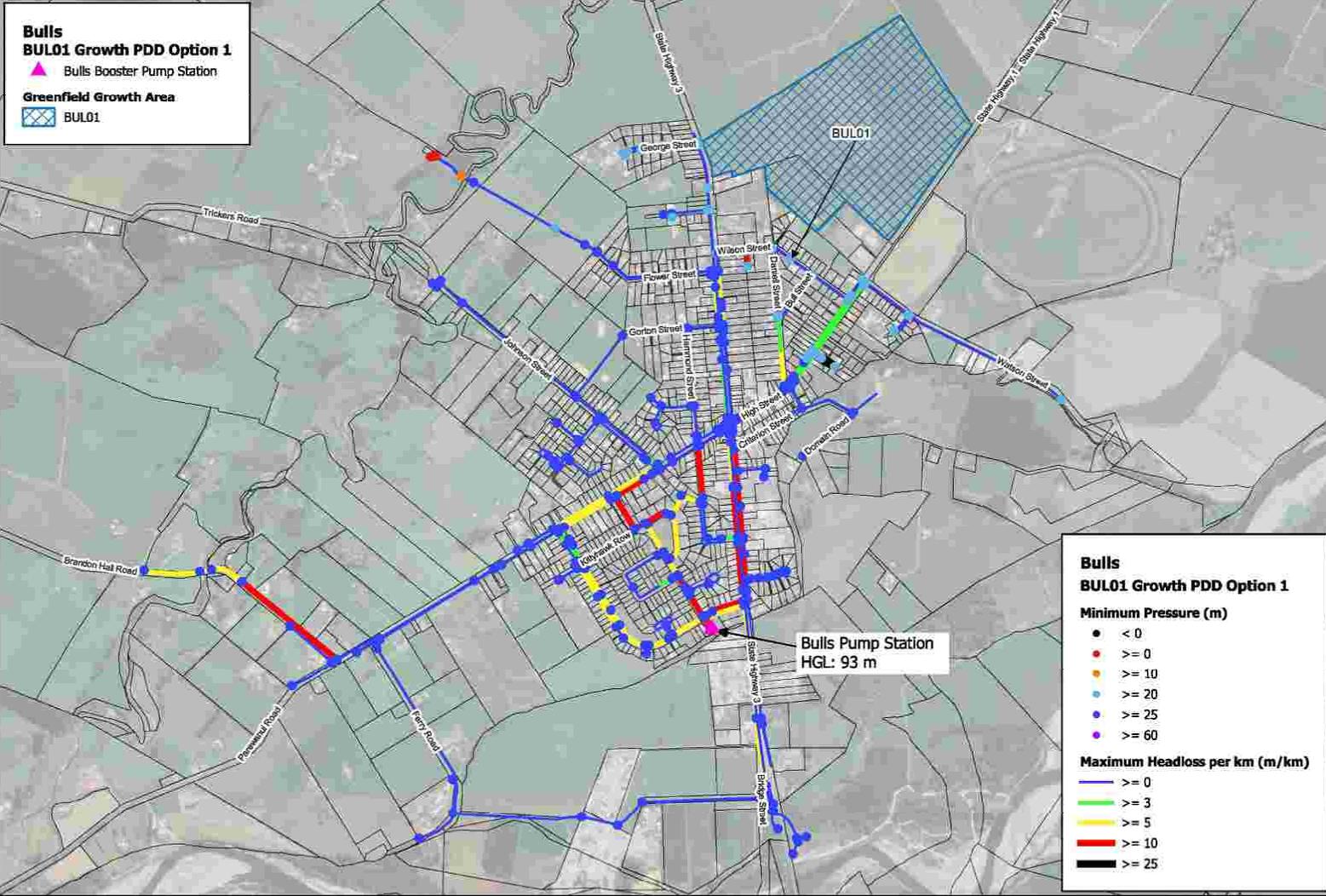


Figure 2.1.3 BUL01 Water Supply Option 1 Fire Flow (FW2) Assessment with Proposed Upgrades

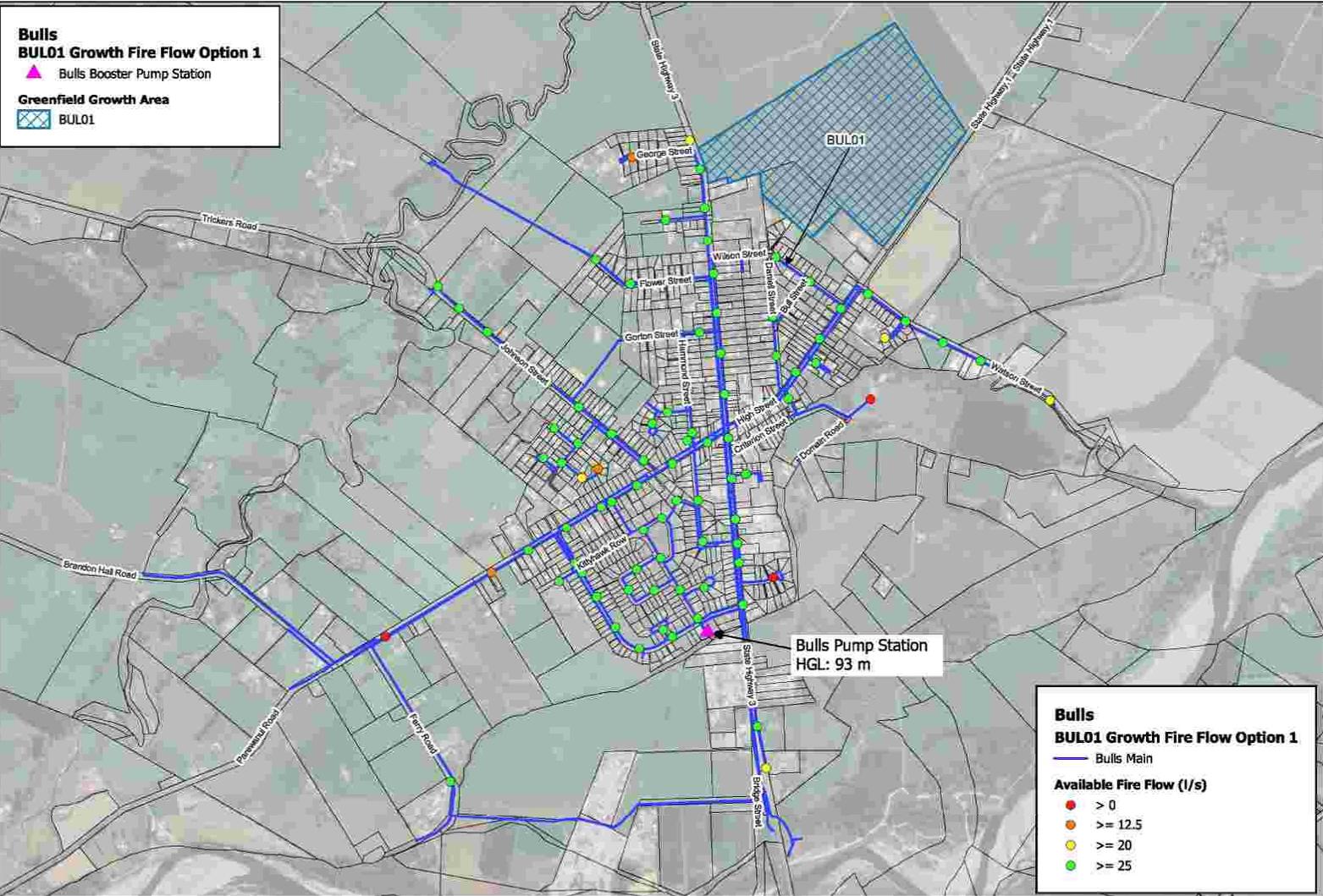


Figure 2.1.4 BUL01 Water Supply Option 2 System Performance with Proposed Upgrades

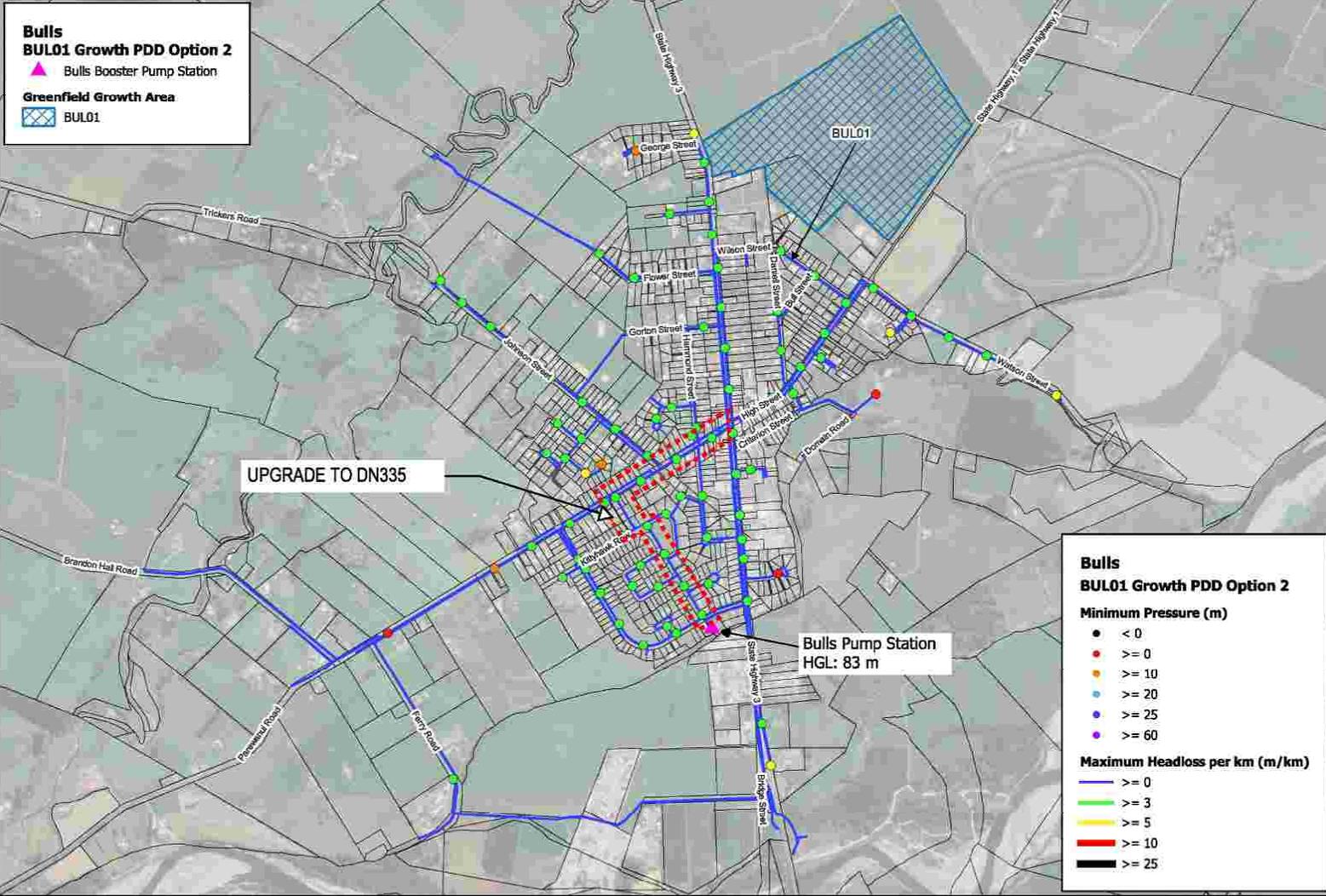


Figure 2.1.5 BUL01 Water Supply Option 2 Fire Flow (FW2) Assessment with Proposed Upgrades

