

**WOONSOCKET REGIONAL WASTEWATER COMMISSION  
11 CUMBERLAND HILL ROAD  
WOONSOCKET, RHODE ISLAND 02895-4819**

**Tel. (401) 766-1255**

**FAX (401) 766-6912**

February 12, 2014

Mr. David Turin  
USEPA New England  
5 Post Office Square  
Boston, MA 02109-3912

Dear Mr. Turin,  
Enclosed please find a copy of the "CMOM Program Implementation Annual Report for 2013" as required by the Administrative Order issued by the USEPA to the City of Woonsocket.

Also please find attached SSO report, budget items and personnel job specifications as referred to in the report.

Please feel free to contact me at 401-766-0555 ext 5122.

Sincerely yours

*Adel Banoub*

Adel Banoub  
Acting Wastewater Superintendent

cc: Alan Brodd Director of Public Works  
Angelo Liberti, RIDEM  
Reney Ann Mondoux City of Woonsocket  
Paul Rodman, VWNA



**City of Woonsocket  
Sewer Collection System**

**Annual Report**

**2013**



As per EPA order No. 07-035, the City of Woonsocket is pleased to submit their Wastewater Collection System third annual report. During the calendar year 2013 the City of Woonsocket made progress in many areas at the collection system such as flushing and cleaning, CCTV, controlling fat & oil and grease, and spot repairs. In the past five years the City repaired 108 segments at a total cost of \$259,390.28. As for I/I the City repaired 50 segments which eliminated an estimated 313,920 gpm at a cost of \$151,790.28. The remaining 58 segments the City repaired were mainly to repair structure damages which cost \$107,600.00.

This report will follow the format as required by the EPA Order of 07-035:

**A) Summary listing of all SSO:**

During the calendar year 2013 the System has received a total of 52 complaints, 36 complaints were reportable SSO.

The table below summarizes the details of all complaints and other activities by the Sewer Division.

<b>MONTH</b>	<b>TOTAL COMPLAINTS</b>	<b>TOTAL SSO</b>	<b>TOTAL # OF CITY SEWER BLOCKAGES</b>	<b>TOTAL # OF HOMEOWNER BLOCKAGES</b>	<b>OTHER COMPLAINT ISSUES</b>
<b>January-13</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>0</b>
<b>February-13</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>March-13</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>
<b>April-13</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>5</b>
<b>May-13</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>0</b>
<b>June-13</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>0</b>
<b>July-13</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>August-13</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>0</b>
<b>September-13</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>
<b>October-13</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>
<b>November-13</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>December-13</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>
<b>Totals</b>	<b>52</b>	<b>36</b>	<b>5</b>	<b>33</b>	<b>14</b>

<b>DATE</b>	<b>TIME CALLED</b>	<b>TIME RESPONDED</b>	<b>LOCATION</b>	<b>OWNER NAME</b>	<b>PHONE NUMBER</b>	<b>AREA OF DISCHARGE</b>	<b>CAUSE</b>
1/13/2013	11 a.m.	11:50 a.m.	322 C0e Street	Jeff Plant	401-766-5144	Basement	Blocked lateral
1/14/2013	8:30 a.m.	8:45 a.m.	160 Asylum St	Jason Pelliquin	401-257-8287	Basement bathroom	Blocked lateral
1/15/2013	11:32 a.m.	12:00 p.m.	329 St. Louis Ave	Laura Belsile	401-356-0007	Basement	Sag lateral
1/29 2013	11:59 a.m.	12:20 p.m.	450 Clinton Street	Pam Whin	401-767-4100	Basment	Blocked lateral
2/4//2013	10:15 a.m.	11:20 a.m.	67 Cooper Avenue	Chris Burda	401-636-0761	Basement	Blocked lateral
2/11/2013	9:34a.m.	10:00a.m.	171 Boyden Street	Mark Williams	508-726-0218	Basement	Blocked lateral
2/20/2013	3:45p.m.	4:30 p.m.	279 Rathbun St	Matt Boudrea	401-500-5009	Basement	Blocked lateral
3/1/2013	2:30 p.m.	3:00 p.m.	82 Cumberland Rd	Maint Super.	401-597-6997	Basement	Blocked lateral
3/21/2013	9:56 a.m.	10:40 a.m.	100Diamond Hill Rd	Roger Vicatteri	401-651-7555	Basement	Blocked sewer main
3/21/2013	12:30 p.m.	12:45 p.m.	349-351Willow Street	Donna Shaver	401-225-4882	Basement	Blocked sewer main
3/262013	2:05 p.m.	2:30 p.m.	168 Crawford St	Pat McGlashing	401-787-7314	Basement	Blocked lateral
3/31/2013	12:00 p.m.	12:30 p.m.	609 S. Main Street	Maria Diaz		Basement	Blocked lateral
4/2/2013	11:30 a.m.	12:01 p.m.	35 Fabion St	Barton	401-766-1886	Bathroom	Blocked lateral
5/23/2013	2:00 p.m.	2:15 p.m.	38 George St	Woonsocket Eng.	401-762-6400	Bathroom	Blocked lateral
5/28/2013	12:01 p.m.	12:30 p.m.	443 Privilege St	Cindy Vanos	401-769-0701	Basement	Blocked lateral

5/29/2013	2:00 p.m.	2:35 p.m.	38 George St	Woonsocket Eng.	401-762-6400	Basement	Blocked lateral
5/31/2013	11:37 a.m.	12:15 p.m.	159 Nimitz Rd	Jeanette Mistele	401-769-7938	Basement	Blocked lateral
5/31/2013	1:15 p.m.	1:30 p.m.	59 Victory Blvd	Robert Pomei		Basement	Blocked lateral
6/7/2013	12:00 noon	12:30 p.m.	200 Founder St	Woonsocket Eng.	401-762-6400	Basement	Blocked lateral
6/13/2013	9:35 a.m.	10:35 a.m.	42 Larch Rd	Pauline Allard	401-769-1217	Basement	Blocked lateral
6/13/2013	3:30 p.m.	4:00 p.m.	198 St.Cecile Ave	Norman Auelaire	401-769-5018	Basement	Blocked lateral
6/20/2013	1:15 p.m.	2:00 p.m.	323 Rathbun St.	Dennis Richards	401-636-0828	Basement	Blocked lateral
7/10/2013	2:00 p.m.	2:30 p.m.	99 Front St	CN Nenes	401-640-9507	Basement	Blocked lateral
8/22/2013	10:40 a.m.	10:50 a.m.	271 Providence St	Doreen	401-765-1842	Basement	Blocked lateral
8/26/2013	10:40 a.m.	10:54 a.m.	39 Dawn BLVD		401-323-9131	Basement	Blocked lateral
8/31/2013	5:26 p.m.	6:00 p.m.	82 Cumberland St	Prop Manager	401-692-0159	Basement	Main was Blocked
9/23/2013	4:00 p.m.	4:30 p.m.	46 Campeau St	Christine Page	401-309-2607	Toilet Not Flushing	Blocked lateral
9/25/2013	1:32 p.m.	2:00 p.m.	729 Elm St	Phil Guileault	401-487-7004	Basement	Main was Blocked
10/1/2013	10:30 a.m.	10:40 a.m.	1080 Diamond Hill Rd	No Name	No phone	Basement	Blocked lateral
10/18/2013	1:00 p.m.	1:30 p.m.	305 Grove St	Ousman Diallo	401-462-8248	Toilet Not Flushing	Blocked lateral
11/18/2013	1:00 p.m.	1:30 p.m.	362 Mendon Rd	Hellen Lablanc	401-766-9496	Basement	Blocked lateral

11/21/2013	1:40 p.m.	1:55 p.m.	257 Orchard Ave	Raymond Blanchard	401-640-7636	Basement	Blocked lateral
12/13/2013	10:00 a.m.	10:10 a.m.	485 Park East Dr	Hanna Instrument	401-465-5523	Problem with sewe	Blocked lateral
12/23/2013	2:50 p.m.	3:10 p.m.	594 Robinson St	No Name	No Phone	Basement	Main was Blocked
12/24/2013	9:30 a.m.	9:45 a.m.	228-230 W. School Street	Eleanor	401-603-8281	Basement	Main was Blocked

