

# SUMMARY REPORT 2012

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## ST. THOMAS WATER DISTRIBUTION SYSTEM

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License Number: 057-101

Permit Number: 057-201

Provincial Regulation 170/03  
Summary Report

For the Period  
January 1<sup>st</sup> to December 31<sup>st</sup>, 2013



THE CORPORATION OF THE CITY OF  
**ST. THOMAS**

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# **1 Summary Report Requirements**

## **1.1 Introduction**

The 2013 Summary Report for the St. Thomas Water Distribution System is being submitted to satisfy Schedule 22 of Ontario Regulation 170/03, the requirement to prepare and distribute a summary report of water quality.

As per Ontario Regulation 170/03, the summary report must:

List the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and

- a. For each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- A comparison of the summary to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement, to the flow rates specified in the written agreement.

The information provided is for the purpose of enabling the owner of the system to assess the capacity of the system. This report covers the reporting period from January 1, 2013 to December 31, 2013.

## **1.2 System Approval**

The City of St. Thomas is supplied water from the Elgin Area Water Treatment Plant on Dexter Line east of Port Stanley Ontario. The distribution system has various approvals from the Ministry of Environment for the infrastructure as it was constructed.

During the reporting period, The St. Thomas Drinking Water System was operated pursuant to the approvals, licences and permits listed below:

The supply of water to the system governed by the following Municipal Drinking Water Licences (MDWL) and Drinking Water Works Permits (DWWP):

- City of St. Thomas Water Distribution System
  - MDWL No. 057-101, issued on August 31, 2011
  - DWWP No. 057-201, issued on August 31, 2011

- St. Thomas Area Secondary Water Supply System
  - MDWL No. 190-101, issued on August 31, 2011
  - DWWP No. 190-101, issued on August 31, 2011

The distribution of water within the system is governed by the following three licences and permits:

- City of St. Thomas Water Distribution System
  - MDWL No. 057-101, issued on August 31, 2011
  - DWWP No. 057-201, issued on August 31, 2011
- Southwold Distribution System
  - MDWL No. 055-101, issued on August 23, 2011
  - DWWP No. 055-201, issued on December 16, 2010
- Central Elgin Distribution System
  - MDWL No. 046-101, issued on August 11, 2011
  - DWWP No. 046-201, issued on August 23, 2011

The DWWP and MDWL were issued in accordance with the Safe Drinking Water Act (SDWA), 2002. The Certificates of Approval expired upon issuance of the respective DWWP and MDWL. Under authority of the SDWA, the Ministry of Environment is transitioning the approvals process for drinking water systems from one based on certificates of approval to one based on municipal licences and permits.

The City of St Thomas Environmental Services Department/Operations Division Water Section received the Certificate of Accreditation for Full Scope –Entire DWQMS May 17, 2013 Certificate # Cert-0064202 for all four systems they operate. The City of St Thomas Water Distribution File # 1631369, The St Thomas Area Secondary Water Supply System File # 1631370, The Municipality of Central Elgin Water Distribution System File # 1631368 and the Township of Southwold Water Distribution System (Lynhurst) File # 1631371

## **2 Water Quantity Summary**

### **2.1 Overview**

The St. Thomas Water Distribution System has three entry points into the network from the St. Thomas Area Secondary Water Supply System, the East Chamber located at the Elgin Middlesex Booster Station (490 South Edgeware Road), the West Chamber located in Water Works Park (2 South Edgeware), and the Wellington Road Chamber (Ford Line and Wellington Road), one entry point into the network from the Elgin Area Primary Water Supply System at the Albert Robert Booster Station (8754 Tyke Road) in the Municipality of Central Elgin and one entry point into the network from the Southwold Water Distribution System on Fingal Line at the municipal boundary.

## **2.2 Albert Roberts Booster Station – Elgin Area Primary Water Supply System**

The Albert Roberts Booster Station (ARBS) receives treated water from the Elgin Area Primary Water Supply System, which pumps water from the water treatment plant located on the shores of Lake Erie to the east of the Town of Port Stanley. Water is pumped from a connection point on the transmission main that connects water treatment plant to the Elgin Middlesex Pump Station and reservoir.

The ARBS is comprised of three high lift pumps that deliver water through a transmission main that services the St. Thomas Distribution System. The station maintains the operating pressure and includes a flow meter, chlorine analyzer, monitoring control, alarm system and instrumentation. Remote monitoring and control of the pumps capabilities are possible through the St. Thomas SCADA system.

Pump No. MV1 is a US Electrical Motors 29.8 kW (40 HP), 575V/3ph/60 HZ rated at 69.4 l/s at 23 m (75 feet) TDH at 1780 rpm. Pumps Nos. MV2 and MV3 are each U.S Electrical Motors 37.3 kW (50 HP), 575V/3ph/60HZ rated at 100.9 l/s at 24.4 m (80 feet) TDH at 1780 rpm. All pumps are equipped with VFDs (variable frequency drives). The facility includes the provisions for future installation of a stand-by generator set as well as a fourth pump.

All pumps use a common header and the firm rated pumping capacity (2 pumps operating) of the ARBS is 170.3 l/s or a total of 14,714 m<sup>3</sup>/d). There is no additional treatment nor rechlorination of the water supply delivered to the City of St. Thomas Water Distribution System from the ARBS. The booster pumps have an interlock booster pump shutdown and alarm upon receiving a low free chlorine residual signal.

The ARBS instrumentation equipment includes a prominent chlorine (internal pH compensation) analyzer which continuously monitors the free chlorine residual and pH. The flow meter is a Fisher Porter and is calibrated by an external contractor on a yearly basis. Flow and free chlorine residuals are monitored through SCADA and transmitted back to the Public Works Service Centre located at 100 Burwell Road, St. Thomas Ontario.

## **2.3 East, West and Wellington Chambers – St. Thomas Area Secondary Water Supply System**

The East, West and Wellington Chamber provide water from the St. Thomas Area Secondary Water Supply System and have a total volume limit of 54,605 m<sup>3</sup>/day that was established jointly within the Elgin Middlesex Pumping Station Certificate. The Summary Report for the Elgin Middlesex Pumping Station will summarize flows and capacity for the St. Thomas Area Secondary Water Supply System. The chambers contain flow meters, online chlorine analyzers and pressure gauges that are linked and monitored through SCADA and transmitted back to the to the Public Works Service Centre located at 100 Burwell Road, St. Thomas Ontario.

## **2.4 Fingal Line Chamber – Southwold Water Distribution System**

The Fingal Line Chamber supplies water from the Southwold Water Distribution System to a section of the St. Thomas Water Distribution System along Fingal Line. The water in the Southwold Water Distribution System originates from the St. Thomas Area Secondary Water Supply System. The water is rechlorinated within the Southwold Water Distribution System. The chamber contains a flow meter. The volumes limits entering the St. Thomas Distribution System from the Southwold Water Distribution System are part of the overall volume limit of 54,605 m<sup>3</sup>/day that was established jointly within the Elgin Middlesex Pumping Station Certificate.

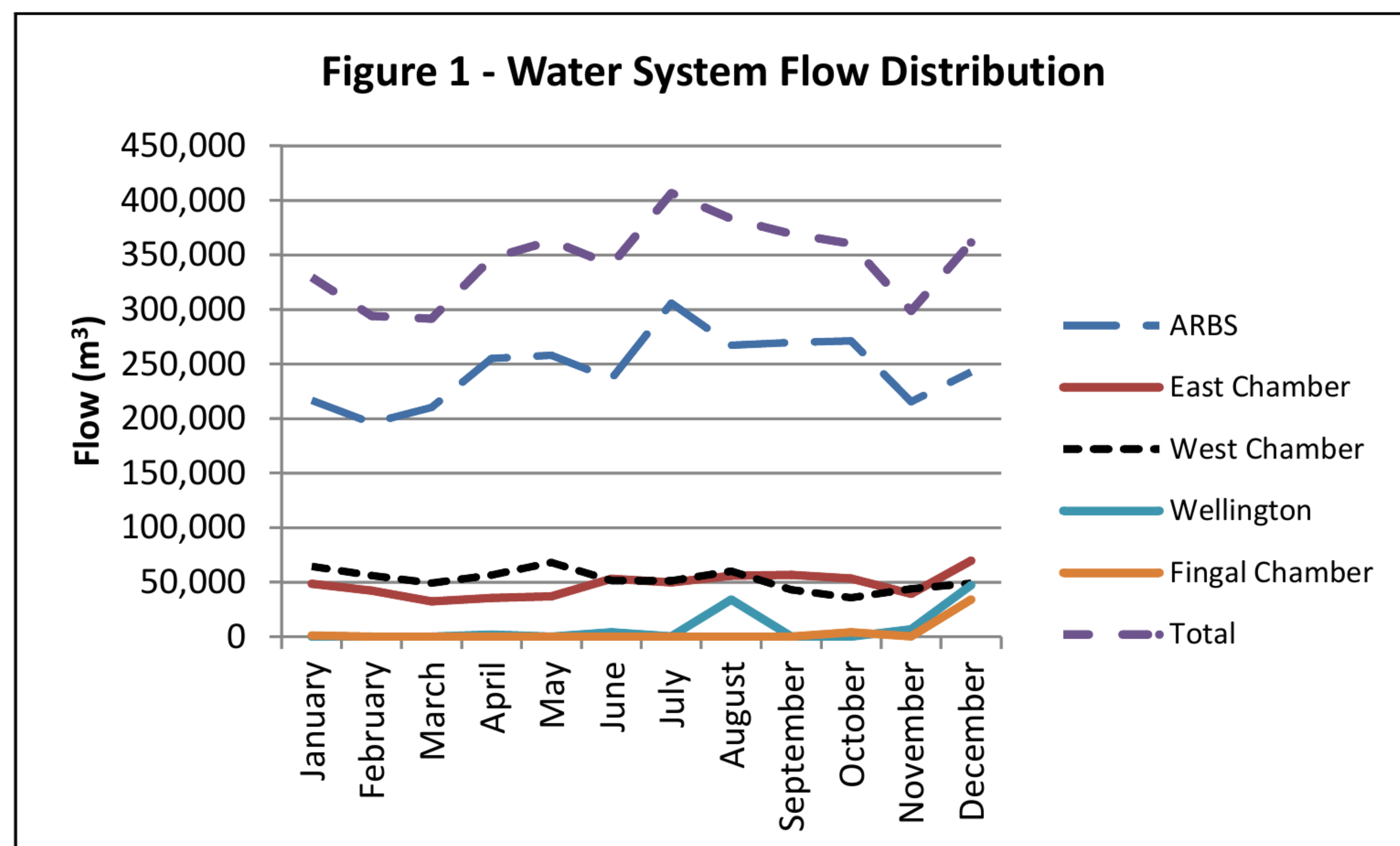
## 2.5 St Thomas Water Distribution System – Flow Distribution

An overview of the flows entering the St Thomas Water Distribution System is provided on Table 1, ( based on monthly bulk meter readings on SCADA)

| Month     | Albert Roberts BS (m <sup>3</sup> ) | East Chamber (m <sup>3</sup> ) | West Chamber (m <sup>3</sup> ) | Wellington Road Chamber (m <sup>3</sup> ) | Fingal Line Chamber (m <sup>3</sup> ) | Total System Flow (m <sup>3</sup> ) |
|-----------|-------------------------------------|--------------------------------|--------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|
| January   | 216,515                             | 48,517                         | 64,471                         | 0                                         | 1,148                                 | 329,503                             |
| February  | 195,767                             | 42,183                         | 56,064                         | 60                                        | 0                                     | 294,014                             |
| March     | 210,019                             | 32,390                         | 49,131                         | 0                                         | 0                                     | 291,540                             |
| April     | 254,919                             | 35,585                         | 56,519                         | 2,045                                     | 66                                    | 347,023                             |
| May       | 257,924                             | 37,061                         | 68,029                         | 23                                        | 0                                     | 363,014                             |
| June      | 236,285                             | 53,138                         | 51,344                         | 3,975                                     | 7                                     | 340,767                             |
| July      | 305,713                             | 49,741                         | 51,174                         | 205                                       | 65                                    | 406,628                             |
| August    | 267,080                             | 55,860                         | 60,073                         | 33,956                                    | 0                                     | 383,013                             |
| September | 269,609                             | 56,585                         | 43,082                         | 181                                       | 60                                    | 369,276                             |
| October   | 271,143                             | 53,378                         | 35,669                         | 23                                        | 3,975                                 | 360,190                             |
| November  | 215,354                             | 39,299                         | 43,894                         | 6,680                                     | 205                                   | 298,547                             |
| December  | 242,616                             | 69,642                         | 48,968                         | 47,324                                    | 33,956                                | 361,226                             |
| Totals    | 2,942,944                           | 573,379                        | 628,418                        | 94,472                                    | 39,482                                | 4,144,741                           |

**Table 1 – Annual Water Quantity Summary**

**Figure 1** provides a graphical overview of the flows entering the St. Thomas Water Distribution System. Based on the 2013 flow data, the distribution of flows into the distribution system between the water supplied from the Albert Roberts Booster Station versus the St. Thomas Area Secondary Water Supply System (through the East, West and Wellington Chambers) and Fingal Line Chamber is calculated to be **70** percent.