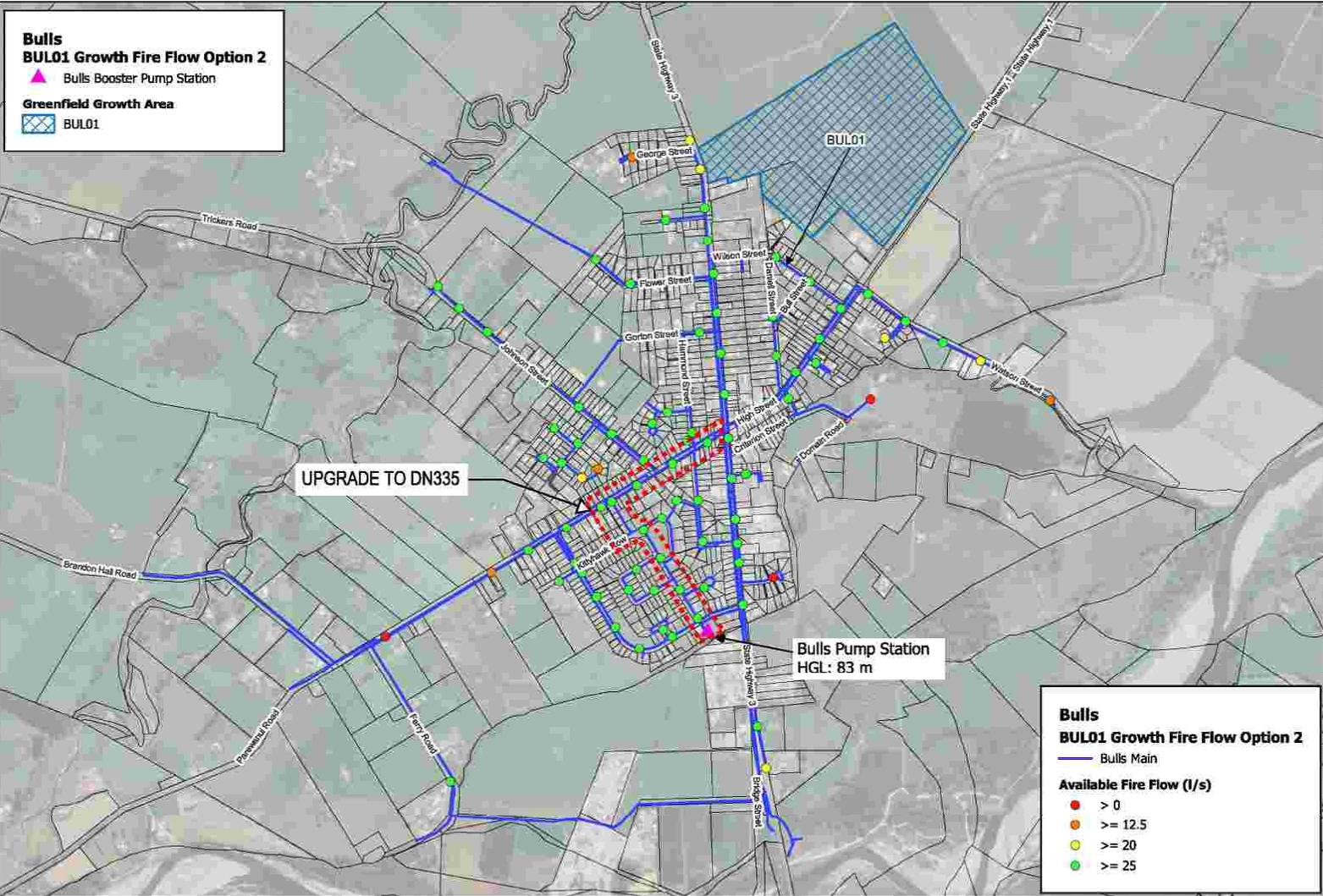


Figure 2.2.1 BUL01 Wastewater Network Performance - Dry Weather Flow

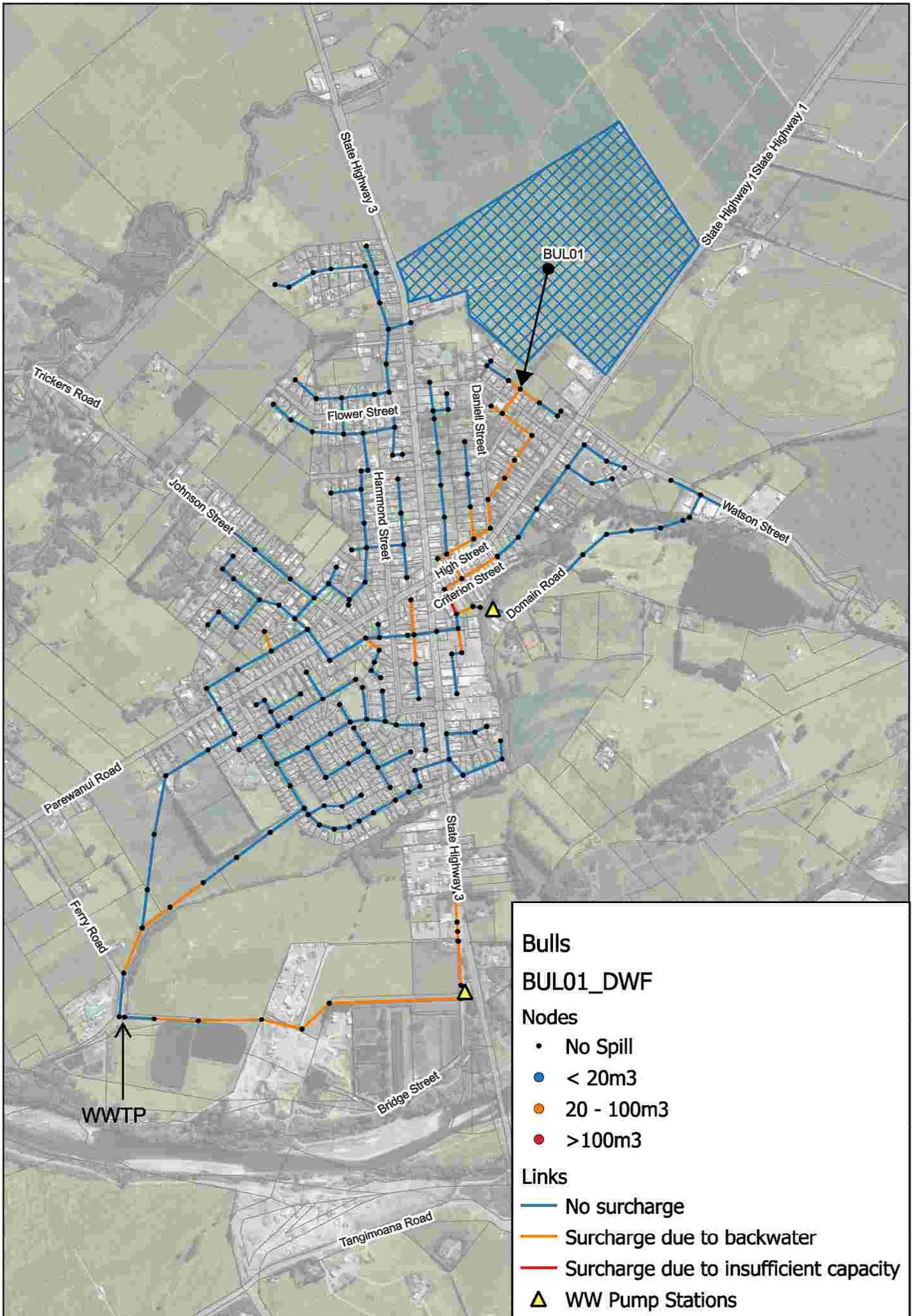


Figure 2.2.2 BUL01 Wastewater Network Performance - Wet Weather Flow

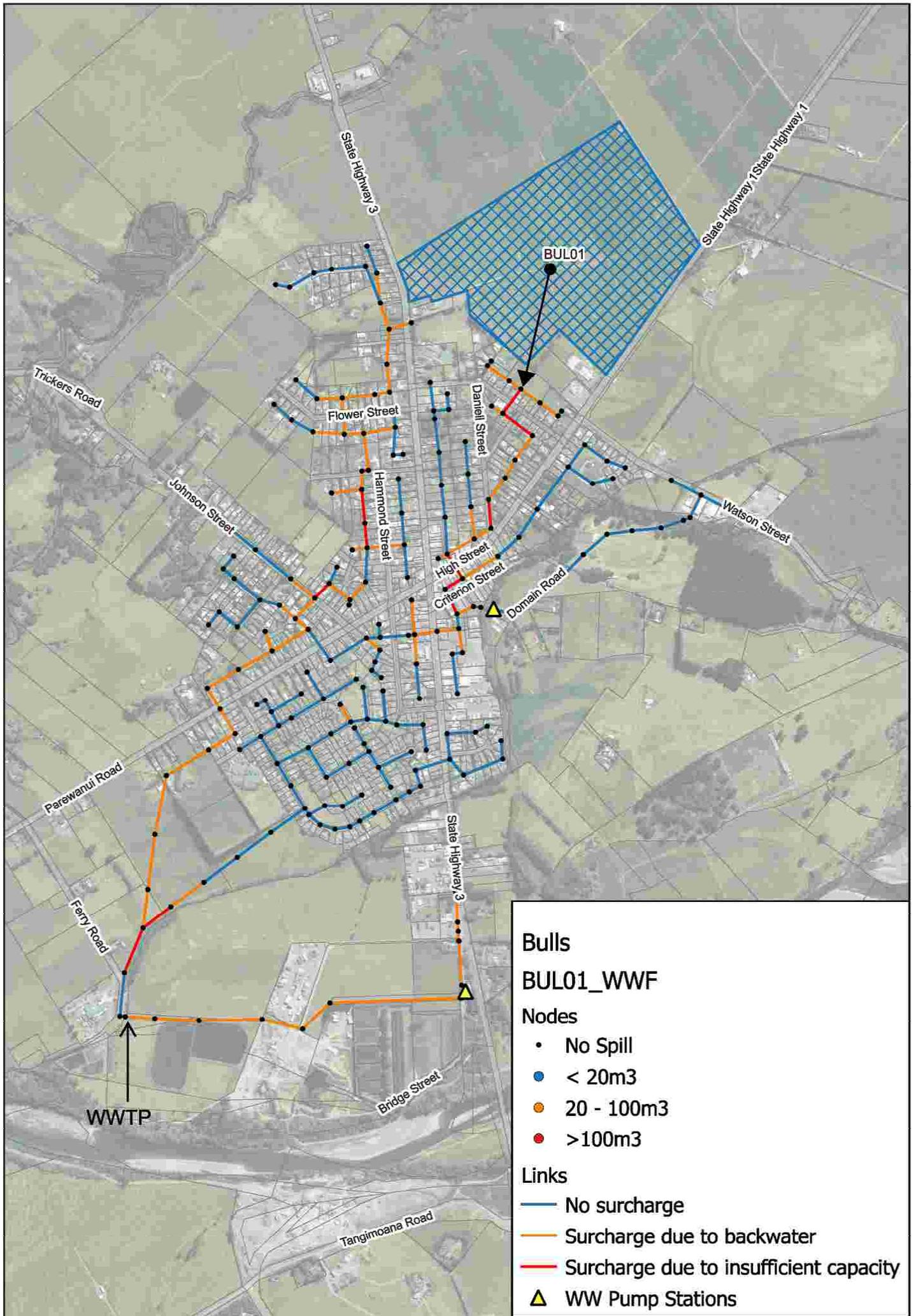


Figure 3.1.1 BUL02 Water Supply System Performance

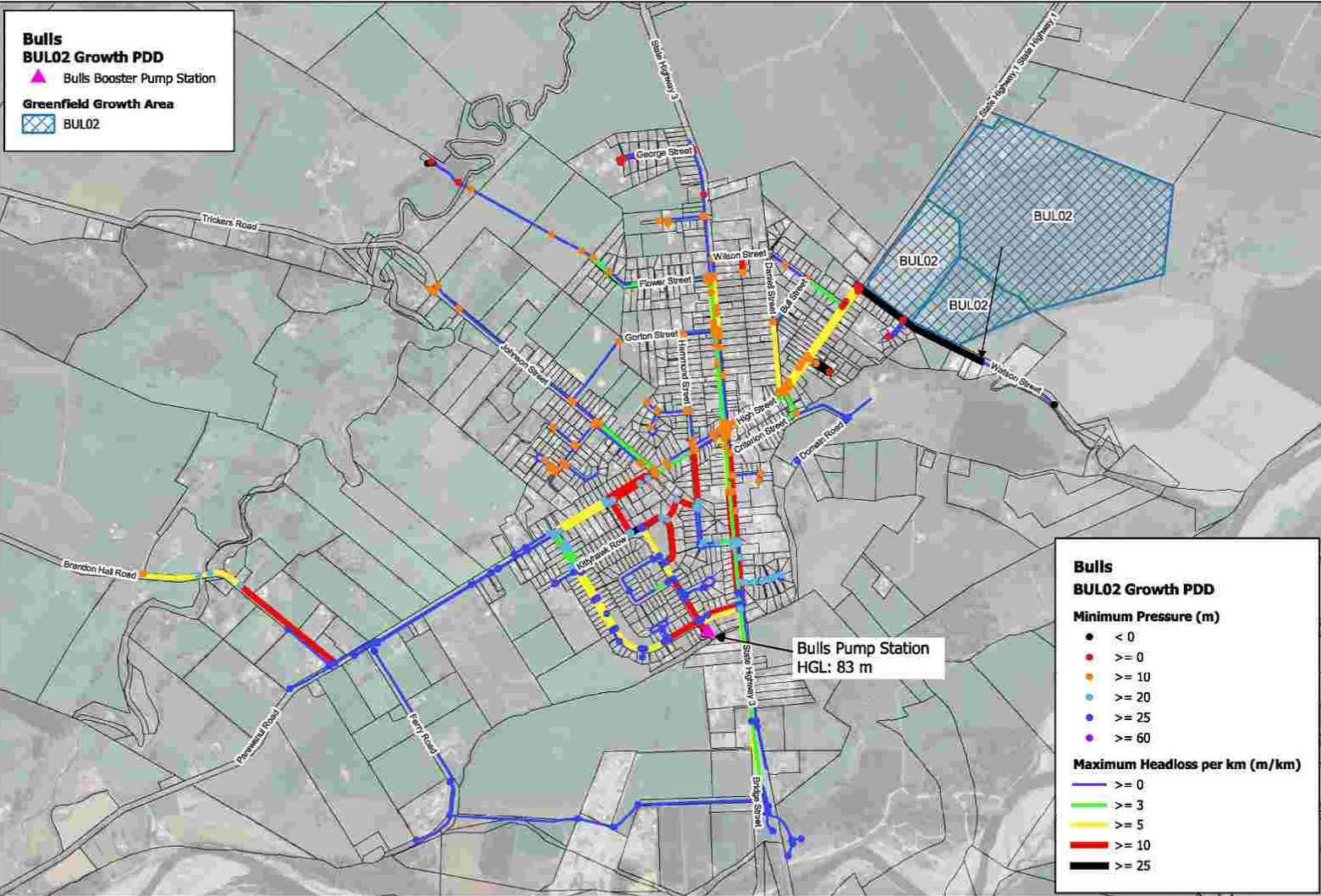