**City of  
Woonsocket**

**Sewer Collection System**

Month	Camera Inspection in feet	Cleaning in feet	Number of Manhole inspected
January 2013	967	4,113	0
February	0	600	49
March	4,986	5,000	0
April	7,817	5,681	46
May	17,481	2,899	37
June	18,133	6,074	0
July	0	0	0
August	1,164	0	21
September	2,014	862	37
October	0	9,329	32
November	9,892	7,342	0
December	6,142	8484	56
<b>Yearly Total</b>	<b>62,454</b>	<b>50,384</b>	<b>278</b>

Previous Years Total	425,000	496,914	2,583
Up-to-date Total	487,454	547,298	2,861
System total	586,080	586,080	3,500
Percent completed	83%	93%	82%



**B) Other activities**

1. Flushing and Cleaning:

During the calendar year 2013 the city through its contractor Veolia Water NA (VWNA) flushed and cleaned a total of 50,384 feet. In the past five years the city flushed and cleaned 547,298 feet and this reflect that 93% of the entire sewer system was cleaned, it must be noted that during this reporting year, VWNA removed over 52 tons of debris from the sewer system

2. CCTV:

During the year 2013 VWNA has CCTV a total of 62,454 feet. To date a total of 487,454 feet of sewer line were CCTV. This reflects that 83% of the system was CCTV. All CCTV ware conducted according to PACP protocol.

3. Manhole inspection:

During the year 2013 VWNA inspected a total of 278 manholes. To date the total manhole were inspected is 2,861 manholes. This reflects that 82% were inspected. All manholes inspection were conducted in accordance to NASSCO's standard

The action of the City of Woonsocket to reduce SSO during 2013 as follow:

1. Infiltration:

In 2009 the City of Woonsocket entered a 10 years contract with Veolia Water NA (VWNA) to maintain and operate its wastewater collection system. Under the term of the contract, VWNA will clean and flush 120,000 feet of sewer pipes every year. The contract also requires VWNA to CCTV 58,000 feet per year as well as an addition 66,000 feet per year for the next three years in order to CCTV all the 23 areas identified as high priority areas in 2006 flow study (Attachment A). **During the 2012 year Veolia Water has completed CCTV all high priority areas. The remaining low priority areas shall be completed in the next two years.**

- a) In past five years the City repaired 50 spot repairs to reduce I/I which eliminated an estimated 313,920 at a cost of \$151,790.28. See Attachment B

The City will be working with Veolia Water to reduce the effect on the inflow in the sewer system

### GIS Mapping

The City of Woonsocket converted their entire sewer mapping to GIS in 2007. The City continues to upgrade the GIS on a regular basis.

Under the contract Veolia Water, The City download every three months the latest CCTV conducted to its GIS database.

### C) Budget and Staffing:

The Sewer collection system is financed by sewer use charge fund. Copy of the current year budget can be found in (Attachment C). The City of Woonsocket has established Capital Improvement fund many years ago. The current budget the City budgeted \$400,000 for this fund. However in accordance of the contract between the City and Veolia Water the City is committed to spend up to \$857,417.18 between July 2013 and June 2014 if required. The remaining balance of the capital improvement as of December 31, 2013 is \$797,053.37. However the City have in own capital improvement account the sum of \$1,400,700.00 (Attachment C)

The VWNA organization chart: See Attachment D

The State of Rhode Island RIDEM was notified of the agreement between the City and VWNA. Copies of job descriptions can be found in (Attachment E). The collection system Manger and one of O&M Tech are certified MACP & PACP.

City's effort to reduce extraneous flow and FOG:

#### 1: FOG:

In 2008, the City IPP started to permit all restaurants in the service area. Currently the IPP issued 150 permits. Only hand full of restaurants to be permitted. 149 restaurants have grease traps or grease interceptor. The IPP has issued compliance schedule to the remaining restaurants. In FY 2013, the IPP inspected 69 restaurants and additional 50 restaurants will be inspected in FY 2013

### D) Buried Manholes:

During the current CCTV, Inland Water discovers some buried manholes. Arrangements are made to raise the manholes above grade. As the CCTV of the system progress any manholes discover to be buried will be raised.

E) Other Sewer Improvement in 2013

- a. Emergency repairs in Gatchell Street in April 2013 to repairs sink hole
- b. Emergency repairs in Richelieu Street in May 2013 to repairs collapse section of the main
- c. Completed upgrade North Main Street Pump Station according to consent agreement with RIDEM. The cost of the upgrade was financed through SRF loan to the City.

G) Project during calendar year 2014:

During the calendar year 2014, the City with their contractor will work to achieve the following:

- a. The City authorized Veolia water to repairs 4 spots with structural damage at a cost of \$238,100.00. Details of those repairs can be find in Attachment F  
In addition, VWNA proposed anther 4 segments to be repaired at estimated cost of \$158,000.00. See attachment F.

The City authorized VWNA to conduct flow metering in zones LL-01 and LL-21 for the amount of \$18,935.00 and in process to authorize flow metering in zones LL-14, LL-19, HL-03, HL-05, LL-16, HL-01 & LL-02 flow metering at estimated cost of \$31,555.00. See Attachment G

The agreement between the City and VWNA call for the inspection of 700 manholes per contract year (from July 1 to the following June 30). The City expects that VWNA will complete inspecting the remaining manhole in the city in 2014.

- b. Raise any discovered buried manholes.
- c. The IPP already started to inspect permitted restaurants and will continue with this task during 2014

**Public Education and outreach:**

Recently, the City's Wastewater and Sewer launched a webpage. The purpose of the webpage is educating the public on the Pretreatment regulations and the sewer system. The public will be able to down load permit application and review current rate. (Attachment H)

The site is designed to educate the public on FOG and items not to be disposed in the sewer in order to reduce SSO in general. The webpage inform the public that the

City accept waste vegetable oil to be recycled to biodiesel. The webpage also publish the important telephone numbers which the public my need in case if there is a sewer, odor or billing problems.

**ATTACHEMENT A**





**ATTACHEMENT B**

City of Woonsocket  
List of I/I repairs

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-21	1943	1944	8	2	\$1,700.00	INFILT	CIP_LINER	6/6/2013 14:30	Asylum Street	2,880
LL-21	2622	2620	8	2	\$1,700.00	JOINT	CIP_LINER	12/24/2009 11:00	Avenue B	4,320
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:36	MORSE AVE.	2,880
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:32	MORSE AVE.	1,440
LL-14	2316	2311	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 9:59	Water Street	7,200
LL-19	2804	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/6/2009 10:20	Bailey Street	5,760
LL-19	2382	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/3/2009 18:29	Ballou Street	2,880
HL-03	3297	3296	8	2	\$1,700.00	INFILT	CIP_LINER	4/4/2012 10:47	Langevin Street	5,760
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 14:00	Nursery Ave	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 11:00	Nursery Ave.	4,320
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 14:30	Nursery St.	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 11:00	Nursery Ave.	2,880
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 10:30	Nursery St.	4,320
HL-03	563	554	8	2	\$1,700.00	JOINT	CIP_LINER	12/4/2009 18:20	Campeau Street	2,880
LL-16	512	1988	8	6	\$2,000.00	INFILT	CIP_LINER	8/25/2011 11:05	Fourth Avenue	7,200
LL-16	1586	508	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 8:36	Fairmount st	4,320
LL-16	2008	490	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:46	Eighth Avenue	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:50	Memorial Drive	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:42	Memorial Drive	2,880
HL-01	3644	3643	8	4	\$1,800.00	INFILT	CIP_LINER	4/5/2012 11:31	Congress Street	7,200
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/30/2011 11:36	Congress Street	12,960
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/24/2011 11:43	Congress Street	7,200
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/12/2011 10:45	Alysworth Avenue	8,640
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/11/2011 10:44	Alysworth Avenue	11,520
HL-05	4712	4713	8	2	\$1,700.00	INFILT	CIP_LINER	8/23/2011 11:10	Ray Avenue	14,400
HL-05	4711.1	4711	8	2	\$1,700.00	INFILT	CIP_LINER	7/26/2011 10:53	Ray Avenue	7,200
LL-09	3843	3844	8	2	\$1,700.00	MAIN	CIP_LINER	4/5/2012 11:34	Prospect Street	2,880
LL-09	3872	3873	8	2	\$1,700.00	INFILT	CIP_LINER	8/16/2011 10:40	Woodland Road	5,760
LL-09	3872	3873	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:42	Woodland Road	4,320
LL-22A	2181	2180	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 10:13	Capwell ave	4,320
LL-22A	2183	2182	8	2	\$1,700.00	Break W/ INFILT	CIP_LINER	12/11/2009 13:25	CAPWELL AVE.	1,440
HL-04	542	543	8	4	\$1,800.00	INFILT	CIP_LINER	7/19/2011 10:38	Poplar Street	2,880
HL-04	560	1973	8	2	\$1,700.00	JOINT	CIP_LINER	12/16/2009 15:30	Campeau Street	1,440
HL-02	4627	4625	22	267	\$24,171.50	INFLOW	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	20,160
HL-02	265	4626.1	20	129	\$11,678.37	INFLOW	CIP_LINER	10/5/2011 16:00	Havelock Street Easement	20,160
HL-02	4626.1	4626	20	134	\$12,131.02	INFILT	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	28,800