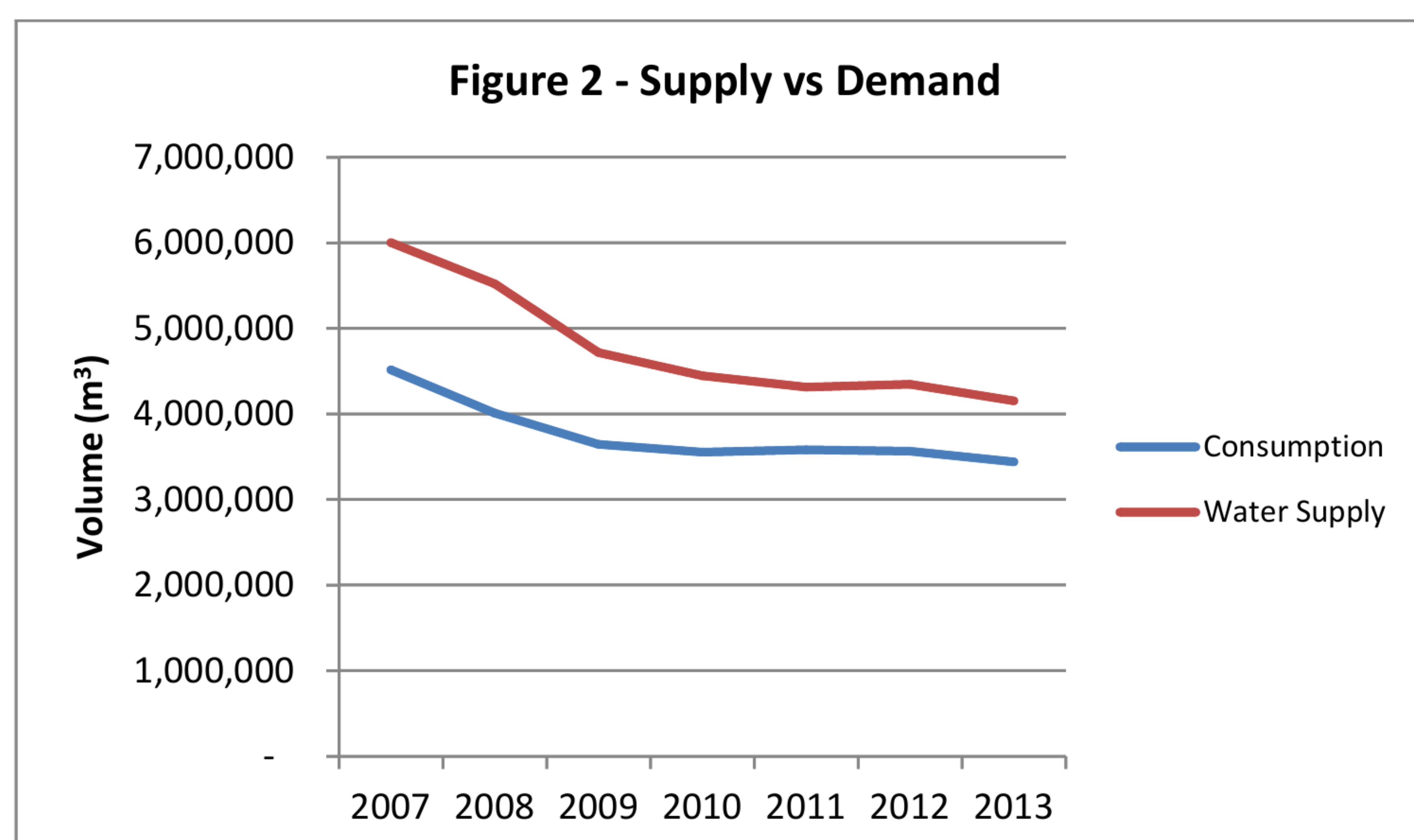


The total flow into the St. Thomas Water Distribution System decreased 3% from 4.31 M m<sup>3</sup> in 2010 to 4.15 M m<sup>3</sup> in 2013.

The total consumption by customers of the St. Thomas Water Distribution System decreased minimally from 3.56 M m<sup>3</sup> in 2012 to 3.44 M m<sup>3</sup> in 2013.

The unaccounted water loss in the St. Thomas Water Distribution System was approximately 11 %. This can be attributed to an aggressive leak detection program, relining of existing watermain, capital improvements and monitoring of all water uses from maintenance/capital initiatives.

**Figure 2** provides an overview of the supply vs consumption flows in the St. Thomas Water Distribution System over the last number of years. It demonstrates the effects of the program in reducing unaccounted water loss.



## 2.6 Water Quantity Analysis – Albert Roberts Booster Station

The rated pumping capacity (2 pumps operating) of the Albert Roberts Booster Station is 170.3 L/s or a total of 14,714 m<sup>3</sup>/d).

The maximum daily flow to the system from the Albert Roberts Booster Station occurred on June 24, 2013 with a daily flow of 10,006 m<sup>3</sup>/day, 68 % of the station capacity. This would be considered a normal dry weather occurrence and there were no unusual operating conditions within the system to report. The total flow from the Booster station was on average approximately 7869 m<sup>3</sup>/day, which is 54 % of the station capacity.

A summary of the monthly peak flows at the station collected by the Scada system is provided on **Table 2**.

**Table 2 – Albert Roberts Booster Station Water Quantity Summary**

| Month       | Max Daily<br>Instantaneous<br>Peak Flow | Average Daily<br>Total Flow | Maximum<br>Daily Total<br>Flow | Total<br>Monthly<br>Flow |
|-------------|-----------------------------------------|-----------------------------|--------------------------------|--------------------------|
|             | l/s                                     | m <sup>3</sup> /day         | m <sup>3</sup> /day            | m <sup>3</sup> /day      |
| January     | 182.99                                  | 6909.18                     | 7831.50                        | 214184.50                |
| February    | 123.60                                  | 6861.54                     | 7462.50                        | 192123.00                |
| March       | 131.70                                  | 7455.84                     | 7950.00                        | 231131.00                |
| April       | 158.69                                  | 7590.57                     | 8002.50                        | 217717.00                |
| May         | 143.35                                  | 8130.65                     | 9311.00                        | 252050.00                |
| June        | 154.61                                  | 8295.80                     | 10006.50                       | 248874.00                |
| July        | 148.23                                  | 9002.16                     | 9753.50                        | 279067.00                |
| August      | 222.36                                  | 8728.95                     | 9120.50                        | 270597.50                |
| September   | 300.00                                  | 8503.97                     | 8977.00                        | 255119.00                |
| October     | 152.99                                  | 8303.26                     | 8879.50                        | 257401.00                |
| November    | 140.19                                  | 7563.68                     | 8132.50                        | 226910.50                |
| December    | 133.37                                  | 7002.10                     | 7973.50                        | 217065.00                |
|             |                                         |                             |                                |                          |
| 2013 Yearly | 300.00                                  | 7868.89                     | 10006.50                       | 2872144.5                |

**Appendix A** includes a detailed summary of the monthly average and maximum daily flows for the Albert Roberts Booster Station.

## 2.7 Albert Roberts Booster Station – System Interruptions

A listing of system interruptions is noted in the Albert Roberts Booster Station logbook.

| Date                                                     | Issue                                                               | Corrective Action/Issue                                                                                                                         |
|----------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| East Chamber<br>Mar 8 & 28/13<br>Sept 1/13               | .07 Chlorine Residual<br>0 Chlorine Residual                        | OCWA doing Maintenance on Chlorine Analyzer<br>OCWA doing Maintenance on Chlorine Analyzer                                                      |
| Albert Roberts PS<br>April 18/13                         | 0 Chlorine Residual                                                 | Station Shut down for Maintenance                                                                                                               |
| Southdale Chamber<br>Feb 15/13<br>July 4/13<br>Nov 28/13 | 0 Chlorine Residual<br>.04 Chlorine Residual<br>0 Chlorine Residual | Operator doing maintenance on Chlorine Analyzer<br>Operator doing maintenance on Chlorine Analyzer<br>Equipment failure tested and recalibrated |
| Ford Chamber<br>Nov 1/13                                 | 0 Chlorine Residual                                                 | Operator doing maintenance on Chlorine Analyzer                                                                                                 |
| Southwold Chamber<br>June 18/13<br>July 4/13             | 0 Chlorine Residual<br>0 Chlorine Residual                          | Operator doing maintenance on Chlorine Analyzer<br>Operator doing maintenance on Chlorine Analyzer                                              |
| Wellington Road<br>July 4/13                             | 0 Chlorine Residual                                                 | Operator doing maintenance on Chlorine Analyzer                                                                                                 |

## 2.8 Water Quantity Analysis – East, West, Wellington and Fingal Line Chambers

The Summary Report for the Elgin Middlesex Pumping Station will summarize flows and capacity for the entire St. Thomas Area Secondary Water Supply System.

### 3 Water Quality Summary

#### 3.1 Albert Roberts Booster Station Samples

Water quality sampling at the Albert Roberts Booster Station is performed in accordance with Ontario Regulation 170/03. Chlorine residual is monitored by an on-line analyzer and is calibrated annually by licensed contractors. A summary of the flows at the station collected by the Scada system is provided on **Table 3**.

**Table 3 – Albert Roberts Booster Station Water Quality Summary**

| Month       | Free Chlorine Residual (mg/l) |         |         |
|-------------|-------------------------------|---------|---------|
|             | Average                       | Maximum | Minimum |
| January     | 1.18                          | 1.86    | 0.50    |
| February    | 1.19                          | 1.98    | 0.48    |
| March       | 1.16                          | 2.00    | 0.44    |
| April       | 1.11                          | 1.83    | 0.00    |
| May         | 1.15                          | 1.70    | 0.55    |
| June        | 1.13                          | 1.66    | 0.55    |
| July        | 1.08                          | 1.53    | 0.57    |
| August      | 1.11                          | 1.75    | 0.47    |
| September   | 1.10                          | 1.76    | 0.29    |
| October     | 1.18                          | 2.00    | 0.32    |
| November    | 1.18                          | 2.00    | 0.50    |
| December    | 1.15                          | 1.88    | 0.78    |
| 2013 Yearly | 1.14                          | 2.00    | 0.00    |

*\*Note: Less than minimum chlorine residual was recorded on 2 instances by the SCADA system. These onetime readings were a result of power outages as recorded in Section 2.3. Residuals were either manually recorded or no flows into the system occurred during these system interruptions.*

### 3.2 Water Distribution System Samples

Microbiological testing was done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period. **Table 4** summarizes the results of the microbiological testing.

