



**Public Works Department**  
117 N Molalla Avenue  
PO Box 248  
Molalla, Oregon 97038  
Phone: (503) 829-6855  
Fax: (503) 829-3676

February 13, 2017

David Cole  
Oregon DEQ – Northwest Region  
700 NE Multnomah St, Suite 600  
Portland, OR 97232

**RE: 2016 ANNUAL INFLOW & INFILTRATION REPORT**

This report is to provide an annual summary of the actions the City of Molalla has taken for the 2016 calendar year in accordance with City's Inflow and Infiltration Assessment and Reduction Plan and NPDES Permit No. 101514.

Please feel free to contact me (503) 759-0218 if you have and questions in regards to this letter or requirements above.

Regards,

Gerald Fisher  
Public Works Director

Cc: Dan Huff, City Manager  
Dennis Welle, Public Works Supervisor

## 2016 MOLALLA INFLOW & INFILTRATION REPORT

| Project/Task        | Description & Information   |
|---------------------|---|
| Manhole Inspections | Public Works inspected and evaluated the condition of its sanitary sewer manholes between June and August of 2016 to identify summer infiltration. All of the City's five hundred-twenty nine manholes were assessed for defining characteristics, current condition, and I/I assessment during low groundwater conditions. The crew found thirty-one (31) manholes with significant infiltration and twenty-nine (29) with minor infiltration. These manholes will be scheduled for repairs in the spring/summer of 2017 pending an acceptable bid and adequate budget. Mapping of these manholes was completed in September 2016 with a wet-season inspection planned for the winter of 2017. A map showing summer infiltration has been provided in the Appendix A.  |
| System Assessment   | With the change in staffing at the Director level, a review of the work to date identified issues related to cleaning and inspecting the sewer trunk along Toliver Road. The amount of I&I flowing into the trunk line made it impossible to video this line and determine its condition. Cleaning and video inspection efforts were refocused on the upper reaches of the Toliver and Bear Creek basin to identify repair needs that would allow the City to effectively reduce the I&I within these basins. A reduction in I&I would then allow the City to clean and video the Toliver and Bear Creek trunk lines at a future date. A map showing revised cleaning and inspection priorities has been provided in the Appendix B. Additional lines are drawn in light yellow and the removed lines are drawn in light red. |
| Sewer Line Cleaning | To prepare for CCTV inspection work, City crews began an aggressive sewer line cleaning program in the month of January 2016. To date, 65,790 linear feet of sewer line has been cleaned. A map showing the lines cleaned to date has been provided in the Appendix C.  |
| CCTV Inspections    | As sewer lines were cleaned, that information was relayed to Pacific INT-R-TEK to video inspect each cleaned line and report on the condition of the sanitary sewer lines. To date, the CCTV crew has inspected 55,011 linear feet of pipe. As Pacific INT-R-TEK completes its inspections and reporting, the City will begin prioritizing and budgeting areas for repair and replacement of compromised lines. A map showing lines inspected to date has been provided in the Appendix D.  |

## 2016 MOLALLA INFLOW & INFILTRATION REPORT

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|                             |  |
|-----------------------------|--|
| Vactor Truck Purchase       | The City made its third payment towards the purchase of its vactor truck. This piece of equipment is critical to the City's ability to clean lines and manholes for inspection as well as clearing clogged sewer lines to avoid SSO's. |
| Molalla Avenue Improvements | As part of an Urban Renewal project to improve Molalla Avenue from 3 <sup>rd</sup> Street to Heintz Street, the City completed ten sewer lateral repairs to eliminate I&I issues at mainline connections.                              |

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## APPENDIX

| <i>APPENDIX</i> | <i>TITLE</i>                |
|-----------------|-----------------------------|
| <i>A</i>        | SUMMER MANHOLE INFILTRATION |
| <i>B</i>        | MODIFIED SEWER VIDEO MAP    |
| <i>C</i>        | SANITARY MAINS CLEANED      |
| <i>D</i>        | SANITARY MAINS INSPECTED    |