Figure 3.1.2 BUL02 Water Supply Option 1 System Performance with Proposed Upgrades

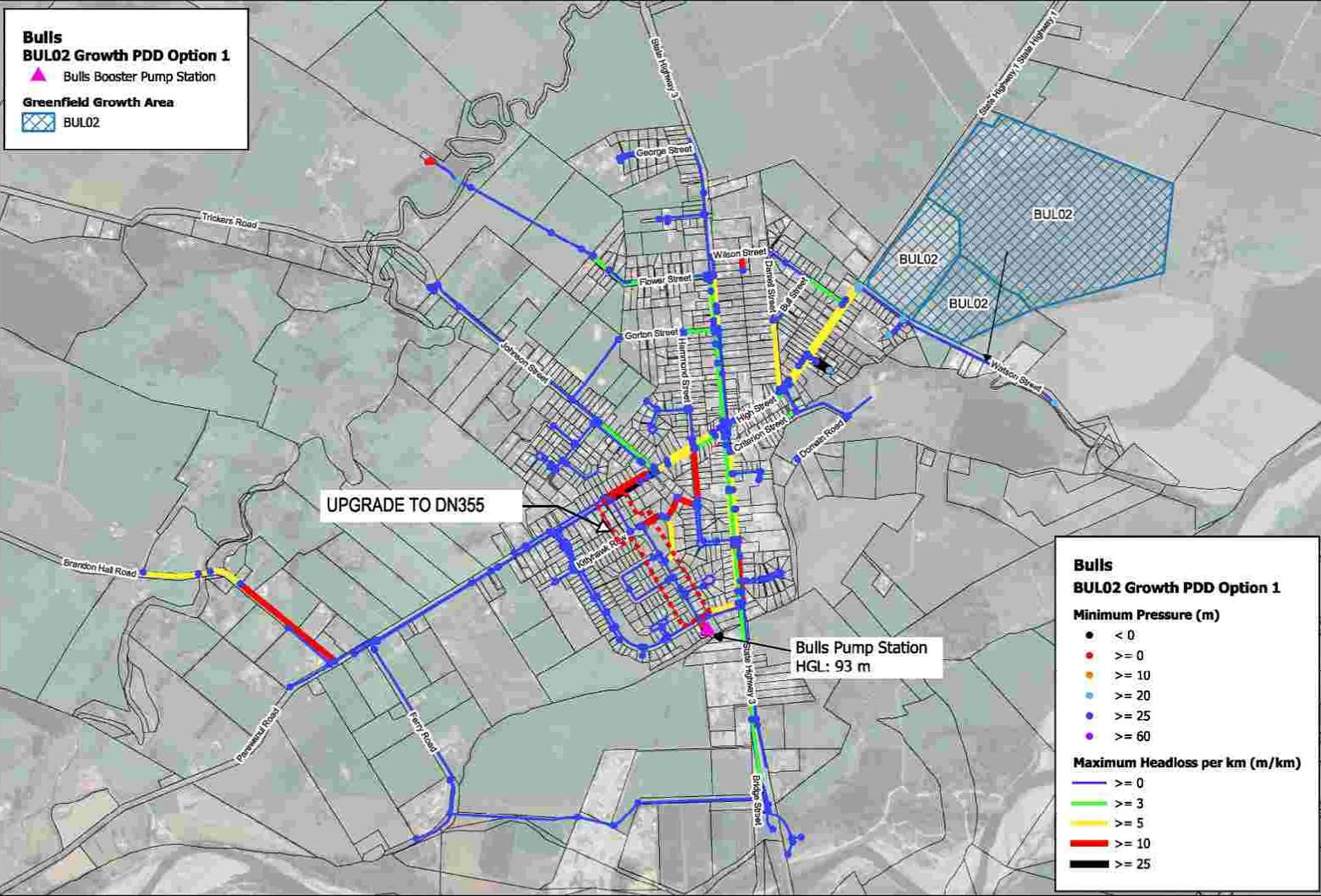


Figure 3.1.4 BUL02 Water Supply Option 2 System Performance with Proposed Upgrades

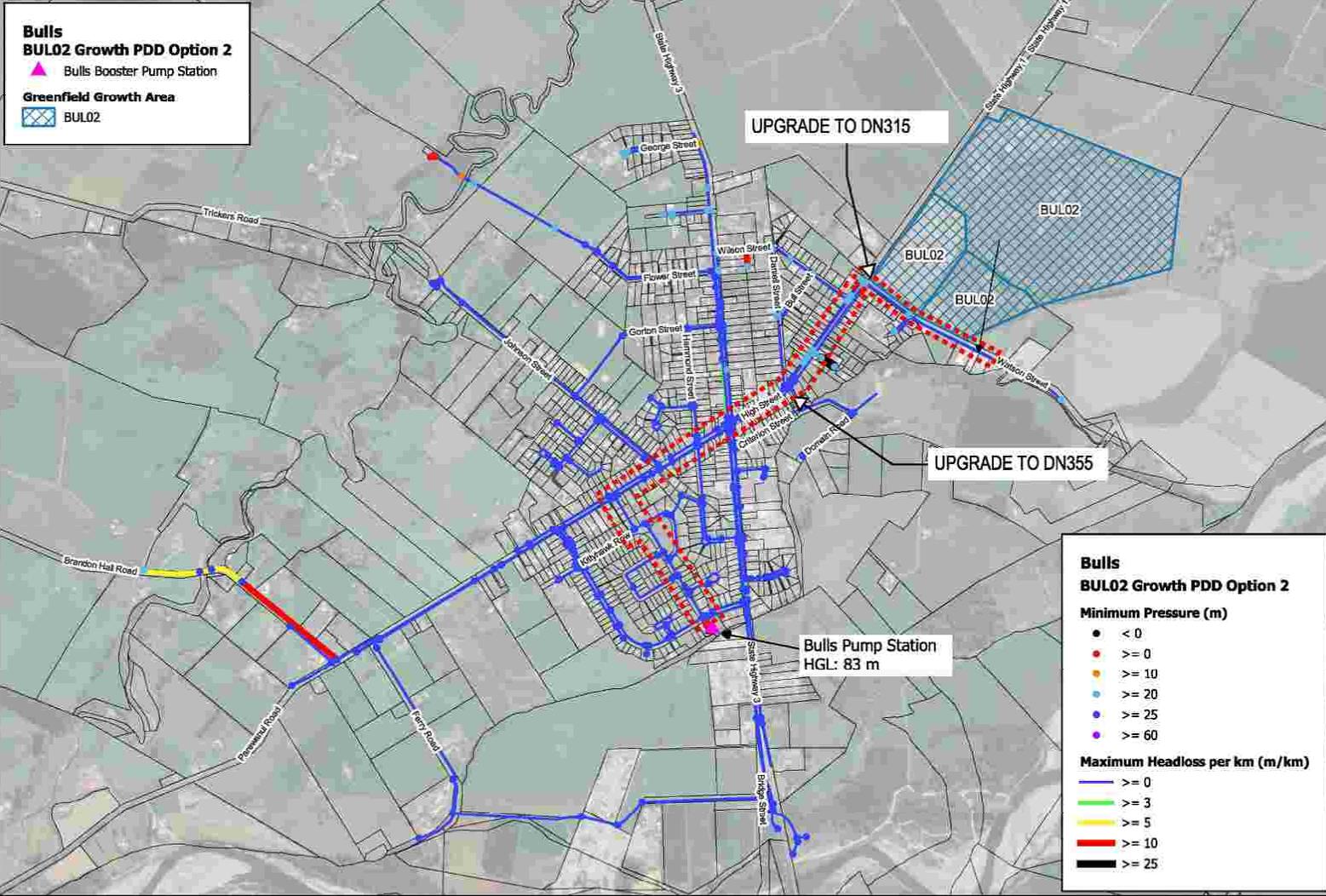


Figure 3.1.5 BUL02 Water Supply Option 2 Fire Flow (FW2) Assessment with Proposed Upgrades