**Table 4 – Microbiological Testing Summary**

|                           | <b>Number of Samples</b> | <b>Range of E.Coli Or Fecal Results (min #)-(max #)</b> | <b>Range of Total Coliform Results (min #)-(max #)</b> | <b>Number of HPC Samples</b> | <b>Range of HPC Results (min #)-(max #)</b> |
|---------------------------|--------------------------|---------------------------------------------------------|--------------------------------------------------------|------------------------------|---------------------------------------------|
| <b>Distribution Total</b> | 816                      | 0-1                                                     | 0-1                                                    | 640                          | <10 – >2000                                 |
| St. Thomas                | <b>692</b>               | <b>0-1</b>                                              | <b>0-1</b>                                             | <b>554</b>                   | <b>&lt;10 – &gt;2000</b>                    |
| Central Elgin             | <b>111</b>               | <b>0-0</b>                                              | <b>0-0</b>                                             | <b>73</b>                    | <b>&lt;10 - 280</b>                         |
| Southwold                 | <b>13</b>                | <b>0-0</b>                                              | <b>0-0</b>                                             | <b>13</b>                    | <b>&lt;10 - 10</b>                          |

**Table 5** summarizes the incidents where a parameter under Regulation 170/03 exceeded the standard prescribed in the Ontario Drinking Water Quality Standards.

**Table 5 – Sampling Parameter Results**

| <b>Incident Date</b> | <b>Parameter</b>      | <b>Result</b>  | <b>Unit of Measure</b> | <b>Corrective Action</b>                          | <b>Corrective Action Date</b> |
|----------------------|-----------------------|----------------|------------------------|---------------------------------------------------|-------------------------------|
| <b>Sept 21 2013</b>  | <b>Water Pressure</b> | <b>&lt;20</b>  | <b>psi</b>             | <b>Flush hydrants and take chlorine residuals</b> | <b>Sept 21 2013</b>           |
| <b>Dec 17 2013</b>   | <b>TC and EC</b>      | <b>1 and 1</b> | <b>cfu/100 ml</b>      | <b>Re-sample &amp; flush</b>                      | <b>Dec 17 2013</b>            |

All samples taken during the most recent testing period for Inorganic (not including Lead) and Organic parameters met the standards of the Safe Drinking Water Act Regulation 170/03.

### 3.3 Lead Testing Samples

**Table 6 – Lead Sampling Summary**

| Location Type | Number of Samples | Range of Lead Results (min#) – (max #) | Number of Exceedances |
|---------------|-------------------|----------------------------------------|-----------------------|
| Plumbing      |                   |                                        |                       |
| Distribution  |                   |                                        |                       |
|               |                   |                                        |                       |

St Thomas is on a reduced lead testing program until 2014

At any locations where the plumbing samples exceeded the standards, the water service to the home was checked and replaced within the City right of way limits by Operations staff if a lead service was found. Home owners were notified of the results and advised to change the lead pipes on the private side of the service if they exist.

Humans are exposed to lead through food, water, and air. Historically, lead in tin cans and paint were major sources of exposure in food and air respectively. The relative importance of water-borne lead sources is increasing as other man-made sources of lead are reduced through changing industrial practices. Ingested lead enters the blood through the stomach; it is then stored in bones and teeth.

## 4 Summary of Non Compliance Issues

### 4.1 Ministry of the Environment Drinking Water Inspection

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On May 14<sup>rd</sup> 2013, the Ministry of the Environment (MOE) conducted an inspection of the St. Thomas Distribution System. Subsequently, an Drinking Water Inspection Report documenting the results of the inspection was received outlining a description of the drinking water system, capacity assessment, treatment processes, the distribution system, operations manuals, logbooks, contingency/emergency planning, security, consumer relations, certification and training, water quality monitoring, quality water assessment, reporting and corrective actions and other inspection findings.

The Drinking Water Inspection Report found no non-compliance issues which did not meet the regulatory requirement and actions required. The Distribution was rated as having an inspection risk rating of 0% and achieving an overall final inspection rating of 100%, indicating that the risk is minimal.



# **APPENDIX A**

January 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|----------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                   | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 79.34                                   | 110.37                                       | 6840.50                        | 1.30                                                 | 1.76                                                 | 1.08                                                       |
| 2                    | 80.08                                   | 108.42                                       | 6899.00                        | 1.16                                                 | 1.29                                                 | 0.97                                                       |
| 3                    | 79.73                                   | 105.22                                       | 6896.00                        | 1.22                                                 | 1.34                                                 | 1.05                                                       |
| 4                    | 80.14                                   | 100.85                                       | 6916.00                        | 1.19                                                 | 1.49                                                 | 0.97                                                       |
| 5                    | 80.64                                   | 107.19                                       | 6975.50                        | 1.23                                                 | 1.54                                                 | 1.07                                                       |
| 6                    | 79.17                                   | 105.31                                       | 6842.00                        | 1.17                                                 | 1.31                                                 | 1.03                                                       |
| 7                    | 79.57                                   | 107.39                                       | 6861.00                        | 1.23                                                 | 1.52                                                 | 1.01                                                       |
| 8                    | 78.81                                   | 118.72                                       | 6787.00                        | 1.24                                                 | 1.41                                                 | 1.07                                                       |
| 9                    | 77.50                                   | 109.29                                       | 6688.00                        | 1.22                                                 | 1.41                                                 | 0.95                                                       |
| 10                   | 78.63                                   | 111.12                                       | 6782.00                        | 1.24                                                 | 1.86                                                 | 1.03                                                       |
| 11                   | 77.95                                   | 110.05                                       | 6721.50                        | 1.25                                                 | 1.50                                                 | 1.02                                                       |
| 12                   | 80.82                                   | 126.05                                       | 6978.00                        | 1.12                                                 | 1.24                                                 | 1.05                                                       |
| 13                   | 80.02                                   | 120.42                                       | 6896.50                        | 1.12                                                 | 1.19                                                 | 1.03                                                       |
| 14                   | 78.70                                   | 110.76                                       | 6740.50                        | 1.21                                                 | 1.43                                                 | 0.97                                                       |
| 15                   | 79.52                                   | 112.84                                       | 6856.50                        | 1.26                                                 | 1.43                                                 | 0.94                                                       |
| 16                   | 78.20                                   | 109.09                                       | 6763.00                        | 1.17                                                 | 1.57                                                 | 0.85                                                       |
| 17                   | 77.28                                   | 112.29                                       | 6674.00                        | 1.05                                                 | 1.35                                                 | 0.83                                                       |
| 18                   | 77.84                                   | 105.08                                       | 6725.50                        | 1.20                                                 | 1.45                                                 | 0.50                                                       |
| 19                   | 80.20                                   | 122.34                                       | 6944.00                        | 1.11                                                 | 1.22                                                 | 0.96                                                       |
| 20                   | 80.63                                   | 119.62                                       | 6960.00                        | 1.09                                                 | 1.17                                                 | 0.97                                                       |
| 21                   | 78.48                                   | 112.31                                       | 6790.00                        | 1.16                                                 | 1.43                                                 | 0.99                                                       |
| 22                   | 86.14                                   | 114.05                                       | 7443.00                        | 1.26                                                 | 1.50                                                 | 1.03                                                       |
| 23                   | 79.51                                   | 115.34                                       | 6861.50                        | 1.24                                                 | 1.45                                                 | 0.97                                                       |
| 24                   | 79.78                                   | 115.01                                       | 6887.50                        | 1.20                                                 | 1.35                                                 | 1.00                                                       |
| 25                   | 80.76                                   | 116.91                                       | 6962.00                        | 1.23                                                 | 1.47                                                 | 1.00                                                       |
| 26                   | 81.27                                   | 119.30                                       | 7014.00                        | 1.12                                                 | 1.25                                                 | 0.94                                                       |
| 27                   | 80.04                                   | 117.69                                       | 6931.50                        | 1.07                                                 | 1.17                                                 | 0.89                                                       |
| 28                   | 77.28                                   | 116.50                                       | 6677.00                        | 1.04                                                 | 1.15                                                 | 0.88                                                       |
| 29                   | 78.70                                   | 117.30                                       | 6801.50                        | 1.18                                                 | 1.37                                                 | 0.97                                                       |
| 30                   | 90.72                                   | 124.56                                       | 7831.50                        | 1.15                                                 | 1.29                                                 | 1.04                                                       |
| 31                   | 83.82                                   | 182.99                                       | 7238.50                        | 1.06                                                 | 1.33                                                 | 0.75                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                   | <b>214184.50</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>80.04</b>                            | <b>115.63</b>                                | <b>6909.18</b>                 | <b>1.18</b>                                          | <b>1.40</b>                                          | <b>0.96</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                   | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 182.99                                  | 182.99                                       | 586.00                         | 1.86                                                 | 1.86                                                 | 1.08                                                       |
| <i>Min</i>           | 28.24                                   | 100.85                                       | 0.00                           | 0.50                                                 | 1.15                                                 | 0.50                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                   | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 90.72                                   | 182.99                                       | 7831.50                        | 1.30                                                 | 1.86                                                 | 1.08                                                       |
| <i>Min</i>           | 77.28                                   | 100.85                                       | 6674.00                        | 1.04                                                 | 1.15                                                 | 0.50                                                       |