**Appendix A:**  
Summer Manhole  
Infiltration



**Map Features**

**Manholes**

- Major Infiltration (31)
- Minor Infiltration (29)
- No Infiltration Observed

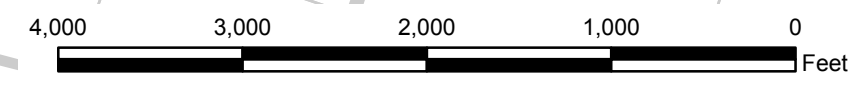
**Sanitary Mains**



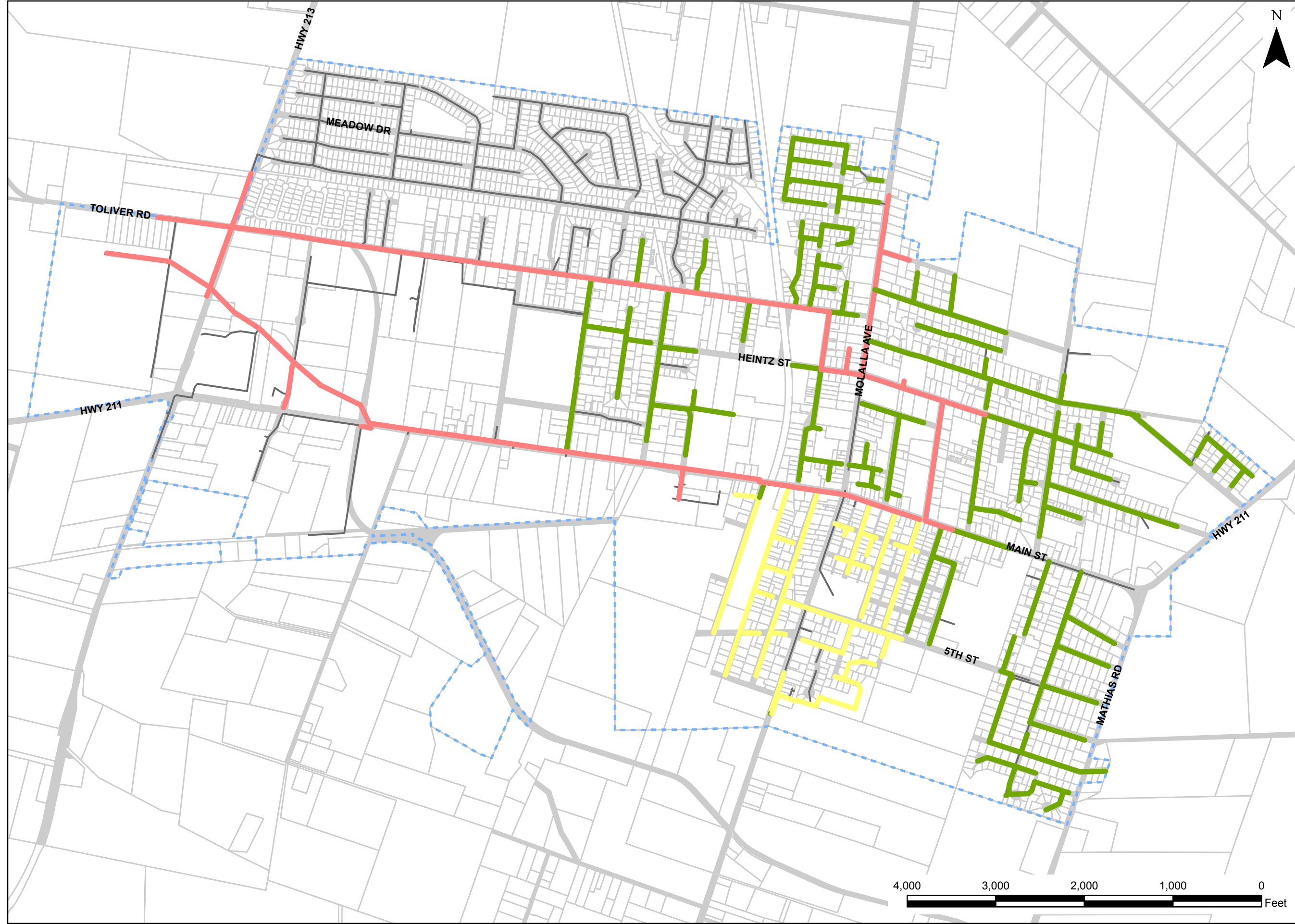
**City Boundary**








Scale = 1:12,500



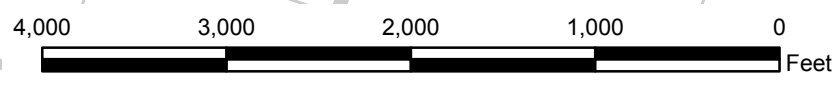
**Appendix B:**  
Modified Sewer Video Map



**Map Features**

- Mains**
-  CCTV Project Mains
  -  Appended to Project
  -  Omitted from Project
  -  Outside Project Scope
  -  City Boundary

Scale = 1:12,500






**Appendix C:**  
Sanitary Mains Cleaned

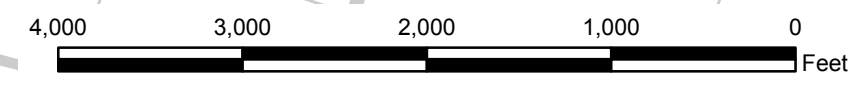


Total Inspected Lines:  
65,790 LFT

**Map Features**

- Mains**
-  Cleaned
  -  Sanitary Mains
  -  City Boundary

Scale = 1:12,500



**Appendix D:**  
*Sanitary Mains Inspected*



Total Inspected Lines:  
55,011 LFT

**Map Features**

- Mains**
- Inspected
  - Sanitary Mains
  - City Boundary

Scale = 1:12,500