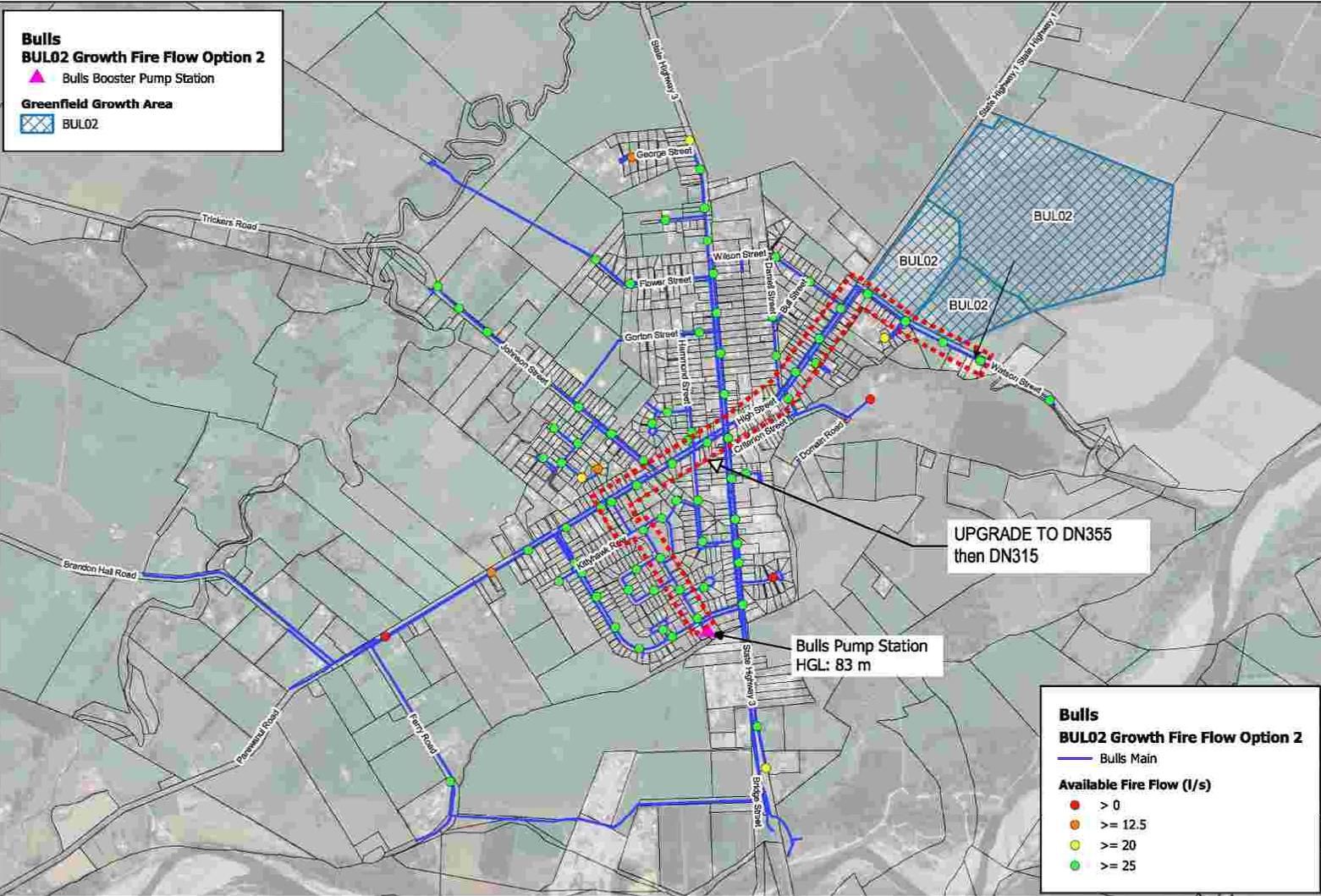


Figure 3.2.1 BUL02 Wastewater Network Performance - Dry Weather Flow

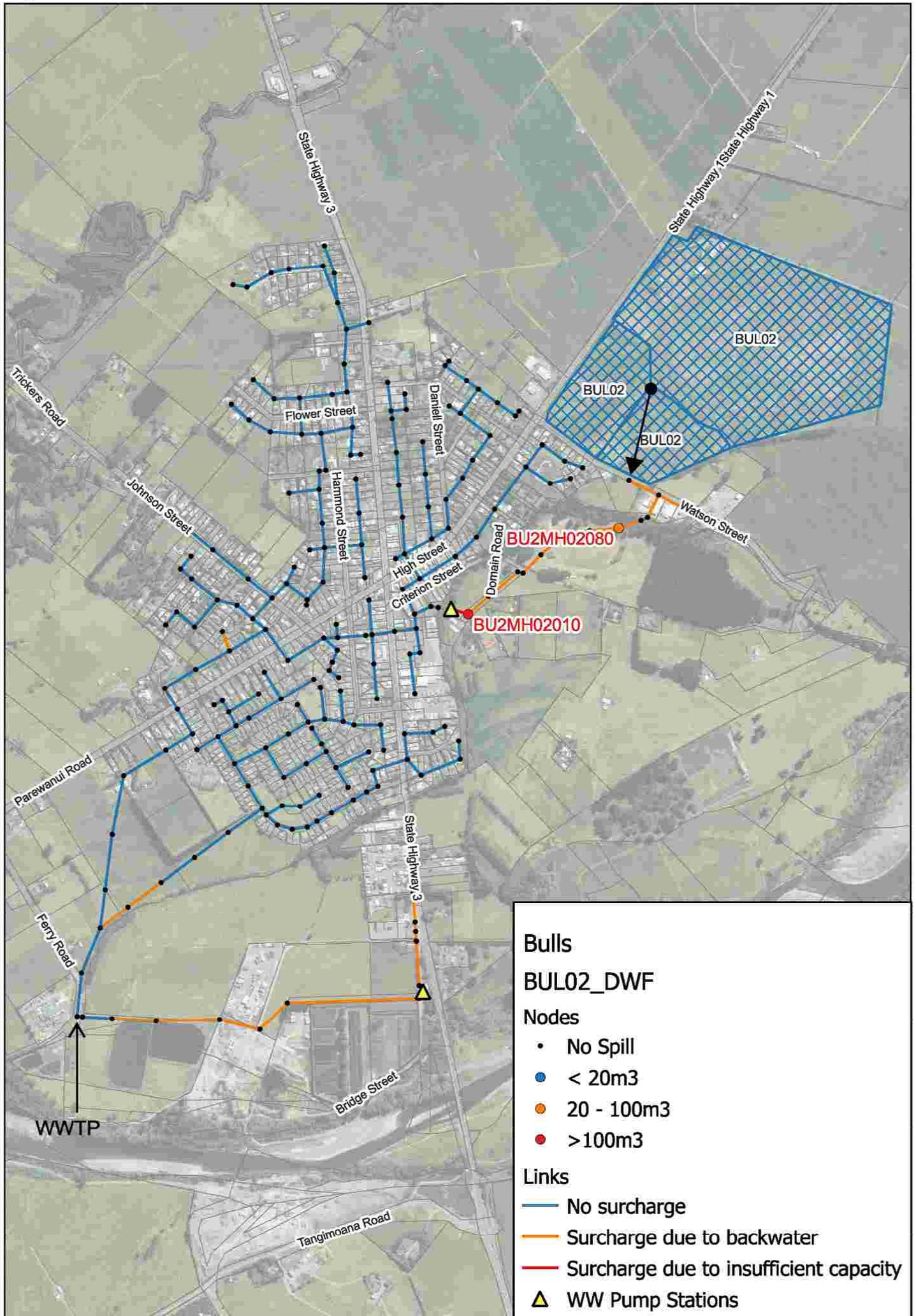


Figure 3.2.2 BUL02 Wastewater Network Performance - Wet Weather Flow

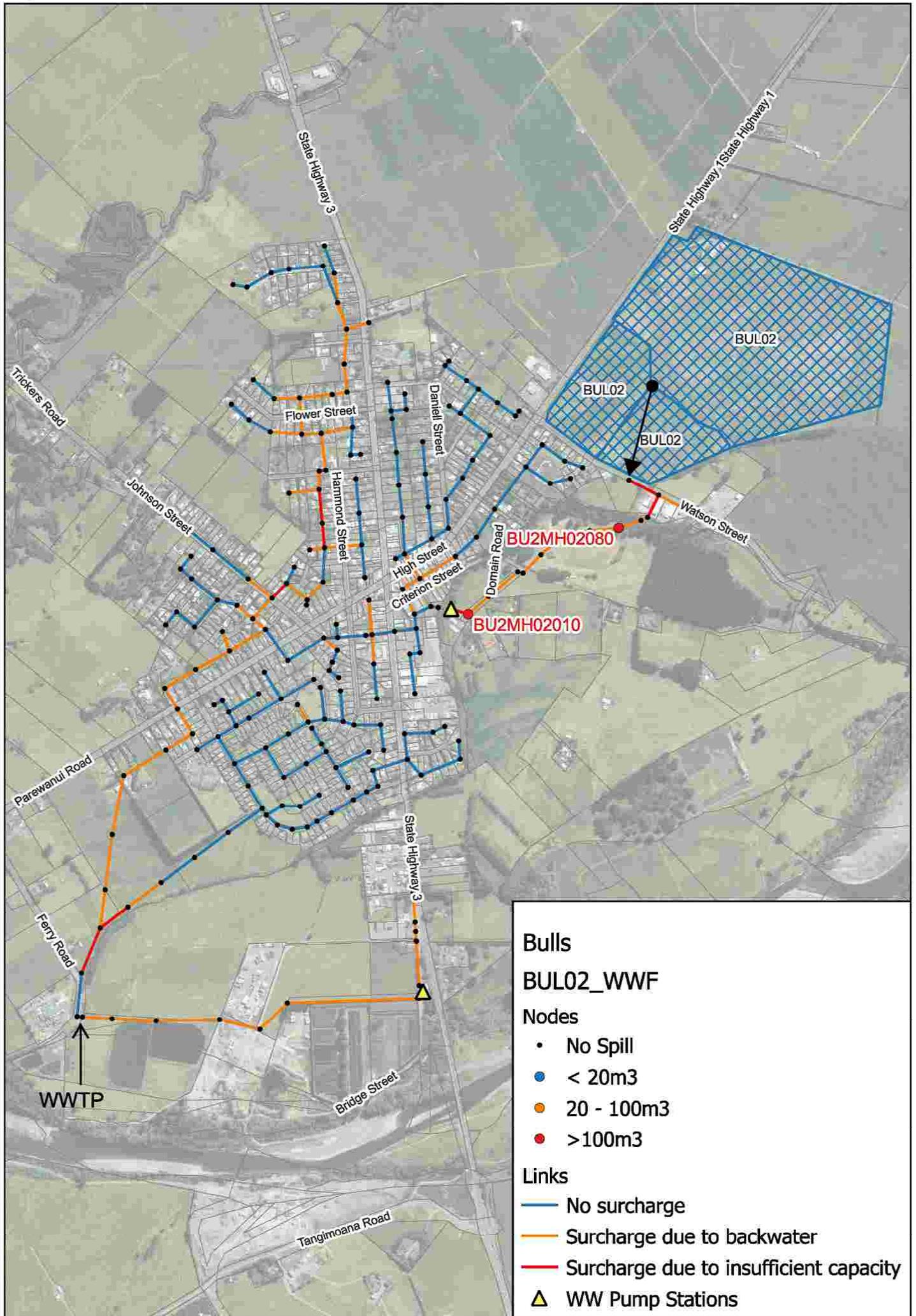


Figure 3.2.3 BUL02 Wastewater Network with Upgrades - Wet Weather Flow

