Appendix A

Modelling Results



Trunk Sewers

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

- Hooding
- HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

- d/D > = 0.8
- ___ q/Q >= 1

Existing Sanitary Sewer Infrastructure (VERTICAL)

WW Facilities

Existing Sanitary Sewer Infrastructure (LINEAR)

- Gravity Sewer
- --- Forcemain
 - Local Sewer

Figure 2-1

Existing Conditions
1-in-25-Year June 2014 Event Leitrim





Trunk Sewers

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

- Hooding
- HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

- d/D > = 0.8
- ___ q/Q >= 1

Existing Sanitary Sewer Infrastructure (VERTICAL)

Existing Sanitary Sewer Infrastructure (LINEAR)

- Gravity Sewer
- --- Forcemain
 - Local Sewer

Figure 2-2

Existing Conditions
1-in-5-Year June 2014 Event Leitrim





Trunk Sewers

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

- Hooding
- HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

- d/D > = 0.8
- ___ q/Q >= 1

Existing Sanitary Sewer Infrastructure (VERTICAL)

Existing Sanitary Sewer Infrastructure (LINEAR)

- Gravity Sewer
- --- Forcemain
 - Local Sewer

Figure 2-3

Existing Conditions
1-in-100-Year June 2014 Event Leitrim





- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Existing Sanitary Sewer Infrastructure

Existing Sanitary Sewer Infrastructure

Future Conditions (no Leitrim) 1-in-25-Year June 2014 Event



- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

HGL Near Surface (<1.8m Depth)