February 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 76.73                                   | 106.61                                          | 6633.50                        | 1.14                                                 | 1.38                                                 | 0.76                                                       |
| 2                    | 78.79                                   | 118.43                                          | 6796.00                        | 1.21                                                 | 1.33                                                 | 1.06                                                       |
| 3                    | 78.81                                   | 117.53                                          | 6794.00                        | 1.19                                                 | 1.34                                                 | 1.06                                                       |
| 4                    | 76.53                                   | 109.86                                          | 6615.00                        | 1.14                                                 | 1.32                                                 | 0.84                                                       |
| 5                    | 77.77                                   | 110.71                                          | 6717.50                        | 1.22                                                 | 1.40                                                 | 1.00                                                       |
| 6                    | 77.27                                   | 110.39                                          | 6680.00                        | 1.21                                                 | 1.41                                                 | 0.91                                                       |
| 7                    | 77.69                                   | 115.20                                          | 6689.00                        | 1.08                                                 | 1.22                                                 | 0.83                                                       |
| 8                    | 76.05                                   | 104.74                                          | 6583.00                        | 1.20                                                 | 1.92                                                 | 0.52                                                       |
| 9                    | 78.94                                   | 118.86                                          | 6811.50                        | 1.25                                                 | 1.67                                                 | 1.04                                                       |
| 10                   | 79.27                                   | 117.90                                          | 6841.50                        | 1.46                                                 | 1.88                                                 | 1.10                                                       |
| 11                   | 75.15                                   | 112.54                                          | 6498.50                        | 1.46                                                 | 1.78                                                 | 1.11                                                       |
| 12                   | 76.06                                   | 112.57                                          | 6564.00                        | 1.46                                                 | 1.98                                                 | 1.06                                                       |
| 13                   | 76.94                                   | 113.00                                          | 6642.50                        | 1.29                                                 | 1.56                                                 | 0.81                                                       |
| 14                   | 75.30                                   | 110.53                                          | 6465.50                        | 1.18                                                 | 1.50                                                 | 0.82                                                       |
| 15                   | 75.64                                   | 110.14                                          | 6517.50                        | 1.13                                                 | 1.49                                                 | 0.66                                                       |
| 16                   | 77.72                                   | 119.98                                          | 6724.00                        | 1.01                                                 | 1.14                                                 | 0.88                                                       |
| 17                   | 78.26                                   | 119.73                                          | 6755.00                        | 1.02                                                 | 1.17                                                 | 0.88                                                       |
| 18                   | 77.38                                   | 119.39                                          | 6683.00                        | 1.02                                                 | 1.17                                                 | 0.87                                                       |
| 19                   | 80.98                                   | 112.09                                          | 6986.00                        | 1.24                                                 | 1.61                                                 | 0.91                                                       |
| 20                   | 85.14                                   | 122.06                                          | 7355.00                        | 1.35                                                 | 1.78                                                 | 0.98                                                       |
| 21                   | 81.38                                   | 119.34                                          | 7010.00                        | 1.21                                                 | 1.68                                                 | 0.98                                                       |
| 22                   | 84.06                                   | 112.25                                          | 7253.00                        | 1.14                                                 | 1.48                                                 | 0.48                                                       |
| 23                   | 86.37                                   | 123.60                                          | 7462.50                        | 0.98                                                 | 1.10                                                 | 0.86                                                       |
| 24                   | 84.75                                   | 115.91                                          | 7314.00                        | 0.98                                                 | 1.10                                                 | 0.87                                                       |
| 25                   | 83.98                                   | 113.76                                          | 7237.50                        | 1.01                                                 | 1.22                                                 | 0.82                                                       |
| 26                   | 84.21                                   | 114.31                                          | 7277.00                        | 1.15                                                 | 1.35                                                 | 0.94                                                       |
| 27                   | 85.19                                   | 117.07                                          | 7365.00                        | 1.23                                                 | 1.52                                                 | 0.96                                                       |
| 28                   | 79.40                                   | 116.80                                          | 6852.00                        | 1.38                                                 | 1.54                                                 | 1.06                                                       |
| 29                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| 30                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| 31                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>192123.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>79.49</b>                            | <b>114.83</b>                                   | <b>6861.54</b>                 | <b>1.19</b>                                          | <b>1.47</b>                                          | <b>0.90</b>                                                |
| <b>Hourly Values</b> | <b><i>l/s</i></b>                       | <b><i>l/s</i></b>                               | <b><i>m3</i></b>               | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                         |
| <i>Max</i>           | 123.60                                  | 123.60                                          | 439.00                         | 1.98                                                 | 1.98                                                 | 1.11                                                       |
| <i>Min</i>           | 0.16                                    | 104.74                                          | 0.00                           | 0.48                                                 | 1.10                                                 | 0.48                                                       |
| <b>Daily Values</b>  | <b><i>l/s</i></b>                       | <b><i>l/s</i></b>                               | <b><i>m3</i></b>               | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                         |
| <i>Max</i>           | 86.37                                   | 123.60                                          | 7462.50                        | 1.46                                                 | 1.98                                                 | 1.11                                                       |
| <i>Min</i>           | 75.15                                   | 104.74                                          | 6465.50                        | 0.98                                                 | 1.10                                                 | 0.48                                                       |

March 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 84.39                                   | 110.53                                          | 7287.50                        | 1.42                                                 | 1.60                                                 | 1.15                                                       |
| 2                    | 88.17                                   | 125.61                                          | 7603.00                        | 1.22                                                 | 1.37                                                 | 1.06                                                       |
| 3                    | 88.99                                   | 124.49                                          | 7690.50                        | 1.18                                                 | 1.31                                                 | 1.06                                                       |
| 4                    | 88.68                                   | 116.89                                          | 7650.00                        | 1.18                                                 | 1.34                                                 | 0.99                                                       |
| 5                    | 86.13                                   | 118.97                                          | 7427.50                        | 1.18                                                 | 1.39                                                 | 1.04                                                       |
| 6                    | 86.42                                   | 119.80                                          | 7443.50                        | 1.20                                                 | 1.39                                                 | 1.07                                                       |
| 7                    | 86.22                                   | 118.31                                          | 7463.50                        | 1.14                                                 | 1.37                                                 | 0.99                                                       |
| 8                    | 86.50                                   | 119.00                                          | 7431.50                        | 1.21                                                 | 1.43                                                 | 1.02                                                       |
| 9                    | 88.74                                   | 131.70                                          | 7681.00                        | 1.19                                                 | 1.28                                                 | 1.05                                                       |
| 10                   | 88.52                                   | 128.63                                          | 7295.50                        | 1.17                                                 | 1.26                                                 | 1.08                                                       |
| 11                   | 83.57                                   | 112.84                                          | 7214.50                        | 1.08                                                 | 1.18                                                 | 0.88                                                       |
| 12                   | 60.52                                   | 112.89                                          | 5214.00                        | 1.18                                                 | 1.38                                                 | 0.82                                                       |
| 13                   | 83.59                                   | 108.67                                          | 7221.00                        | 1.18                                                 | 1.36                                                 | 1.02                                                       |
| 14                   | 85.89                                   | 115.88                                          | 7432.50                        | 1.30                                                 | 1.42                                                 | 1.12                                                       |
| 15                   | 85.73                                   | 111.63                                          | 7415.00                        | 1.27                                                 | 1.60                                                 | 1.09                                                       |
| 16                   | 86.94                                   | 116.09                                          | 7514.00                        | 1.25                                                 | 1.42                                                 | 1.07                                                       |
| 17                   | 89.84                                   | 125.06                                          | 7758.50                        | 1.25                                                 | 1.39                                                 | 1.13                                                       |
| 18                   | 86.23                                   | 114.24                                          | 7444.00                        | 1.15                                                 | 2.00                                                 | 0.91                                                       |
| 19                   | 86.77                                   | 112.38                                          | 7471.50                        | 1.19                                                 | 1.46                                                 | 0.44                                                       |
| 20                   | 86.28                                   | 113.37                                          | 7436.00                        | 1.13                                                 | 1.46                                                 | 0.89                                                       |
| 21                   | 80.79                                   | 109.25                                          | 6984.00                        | 1.12                                                 | 1.22                                                 | 0.97                                                       |
| 22                   | 83.69                                   | 122.22                                          | 7242.00                        | 1.08                                                 | 1.46                                                 | 0.85                                                       |
| 23                   | 92.23                                   | 127.81                                          | 7950.00                        | 1.01                                                 | 1.12                                                 | 0.88                                                       |
| 24                   | 89.69                                   | 118.79                                          | 7765.50                        | 1.02                                                 | 1.11                                                 | 0.91                                                       |
| 25                   | 87.14                                   | 118.38                                          | 7508.00                        | 1.05                                                 | 1.25                                                 | 0.87                                                       |
| 26                   | 88.57                                   | 113.28                                          | 7650.50                        | 1.17                                                 | 1.43                                                 | 0.93                                                       |
| 27                   | 89.05                                   | 113.73                                          | 7693.50                        | 1.12                                                 | 1.43                                                 | 0.89                                                       |
| 28                   | 90.71                                   | 112.59                                          | 7838.00                        | 1.08                                                 | 1.24                                                 | 0.91                                                       |
| 29                   | 91.08                                   | 124.99                                          | 7852.50                        | 1.11                                                 | 1.20                                                 | 0.99                                                       |
| 30                   | 90.48                                   | 123.92                                          | 7808.00                        | 1.11                                                 | 1.24                                                 | 1.04                                                       |
| 31                   | 89.58                                   | 122.34                                          | 7744.50                        | 1.09                                                 | 1.23                                                 | 0.89                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>231131.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>86.49</b>                            | <b>118.20</b>                                   | <b>7455.84</b>                 | <b>1.16</b>                                          | <b>1.37</b>                                          | <b>0.97</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 131.70                                  | 131.70                                          | 449.50                         | 2.00                                                 | 2.00                                                 | 1.15                                                       |
| <i>Min</i>           | 0.14                                    | 108.67                                          | 0.00                           | 0.44                                                 | 1.11                                                 | 0.44                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 92.23                                   | 131.70                                          | 7950.00                        | 1.42                                                 | 2.00                                                 | 1.15                                                       |
| <i>Min</i>           | 60.52                                   | 108.67                                          | 5214.00                        | 1.01                                                 | 1.11                                                 | 0.44                                                       |

April 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 90.18                                   | 116.62                                          | 7805.00                        | 1.16                                                 | 1.37                                                 | 0.92                                                       |
| 2                    | 91.62                                   | 118.93                                          | 7910.00                        | 1.20                                                 | 1.42                                                 | 0.95                                                       |
| 3                    | 90.51                                   | 117.83                                          | 7841.00                        | 1.16                                                 | 1.29                                                 | 1.01                                                       |
| 4                    | 88.42                                   | 115.29                                          | 7616.00                        | 1.15                                                 | 1.31                                                 | 0.97                                                       |
| 5                    | 88.63                                   | 118.72                                          | 7646.00                        | 1.13                                                 | 1.39                                                 | 0.95                                                       |
| 6                    | 89.60                                   | 118.79                                          | 7720.00                        | 1.04                                                 | 1.19                                                 | 0.93                                                       |
| 7                    | 88.95                                   | 118.15                                          | 7675.00                        | 1.04                                                 | 1.17                                                 | 0.90                                                       |
| 8                    | 61.93                                   | 112.61                                          | 5351.50                        | 0.99                                                 | 1.11                                                 | 0.88                                                       |
| 9                    | 88.70                                   | 115.86                                          | 7646.50                        | 1.22                                                 | 1.34                                                 | 1.00                                                       |
| 10                   | 92.69                                   | 121.93                                          | 8002.50                        | 1.18                                                 | 1.41                                                 | 0.69                                                       |
| 11                   | 91.82                                   | 158.69                                          | 7971.50                        | 1.09                                                 | 1.30                                                 | 0.80                                                       |
| 12                   | 87.92                                   | 114.99                                          | 7604.50                        | 1.08                                                 | 1.40                                                 | 0.78                                                       |
| 13                   | 91.11                                   | 118.24                                          | 7862.50                        | 1.20                                                 | 1.57                                                 | 0.93                                                       |
| 14                   | 91.49                                   | 118.47                                          | 7876.00                        | 1.24                                                 | 1.62                                                 | 1.05                                                       |
| 15                   | 89.03                                   | 113.23                                          | 7679.00                        | 1.10                                                 | 1.22                                                 | 0.93                                                       |
| 16                   | 91.42                                   | 117.58                                          | 7889.50                        | 1.09                                                 | 1.22                                                 | 0.90                                                       |
| 17                   | 90.69                                   | 119.09                                          | 7853.00                        | 1.19                                                 | 1.37                                                 | 1.04                                                       |
| 18                   | 65.95                                   | 139.80                                          | 5696.00                        | 1.21                                                 | 1.83                                                 | 0.00                                                       |
| 19                   | 87.86                                   | 114.85                                          | 7573.00                        | 1.29                                                 | 1.80                                                 | 0.78                                                       |
| 20                   | 87.24                                   | 118.22                                          | 7549.50                        | 1.12                                                 | 1.39                                                 | 0.95                                                       |
| 21                   | 88.10                                   | 121.52                                          | 7596.50                        | 1.08                                                 | 1.22                                                 | 0.92                                                       |
| 22                   | 89.76                                   | 127.03                                          | 7787.00                        | 1.09                                                 | 1.20                                                 | 0.92                                                       |
| 23                   | 87.30                                   | 124.51                                          | 7545.50                        | 1.09                                                 | 1.22                                                 | 0.45                                                       |
| 24                   | 87.72                                   | 126.64                                          | 7562.50                        | 1.08                                                 | 1.22                                                 | 0.81                                                       |
| 25                   | 89.05                                   | 123.14                                          | 7695.00                        | 1.02                                                 | 1.23                                                 | 0.85                                                       |
| 26                   | 88.48                                   | 117.12                                          | 7644.00                        | 1.01                                                 | 1.20                                                 | 0.88                                                       |
| 27                   | 90.57                                   | 126.12                                          | 7820.50                        | 0.98                                                 | 1.06                                                 | 0.84                                                       |
| 28                   | 89.28                                   | 119.57                                          | 7703.00                        | 0.99                                                 | 1.11                                                 | 0.86                                                       |
| 29                   | 88.05                                   | 113.71                                          | 7601.00                        | 1.02                                                 | 1.11                                                 | 0.87                                                       |
| 30                   | 92.46                                   | 119.43                                          | 7994.00                        | 1.01                                                 | 1.09                                                 | 0.83                                                       |
| 31                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>227717.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>87.88</b>                            | <b>120.89</b>                                   | <b>7590.57</b>                 | <b>1.11</b>                                          | <b>1.31</b>                                          | <b>0.85</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 158.69                                  | 158.69                                          | 468.50                         | 1.83                                                 | 1.83                                                 | 1.05                                                       |
| <i>Min</i>           | 0.00                                    | 112.61                                          | 0.00                           | 0.00                                                 | 1.06                                                 | 0.00                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 92.69                                   | 158.69                                          | 8002.50                        | 1.29                                                 | 1.83                                                 | 1.05                                                       |
| <i>Min</i>           | 61.93                                   | 112.61                                          | 5351.50                        | 0.98                                                 | 1.06                                                 | 0.00                                                       |