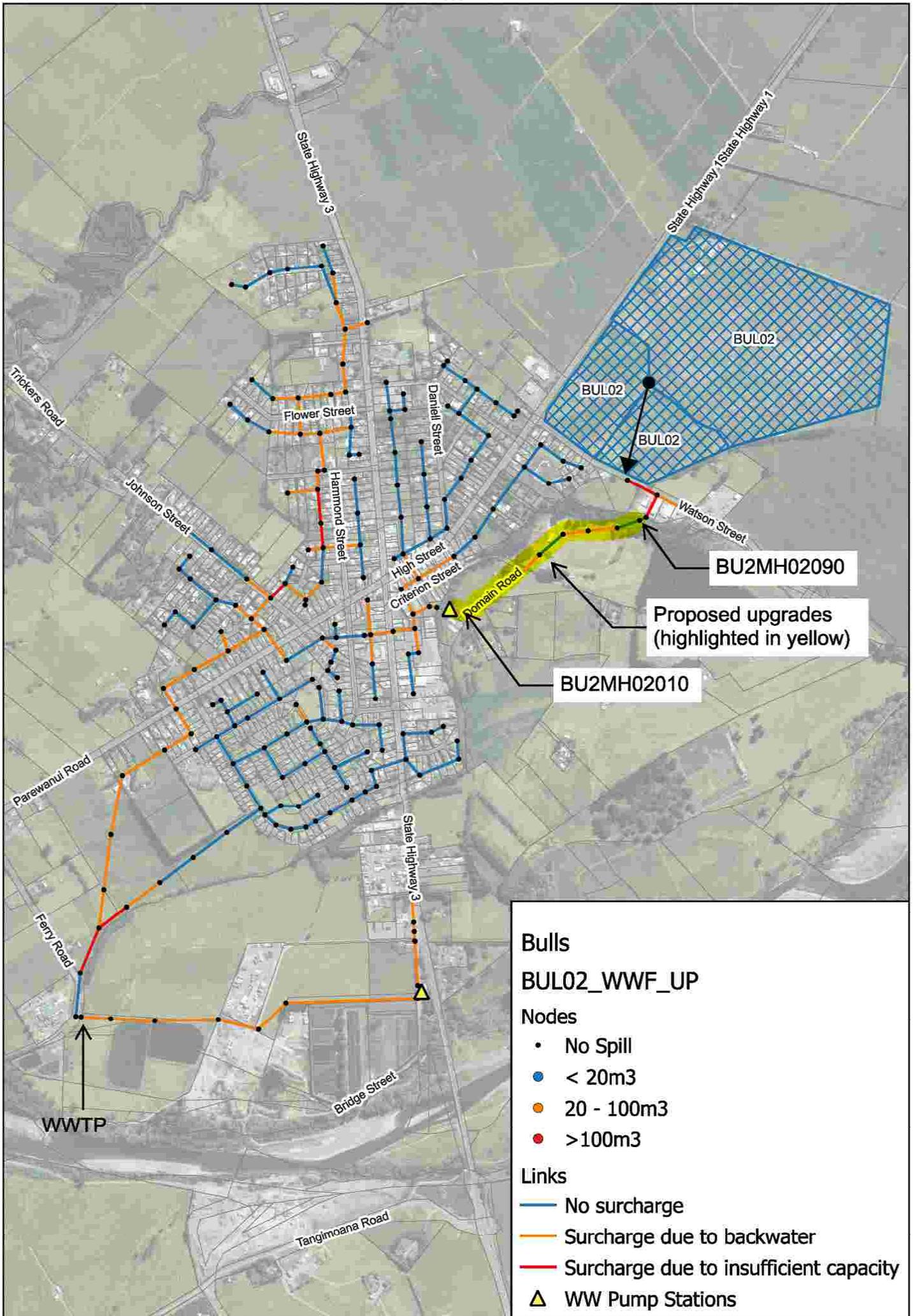


Figure 4.1.1 BUL03 Water Supply System Performance

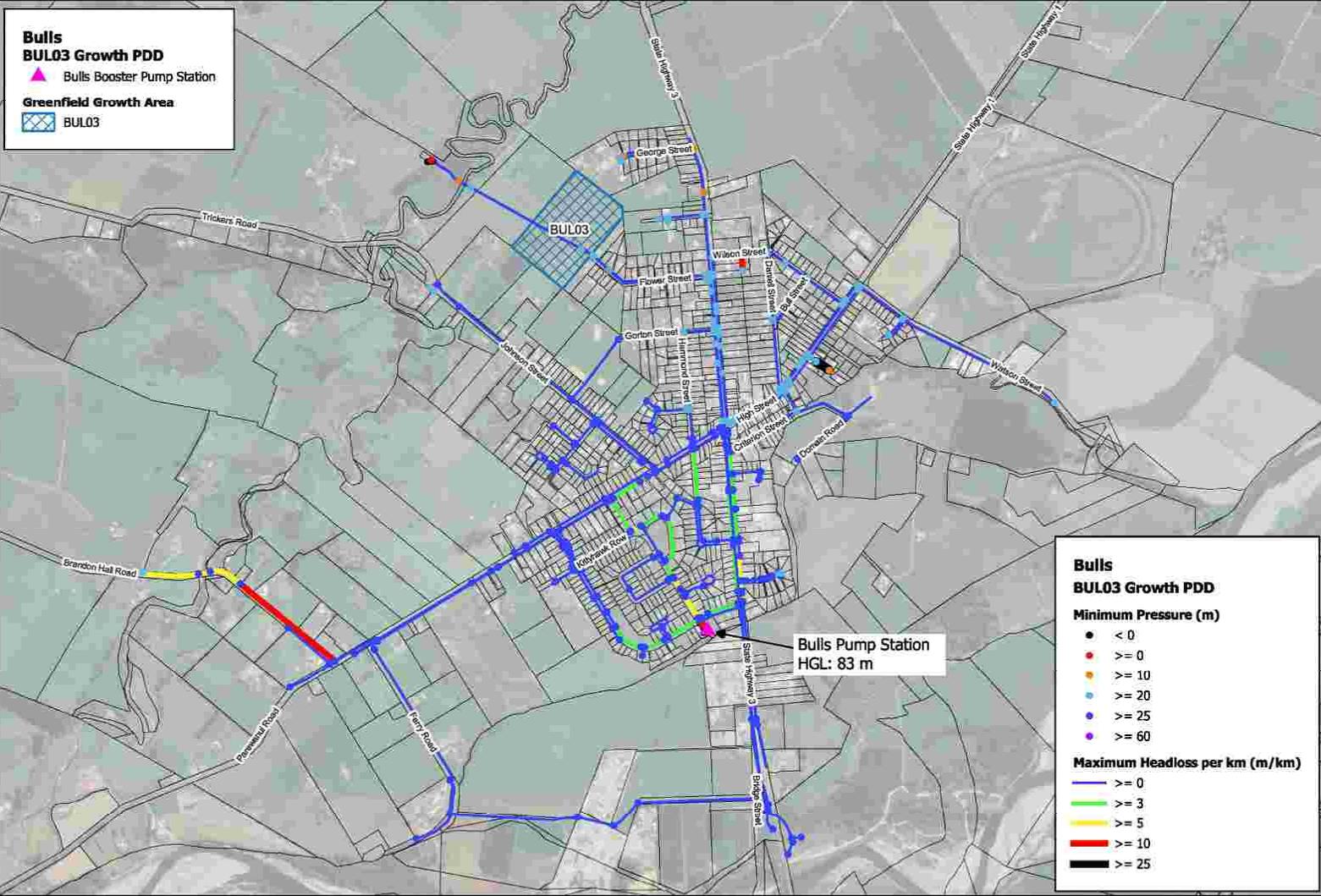


Figure 4.1.2 BUL03 Water Supply Option 1 System Performance with Proposed Upgrades

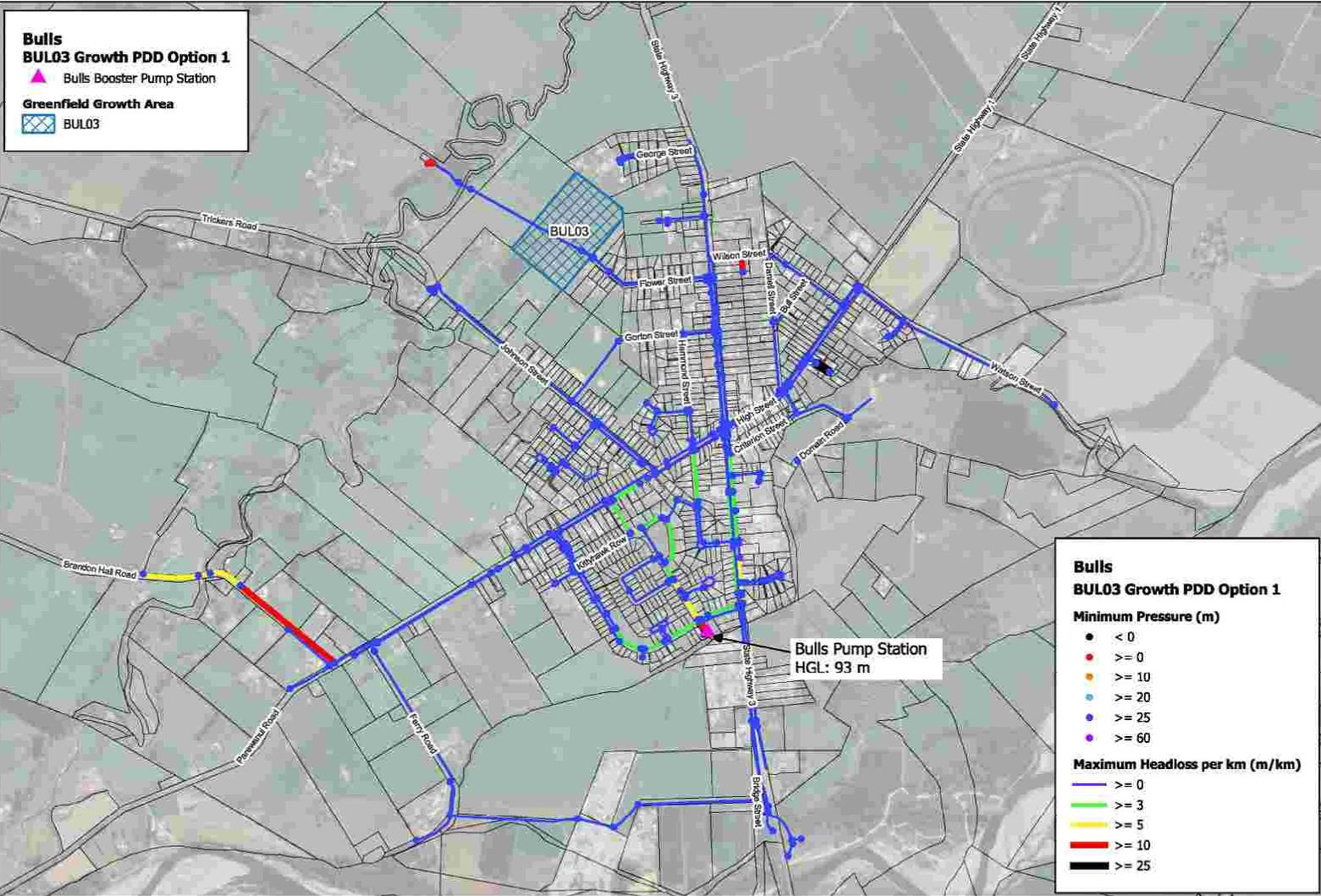


Figure 4.1.3 BUL03 Water Supply Option 1 Fire Flow (FW2) Assessment with Proposed Upgrades