HL-02	4626	4627	22	263	\$23,809.39	INFLOW	CIP_LINER	10/3/2011 16:00	Peter's Brook Swamp	20,160
LL-08	3644	3643	8	6	\$2,000.00	INFILT	CIP_LINER	8/23/2011 11:27	Congress Street	12,960
LL-08	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/30/2011 11:30	Congress Street	7,200
LL-08	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/24/2011 11:43	Congress Street	7,200
Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-06	83	84	15	2	\$1,800.00	INFILT	CIP_LINER	8/29/2011 10:44	East School Street	5,760
LL-06	87	85	8	4	\$1,800.00	JOINT	CIP_LINER	12/15/2009 8:36	East School St.	1,440
LL-10	3764	3763	8	4	\$1,800.00	INFILT	CIP_LINER	9/28/2010 10:18	Huntington Avenue	2,880
MR-01A	765	762	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 15:00	Bluestone Dr.	4,320
MR-01A	761	760	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 10:55	Bluestone Dr.	1,440
MR-01A	466	767	8	2	\$1,700.00	MAIN	CIP_LINER	11/18/2009 10:52	Lydia St.	720
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/15/2013 14:00	Maple Street	2,880
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/14/2013 14:00	Maple Street	2,880
LL-03	1861	1875	8	2	\$1,700.00	INFILT	CIP_LINER	8/13/2013 14:45	Maple Street	4,320
MR-01	1642	1632	8	2	\$1,700.00	BREAK	CIP_LINER	12/21/2009 13:00	Fairfield Ave.	720

I/I Segments 50  
Total Feet repaired 911

Total Cost \$151,790.28

Total I&L Removed GPD	313,920
-----------------------	---------

**ATTACHEMENT C**

USER CHARGE COLLECTION FUND

Public Works Department

Sewer Division

Detail 2013-2014

page 1 of 2

	Adopted Budget FY 13	Adjusted Budget FY 13	Total Est. Expended FY 13	Proposed Budget FY 14
<b>U6951 <u>Personal Services</u></b>				
-51110 Permanent Services	\$ -	\$ -	\$ -	\$ -
-51122 Temporary Labor	\$ 19,850	\$ 19,850	\$ 19,850	\$ 19,850
<b>Permanent Services</b>	<b>19,850</b>	<b>19,850</b>	<b>19,850</b>	<b>19,850</b>
<b><u>Extra Compensation</u></b>				
-51141 Overtime	-	-	-	-
-51144 Out of Class Pay	-	-	-	-
-51145 Longevity	-	-	-	-
-51147 Sick Leave Reimb	-	-	-	-
51148 Comp Time Reimb	-	-	-	-
-51149 Shift Differential	-	-	-	-
-51153 Non Sick/Injury Bonus	-	-	-	-
-51155 Bonus for Course	-	-	-	-
<b>Total Extra Compensation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Personal Services</b>	<b>19,850</b>	<b>19,850</b>	<b>19,850</b>	<b>19,850</b>
<b>U6952 <u>Maintenance &amp; Servicing</u></b>				
-52211 Postage	-	-	-	-
-52212 Telephone	600	600	600	600
-52213 Dues and Subscriptions	-	-	-	-
-52214 Advertising	-	-	-	-
-52219 Education Training	-	-	-	-
-52221 Printing & Reproducing	-	-	-	-
-52223 Operations & Management	698,140	698,140	633,672	640,009
-52227 Accelerated Cleaning	155,000	155,000	155,000	155,000
-52231 Gen. Maint. & Upkeep	-	-	-	-
-52234 Veh & Outside Equip Upkeep	-	-	-	-
-52238 Maintenance - Roads & Walk:	-	-	-	-
-52244 Land Rental Charges	2,475	2,475	2,475	2,475
-52251 Heating	-	-	-	-
-52252 Light & Power	50,000	50,000	50,000	52,250
-52290 Engineering Services	50,000	50,000	50,000	50,000
<b>Total Maint. &amp; Servicing</b>	<b>956,215</b>	<b>956,215</b>	<b>891,747</b>	<b>900,334</b>

account detail continued on next page

**USER CHARGE COLLECTION FUND**

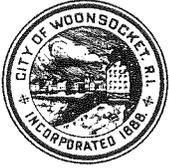
**Public Works Department**

**Sewer Division**

Detail 2013-2014

page 2 of 2

	Adopted Budget FY 13	Adjusted Budget FY 13	Total Est. Expended FY 13	Proposed Budget FY 13
<b>U6953</b>				
<b><u>Operating Supplies</u></b>				
-53311 Office Supp. & expenses	-	-	-	-
-53321 Gas & Diesel Fuel	-	-	-	-
-53322 Tires & Batteries	-	-	-	-
-53335 Water Purchased	3,000	3,000	3,000	3,750
-53344 Tools & Implements	-	-	-	-
-53346 Cleaning & Hskp Supplies	-	-	-	-
-53349 Other Supplies	-	-	-	-
-53363 Clothing & Footwear	-	-	-	-
-53366 Medical Supplies	-	-	-	-
-53369 Clothing Allowance	-	-	-	-
<b>Total Operating Supplies</b>	<b>3,000</b>	<b>3,000</b>	<b>3,000</b>	<b>3,750</b>
<b>U6954</b>				
<b><u>General Charges</u></b>				
-54433 City Employees Pension	-	-	-	-
-54434 FICA Employer Cost	1,530	1,530	1,530	1,530
-54449 RWT Service Charges	-	-	-	-
-54451 Vehicle Insurance	-	-	-	-
-54452 Insurance Workers Comp	-	-	-	-
-54453 Insurance Liability	-	-	-	-
-54456 Insurance-Group Life	-	-	-	-
-54471 Health Insurance	9,680	9,680	9,680	39,212
-54472 Dental Insurance	3,060	3,060	3,060	-
-54473 Renewal & Replace Fund	400,000	400,000	400,000	400,000
-54492 Contingency				430,539
<b>Total General Charges</b>	<b>414,270</b>	<b>414,270</b>	<b>414,270</b>	<b>871,281</b>
<b>TOTAL SEWER DIVISION</b>	<b>\$ 1,393,335</b>	<b>\$ 1,393,335</b>	<b>\$ 1,328,867</b>	<b>\$ 1,795,215</b>



CITY OF WOONSOCKET, RHODE ISLAND  
OFFICE OF THE FINANCE DIRECTOR  
FORWARD WOONSOCKET  
"A CITY ON THE MOVE"

February 12, 2014

Adel Banoub  
City of Woonsocket  
Regional Wastewater Plant  
11 Cumberland Hill Road  
Woonsocket, RI 02895

Dear Adel,

The funding of the User Renewal and Replacement fund from User Charge for the past three fiscal years was as follows:

Fiscal Year 2011	\$200,000
Fiscal Year 2012	\$400,000
Fiscal Year 2013	\$400,000

As of December 31, 2013, User owed User R&R \$1,400,700. The Fiscal Year 2014 funding is budgeted at \$400,000 with \$100,000 transferred to date.