Existing Sanitary Sewer Infrastructure

Existing Sanitary Sewer Infrastructure

Future Conditions (no Leitrim) 1-in-5-Year June 2014 Event Leitrim

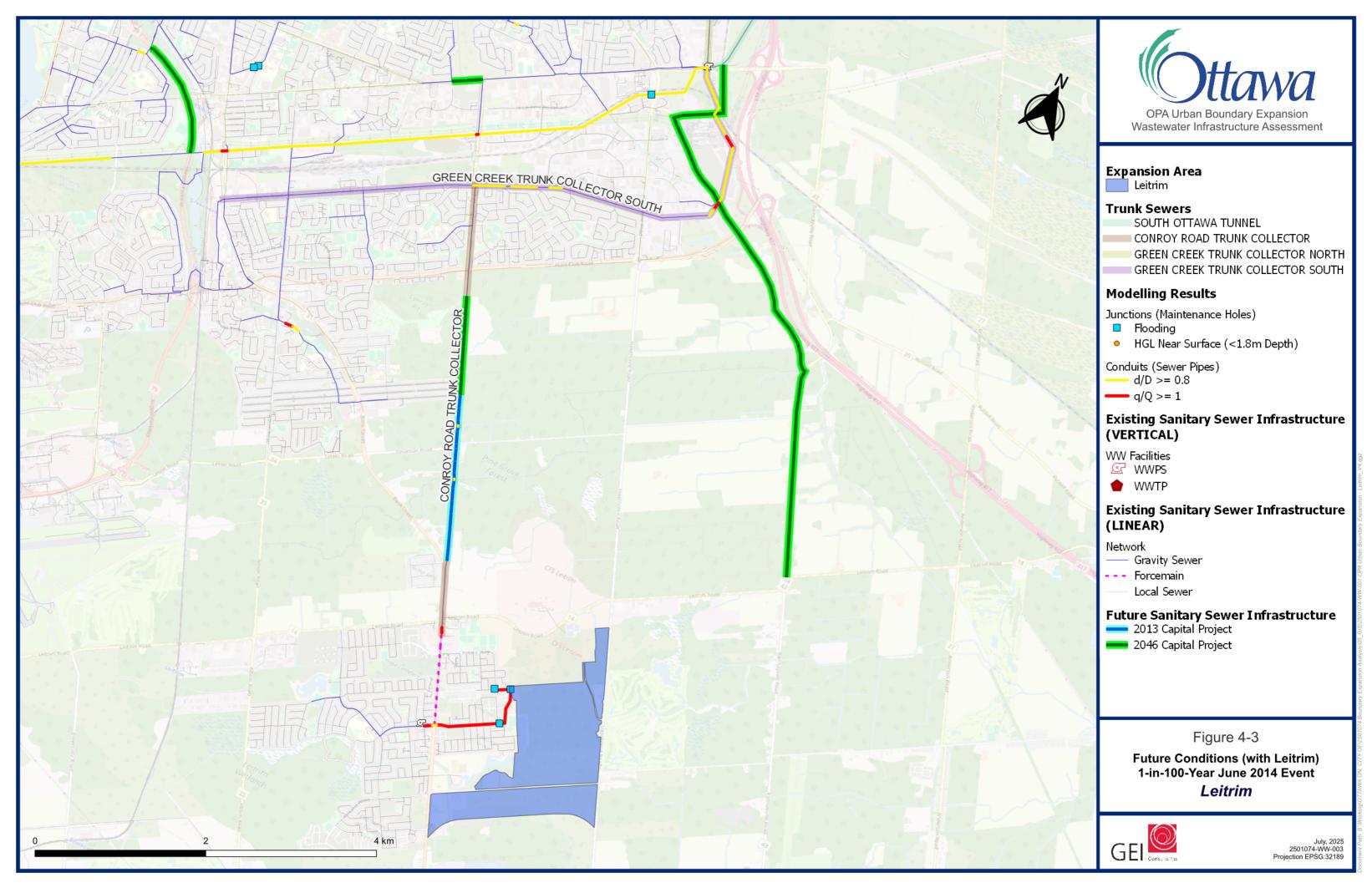


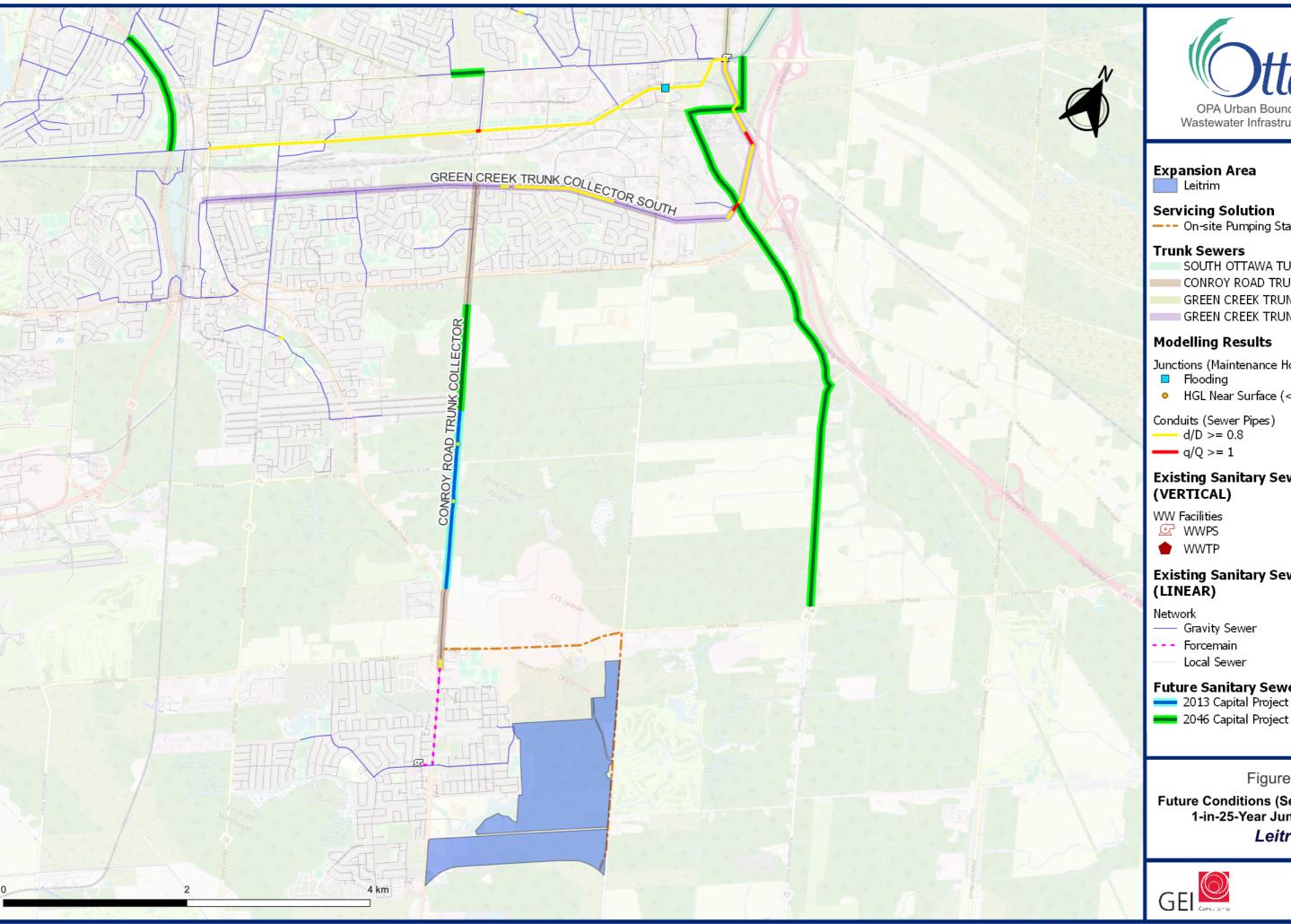
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Existing Sanitary Sewer Infrastructure