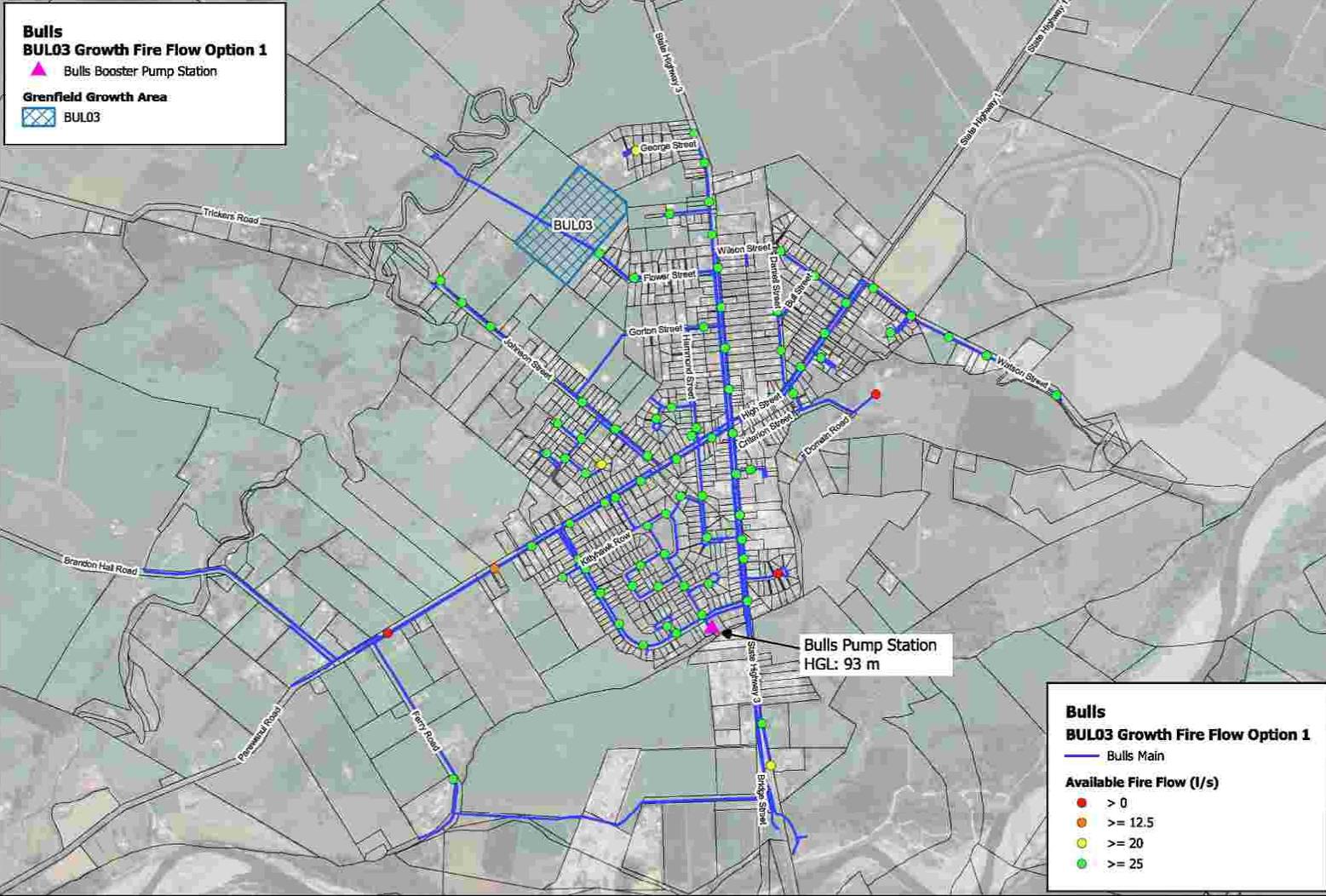


Figure 4.1.4 BUL03 Water Supply Option 2 System Performance with Proposed Upgrades

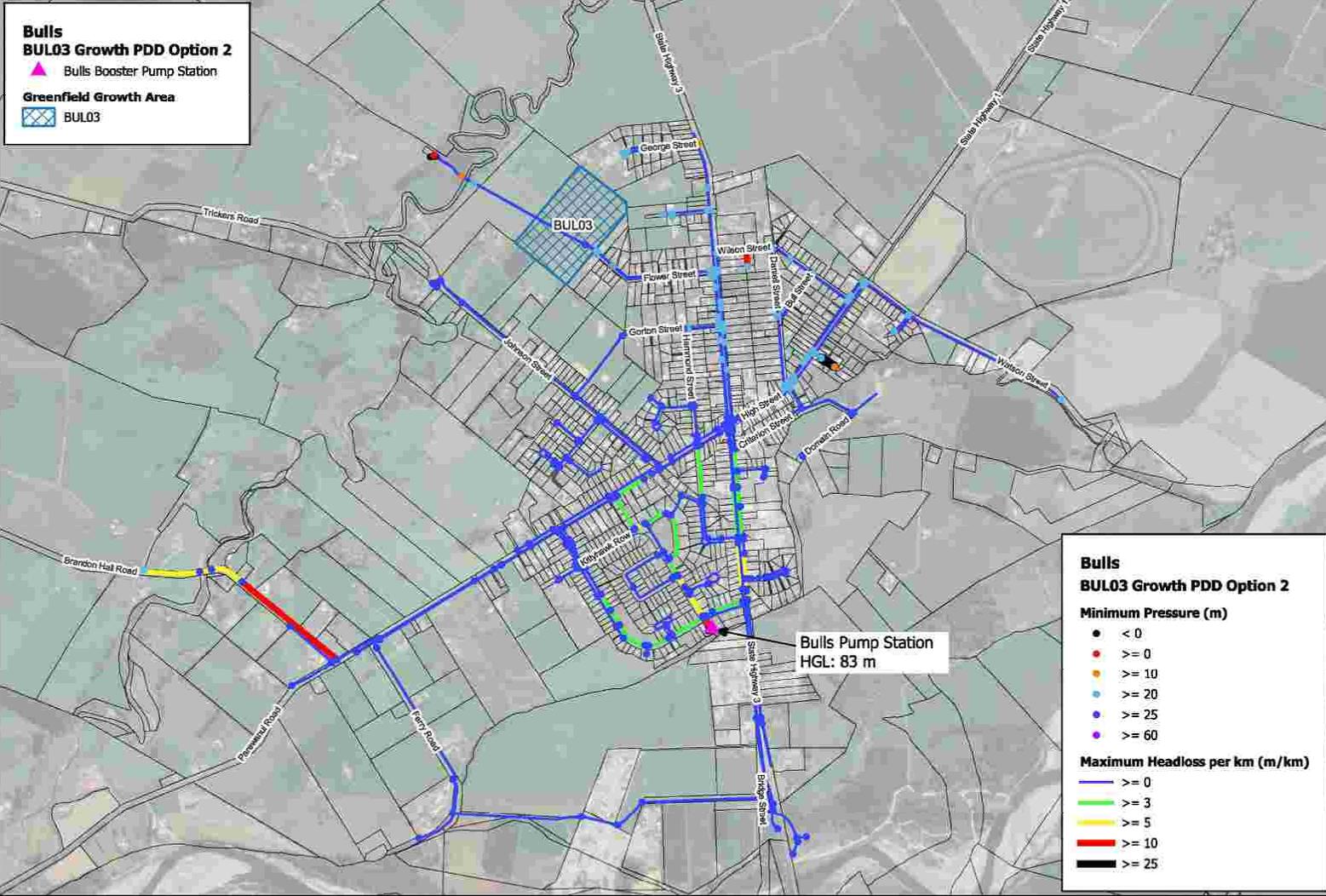


Figure 4.1.5 BUL03 Water Supply Option 2 Fire Flow (FW2) Assessment with Proposed Upgrades