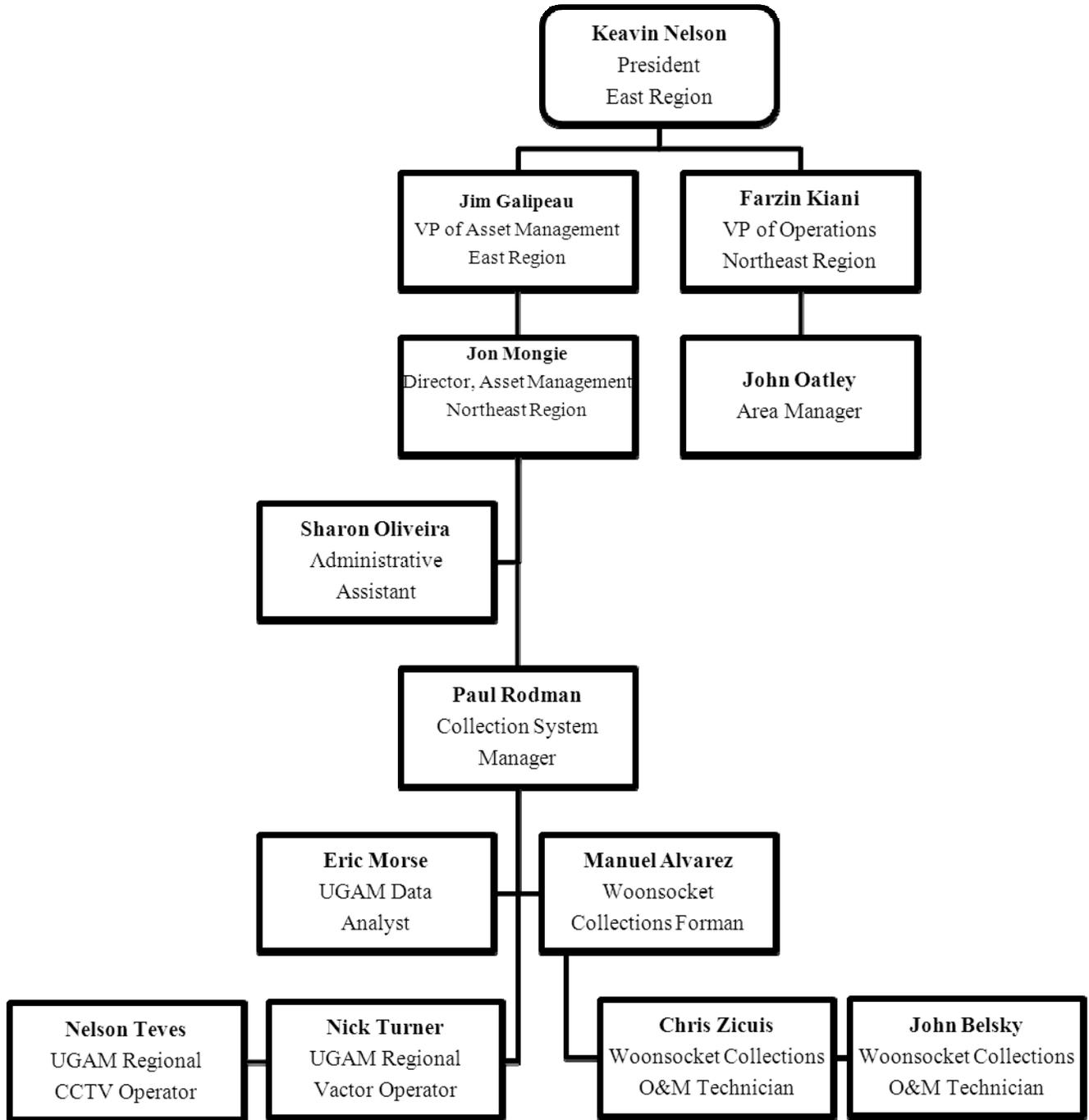
The balance of the User Renewal and Replacement fund as of December 31, 2013 is as follows:

Cash	\$ 28,058
Investments	\$ 23,476

Sincerely,

  
Christine Chamberland  
City Controller

**ATTACHEMENT D**



**ATTACHEMENT E**



June 30, 2009

## **COLLECTION SYSTEM MANAGER, WOONSOCKET, RI**

Responsibilities/Duties for this position: Supervises approximately three full time employees on a regular basis. The work involves the maintenance of sanitary collection systems and pump stations as needed. Employees typically perform cleaning, inspection and maintenance of the gravity sanitary sewer pipes and manholes. The unique feature of this system is the pipes are large diameter of 10 to 30 inches.

Experience, Education and/or Licensing needed for this position: Degree in related field or equivalent related experience. Must hold or be working toward the highest level of Collection System Certification as required by site. Must demonstrate knowledge and experience of health and safety requirements, federal, state and local laws and codes. Must be First Aid and CPR certified within 90 days of hire. Five to seven years in progressive experience in the operation and maintenance of a sanitary sewer collection system with specialized experience in cleaning and inspecting large deep sanitary sewer pipes and manholes. Lead experience or supervisory training required with understanding of human relations, training, performance evaluation and health and safety.

Candidate must have:

- Experience in Cleaning and inspecting large diameter gravity sewer pipes and manholes.
- Effective skills in troubleshooting, problem solving and team building.
- The availability to help execute the wet weather operations plan.
- The ingenuity and initiative to coordinate problem resolution and to execute the contract requirements within a team environment.
- General knowledge of budget preparation and understanding of cost control.
- Demonstrated good verbal communications and interpersonal skills in order to interface with and motivate all levels of personnel.
- Demonstrated ability to prepare accurate, timely, effective, complete and easily understood written communications and reports.
- Proficiency in the care and use of all site specific, facility required PPE (Personal Protection Equipment).
- Computer skills and a knowledge of word processing, spreadsheet and presentation software for preparing work related reports, charts, graphs and data submittal requirements.
- The ability to use computer systems for preparing work orders and purchasing requisitions.
- The ability to work on an on-call, rotational 24 hour emergency basis with the other Collection System Supervisor.
- Must have or develop skills for the O&M of pump stations and instrumentation and control equipment.
- A demonstrated commitment to compliance with applicable laws and regulations, the Company's Code of Business Conduct and other Company policies and procedures.

# Collections O&M Technician

## JOB DESCRIPTION

Business Unit / Location: VWNA / Woonsocket, RI	Position Code: 270010 <b>Benchmark</b>
Department: UGAM	Prepared by: J. Mongie Last Update: April 9, 2010
Managed by (Title): Collections System Supv / Mgr	FLSA Status: Non-Exempt
Department Approval	HR Approval

### SUMMARY

Performs field maintenance, inspection, installation or repairs in one or more areas such as system protection (line locates and inspections of the collection system), cleaning and CCTV pipe, SSES projects, and system flows, and inspecting and maintaining manholes, pipes, and wet wells.

**Note:** This position requires a mandatory rotating on-call schedule with a half hour response time. Also ability to travel to other job locations

### KNOWLEDGE, EXPERIENCE AND SKILLS REQUIRED TO CARRY OUT THE JOB

**Technical Knowledge, Years of Related Experience, Certifications Required, Equipment and/or Systems Experience**

High school or GED with the ability to read, write and comprehend English (maps, operational, maintenance, safety and quality instructions) and be able to carry out verbal and written instructions.