**May 2013**

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 91.64                                   | 129.09                                          | 7892.00                        | 1.06                                                 | 1.33                                                 | 0.80                                                       |
| 2                    | 94.01                                   | 122.06                                          | 8089.50                        | 1.14                                                 | 1.28                                                 | 0.91                                                       |
| 3                    | 94.20                                   | 121.13                                          | 8123.00                        | 1.13                                                 | 1.36                                                 | 0.55                                                       |
| 4                    | 95.98                                   | 120.55                                          | 8251.50                        | 1.05                                                 | 1.18                                                 | 0.86                                                       |
| 5                    | 95.90                                   | 126.00                                          | 8275.50                        | 1.00                                                 | 1.16                                                 | 0.88                                                       |
| 6                    | 98.19                                   | 130.67                                          | 7950.50                        | 1.13                                                 | 1.28                                                 | 0.91                                                       |
| 7                    | 97.65                                   | 131.63                                          | 8430.50                        | 1.28                                                 | 1.70                                                 | 0.97                                                       |
| 8                    | 94.38                                   | 130.53                                          | 8147.00                        | 1.25                                                 | 1.58                                                 | 0.81                                                       |
| 9                    | 98.19                                   | 120.21                                          | 8206.00                        | 1.30                                                 | 1.56                                                 | 0.89                                                       |
| 10                   | 94.77                                   | 123.80                                          | 7785.00                        | 1.24                                                 | 1.58                                                 | 0.88                                                       |
| 11                   | 95.98                                   | 127.72                                          | 8241.50                        | 1.07                                                 | 1.17                                                 | 0.89                                                       |
| 12                   | 92.55                                   | 120.58                                          | 8004.00                        | 1.13                                                 | 1.24                                                 | 0.91                                                       |
| 13                   | 92.81                                   | 143.35                                          | 7979.50                        | 1.12                                                 | 1.23                                                 | 0.94                                                       |
| 14                   | 95.75                                   | 139.12                                          | 8218.50                        | 1.17                                                 | 1.36                                                 | 0.91                                                       |
| 15                   | 97.36                                   | 133.81                                          | 8412.00                        | 1.26                                                 | 1.54                                                 | 0.91                                                       |
| 16                   | 99.25                                   | 133.39                                          | 8472.50                        | 1.18                                                 | 1.39                                                 | 0.62                                                       |
| 17                   | 96.73                                   | 119.80                                          | 8291.50                        | 1.08                                                 | 1.20                                                 | 0.88                                                       |
| 18                   | 100.52                                  | 140.08                                          | 8690.50                        | 1.18                                                 | 1.28                                                 | 0.90                                                       |
| 19                   | 101.94                                  | 131.77                                          | 8761.00                        | 1.23                                                 | 1.32                                                 | 1.11                                                       |
| 20                   | 108.12                                  | 142.73                                          | 9311.00                        | 1.15                                                 | 1.34                                                 | 0.80                                                       |
| 21                   | 69.01                                   | 131.79                                          | 5961.50                        | 1.13                                                 | 1.33                                                 | 0.90                                                       |
| 22                   | 105.83                                  | 134.42                                          | 9136.50                        | 1.25                                                 | 1.50                                                 | 0.97                                                       |
| 23                   | 64.63                                   | 133.67                                          | 5530.50                        | 1.12                                                 | 1.33                                                 | 0.85                                                       |
| 24                   | 68.07                                   | 131.72                                          | 5882.50                        | 1.19                                                 | 1.47                                                 | 0.83                                                       |
| 25                   | 102.95                                  | 135.32                                          | 8903.00                        | 1.25                                                 | 1.38                                                 | 0.92                                                       |
| 26                   | 104.46                                  | 128.84                                          | 9032.00                        | 1.18                                                 | 1.28                                                 | 0.92                                                       |
| 27                   | 93.46                                   | 133.12                                          | 8028.50                        | 1.16                                                 | 1.38                                                 | 0.87                                                       |
| 28                   | 92.81                                   | 131.77                                          | 7598.00                        | 1.05                                                 | 1.22                                                 | 0.81                                                       |
| 29                   | 99.71                                   | 131.79                                          | 8518.00                        | 1.01                                                 | 1.19                                                 | 0.83                                                       |
| 30                   | 104.30                                  | 130.33                                          | 9001.50                        | 1.09                                                 | 1.25                                                 | 0.83                                                       |
| 31                   | 103.34                                  | 128.31                                          | 8925.50                        | 1.12                                                 | 1.25                                                 | 0.83                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>252050.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>94.98</b>                            | <b>130.29</b>                                   | <b>8130.65</b>                 | <b>1.15</b>                                          | <b>1.34</b>                                          | <b>0.87</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 143.35                                  | 143.35                                          | 490.50                         | 1.70                                                 | 1.70                                                 | 1.11                                                       |
| <i>Min</i>           | 0.11                                    | 119.80                                          | 0.00                           | 0.55                                                 | 1.16                                                 | 0.55                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 108.12                                  | 143.35                                          | 9311.00                        | 1.30                                                 | 1.70                                                 | 1.11                                                       |
| <i>Min</i>           | 64.63                                   | 119.80                                          | 5530.50                        | 1.00                                                 | 1.16                                                 | 0.55                                                       |

June 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 101.89                                  | 138.59                                          | 8822.00                        | 1.16                                                 | 1.28                                                 | 0.81                                                       |
| 2                    | 103.17                                  | 136.05                                          | 8917.50                        | 1.17                                                 | 1.29                                                 | 0.87                                                       |
| 3                    | 103.76                                  | 136.35                                          | 8991.00                        | 1.24                                                 | 1.40                                                 | 0.99                                                       |
| 4                    | 106.28                                  | 129.82                                          | 9141.00                        | 1.30                                                 | 1.44                                                 | 1.06                                                       |
| 5                    | 104.81                                  | 132.07                                          | 9060.00                        | 1.37                                                 | 1.48                                                 | 1.00                                                       |
| 6                    | 103.97                                  | 129.80                                          | 8976.00                        | 1.29                                                 | 1.50                                                 | 1.02                                                       |
| 7                    | 105.12                                  | 127.35                                          | 8685.50                        | 1.22                                                 | 1.41                                                 | 0.98                                                       |
| 8                    | 102.94                                  | 131.20                                          | 8866.00                        | 1.34                                                 | 1.44                                                 | 1.23                                                       |
| 9                    | 104.07                                  | 134.77                                          | 8743.50                        | 1.29                                                 | 1.41                                                 | 0.99                                                       |
| 10                   | 104.92                                  | 126.57                                          | 9063.50                        | 1.10                                                 | 1.31                                                 | 0.85                                                       |
| 11                   | 65.88                                   | 138.36                                          | 5648.50                        | 1.19                                                 | 1.37                                                 | 0.82                                                       |
| 12                   | 17.55                                   | 32.66                                           | 1515.00                        | 1.02                                                 | 1.10                                                 | 0.75                                                       |
| 13                   | 9.65                                    | 28.02                                           | 809.50                         | 1.01                                                 | 1.14                                                 | 0.82                                                       |
| 14                   | 50.99                                   | 124.22                                          | 4429.50                        | 0.96                                                 | 1.14                                                 | 0.81                                                       |
| 15                   | 100.16                                  | 124.95                                          | 8636.50                        | 1.12                                                 | 1.30                                                 | 0.84                                                       |
| 16                   | 100.57                                  | 134.77                                          | 8434.50                        | 0.94                                                 | 1.05                                                 | 0.76                                                       |
| 17                   | 108.01                                  | 138.54                                          | 9208.00                        | 1.01                                                 | 1.28                                                 | 0.85                                                       |
| 18                   | 105.65                                  | 131.68                                          | 8825.50                        | 1.05                                                 | 1.30                                                 | 0.72                                                       |
| 19                   | 105.36                                  | 134.40                                          | 9080.50                        | 1.39                                                 | 1.63                                                 | 1.00                                                       |
| 20                   | 106.40                                  | 135.75                                          | 9198.50                        | 1.15                                                 | 1.66                                                 | 0.55                                                       |
| 21                   | 106.48                                  | 145.34                                          | 9386.50                        | 0.97                                                 | 1.19                                                 | 0.68                                                       |
| 22                   | 109.56                                  | 137.15                                          | 9469.00                        | 1.04                                                 | 1.21                                                 | 0.82                                                       |
| 23                   | 113.12                                  | 142.66                                          | 9786.00                        | 1.01                                                 | 1.10                                                 | 0.88                                                       |
| 24                   | 115.82                                  | 154.61                                          | 10006.50                       | 1.05                                                 | 1.27                                                 | 0.71                                                       |
| 25                   | 114.38                                  | 135.27                                          | 9826.50                        | 1.10                                                 | 1.25                                                 | 0.92                                                       |
| 26                   | 108.33                                  | 138.91                                          | 9323.00                        | 1.21                                                 | 1.39                                                 | 0.93                                                       |
| 27                   | 106.49                                  | 136.67                                          | 9189.00                        | 1.08                                                 | 1.17                                                 | 0.88                                                       |
| 28                   | 106.25                                  | 127.67                                          | 9176.00                        | 1.06                                                 | 1.27                                                 | 0.80                                                       |
| 29                   | 103.38                                  | 130.88                                          | 8837.00                        | 1.02                                                 | 1.19                                                 | 0.87                                                       |
| 30                   | 105.14                                  | 129.69                                          | 8822.50                        | 0.97                                                 | 1.07                                                 | 0.82                                                       |
| 31                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>248874.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>96.67</b>                            | <b>127.49</b>                                   | <b>8295.80</b>                 | <b>1.13</b>                                          | <b>1.30</b>                                          | <b>0.87</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 154.61                                  | 154.61                                          | 997.00                         | 1.66                                                 | 1.66                                                 | 1.23                                                       |
| <i>Min</i>           | 0.14                                    | 28.02                                           | 0.00                           | 0.55                                                 | 1.05                                                 | 0.55                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 115.82                                  | 154.61                                          | 10006.50                       | 1.39                                                 | 1.66                                                 | 1.23                                                       |
| <i>Min</i>           | 9.65                                    | 28.02                                           | 809.50                         | 0.94                                                 | 1.05                                                 | 0.55                                                       |

