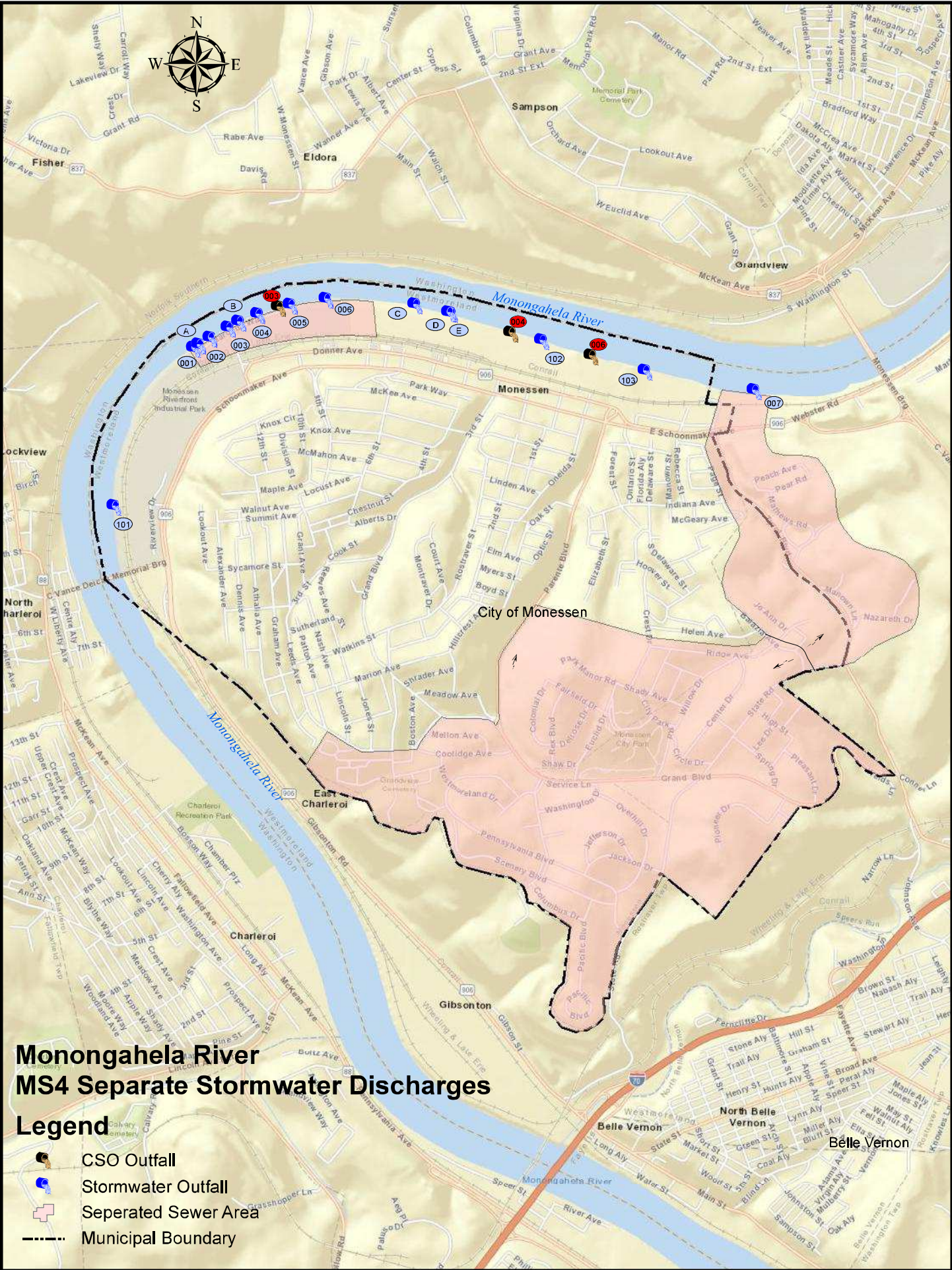


# **APPENDICES**

# **APPENDIX A**





## **Outfall Mapping**

# **Monongahela River Outfall Mapping**



# Monongahela River MS4 Separate Stormwater Discharges

## Legend

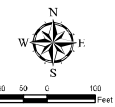
-  CSO Outfall
-  Stormwater Outfall
-  Separated Sewer Area
-  Municipal Boundary