Ability to perform basic mathematical calculations. Some vocational training and mechanical aptitude preferred, with the ability to read, interpret and record data from meters, gauges, panels, computer consoles and other equipment.

Six months to two years experience in a related position with ability to comprehend specifications, drawings and manuals.

Minimum water / wastewater license as required by regulatory agency at site.

Experience using power, pneumatic, hydraulic, and hand tools.

Experience using pressure gauges and precision measuring instruments.

Must have ability to use a computer or computer device for record keeping.

Must consistently demonstrate the ability to learn and independently perform assigned duties and meet or exceed production and quality goals.

Must demonstrate ability to work in a team environment and willingness to assume additional or new responsibilities readily.

Must demonstrate the ability to work well and communicate with clients, management and the general public.

Must possess a valid driver's license and a safe driving record.

### TRAINING REQUIRED

**What training will an employee require to successfully perform the duties of the position?**

Employee Orientation, Field Service Operating Procedures, Safety, Confined Space training, OSHA and Quality Training. Equipment inspection and repair training.

HAZWOPER (Hazardous Waste Operations and Emergency Response) Level I and II First Responder Certification if required by site. Minimum water / wastewater operator state certification.

Cross-connection certification if required by site.

Customer Service Training. Computer or systems training as required.

Must become proficient in the care and use of all site specific, facility required PPE (Personal Protection Equipment), including respirators, gas detectors, confined space equipment, etc.)

Forklift Certification if required by site.

Works toward increasing skills in additional functional areas or in obtaining advanced skills / certifications.

CDL Class B with Tanker endorsement Knowledge of operations and maintenance of Vactor Trucks May perform more advanced functions as part of training and development.
Learning Curve: How much time is required to effectively perform the job? <input type="checkbox"/> 0-3 months <input type="checkbox"/> 3-6 months <input checked="" type="checkbox"/> 6-9 months <input type="checkbox"/> 9 months to 1 year <input type="checkbox"/> 1 – 1 ½ years <input type="checkbox"/> 1 ½ to 2 years <input type="checkbox"/> 2 to 3 years

<b>E or N</b>	<b>MAIN ACTIVITIES CARRIED OUT</b>	<b>% OF TIME</b>
	<b>Identify the major tasks accomplished by this job. Identify % of time spent on each and whether activity is an E- essential function or N – non-essential function of the job.</b>	
E	Performs inspections for sewer pipe repairs, replacements and fresh water sources. Performs system locates. Performs cleaning and maintenance of pipes and manholes.	30%
E	Learns to use the InfoNet Mobile application to record and complete existing work orders and create work orders ad hoc in the field.	15%
E	Learns to perform SSES projects, such as smoke testing, dye testing, dye flooding, building inspection, sewer tie in & sewer extension inspections and manhole inspections.	25%
E	Performs routine and preventative maintenance on equipment. Promptly reports any operational problems to Lead or Supervisor.	10%
E	Cleans equipment and work area as required and properly disposes of waste according to safety and environmental policies. Operates vehicles for field service purposes.	10%
E	<b>SPECIFIC ACTIVITIES (INTERMITTENT, ON AN OCCASIONAL BASIS, ETC.)</b> May travel to other projects for assistance.	10%

<b>SCOPE AND IMPACT OF THE JOB</b>	
Revenue or budget managed: \$ 0 Investments decided upon / managed: none at this level	
Number of Direct Reports: 0 Number of Indirect Reports: 0 Titles of Reports: n/a	
Nature of Supervisory Responsibility: <input checked="" type="checkbox"/> None	
Degree of supervision received or the degree of autonomy given: The degree to which supervisor outlines the methods to be followed or results to be obtained and checks work or progress. Works under direct supervision: Works either with higher level or more experienced team member or specific instructions are given on assignments or follows written or verbal instructions and established procedures (specifications, drawing and manuals) and standard practice to perform assigned tasks.	
Complexity of Duties and Decisions: The extent to which duties are guided by standard policy, practice or precedents or the amount of resourcefulness and planning and creative effort in devising new methods, policies, policies, procedures, products or original application. Performs a variety of manual functions. Follows established procedures to perform standardized or routine tasks. Must follow established operational, maintenance, safety and emergency response procedures. Must adhere to specifications and schedule. May suggest process improvements.	
Initiative: Describe the ingenuity, creative imagination or original thought that is expected of the job. Uses initiative in carrying out recurring assignments. Waits for direction for next steps and assignments outside of routine. Keeps supervisor informed of problems.	
How errors detected and what is possible impact of those errors? Work is reviewed for completeness and accuracy, or inherent checks are built into the nature of the work. Most errors are caught during self-inspection before leaving work unit. Impact is minimal.	

<b>INTERPERSONAL / COMMUNICATIONS</b>
Indicate internal and external contacts and purpose of contacts.
Internal contact with immediate associates and immediate supervisor for instructions, training and guidance. Frequent contact with customers to resolve service issues and problems.

**WORK ENVIRONMENT AND DEMANDS**

List the work environment and physical demands encountered while performing the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

**Work Environment:**

Spends majority of time in field environment and occasionally works in an office, maintenance or repair shop environment. Typically spends 85% of time exposed to outdoor and sometimes inclement weather. Company service vehicles are used as required. May serve rotational 24 hour emergency on-call.

**Possible Work Hazards:**

May be exposed to possible operations hazards including fumes, dust, toxic and caustic chemicals, noise, rotating machinery, high pressure and hot and cold temperatures, slippery surfaces, water and electrical hazards and confined spaces.

**Physical Demands:**

Amount of time spent – Standing 25%, Walking 75% for as many as five miles per shift. Requires close visual and hearing observation to detect non-conformance and machine malfunction. Constantly uses hands to finger, handle or feel and frequently reaches with hands and arms. Works in various positions; works on ladders, catwalks, and supports at heights of 50 feet above the ground; and works with hands extended above and below head and body up to 40 minutes using hand tools weighing up to 15 pounds. Must be able to lift and carry 50 pounds (occasionally 60 pounds) distances of 10 feet. Occasional stooping, bending or kneeling and entering confined spaces.

*This job description is a general description of essential job functions. It is not intended as an employment contract, nor is it intended to describe all duties someone in this position may perform. All employees are expected to perform tasks as assigned by supervisory personnel, regardless of job title or routine job duties.*

**ATTACHEMENT F**

City of Woonsocket

Proposed sewer improvements in 2014

<b>AUTHORIZED AND APPROVED PROJECTS IN 2014</b>						
	<b>CIPP Structural</b>	Diamond Hill Road	\$ 3,100.00	VWNA	\$ 3,100.00	
	<b>Dig &amp; Replace</b>	Fourth Avenue	\$ 70,000.00	VWNA	\$ 70,000.00	
	<b>Dig &amp; Replace</b>	East School Street	\$ 80,000.00	VWNA	\$ 80,000.00	
	<b>Dig &amp; Replace</b>	Rachel Street	\$ 85,000.00	VWNA	\$ 85,000.00	
	<b>Flow Metering</b>	LL-01 & LL-21 flow metering	\$ 18,935.00	VWNA	\$ 18,935.00	
	<b>Total</b>		<b>\$ 257,407.00</b>			
<b>PROPOSED PROJECTS IN 2014</b>						
	<b>Flow Metering</b>	LL-14, LL-19, HL-03, HL-05, LL-16, HL-01 & LL-02 flow metering	\$ 31,555.00	VWNA		
	<b>CIPP</b>	20 CIPP Repairs	\$ 39,700.00	VWNA		
	<b>Dig &amp; Replace</b>	Diamond Hill Road	\$ 100,000.00	Other contractor		
	<b>Dig &amp; Replace</b>	Dig and replace 168' of sewer main on Avenue C	\$32,000.00	Other contractor		
	<b>Dig &amp; Replace</b>	Dig and replace 50' of sewer main on Huntington Street	\$10,000.00	Other contractor		
	<b>Dig &amp; Replace</b>	Dig and replace 20' of sewer main of River Street	\$8,000.00	Other contractor		
	<b>Dig &amp; Replace</b>	Dig and replace 20' of sewer main on Lambert Street	\$8,000.00	Other contractor		

Total

**\$229,255.00**

Grand Total

**\$ 486,662.00**

**ATTACHEMENT G**

**WOONSOCKET REGIONAL WASTEWATER COMMISSION**  
**11 CUMBERLAND HILL ROAD**  
**WOONSOCKET, RHODE ISLAND 02895-4819**

**Tel. (401) 766-1255**

**FAX (401) 766-6912**

In 2007 the City of Woonsocket commissioned CDM to conduct Infiltration/Inflow (I/I) study on its sewer system. CDM divided the City sewer system to 36 zones (see attached table1). The study indicated that 23 zones out of the 36 zones were classified as high priority infiltration rate zones based on Massachusetts DEP when infiltration rate exceed 4000 gallons per day per inch diameter mile of sewer (gpd/in-mil) (see attached table 2).