July 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 103.16                                  | 138.09                                          | 8505.50                        | 0.92                                                 | 1.16                                                 | 0.77                                                       |
| 2                    | 108.29                                  | 130.14                                          | 9321.00                        | 1.06                                                 | 1.17                                                 | 0.83                                                       |
| 3                    | 108.64                                  | 131.79                                          | 9080.50                        | 1.00                                                 | 1.09                                                 | 0.83                                                       |
| 4                    | 108.06                                  | 142.32                                          | 9299.50                        | 0.96                                                 | 1.19                                                 | 0.81                                                       |
| 5                    | 104.27                                  | 148.23                                          | 8978.00                        | 1.00                                                 | 1.18                                                 | 0.73                                                       |
| 6                    | 104.53                                  | 133.71                                          | 8976.00                        | 1.03                                                 | 1.09                                                 | 0.91                                                       |
| 7                    | 102.20                                  | 132.91                                          | 8809.50                        | 1.01                                                 | 1.06                                                 | 0.93                                                       |
| 8                    | 106.49                                  | 144.72                                          | 9239.50                        | 1.11                                                 | 1.28                                                 | 0.92                                                       |
| 9                    | 103.58                                  | 127.26                                          | 8924.50                        | 1.11                                                 | 1.31                                                 | 0.93                                                       |
| 10                   | 105.11                                  | 142.11                                          | 9068.00                        | 1.18                                                 | 1.42                                                 | 0.92                                                       |
| 11                   | 102.12                                  | 127.35                                          | 8794.00                        | 1.09                                                 | 1.22                                                 | 0.90                                                       |
| 12                   | 101.70                                  | 148.18                                          | 8548.50                        | 1.13                                                 | 1.27                                                 | 0.94                                                       |
| 13                   | 103.65                                  | 127.63                                          | 8845.50                        | 1.15                                                 | 1.22                                                 | 1.04                                                       |
| 14                   | 105.55                                  | 126.39                                          | 9100.00                        | 1.16                                                 | 1.31                                                 | 1.02                                                       |
| 15                   | 109.55                                  | 137.81                                          | 9454.50                        | 1.07                                                 | 1.20                                                 | 0.78                                                       |
| 16                   | 95.88                                   | 130.58                                          | 8268.00                        | 1.01                                                 | 1.17                                                 | 0.70                                                       |
| 17                   | 110.09                                  | 146.81                                          | 9479.00                        | 1.18                                                 | 1.38                                                 | 0.70                                                       |
| 18                   | 112.15                                  | 137.61                                          | 9654.50                        | 1.01                                                 | 1.13                                                 | 0.87                                                       |
| 19                   | 112.92                                  | 132.82                                          | 9753.50                        | 1.19                                                 | 1.34                                                 | 0.98                                                       |
| 20                   | 106.99                                  | 130.28                                          | 9212.50                        | 1.20                                                 | 1.35                                                 | 1.05                                                       |
| 21                   | 109.64                                  | 131.20                                          | 9445.50                        | 1.10                                                 | 1.19                                                 | 0.94                                                       |
| 22                   | 106.14                                  | 132.71                                          | 9135.00                        | 1.07                                                 | 1.18                                                 | 0.65                                                       |
| 23                   | 103.93                                  | 119.59                                          | 8949.50                        | 1.05                                                 | 1.20                                                 | 0.76                                                       |
| 24                   | 105.93                                  | 127.44                                          | 8918.00                        | 1.27                                                 | 1.47                                                 | 0.98                                                       |
| 25                   | 102.27                                  | 122.50                                          | 8198.50                        | 1.19                                                 | 1.53                                                 | 0.57                                                       |
| 26                   | 107.96                                  | 131.84                                          | 9233.00                        | 1.11                                                 | 1.34                                                 | 0.80                                                       |
| 27                   | 101.57                                  | 127.35                                          | 8739.50                        | 1.04                                                 | 1.12                                                 | 0.91                                                       |
| 28                   | 100.77                                  | 137.83                                          | 8663.00                        | 0.94                                                 | 1.04                                                 | 0.70                                                       |
| 29                   | 103.67                                  | 124.19                                          | 8396.00                        | 0.98                                                 | 1.11                                                 | 0.86                                                       |
| 30                   | 107.49                                  | 139.25                                          | 9129.00                        | 1.05                                                 | 1.27                                                 | 0.77                                                       |
| 31                   | 104.75                                  | 126.73                                          | 8948.00                        | 1.03                                                 | 1.17                                                 | 0.90                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>279067.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>105.45</b>                           | <b>133.46</b>                                   | <b>9002.16</b>                 | <b>1.08</b>                                          | <b>1.23</b>                                          | <b>0.85</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 148.23                                  | 148.23                                          | 471.50                         | 1.53                                                 | 1.53                                                 | 1.05                                                       |
| <i>Min</i>           | 0.00                                    | 119.59                                          | 0.00                           | 0.57                                                 | 1.04                                                 | 0.57                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 112.92                                  | 148.23                                          | 9753.50                        | 1.27                                                 | 1.53                                                 | 1.05                                                       |
| <i>Min</i>           | 95.88                                   | 119.59                                          | 8198.50                        | 0.92                                                 | 1.04                                                 | 0.57                                                       |

August 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|----------------------------------------------|--------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                   | <i>m3</i>                      | <i>mg/l</i>                                       | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 100.66                                  | 124.22                                       | 8659.50                        | 0.98                                              | 1.46                                                 | 0.71                                                       |
| 2                    | 100.87                                  | 126.48                                       | 8690.50                        | 1.01                                              | 1.17                                                 | 0.86                                                       |
| 3                    | 97.01                                   | 118.88                                       | 8350.00                        | 1.17                                              | 1.42                                                 | 1.02                                                       |
| 4                    | 98.01                                   | 120.05                                       | 8465.50                        | 1.16                                              | 1.36                                                 | 0.96                                                       |
| 5                    | 98.32                                   | 119.57                                       | 8137.00                        | 1.08                                              | 1.17                                                 | 0.91                                                       |
| 6                    | 99.64                                   | 117.49                                       | 8477.00                        | 1.04                                              | 1.37                                                 | 0.71                                                       |
| 7                    | 98.76                                   | 116.66                                       | 8536.00                        | 1.01                                              | 1.25                                                 | 0.78                                                       |
| 8                    | 99.63                                   | 118.06                                       | 8567.00                        | 0.94                                              | 1.11                                                 | 0.80                                                       |
| 9                    | 102.01                                  | 122.66                                       | 8807.00                        | 1.06                                              | 1.37                                                 | 0.88                                                       |
| 10                   | 102.13                                  | 121.42                                       | 8818.50                        | 1.27                                              | 1.37                                                 | 1.08                                                       |
| 11                   | 100.18                                  | 123.92                                       | 8600.00                        | 1.30                                              | 1.50                                                 | 1.11                                                       |
| 12                   | 100.76                                  | 120.19                                       | 8698.00                        | 1.17                                              | 1.30                                                 | 0.95                                                       |
| 13                   | 98.23                                   | 118.17                                       | 8470.00                        | 1.27                                              | 1.60                                                 | 0.97                                                       |
| 14                   | 101.21                                  | 140.83                                       | 8592.00                        | 1.36                                              | 1.75                                                 | 0.95                                                       |
| 15                   | 98.27                                   | 124.81                                       | 8467.00                        | 0.94                                              | 1.12                                                 | 0.63                                                       |
| 16                   | 105.38                                  | 137.15                                       | 8779.50                        | 1.00                                              | 1.13                                                 | 0.47                                                       |
| 17                   | 101.40                                  | 124.70                                       | 8759.00                        | 1.14                                              | 1.31                                                 | 1.02                                                       |
| 18                   | 103.03                                  | 124.90                                       | 8900.50                        | 1.08                                              | 1.20                                                 | 0.92                                                       |
| 19                   | 100.17                                  | 128.54                                       | 8667.50                        | 0.99                                              | 1.12                                                 | 0.72                                                       |
| 20                   | 105.22                                  | 126.32                                       | 8929.00                        | 1.13                                              | 1.55                                                 | 0.88                                                       |
| 21                   | 104.35                                  | 124.17                                       | 8992.00                        | 1.39                                              | 1.69                                                 | 1.14                                                       |
| 22                   | 100.37                                  | 121.88                                       | 8690.50                        | 1.15                                              | 1.36                                                 | 0.82                                                       |
| 23                   | 105.76                                  | 222.36                                       | 9120.50                        | 1.19                                              | 1.45                                                 | 0.88                                                       |
| 24                   | 103.80                                  | 126.18                                       | 8935.00                        | 1.32                                              | 1.38                                                 | 1.16                                                       |
| 25                   | 104.51                                  | 129.11                                       | 8992.00                        | 1.17                                              | 1.39                                                 | 0.89                                                       |
| 26                   | 103.37                                  | 121.54                                       | 8937.00                        | 0.99                                              | 1.13                                                 | 0.79                                                       |
| 27                   | 103.37                                  | 124.17                                       | 8918.50                        | 1.07                                              | 1.19                                                 | 0.89                                                       |
| 28                   | 100.58                                  | 126.41                                       | 8688.50                        | 1.20                                              | 1.69                                                 | 0.65                                                       |
| 29                   | 104.25                                  | 134.42                                       | 8959.50                        | 0.85                                              | 1.10                                                 | 0.58                                                       |
| 30                   | 105.32                                  | 137.08                                       | 9088.00                        | 0.99                                              | 1.29                                                 | 0.60                                                       |
| 31                   | 103.30                                  | 127.81                                       | 8905.50                        | 0.91                                              | 1.15                                                 | 0.74                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                   | <b>270597.50</b>               | <b>n/a</b>                                        | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>101.61</b>                           | <b>128.07</b>                                | <b>8728.95</b>                 | <b>1.11</b>                                       | <b>1.34</b>                                          | <b>0.85</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                   | <b>m3</b>                      | <b>mg/l</b>                                       | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 222.36                                  | 222.36                                       | 477.50                         | 1.75                                              | 1.75                                                 | 1.16                                                       |
| <i>Min</i>           | 54.68                                   | 116.66                                       | 0.00                           | 0.47                                              | 1.10                                                 | 0.47                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                   | <b>m3</b>                      | <b>mg/l</b>                                       | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 105.76                                  | 222.36                                       | 9120.50                        | 1.39                                              | 1.75                                                 | 1.16                                                       |
| <i>Min</i>           | 97.01                                   | 116.66                                       | 8137.00                        | 0.85                                              | 1.10                                                 | 0.47                                                       |