Existing Sanitary Sewer Infrastructure

Future Conditions (no Leitrim) 1-in-100-Year June 2014 Event







Expansion Area

Servicing Solution

--- On-site Pumping Station

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

• HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

Existing Sanitary Sewer Infrastructure (VERTICAL)

Existing Sanitary Sewer Infrastructure

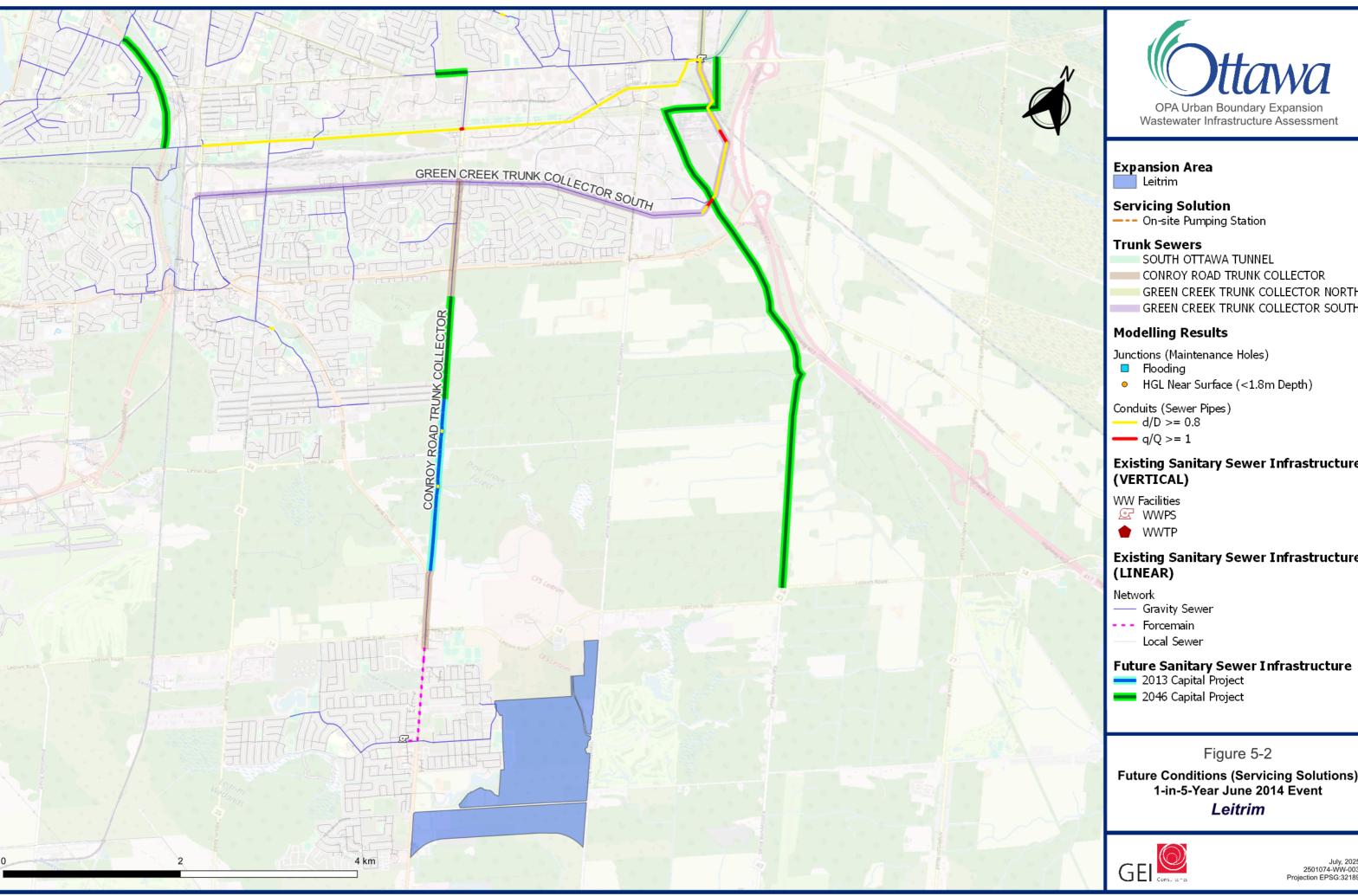
- Gravity Sewer

Future Sanitary Sewer Infrastructure 2013 Capital Project

Figure 5-1

Future Conditions (Servicing Solutions)
1-in-25-Year June 2014 Event Leitrim







Expansion Area

Servicing Solution

--- On-site Pumping Station

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

• HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

Existing Sanitary Sewer Infrastructure (VERTICAL)