**SEWER SYSTEM  
ASSESSMENT**

**M-1**

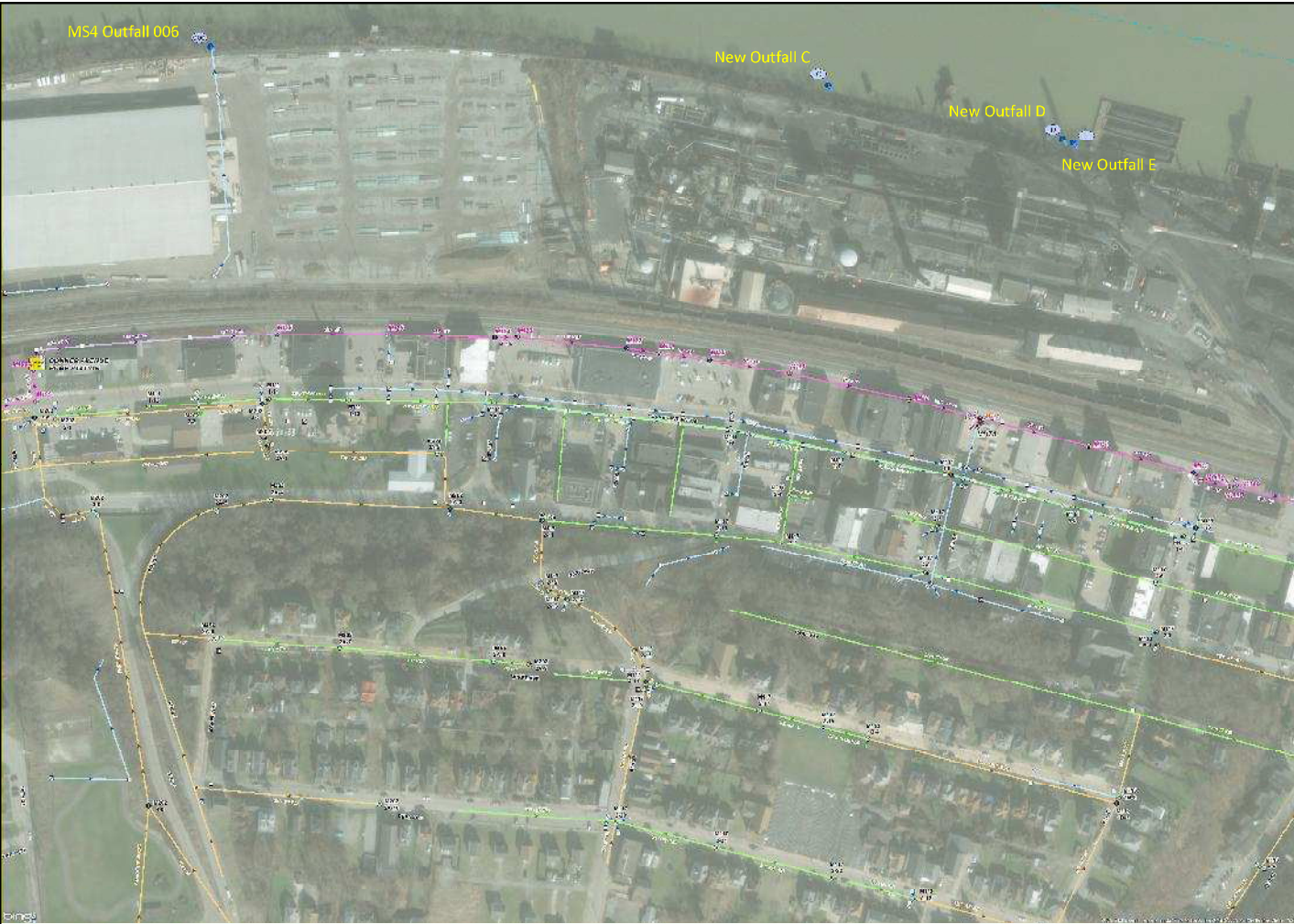
**LEGEND**

- Stormwater Outfall
- CSO Outfall
- Ejector Station
- Pump Station
- Treatment Plant
- M/SA Manhole
- Drop Manhole
- Diversion Manhole
- Air Release
- Sanitary Manhole
- Storm Manhole
- Abandoned Structure
- Cleanout
- Lamp Hole
- Catch Basin
- Headwall Structure
- Weir (Wall)
- Overflow Structure
- M/SA Force Main
- M/SA Interceptor
- Combination Sewer
- Sanitary Sewer
- Overflow Sewer
- Storm Sewer
- Private Sewer
- Abandoned Sewer
- Unverified Sewer
- Open Ditch Sewer
- Sanitary Sewer GBSS Ph1
- Sanitary Sewer GBSS Ph2
- Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	M-20