September 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 101.22                                  | 125.54                                          | 8721.00                        | 0.91                                                 | 1.05                                                 | 0.74                                                       |
| 2                    | 104.08                                  | 129.78                                          | 8977.00                        | 0.90                                                 | 1.08                                                 | 0.63                                                       |
| 3                    | 97.00                                   | 135.93                                          | 8361.50                        | 0.90                                                 | 1.11                                                 | 0.71                                                       |
| 4                    | 102.06                                  | 133.07                                          | 8549.50                        | 0.90                                                 | 1.08                                                 | 0.77                                                       |
| 5                    | 100.95                                  | 125.11                                          | 8717.50                        | 1.07                                                 | 1.13                                                 | 0.82                                                       |
| 6                    | 100.39                                  | 128.59                                          | 8604.50                        | 1.11                                                 | 1.30                                                 | 0.80                                                       |
| 7                    | 97.22                                   | 125.41                                          | 8231.50                        | 1.01                                                 | 1.40                                                 | 0.78                                                       |
| 8                    | 100.52                                  | 121.17                                          | 8589.00                        | 1.29                                                 | 1.70                                                 | 0.98                                                       |
| 9                    | 99.55                                   | 139.80                                          | 8539.00                        | 1.23                                                 | 1.37                                                 | 0.97                                                       |
| 10                   | 102.69                                  | 126.53                                          | 8818.00                        | 1.27                                                 | 1.53                                                 | 0.94                                                       |
| 11                   | 99.05                                   | 135.75                                          | 8529.50                        | 1.18                                                 | 1.26                                                 | 0.92                                                       |
| 12                   | 99.79                                   | 133.92                                          | 8604.00                        | 1.12                                                 | 1.30                                                 | 0.82                                                       |
| 13                   | 98.41                                   | 157.93                                          | 8390.50                        | 1.11                                                 | 1.28                                                 | 0.83                                                       |
| 14                   | 97.44                                   | 121.95                                          | 8429.00                        | 1.17                                                 | 1.43                                                 | 0.85                                                       |
| 15                   | 95.79                                   | 120.39                                          | 8244.50                        | 1.22                                                 | 1.39                                                 | 0.99                                                       |
| 16                   | 97.79                                   | 119.27                                          | 8426.50                        | 1.24                                                 | 1.49                                                 | 0.98                                                       |
| 17                   | 98.52                                   | 121.15                                          | 8504.00                        | 1.25                                                 | 1.48                                                 | 1.00                                                       |
| 18                   | 98.14                                   | 124.77                                          | 8437.00                        | 1.32                                                 | 1.55                                                 | 1.01                                                       |
| 19                   | 99.57                                   | 123.96                                          | 8591.00                        | 1.21                                                 | 1.76                                                 | 0.76                                                       |
| 20                   | 99.58                                   | 124.42                                          | 8534.50                        | 1.16                                                 | 1.38                                                 | 0.82                                                       |
| 21                   | 96.57                                   | 300.00                                          | 8295.50                        | 1.05                                                 | 1.31                                                 | 0.84                                                       |
| 22                   | 93.97                                   | 121.58                                          | 8117.50                        | 1.15                                                 | 1.31                                                 | 0.94                                                       |
| 23                   | 97.47                                   | 122.02                                          | 8411.50                        | 1.12                                                 | 1.25                                                 | 0.88                                                       |
| 24                   | 98.13                                   | 121.17                                          | 8454.50                        | 1.01                                                 | 1.29                                                 | 0.79                                                       |
| 25                   | 98.05                                   | 123.90                                          | 8463.50                        | 1.02                                                 | 1.11                                                 | 0.90                                                       |
| 26                   | 100.16                                  | 124.03                                          | 8655.50                        | 1.02                                                 | 1.16                                                 | 0.29                                                       |
| 27                   | 97.80                                   | 120.83                                          | 8475.00                        | 1.02                                                 | 1.19                                                 | 0.78                                                       |
| 28                   | 97.28                                   | 127.12                                          | 8382.50                        | 0.95                                                 | 1.15                                                 | 0.77                                                       |
| 29                   | 97.12                                   | 130.19                                          | 8367.00                        | 1.07                                                 | 1.22                                                 | 0.85                                                       |
| 30                   | 100.75                                  | 132.75                                          | 8697.50                        | 1.03                                                 | 1.21                                                 | 0.85                                                       |
| 31                   | #N/A                                    | #N/A                                            | #N/A                           | #N/A                                                 | #N/A                                                 | #N/A                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>255119.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>98.90</b>                            | <b>133.27</b>                                   | <b>8503.97</b>                 | <b>1.10</b>                                          | <b>1.31</b>                                          | <b>0.83</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 300.00                                  | 300.00                                          | 1067.00                        | 1.76                                                 | 1.76                                                 | 1.01                                                       |
| <i>Min</i>           | 0.16                                    | 119.27                                          | 0.00                           | 0.29                                                 | 1.05                                                 | 0.29                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 104.08                                  | 300.00                                          | 8977.00                        | 1.32                                                 | 1.76                                                 | 1.01                                                       |
| <i>Min</i>           | 93.97                                   | 119.27                                          | 8117.50                        | 0.90                                                 | 1.05                                                 | 0.29                                                       |

October 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 102.70                                  | 126.48                                          | 8879.50                        | 1.16                                                 | 1.47                                                 | 0.94                                                       |
| 2                    | 102.59                                  | 129.09                                          | 8824.50                        | 1.21                                                 | 1.49                                                 | 1.02                                                       |
| 3                    | 101.66                                  | 125.25                                          | 8777.50                        | 1.17                                                 | 1.59                                                 | 0.90                                                       |
| 4                    | 99.86                                   | 122.91                                          | 8412.50                        | 1.19                                                 | 1.39                                                 | 0.86                                                       |
| 5                    | 95.55                                   | 121.77                                          | 7938.00                        | 1.27                                                 | 1.61                                                 | 0.99                                                       |
| 6                    | 93.79                                   | 121.84                                          | 7889.50                        | 1.34                                                 | 1.68                                                 | 0.99                                                       |
| 7                    | 102.23                                  | 125.61                                          | 8621.50                        | 1.26                                                 | 1.45                                                 | 1.00                                                       |
| 8                    | 101.70                                  | 123.53                                          | 8763.50                        | 1.19                                                 | 1.40                                                 | 0.89                                                       |
| 9                    | 102.07                                  | 134.68                                          | 8783.00                        | 1.14                                                 | 1.42                                                 | 0.86                                                       |
| 10                   | 102.78                                  | 127.37                                          | 8845.00                        | 1.08                                                 | 1.30                                                 | 0.74                                                       |
| 11                   | 100.43                                  | 119.07                                          | 8642.00                        | 1.09                                                 | 1.20                                                 | 0.84                                                       |
| 12                   | 93.57                                   | 124.65                                          | 8067.50                        | 1.09                                                 | 1.24                                                 | 0.86                                                       |
| 13                   | 92.93                                   | 126.69                                          | 8032.50                        | 1.00                                                 | 1.18                                                 | 0.75                                                       |
| 14                   | 93.52                                   | 126.25                                          | 8052.50                        | 1.07                                                 | 1.14                                                 | 0.92                                                       |
| 15                   | 99.76                                   | 122.41                                          | 8603.00                        | 0.96                                                 | 1.11                                                 | 0.84                                                       |
| 16                   | 100.14                                  | 121.22                                          | 8633.50                        | 1.05                                                 | 1.31                                                 | 0.84                                                       |
| 17                   | 99.50                                   | 121.56                                          | 8568.00                        | 1.10                                                 | 1.55                                                 | 0.75                                                       |
| 18                   | 99.36                                   | 117.30                                          | 8549.50                        | 1.14                                                 | 1.31                                                 | 0.87                                                       |
| 19                   | 93.21                                   | 124.28                                          | 8060.00                        | 1.14                                                 | 1.31                                                 | 0.94                                                       |
| 20                   | 93.55                                   | 152.99                                          | 8035.50                        | 1.21                                                 | 1.33                                                 | 0.97                                                       |
| 21                   | 99.02                                   | 119.91                                          | 8503.50                        | 1.22                                                 | 1.34                                                 | 0.99                                                       |
| 22                   | 96.32                                   | 116.66                                          | 8320.00                        | 1.25                                                 | 1.48                                                 | 0.96                                                       |
| 23                   | 96.53                                   | 123.23                                          | 8274.00                        | 1.18                                                 | 1.52                                                 | 0.84                                                       |
| 24                   | 97.61                                   | 115.34                                          | 8425.50                        | 1.33                                                 | 1.45                                                 | 1.10                                                       |
| 25                   | 95.18                                   | 119.18                                          | 8190.00                        | 1.27                                                 | 1.56                                                 | 0.98                                                       |
| 26                   | 91.42                                   | 118.15                                          | 7892.50                        | 1.12                                                 | 1.35                                                 | 0.83                                                       |
| 27                   | 89.20                                   | 133.28                                          | 7710.00                        | 1.12                                                 | 1.51                                                 | 0.72                                                       |
| 28                   | 89.27                                   | 115.52                                          | 7694.50                        | 1.22                                                 | 1.41                                                 | 1.00                                                       |
| 29                   | 90.08                                   | 115.77                                          | 7757.50                        | 1.27                                                 | 2.00                                                 | 0.32                                                       |
| 30                   | 91.28                                   | 124.77                                          | 7888.00                        | 1.24                                                 | 1.62                                                 | 0.72                                                       |
| 31                   | 90.13                                   | 116.34                                          | 7767.00                        | 1.53                                                 | 1.72                                                 | 1.34                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>257401.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>96.68</b>                            | <b>123.65</b>                                   | <b>8303.26</b>                 | <b>1.18</b>                                          | <b>1.43</b>                                          | <b>0.89</b>                                                |
| <b>Hourly Values</b> | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 152.99                                  | 152.99                                          | 425.50                         | 2.00                                                 | 2.00                                                 | 1.34                                                       |
| <i>Min</i>           | 42.37                                   | 115.34                                          | 0.00                           | 0.32                                                 | 1.11                                                 | 0.32                                                       |
| <b>Daily Values</b>  | <b>l/s</b>                              | <b>l/s</b>                                      | <b>m3</b>                      | <b>mg/l</b>                                          | <b>mg/l</b>                                          | <b>mg/l</b>                                                |
| <i>Max</i>           | 102.78                                  | 152.99                                          | 8879.50                        | 1.53                                                 | 2.00                                                 | 1.34                                                       |
| <i>Min</i>           | 89.20                                   | 115.34                                          | 7694.50                        | 0.96                                                 | 1.11                                                 | 0.32                                                       |

November 2013

| Day           | Average Station Discharge Flow | Maximum Inst Station Discharge Flow | Station Discharge Volume | Average Station Discharge Free Chlorine Res | Maximum Station Discharge Free Chlorine Res | Minimum Station Discharge Free Chlorine Res |
|---------------|--------------------------------|-------------------------------------|--------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
|               | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>mg/l</i>                                 | <i>mg/l</i>                                 | <i>mg/l</i>                                 |
| 1             | 89.58                          | 116.73                              | 7763.00                  | 1.48                                        | 1.70                                        | 1.19                                        |
| 2             | 90.20                          | 127.35                              | 7746.00                  | 1.38                                        | 1.50                                        | 1.23                                        |
| 3             | 87.96                          | 126.64                              | 7920.50                  | 1.28                                        | 1.49                                        | 0.97                                        |
| 4             | 90.46                          | 116.57                              | 7790.50                  | 1.26                                        | 1.48                                        | 1.03                                        |
| 5             | 89.80                          | 124.77                              | 7759.00                  | 1.26                                        | 1.63                                        | 0.91                                        |
| 6             | 88.31                          | 118.40                              | 7628.00                  | 1.05                                        | 1.17                                        | 0.92                                        |
| 7             | 88.21                          | 117.14                              | 7622.00                  | 1.04                                        | 1.19                                        | 0.90                                        |
| 8             | 87.67                          | 114.74                              | 7554.00                  | 1.06                                        | 1.23                                        | 0.50                                        |
| 9             | 88.44                          | 117.19                              | 7655.50                  | 1.09                                        | 1.18                                        | 0.93                                        |
| 10            | 89.12                          | 135.96                              | 7650.50                  | 1.05                                        | 1.15                                        | 0.94                                        |
| 11            | 88.62                          | 118.86                              | 7651.00                  | 1.06                                        | 1.20                                        | 0.93                                        |
| 12            | 88.03                          | 115.27                              | 7606.50                  | 1.06                                        | 1.21                                        | 0.91                                        |
| 13            | 87.75                          | 114.10                              | 7590.50                  | 1.08                                        | 1.25                                        | 0.93                                        |
| 14            | 86.87                          | 114.85                              | 7526.00                  | 1.03                                        | 1.17                                        | 0.83                                        |
| 15            | 81.35                          | 114.85                              | 7013.50                  | 1.10                                        | 1.30                                        | 0.90                                        |
| 16            | 76.93                          | 116.64                              | 6604.50                  | 1.05                                        | 1.14                                        | 0.95                                        |
| 17            | 75.90                          | 116.00                              | 6555.50                  | 1.08                                        | 1.55                                        | 0.88                                        |
| 18            | 87.76                          | 122.87                              | 7560.00                  | 1.23                                        | 1.38                                        | 1.03                                        |
| 19            | 94.42                          | 135.07                              | 8132.50                  | 1.26                                        | 1.42                                        | 1.12                                        |
| 20            | 90.13                          | 140.19                              | 7779.00                  | 1.26                                        | 1.38                                        | 1.08                                        |
| 21            | 93.13                          | 128.75                              | 8042.00                  | 1.25                                        | 1.38                                        | 1.16                                        |
| 22            | 89.06                          | 119.98                              | 7677.00                  | 1.15                                        | 1.31                                        | 1.03                                        |
| 23            | 92.00                          | 135.02                              | 7945.00                  | 1.28                                        | 1.43                                        | 1.09                                        |
| 24            | 91.18                          | 130.85                              | 7873.50                  | 1.32                                        | 1.44                                        | 1.18                                        |
| 25            | 67.45                          | 123.85                              | 5836.00                  | 1.29                                        | 1.41                                        | 0.97                                        |
| 26            | 83.18                          | 120.21                              | 7182.50                  | 1.19                                        | 1.43                                        | 0.87                                        |
| 27            | 90.53                          | 130.33                              | 7799.50                  | 1.24                                        | 1.48                                        | 1.03                                        |
| 28            | 90.04                          | 121.17                              | 7779.00                  | 1.12                                        | 2.00                                        | 0.74                                        |
| 29            | 88.58                          | 125.20                              | 7617.00                  | 1.17                                        | 1.33                                        | 1.00                                        |
| 30            | 93.47                          | 139.41                              | 8051.00                  | 1.10                                        | 1.18                                        | 0.95                                        |
| 31            | #N/A                           | #N/A                                | #N/A                     | #N/A                                        | #N/A                                        | #N/A                                        |
| Monthly Total | n/a                            | n/a                                 | 226910.50                | n/a                                         | n/a                                         | n/a                                         |
| Daily Average | 87.54                          | 123.30                              | 7563.68                  | 1.18                                        | 1.37                                        | 0.97                                        |
| Hourly Values | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>mg/l</i>                                 | <i>mg/l</i>                                 | <i>mg/l</i>                                 |
| Max           | 140.19                         | 140.19                              | 488.50                   | 2.00                                        | 2.00                                        | 1.23                                        |
| Min           | 0.11                           | 114.10                              | 0.00                     | 0.50                                        | 1.14                                        | 0.50                                        |
| Daily Values  | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>mg/l</i>                                 | <i>mg/l</i>                                 | <i>mg/l</i>                                 |
| Max           | 94.42                          | 140.19                              | 8132.50                  | 1.48                                        | 2.00                                        | 1.23                                        |
| Min           | 67.45                          | 114.10                              | 5836.00                  | 1.03                                        | 1.14                                        | 0.50                                        |