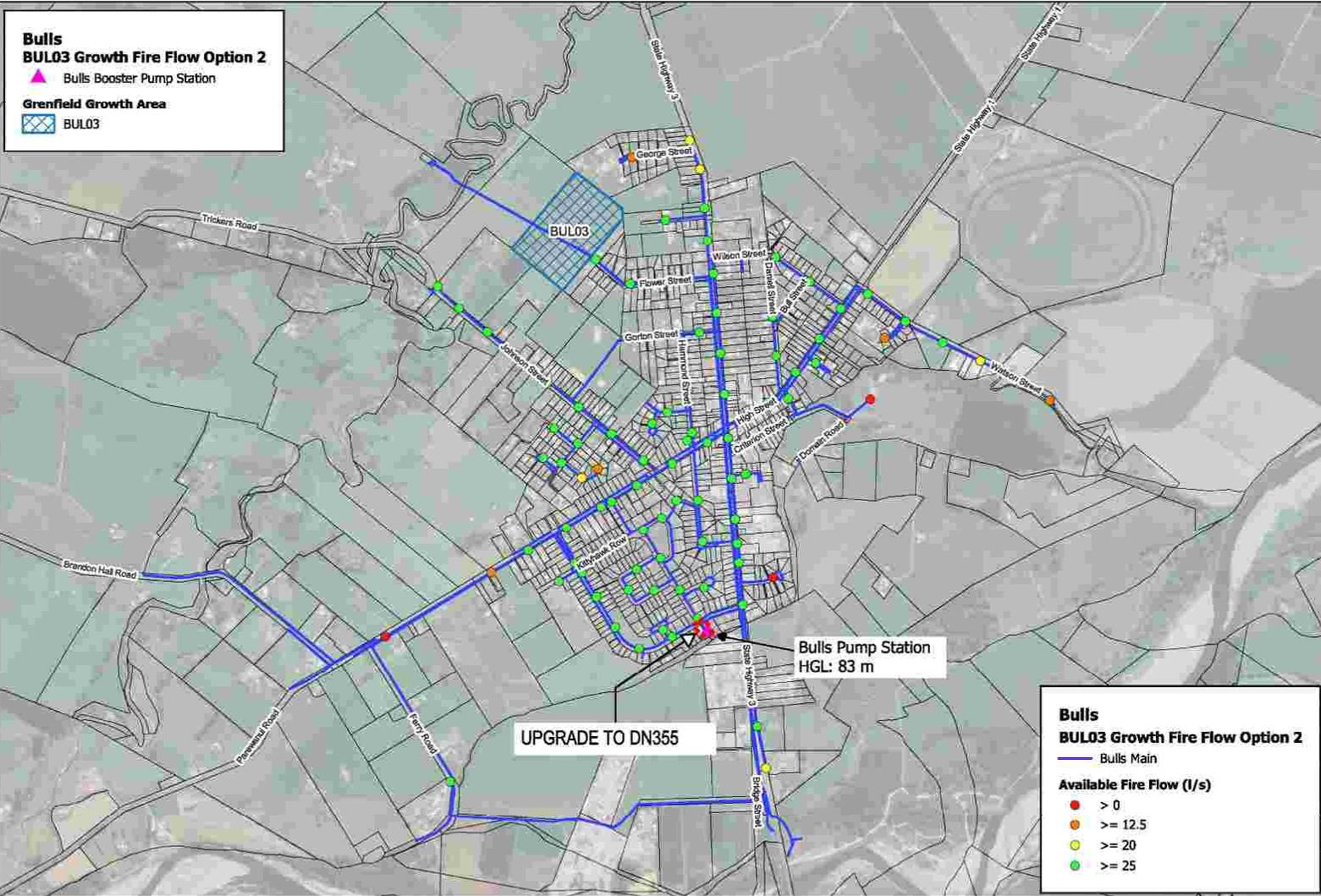


Figure 4.2.1 BUL03 Wastewater Network Performance - Dry Weather Flow

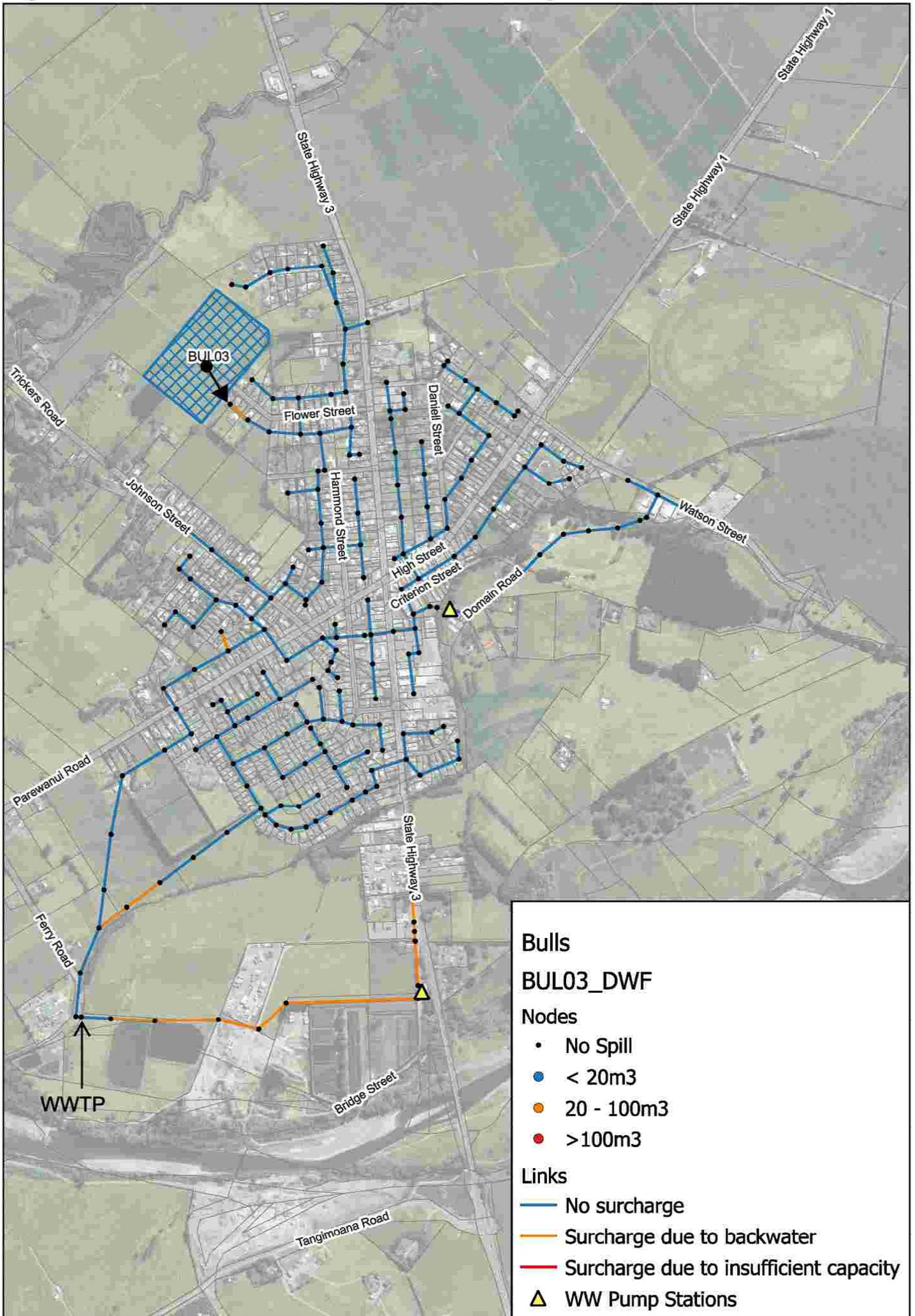


Figure 4.2.2 BUL03 Wastewater Network Performance - Wet Weather Flow

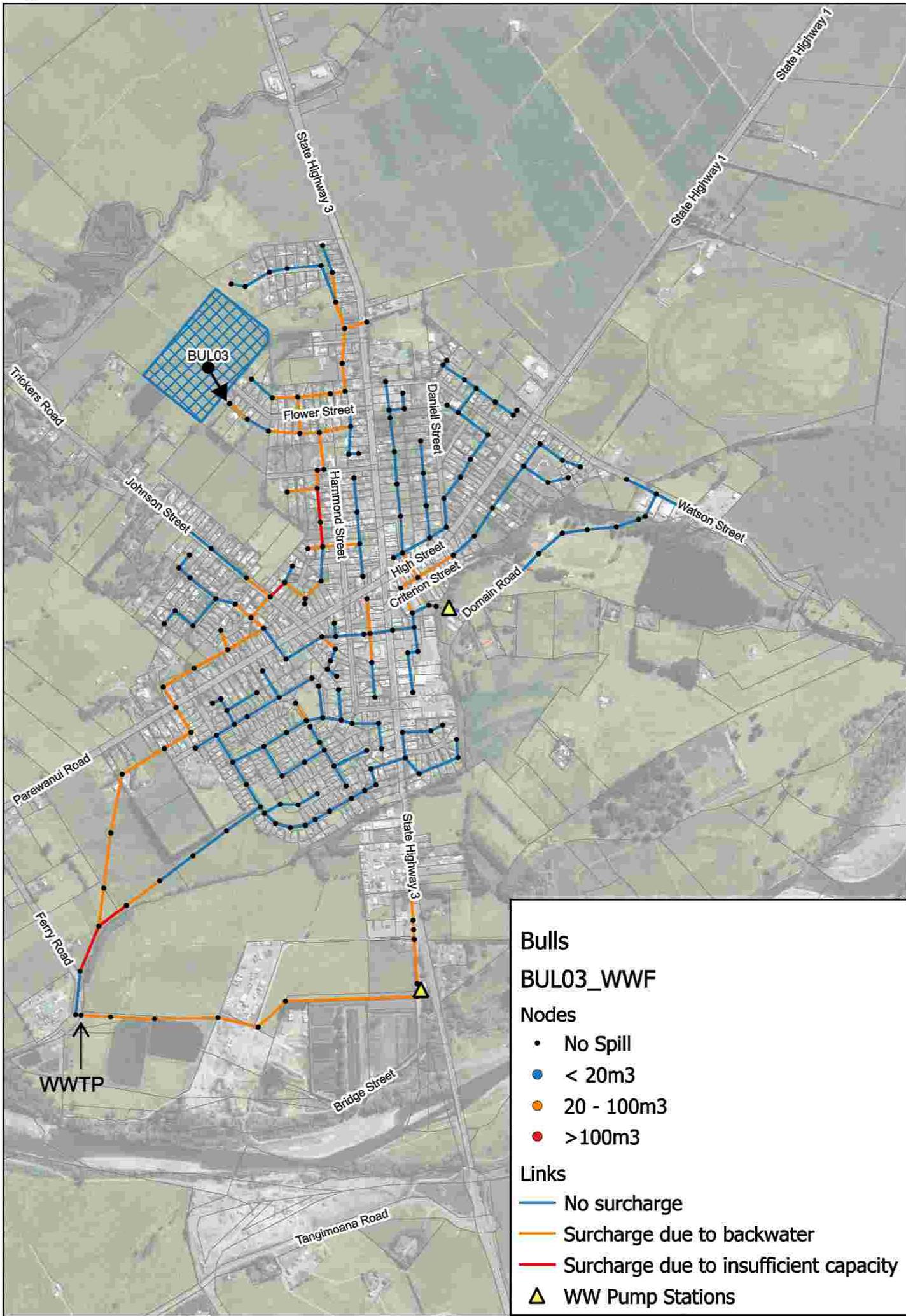


Figure 5.1.1 Bull Infill Water Supply System Performance

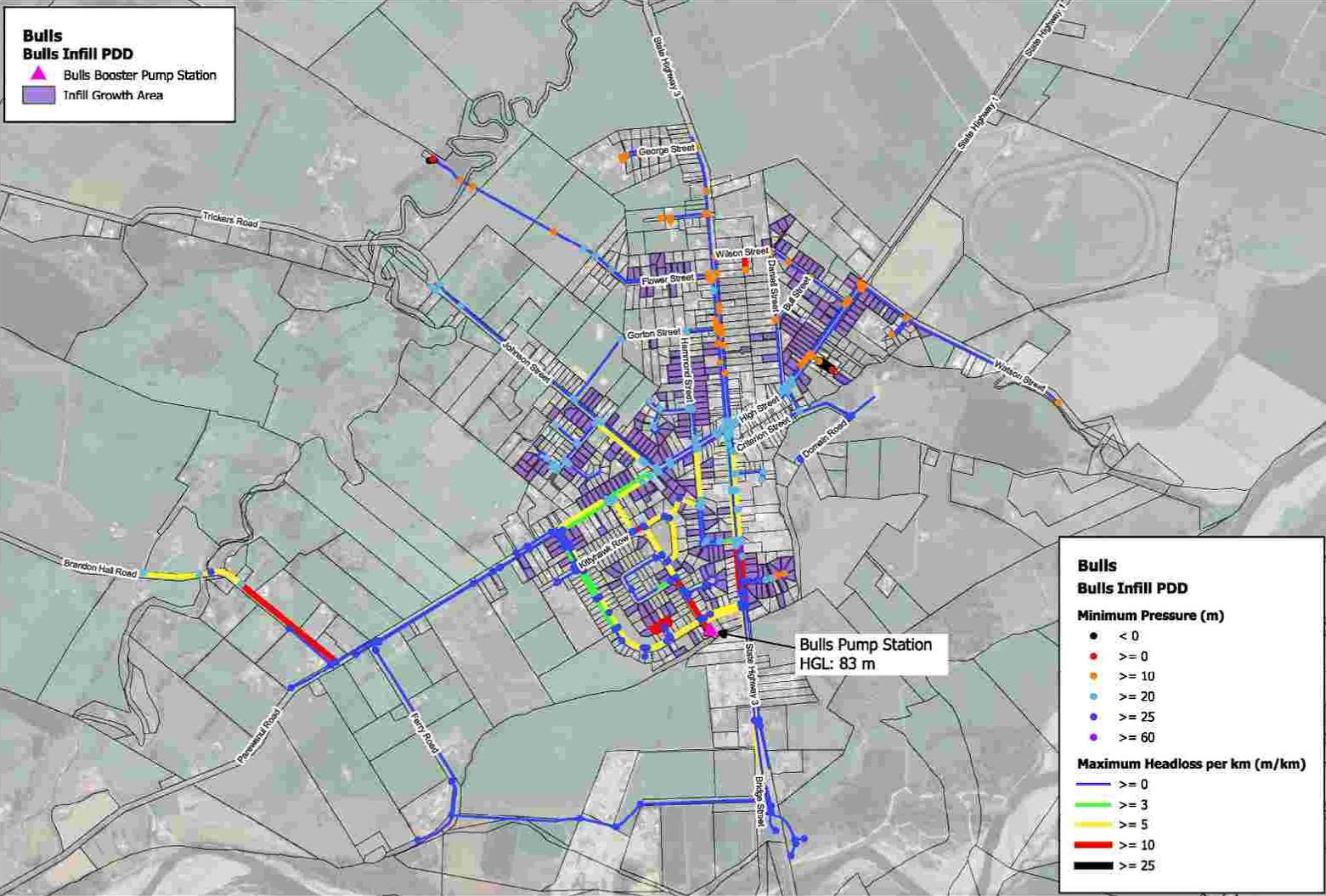


Figure 5.1.2 Bulls Infill Water Supply Option 1 System Performance with Proposed Upgrades