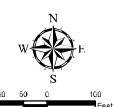




**SEWER SYSTEM  
ASSESSMENT**

**M-2**

- LEGEND**
- Stormwater Outfall
  - CSO Outfall
  - Ejector Station
  - Pump Station
  - Treatment Plant
  - M/SA Manhole
  - Drop Manhole
  - Diverter Manhole
  - Air Release
  - Sanitary Manhole
  - Storm Manhole
  - Abandoned Structure
  - Cleansout
  - Lamp Pole
  - Catch Basin
  - Headwall Structure
  - Weir (Wall)
  - Overflow Structure
  - M/SA Force Main
  - M/SA Interceptor
  - Combination Sewer
  - Sanitary Sewer
  - Overflow Sewer
  - Storm Sewer
  - Private Sewer
  - Abandoned Sewer
  - Unverified Sewer
  - Open Ditch Sewer
  - Sanitary Sewer GBSS Ph1
  - Sanitary Sewer GBSS Ph2
  - Municipal Boundary

































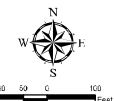
M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	
M-22			

**SEWER SYSTEM  
ASSESSMENT**

**M-3**

**LEGEND**

-  Stormwater Outfall
-  CSO Outfall
-  Ejector Station
-  Pump Station
-  Treatment Plant
-  M/VSA Manhole
-  Drop Manhole
-  Diversion Manhole
-  Air Release
-  Sanitary Manhole
-  Storm Manhole
-  Abandoned Structure
-  Cleansout
-  Lamphole
-  Catch Basin
-  Headwall Structure
-  Weir (Wall)
-  Overflow Structure
-  M/VSA Force Main
-  M/VSA Interceptor
-  Combination Sewer
-  Sanitary Sewer
-  Overflow Sewer
-  Storm Sewer
-  Private Sewer
-  Abandoned Sewer
-  Unverified Sewer
-  Open Ditch Sewer
-  Sanitary Sewer GBSS Ph1
-  Sanitary Sewer GBSS Ph2
-  Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	
M-22			

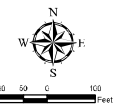


**SEWER SYSTEM  
ASSESSMENT**

**M-4**

**LEGEND**

- Stormwater Outfall
- CSO Outfall
- Ejector Station
- Pump Station
- Treatment Plant
- M/SA Manhole
- Drop Manhole
- Diverter Manhole
- Air Release
- Sanitary Manhole
- Storm Manhole
- Abandoned Structure
- Cleansout
- Lamp Pole
- Catch Basin
- Headwall Structure
- Weir Wall
- Overflow Structure
- M/SA Force Main
- M/SA Interceptor
- Combination Sewer
- Sanitary Sewer
- Overflow Sewer
- Storm Sewer
- Private Sewer
- Abandoned Sewer
- Unverified Sewer
- Open Ditch Sewer
- Sanitary Sewer GBSS Ph1
- Sanitary Sewer GBSS Ph2
- Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	
M-22			

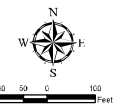




**SEWER SYSTEM  
ASSESSMENT**

**M-5**

- LEGEND**
- Stormwater Outfall
  - CSO Outfall
  - Ejector Station
  - Pump Station
  - Treatment Plant
  - M/SA Manhole
  - Drop Manhole
  - Diversion Manhole
  - Air Release
  - Sanitary Manhole
  - Storm Manhole
  - Abandoned Structure
  - Cleanout
  - Lamphole
  - Catch Basin
  - Headwall Structure
  - Weir (Wall)
  - Overflow Structure
  - M/SA Force Main
  - M/SA Interceptor
  - Combination Sewer
  - Sanitary Sewer
  - Overflow Sewer
  - Storm Sewer
  - Private Sewer
  - Abandoned Sewer
  - Unverified Sewer
  - Open Ditch Sewer
  - Sanitary Sewer GBSS Ph1
  - Sanitary Sewer GBSS Ph2
  - Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	
			M-22

