December 2013

| Day                  | Average<br>Station<br>Discharge<br>Flow | Maximum<br>Inst<br>Station<br>Discharge<br>Flow | Station<br>Discharge<br>Volume | Average<br>Station<br>Discharge Free<br>Chlorine Res | Maximum<br>Station<br>Discharge Free<br>Chlorine Res | Minimum<br>Station<br>Discharge<br>Free<br>Chlorine<br>Res |
|----------------------|-----------------------------------------|-------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
|                      | <i>l/s</i>                              | <i>l/s</i>                                      | <i>m3</i>                      | <i>mg/l</i>                                          | <i>mg/l</i>                                          | <i>mg/l</i>                                                |
| 1                    | 92.30                                   | 133.37                                          | 7973.50                        | 1.12                                                 | 1.24                                                 | 1.06                                                       |
| 2                    | 88.01                                   | 125.80                                          | 7602.50                        | 1.09                                                 | 1.24                                                 | 1.02                                                       |
| 3                    | 89.03                                   | 120.69                                          | 7687.50                        | 1.16                                                 | 1.88                                                 | 0.78                                                       |
| 4                    | 88.72                                   | 123.03                                          | 7662.50                        | 1.21                                                 | 1.29                                                 | 1.12                                                       |
| 5                    | 84.61                                   | 127.53                                          | 7301.50                        | 1.09                                                 | 1.18                                                 | 1.02                                                       |
| 6                    | 79.78                                   | 101.72                                          | 6874.00                        | 1.14                                                 | 1.30                                                 | 0.96                                                       |
| 7                    | 81.98                                   | 108.17                                          | 7076.50                        | 1.12                                                 | 1.22                                                 | 0.97                                                       |
| 8                    | 81.24                                   | 112.20                                          | 7015.50                        | 1.20                                                 | 1.29                                                 | 1.10                                                       |
| 9                    | 80.03                                   | 104.88                                          | 6935.50                        | 1.12                                                 | 1.21                                                 | 0.97                                                       |
| 10                   | 80.34                                   | 109.96                                          | 6937.00                        | 1.15                                                 | 1.31                                                 | 0.98                                                       |
| 11                   | 79.65                                   | 108.83                                          | 6874.50                        | 1.14                                                 | 1.33                                                 | 1.01                                                       |
| 12                   | 82.97                                   | 111.31                                          | 7163.50                        | 1.10                                                 | 1.18                                                 | 0.96                                                       |
| 13                   | 80.42                                   | 105.40                                          | 6913.50                        | 1.08                                                 | 1.22                                                 | 0.95                                                       |
| 14                   | 79.36                                   | 105.29                                          | 6843.00                        | 1.07                                                 | 1.21                                                 | 0.94                                                       |
| 15                   | 77.35                                   | 104.05                                          | 6685.50                        | 1.12                                                 | 1.20                                                 | 0.92                                                       |
| 16                   | 78.68                                   | 104.72                                          | 6792.00                        | 1.16                                                 | 1.27                                                 | 0.96                                                       |
| 17                   | 77.88                                   | 102.66                                          | 6688.50                        | 1.14                                                 | 1.22                                                 | 0.98                                                       |
| 18                   | 76.88                                   | 103.71                                          | 6609.00                        | 1.15                                                 | 1.28                                                 | 1.01                                                       |
| 19                   | 79.14                                   | 103.80                                          | 6807.00                        | 1.23                                                 | 1.30                                                 | 1.12                                                       |
| 20                   | 76.28                                   | 98.40                                           | 6588.50                        | 1.23                                                 | 1.31                                                 | 1.09                                                       |
| 21                   | 77.81                                   | 107.87                                          | 6693.50                        | 1.12                                                 | 1.26                                                 | 1.04                                                       |
| 22                   | 76.50                                   | 107.26                                          | 6616.50                        | 1.19                                                 | 1.26                                                 | 1.08                                                       |
| 23                   | 80.89                                   | 102.43                                          | 6987.00                        | 1.14                                                 | 1.21                                                 | 1.01                                                       |
| 24                   | 84.27                                   | 111.33                                          | 7262.00                        | 1.14                                                 | 1.32                                                 | 1.01                                                       |
| 25                   | 81.19                                   | 113.05                                          | 6998.50                        | 1.08                                                 | 1.26                                                 | 0.98                                                       |
| 26                   | 80.78                                   | 108.19                                          | 7002.50                        | 1.10                                                 | 1.29                                                 | 0.97                                                       |
| 27                   | 79.35                                   | 106.57                                          | 6863.00                        | 1.19                                                 | 1.26                                                 | 1.10                                                       |
| 28                   | 79.34                                   | 104.01                                          | 6855.50                        | 1.20                                                 | 1.32                                                 | 1.07                                                       |
| 29                   | 79.57                                   | 102.17                                          | 6850.50                        | 1.28                                                 | 1.42                                                 | 1.19                                                       |
| 30                   | 81.62                                   | 102.22                                          | 7009.50                        | 1.21                                                 | 1.54                                                 | 1.07                                                       |
| 31                   | 80.23                                   | 103.23                                          | 6895.50                        | 1.16                                                 | 1.29                                                 | 1.05                                                       |
| <b>Monthly Total</b> | <b>n/a</b>                              | <b>n/a</b>                                      | <b>217065.00</b>               | <b>n/a</b>                                           | <b>n/a</b>                                           | <b>n/a</b>                                                 |
| <b>Daily Average</b> | <b>81.17</b>                            | <b>109.16</b>                                   | <b>7002.10</b>                 | <b>1.15</b>                                          | <b>1.29</b>                                          | <b>1.02</b>                                                |
| <b>Hourly Values</b> | <b><i>l/s</i></b>                       | <b><i>l/s</i></b>                               | <b><i>m3</i></b>               | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                         |
| <i>Max</i>           | 133.37                                  | 133.37                                          | 460.00                         | 1.88                                                 | 1.88                                                 | 1.19                                                       |
| <i>Min</i>           | 39.35                                   | 98.40                                           | 0.00                           | 0.78                                                 | 1.18                                                 | 0.78                                                       |
| <b>Daily Values</b>  | <b><i>l/s</i></b>                       | <b><i>l/s</i></b>                               | <b><i>m3</i></b>               | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                   | <b><i>mg/l</i></b>                                         |
| <i>Max</i>           | 92.30                                   | 133.37                                          | 7973.50                        | 1.28                                                 | 1.88                                                 | 1.19                                                       |
| <i>Min</i>           | 76.28                                   | 98.40                                           | 6588.50                        | 1.07                                                 | 1.18                                                 | 0.78                                                       |

2013 Yearly Report

| Day             | Average Station Discharge Flow | Maximum Inst Station Discharge Flow | Station Discharge Volume | Average Suction Header Pressure | Average Discharge Header Pressure | Average Station Discharge Free Chlorine Res | M |
|-----------------|--------------------------------|-------------------------------------|--------------------------|---------------------------------|-----------------------------------|---------------------------------------------|---|
|                 | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>kPa</i>                      | <i>kPa</i>                        | <i>mg/l</i>                                 |   |
| January         | 80.04                          | 182.99                              | 214184.50                | 122.23                          | 334.04                            | 1.18                                        |   |
| February        | 79.49                          | 123.60                              | 192123.00                | 119.26                          | 334.92                            | 1.19                                        |   |
| March           | 86.49                          | 131.70                              | 231131.00                | 121.58                          | 337.37                            | 1.16                                        |   |
| April           | 87.88                          | 158.69                              | 227717.00                | 120.90                          | 336.10                            | 1.11                                        |   |
| May             | 94.98                          | 143.35                              | 252050.00                | 125.46                          | 336.87                            | 1.15                                        |   |
| June            | 96.84                          | 154.61                              | 248779.00                | 124.26                          | 336.42                            | 1.13                                        |   |
| July            | 105.45                         | 148.23                              | 279067.00                | 124.79                          | 335.57                            | 1.08                                        |   |
| August          | 101.61                         | 222.36                              | 270597.50                | 122.09                          | 333.97                            | 1.11                                        |   |
| September       | 98.90                          | 300.00                              | 255119.00                | 126.25                          | 333.36                            | 1.10                                        |   |
| October         | 96.68                          | 152.99                              | 257401.00                | 131.82                          | 333.95                            | 1.18                                        |   |
| November        | 87.54                          | 140.19                              | 226910.50                | 130.85                          | 333.71                            | 1.18                                        |   |
| December        | 81.17                          | 133.37                              | 217065.00                | 123.70                          | 333.93                            | 1.15                                        |   |
| Yearly Total    | n/a                            | n/a                                 | 2872144.5                | n/a                             | n/a                               | n/a                                         |   |
| Monthly Average | 91.42                          | 166.01                              | 239345.4                 | 124.4                           | 335.0                             | 1.1                                         |   |
| Daily Values    | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>kPa</i>                      | <i>kPa</i>                        | <i>mg/l</i>                                 |   |
| Max             | 300.00                         | 300.00                              | 9980.50                  | 237.05                          | 513.06                            | 2.00                                        |   |
| Min             | 0.00                           | 123.60                              | 809.50                   | 0.00                            | 0.00                              | 0.00                                        |   |
| Avg             | n/a                            | n/a                                 | 7868.89                  | n/a                             | n/a                               | n/a                                         |   |
| Monthly Values  | <i>l/s</i>                     | <i>l/s</i>                          | <i>m3</i>                | <i>kPa</i>                      | <i>kPa</i>                        | <i>mg/l</i>                                 |   |
| Max             | 105.45                         | 300.00                              | 279067.00                | 131.82                          | 337.37                            | 1.19                                        |   |
| Min             | 79.49                          | 123.60                              | 192123.00                | 119.26                          | 333.36                            | 1.08                                        |   |