Existing Sanitary Sewer Infrastructure

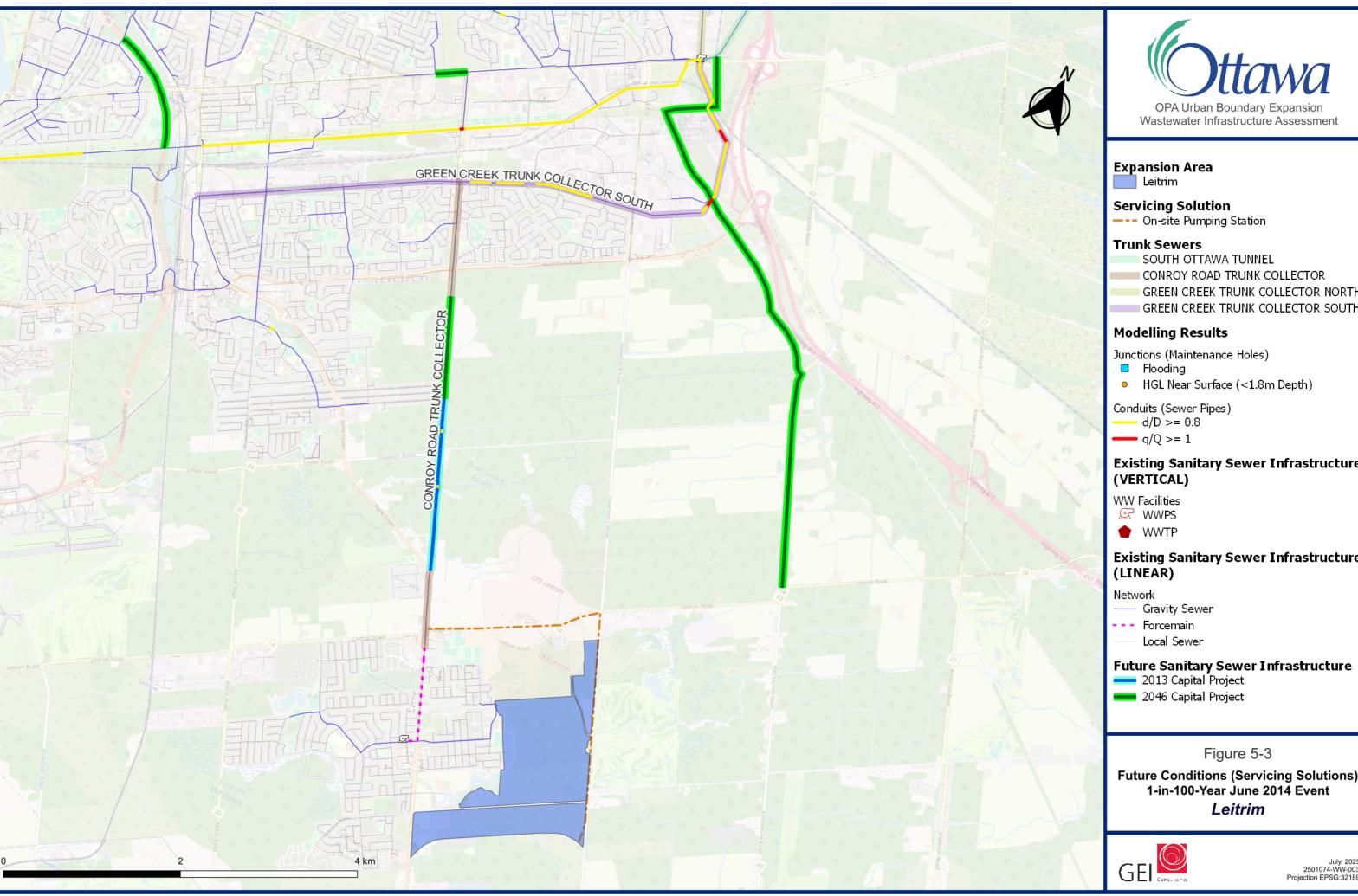
- Gravity Sewer
- Local Sewer

2046 Capital Project

Figure 5-2

Future Conditions (Servicing Solutions)
1-in-5-Year June 2014 Event Leitrim







Expansion Area

Servicing Solution

--- On-site Pumping Station

- SOUTH OTTAWA TUNNEL
- CONROY ROAD TRUNK COLLECTOR
- GREEN CREEK TRUNK COLLECTOR NORTH
- GREEN CREEK TRUNK COLLECTOR SOUTH

Modelling Results

Junctions (Maintenance Holes)

• HGL Near Surface (<1.8m Depth)

Conduits (Sewer Pipes)

Existing Sanitary Sewer Infrastructure (VERTICAL)

Existing Sanitary Sewer Infrastructure

- Gravity Sewer
- Local Sewer

- 2046 Capital Project

Figure 5-3

Future Conditions (Servicing Solutions)
1-in-100-Year June 2014 Event Leitrim