**UNT#1 to the Monongahela River Mapping  
(Grand Boulevard)**

**SEWER SYSTEM  
ASSESSMENT**

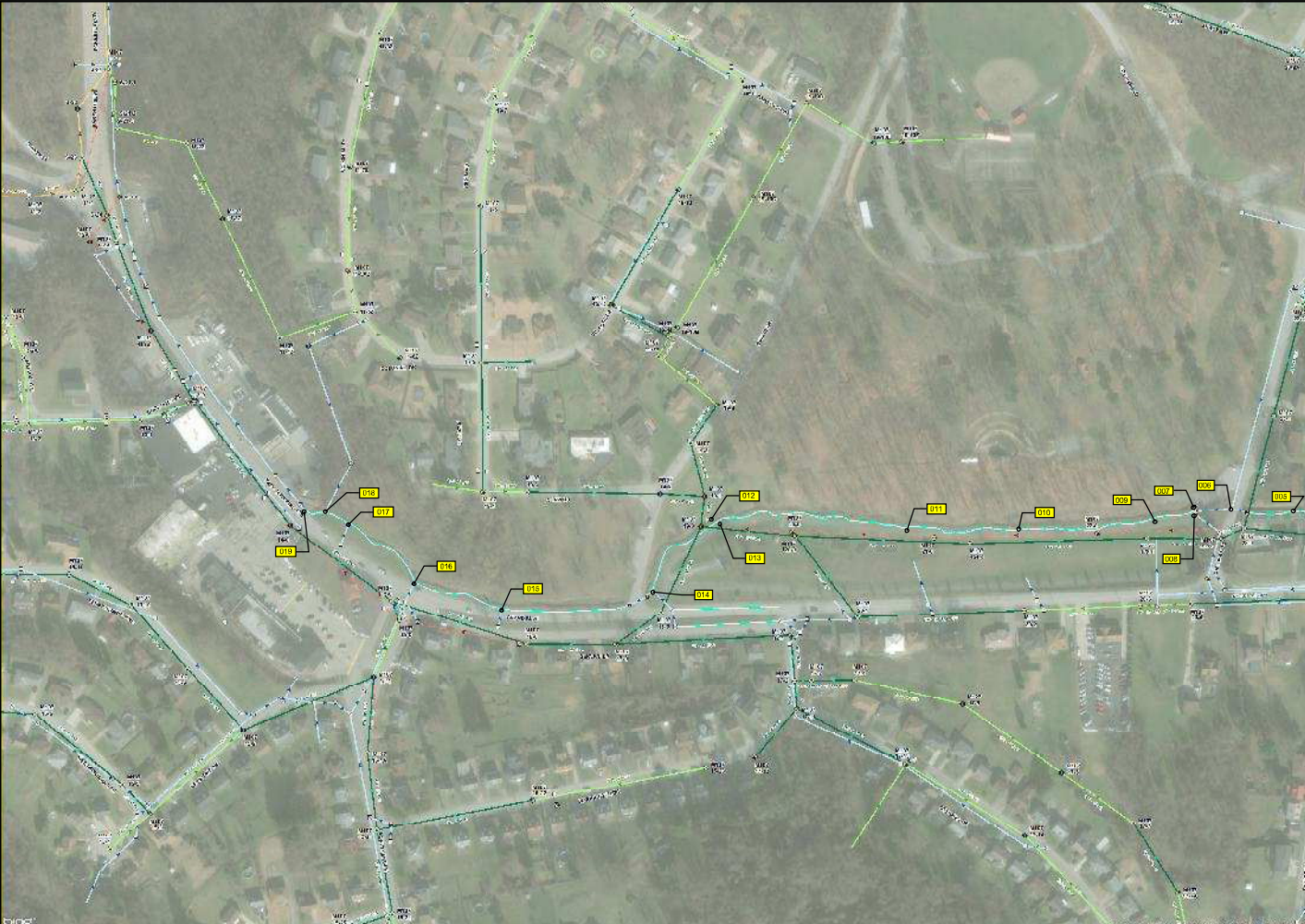
**M-15**

**LEGEND**

-  Stormwater Outfall
-  CSD Outfall
-  Ejector Station
-  Pump Station
-  Treatment Plant
-  M/SA Manhole
-  Drop Manhole
-  Diversion Manhole
-  Air Release
-  Sanitary Manhole
-  Storm Manhole
-  Abandoned Structure
-  Cleansout
-  Lampshade
-  Catch Basin
-  Headwall Structure
-  Weir Wall
-  Overflow Structure
-  M/SA Force Main
-  M/SA Interceptor
-  Combination Sewer
-  Sanitary Sewer
-  Overflow Sewer
-  Storm Sewer
-  Private Sewer
-  Abandoned Sewer
-  Unverified Sewer
-  Open Ditch Sewer
-  Sanitary Sewer GBSS Ph1
-  Sanitary Sewer GBSS Ph2
-  Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	M-20