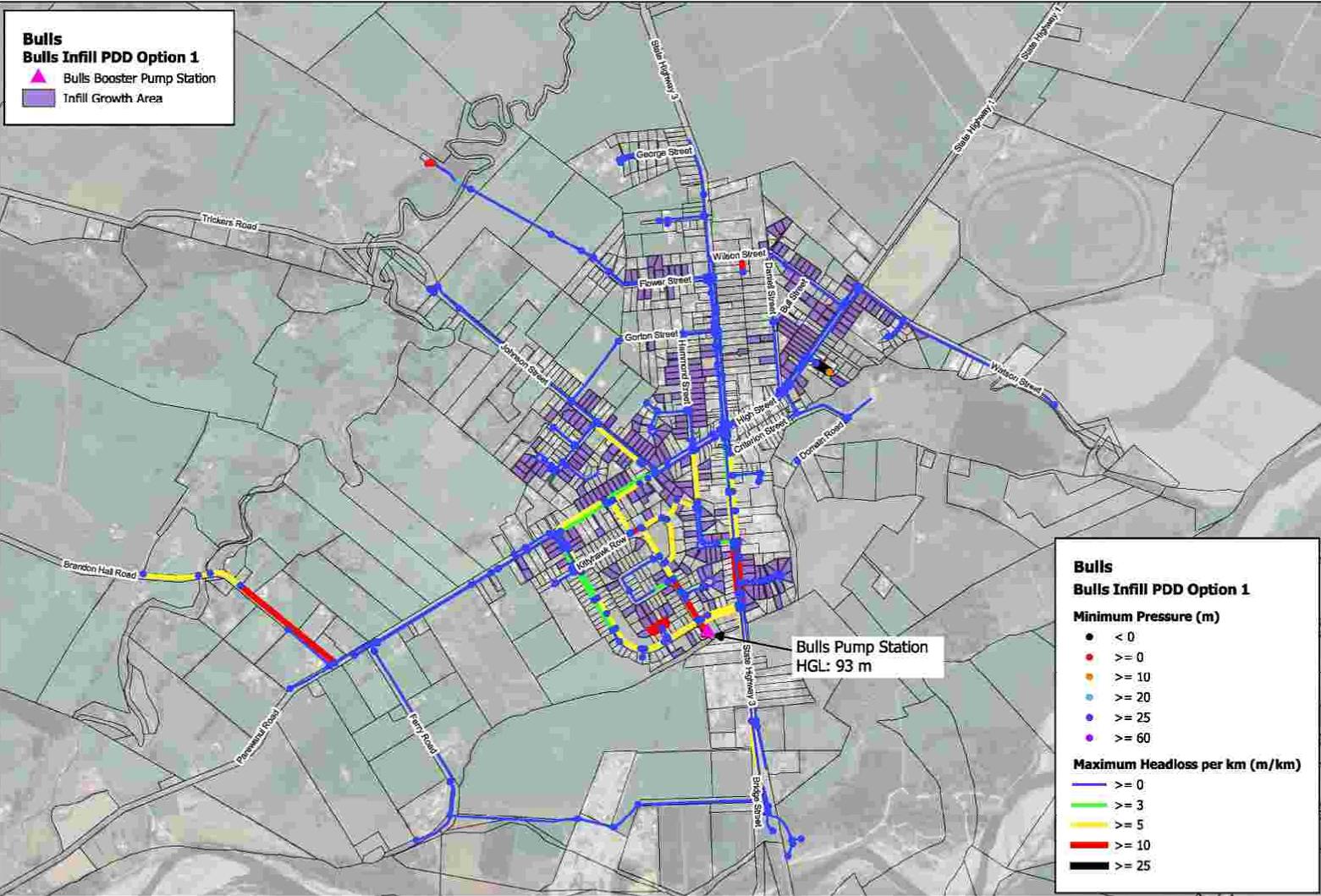


Figure 5.1.3 Bulls Infill Water Supply Option 1 Fire Flow (FW2) Assessment with Proposed Upgrades

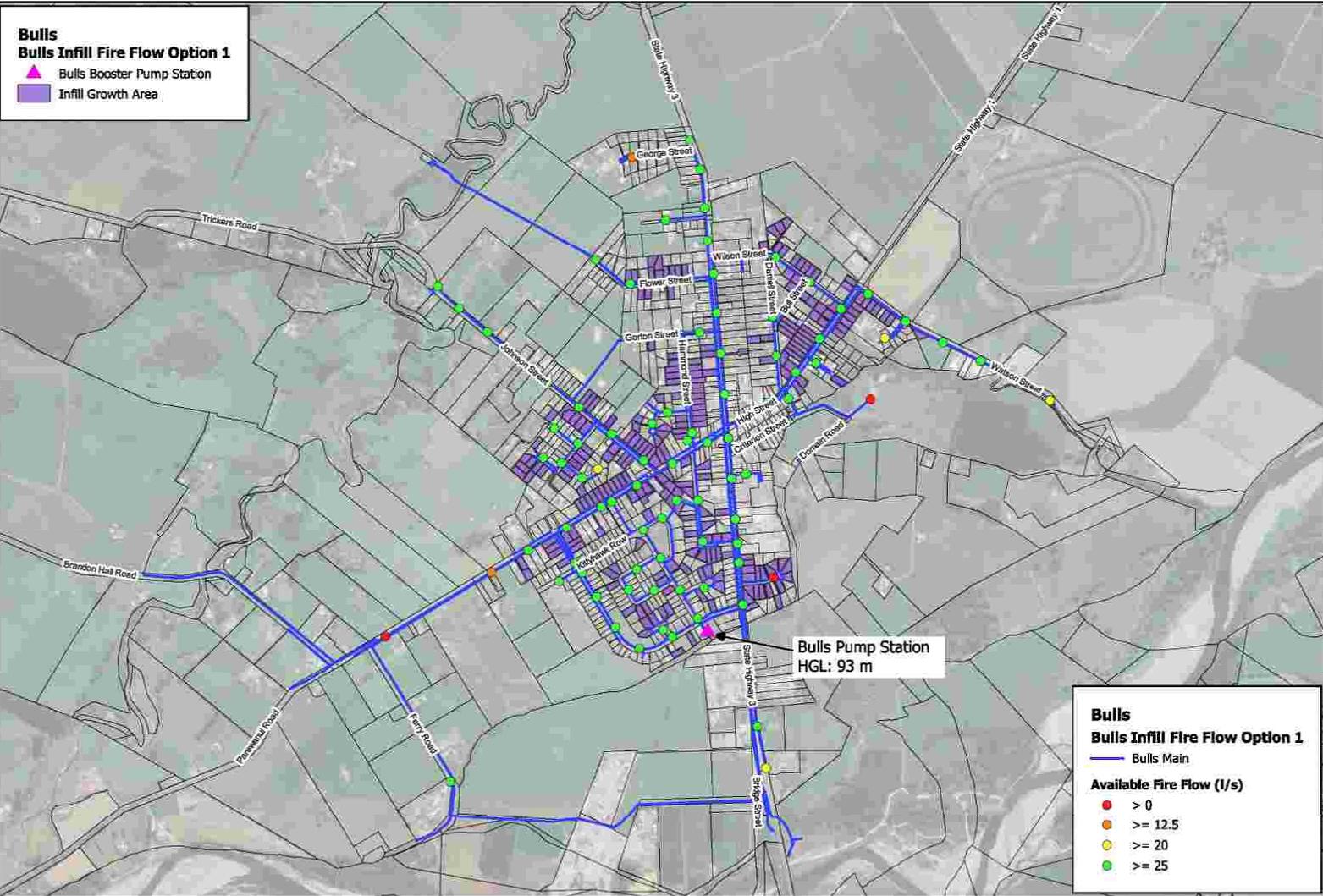
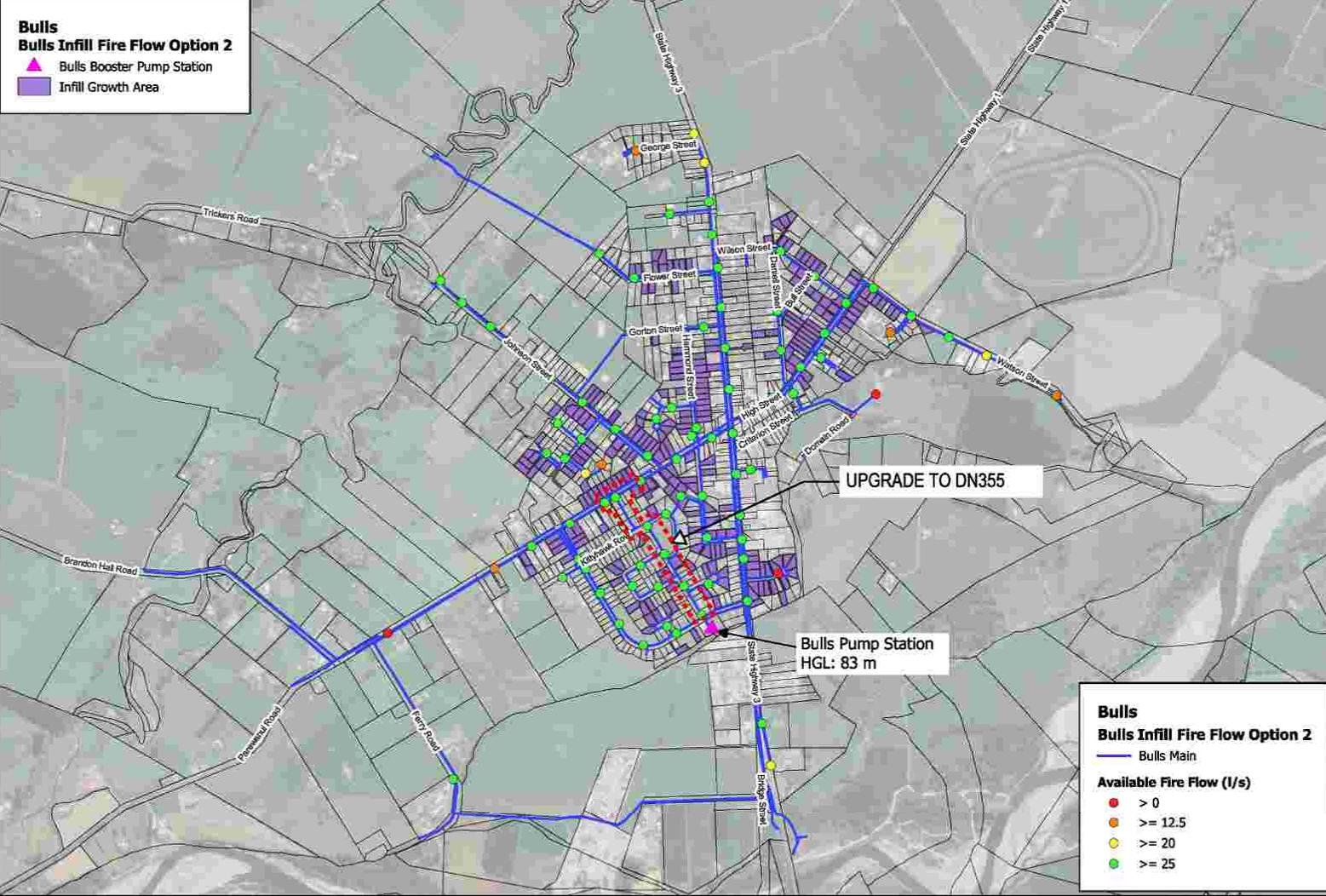


Figure 5.1.5 Bulls Infill Water Supply Option 2 Fire Flow (FW2) Assessment with Proposed Upgrades



Bulls
Bulls Infill Fire Flow Option 2
 ▲ Bulls Booster Pump Station
 ■ Infill Growth Area

Bulls
Bulls Infill Fire Flow Option 2
 — Bulls Main
Available Fire Flow (l/s)
 ● > 0
 ● >= 12.5
 ● >= 20
 ● >= 25

Figure 5.2.1 Bulls Infill Wastewater Network Performance - Dry Weather Flow