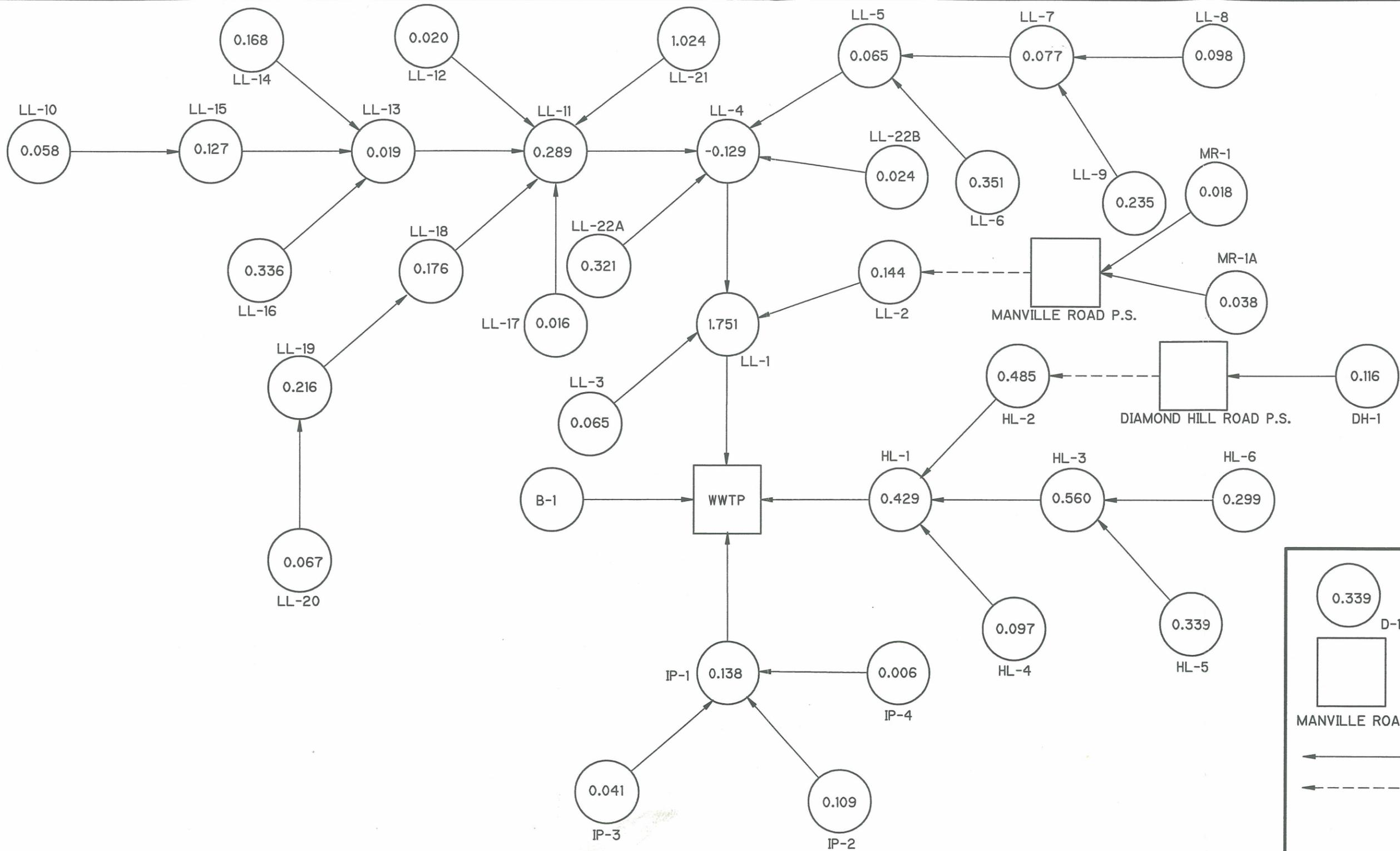
In 2009 the City entered agreement with Veolia Water NA (Veolia) to operate and maintain the sewer system in the City. The agreement also require Veolia to clean and CCTV all the 23 zones within the first three years.

From 2009 to present the City authorized Veolia to repair (CIPP) 108 spots in the system for I/I or structure damage for a total cost of \$259,390.28 (see attached table 3). The number of repairs for I/I were 50 spots which eliminated an estimated 313,920 gallons per day at a cost of \$151,790.28 (see attachment table 4).

The City will continue its effort to repairs I/I or structure damage spots, in fact the City is about to authorize dig and replace in four (4) different streets as CIPP is not recommended. The estimated cost for these repairs are estimated to be between \$150,000 and \$200,000

In addition to the I/I repairs which the City already completed, The City authorized Veolia to install seven (7) flow meters in zones LL-01 and LL-21 which have the worst infiltration rate. This project will start on March 2014 and will continue for 14 weeks. Data from the meters will be analyzed as will the rain fall and the peak intensity for each storm as well as ground water level from data collected from ground water station NSW 21 located at Branch Village in North Smithfield. The City is considering adding additional 12 meters to monitor addition high rate infiltration zones during the same period if funds can be approved.