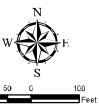


**SEWER SYSTEM  
ASSESSMENT**

**M-16**

**LEGEND**

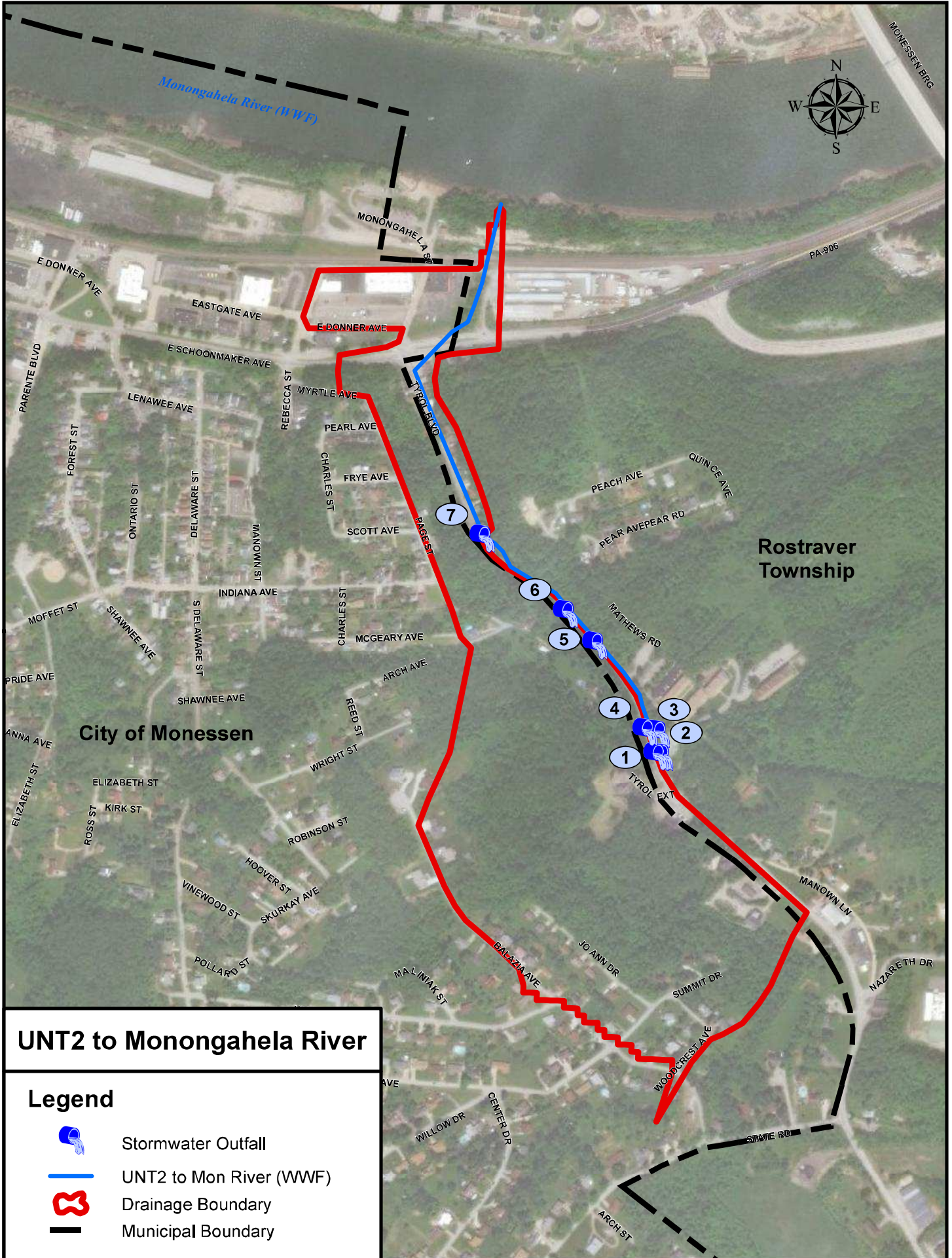
- Stormwater Outfall
- CSO Outfall
- Ejector Station
- Pump Station
- Treatment Plant
- M/SA Manhole
- Drop Manhole
- Diversion Manhole
- Air Release
- Sanitary Manhole
- Storm Manhole
- Abandoned Structure
- Cleanout
- Lamphole
- Catch Basin
- Headwall Structure
- Weir (Wall)
- Overflow Structure
- M/SA Force Main
- M/SA Interceptor
- Combination Sewer
- Sanitary Sewer
- Overflow Sewer
- Storm Sewer
- Private Sewer
- Abandoned Sewer
- Unverified Sewer
- Open Ditch Sewer
- Sanitary Sewer GBSS Ph1
- Sanitary Sewer GBSS Ph2
- Municipal Boundary



M-1	M-2	M-3	M-4
M-5	M-6	M-7	M-8
M-9	M-10	M-11	M-12
M-13	M-14	M-15	M-16
M-17	M-18	M-19	M-20



# **UNT#2 to the Monongahela River Mapping (Tyrol Boulevard)**



# **UNT to Speers Run Mapping (State Road)**