**Table 1**



CITY OF WOONSOCKET, RHODE ISLAND  
 INFILTRATION AND INFLOW REMEDIATION PROGRAM  
**FLOW MONITORING PROGRAM SCHEMATIC**

**Table 2**



**Table 3**

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-21	728	719	8	4	\$1,800.00	CRACK	CIP_LINER	6/17/2013 11:00	Asylum Street	0
LL-21	726	725	8	4	\$1,800.00	CRACK	CIP_LINER	6/12/2013 11:00	Asylum Street	0
LL-21	1943	1944	8	2	\$1,700.00	INFILT	CIP_LINER	6/6/2013 14:30	Asylum Street	2,880
LL-21	730	1951	8	2	\$1,700.00	LAT	CIP_LINER	6/6/2013 11:30	Asylum Street	0
LL-21	730	1951	8	2	\$1,700.00	CRACK	CIP_LINER	6/5/2013 14:30	Asylum Street	0
LL-21	727	728	8	2	\$1,700.00	CRACK	CIP_LINER	6/5/2013 11:00	Asylum Street	0
LL-21	727	728	8	2	\$1,700.00	CRACK	CIP_LINER	6/4/2013 11:00	Asylum Street	0
LL-21	2093	2476	8	8	\$2,100.00	MAIN	CIP_LINER	7/29/2011 10:59	Warren Avenue	0
LL-21	717	718	8	6	\$2,000.00	MAIN	CIP_LINER	7/26/2011 9:33	Bourdon Blvd	0
LL-21	2622	2620	8	2	\$1,700.00	JOINT	CIP_LINER	12/24/2009 11:00	Avenue B	4,320
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:36	MORSE AVE.	2,880
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:32	MORSE AVE.	1,440
LL-14	2316	2311	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 9:59	Water Street	7,200
LL-19	2804	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/6/2009 10:20	Bailey Street	5,760
LL-19	2382	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/3/2009 18:29	Ballou Street	2,880
HL-03	4170	4171	8	4	\$1,800.00	BREAK	CIP_LINER	7/10/2013 13:35	Annette Ave	0
HL-03	3297	3296	8	2	\$1,700.00	INFILT	CIP_LINER	4/4/2012 10:47	Langevin Street	5,760
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 14:00	Nursery Ave	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 11:00	Nursery Ave.	4,320
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 14:30	Nursery St.	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 11:00	Nursery Ave.	2,880
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 10:30	Nursery St.	4,320
HL-03	563	554	8	2	\$1,700.00	JOINT	CIP_LINER	12/4/2009 18:20	Campeau Street	2,880
LL-16	709	708	10	4	\$1,900.00	MAIN	CIP_LINER	6/17/2013 13:30	Bourdon Blvd	0
LL-16	721	720	8	2	\$1,700.00	MAIN	CIP_LINER	6/12/2013 13:15	Memorial Drive	0
LL-16	512	1988	8	8	\$2,100.00	MAIN	CIP_LINER	8/26/2011 9:48	Fourth Avenue	0
LL-16	512	1988	8	6	\$2,000.00	INFILT	CIP_LINER	8/25/2011 11:05	Fourth Avenue	7,200
LL-16	720	708	8	4	\$1,800.00	MAIN	CIP_LINER	8/16/2011 9:40	Memorial Drive	0
LL-16	709	708	8	6	\$2,000.00	MAIN	CIP_LINER	7/26/2011 9:29	Bourdon Blvd	0
LL-16	721	720	8	6	\$2,000.00	MAIN	CIP_LINER	7/15/2011 11:09	Memorial Drive	0
LL-16	721	720	8	4	\$1,800.00	MAIN	CIP_LINER	7/14/2011 9:57	Memorial Drive	0
LL-16	1586	508	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 8:36	Fairmount st	4,320
LL-16	2008	490	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:46	Eighth Avenue	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:50	Memorial Drive	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:42	Memorial Drive	2,880
HL-01	3644	3643	8	4	\$1,800.00	INFILT	CIP_LINER	4/5/2012 11:31	Congress Street	7,200
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/30/2011 11:36	Congress Street	12,960
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/24/2011 11:43	Congress Street	7,200
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/12/2011 10:45	Alysworth Avenue	8,640
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/11/2011 10:44	Alysworth Avenue	11,520
HL-05	4712	4713	8	2	\$1,700.00	INFILT	CIP_LINER	8/23/2011 11:10	Ray Avenue	14,400
HL-05	4711.1	4711	8	2	\$1,700.00	INFILT	CIP_LINER	7/26/2011 10:53	Ray Avenue	7,200

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-09	3793	3416	8	4	\$1,800.00	BREAK	CIP_LINER	8/19/2013 19:00	Temple Street	0
LL-09	3793	3416	8	4	\$1,800.00	FRACTURE	CIP_LINER	8/13/2013 12:34	Temple Street	0
LL-09	3843	3844	8	2	\$1,700.00	MAIN	CIP_LINER	4/5/2012 11:34	Prospect Street	2,880
LL-09	3412	3405	10	6	\$2,100.00	MAIN	CIP_LINER	8/18/2011 22:00	Winter Street	0
LL-09	3872	3873	8	2	\$1,700.00	INFILT	CIP_LINER	8/16/2011 10:40	Woodland Road	5,760
LL-09	3802	3803	8	4	\$1,800.00	COL	CIP_LINER	7/13/2011 13:51	Castle Heights Court	0
LL-09	3872	3873	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:42	Woodland Road	4,320
LL-22A	539	1975	10	4	\$1,900.00	BREAK	CIP_LINER	9/9/2013 11:17	Poplar Street	0
LL-22A	2213	2212	8	4	\$1,800.00	BREAK	CIP_LINER	7/11/2013 11:00	Berard Avenue	0
LL-22A	2181	2180	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 10:13	Capwell ave	4,320
LL-22A	2183	2182	8	2	\$1,700.00	Break W/ INFILT	CIP_LINER	12/11/2009 13:25	CAPWELL AVE.	1,440
IP-02	2523	2522	8	6	\$2,000.00	BREAK	CIP_LINER	9/12/2013 8:55	CVS Drive	0
HL-04	545	544	8	4	\$1,800.00	BREAK	CIP_LINER	7/8/2013 10:30	Laurier Street	0
HL-04	542	543	8	4	\$1,800.00	INFILT	CIP_LINER	7/19/2011 10:38	Poplar Street	2,880
HL-04	560	1973	8	2	\$1,700.00	JOINT	CIP_LINER	12/16/2009 15:30	Campeau Street	1,440
HL-02	4623	4622	8	6	\$2,000.00	FRACTURE	CIP_LINER	9/18/2013 22:30	Progresso Avenue	0
HL-02	4623	4622	8	6	\$2,000.00	BREAK	CIP_LINER	9/9/2013 13:00	Progresso Avenue	0
HL-02	2418	2407	8	2	\$1,700.00	HOLE	CIP_LINER	7/8/2013 14:00	Coolidge Avenue	0
HL-02	4627	4625	22	267	\$24,171.50	INFLOW	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	200
HL-02	265	4626.1	20	129	\$11,678.37	INFLOW	CIP_LINER	10/5/2011 16:00	Havelock Street Easement	200
HL-02	4626.1	4626	20	134	\$12,131.02	INFILT	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	200
HL-02	4626	4627	22	263	\$23,809.39	INFLOW	CIP_LINER	10/3/2011 16:00	Peter's Brook Swamp	200
HL-02	3221	3219	8	2	\$1,700.00	LAT	CIP_LINER	8/25/2011 9:35	Winthrop Street	0
HL-02	3221	3219	8	4	\$1,800.00	MAIN	CIP_LINER	8/24/2011 9:30	Winthrop Street	0
HL-02	3245	3226	8	4	\$1,800.00	MAIN	CIP_LINER	8/18/2011 15:00	St. Louis Avenue	0
HL-02	4624	4623	8	4	\$1,800.00	MAIN	CIP_LINER	7/18/2011 10:45	Progresso Avenue	0
HL-02	3244	3245	8	4	\$1,800.00	BREAK	CIP_LINER	7/13/2011 14:17	St. Louis Avenue	0
HL-02	4618	4619	8	4	\$1,800.00	COL	CIP_LINER	7/12/2011 14:24	Merida Avenue	0
LL-08	3544	3643	8	6	\$2,000.00	INFILT	CIP_LINER	8/23/2011 11:27	Congress Street	172,800
LL-06	4657	4655	8	4	\$1,800.00	BREAK	POINT	9/27/2013 9:30	Wood Avenue	0
LL-06	4657	4655	8	4	\$1,800.00	MAIN	CIP_LINER	9/26/2013 13:00	Wood Avenue	0
LL-06	4336	4352	8	2	\$1,700.00	FRACTURE	CIP_LINER	9/19/2013 11:00	Kendrick Street	0
LL-06	4356	4352	8	6	\$2,000.00	FRACTURE	CIP_LINER	9/17/2013 12:30	Kendrick Street	0
LL-06	4336	4352	8	6	\$2,000.00	FRACTURE	CIP_LINER	9/11/2013 14:53	Kendrick Street	0
LL-06	83	84	15	2	\$1,800.00	INFILT	CIP_LINER	8/29/2011 10:44	East School Street	5,760
LL-06	84	85	15	6	\$2,300.00	CRACK	CIP_LINER	8/29/2011 9:39	East School Street	0
LL-06	4329	4324	8	4	\$1,800.00	MAIN	CIP_LINER	7/19/2011 9:48	Gaulin Avenue	0
LL-06	87	85	8	4	\$1,800.00	JOINT	CIP_LINER	12/15/2009 8:36	East School St.	1,440
HL-06	4486	4488	8	4	\$1,800.00	HOLE	CIP_LINER	9/26/2013 9:30	Walnut Hill Road	0
HL-06	4514	4513	8	4	\$1,800.00	MAIN	CIP_LINER	6/3/2013 11:00	Stoneham Drive	0

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
HL-06	3660	3659	8	4	\$1,800.00	JOINT	CIP_LINER	5/17/2013 14:30	Country Road	0
HL-06	4499	3663	8	4	\$1,800.00	MAIN	CIP_LINER	5/17/2013 11:00	Grandview Avenue	0
HL-06	4454	4455	8	4	\$1,800.00	BREAK	CIP_LINER	5/10/2013 11:00	Knollwood Drive	0
HL-06	4472	4473	8	4	\$1,800.00	MAIN	CIP_LINER	5/9/2013 15:00	Rustic Drive	0
HL-06	3659	3658	8	4	\$1,800.00	CRACK	CIP_LINER	5/9/2013 11:00	Country Road	0
HL-06	3564	3563	8	4	\$1,800.00	CRACK	CIP_LINER	5/8/2013 11:00	Bayberry Road	0
HL-06	4475	4476	8	4	\$1,800.00	MAIN	CIP_LINER	4/4/2012 10:49	Rustic Drive	0
LL-10	3764	3763	8	4	\$1,800.00	INFILT	CIP_LINER	9/28/2010 10:18	Huntington Avenue	2,880
LL-18	3054	3050	8	4	\$1,800.00	MAIN	CIP_LINER	7/11/2013 14:30	Cottage Court	0
LL-18	3369	3371	8	2	\$1,700.00	BREAK	CIP_LINER	7/10/2013 11:24	Vose Street	0
LL-18	4140	4141	8	6	\$2,000.00	BREAK	CIP_LINER	7/9/2013 12:46	Hollis Street	0
LL-18	3379	3375	8	4	\$1,800.00	BREAK	CIP_LINER	7/9/2013 11:00	Grand Street	0
LL-18	4137	4138	8	4	\$1,800.00	MAIN	CIP_LINER	6/26/2013 12:30	Thomas Street	0
LL-18	4136	413	8	6	\$2,000.00	MAIN	CIP_LINER	6/26/2013 11:00	Thomas Street	0
LL-18	3265	3264	8	4	\$1,800.00	MAIN	CIP_LINER	5/7/2013 14:30	New Street	0
LL-18	3265	3264	8	6	\$2,000.00	CRACK	CIP_LINER	5/7/2013 11:00	New Street	0
MR-01A	765	762	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 15:00	Bluestone Dr.	4,320
MR-01A	761	760	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 10:55	Bluestone Dr.	1,440
MR-01A	466	767	8	2	\$1,700.00	MAIN	CIP_LINER	11/18/2009 10:52	Lydia St.	720
LL-03	1879	1880	8	6	\$2,000.00	BREAK	CIP_LINER	8/30/2013 9:10	Carrington Avenue	0
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/15/2013 14:00	Maple Street	2,880
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/14/2013 14:00	Maple Street	2,880
LL-03	1861	1875	8	2	\$1,700.00	INFILT	CIP_LINER	8/13/2013 14:45	Maple Street	4,320
LL-03	1871	1872	8	2	\$1,700.00	CRACK	CIP_LINER	8/12/2013 9:07	Maple Street	0
LL-03	1777	1776.1	10	4	\$1,800.00	MAIN	CIP_LINER	8/30/2011 9:53	Hamlet Avenue	0
MR-01	1642	1632	8	2	\$1,700.00	BREAK	CIP_LINER	12/21/2009 13:00	Fairfield Ave.	720

Totao segments	108		1163	\$259,390.28
			I/I	\$151,790.28
			Others	\$107,600.00

**Table 4**

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-21	1943	1944	8	2	\$1,700.00	INFILT	CIP_LINER	6/6/2013 14:30	Asylum Street	2,880
LL-21	2622	2620	8	2	\$1,700.00	JOINT	CIP_LINER	12/24/2009 11:00	Avenue B	4,320
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:36	MORSE AVE.	2,880
LL-21	2083	2084	8	2	\$1,700.00	JOINT	CIP_LINER	12/7/2009 15:32	MORSE AVE.	1,440
LL-14	2316	2311	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 9:59	Water Street	7,200
LL-19	2804	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/6/2009 10:20	Bailey Street	5,760
LL-19	2382	2390	8	2	\$1,700.00	JOINT	CIP_LINER	12/3/2009 18:29	Ballou Street	2,880
HL-03	3297	3296	8	2	\$1,700.00	INFILT	CIP_LINER	4/4/2012 10:47	Langevin Street	5,760
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 14:00	Nursery Ave	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/23/2009 11:00	Nursery Ave.	4,320
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 14:30	Nursery St.	2,160
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 11:00	Nursery Ave.	2,880
HL-03	549	550	8	2	\$1,700.00	JOINT	CIP_LINER	12/22/2009 10:30	Nursery St.	4,320
HL-03	563	554	8	2	\$1,700.00	JOINT	CIP_LINER	12/4/2009 18:20	Campeau Street	2,880
LL-16	512	1988	8	6	\$2,000.00	INFILT	CIP_LINER	8/25/2011 11:05	Fourth Avenue	7,200
LL-16	1586	508	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 8:36	Fairmount st	4,320
LL-16	2008	490	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:46	Eighth Avenue	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:50	Memorial Drive	5,760
LL-16	720	708	8	2	\$1,700.00	JOINT	CIP_LINER	12/10/2009 17:42	Memorial Drive	2,880
HL-01	3644	3643	8	4	\$1,800.00	INFILT	CIP_LINER	4/5/2012 11:31	Congress Street	7,200
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/30/2011 11:36	Congress Street	12,960
HL-01	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/24/2011 11:43	Congress Street	7,200
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/12/2011 10:45	Alysworth Avenue	8,640
HL-05	4201	4200	12	2	\$1,800.00	INFILT	CIP_LINER	10/11/2011 10:44	Alysworth Avenue	11,520
HL-05	4712	4713	8	2	\$1,700.00	INFILT	CIP_LINER	8/23/2011 11:10	Ray Avenue	14,400
HL-05	4711.1	4711	8	2	\$1,700.00	INFILT	CIP_LINER	7/26/2011 10:53	Ray Avenue	7,200
LL-09	3843	3844	8	2	\$1,700.00	MAIN	CIP_LINER	4/5/2012 11:34	Prospect Street	2,880
LL-09	3872	3873	8	2	\$1,700.00	INFILT	CIP_LINER	8/16/2011 10:40	Woodland Road	5,760
LL-09	3872	3873	8	4	\$1,800.00	INFILT	CIP_LINER	12/15/2010 7:42	Woodland Road	4,320
LL-22A	2181	2180	8	4	\$1,800.00	INFILT	CIP_LINER	11/24/2010 10:13	Capwell ave	4,320
LL-22A	2183	2182	8	2	\$1,700.00	Break W/ INFILT	CIP_LINER	12/11/2009 13:25	CAPWELL AVE.	1,440
HL-04	542	543	8	4	\$1,800.00	INFILT	CIP_LINER	7/19/2011 10:38	Poplar Street	2,880
HL-04	560	1973	8	2	\$1,700.00	JOINT	CIP_LINER	12/16/2009 15:30	Campeau Street	1,440
HL-02	4627	4625	22	267	\$24,171.50	INFLOW	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	20,160
HL-02	265	4626.1	20	129	\$11,678.37	INFLOW	CIP_LINER	10/5/2011 16:00	Havelock Street Easement	20,160
HL-02	4626.1	4626	20	134	\$12,131.02	INFILT	CIP_LINER	10/5/2011 16:00	Peter's Brook Swamp	28,800
HL-02	4626	4627	22	263	\$23,809.39	INFLOW	CIP_LINER	10/3/2011 16:00	Peter's Brook Swamp	20,160
LL-08	3644	3643	8	6	\$2,000.00	INFILT	CIP_LINER	8/23/2011 11:27	Congress Street	12,960
LL-08	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/30/2011 11:30	Congress Street	7,200
LL-08	3644	3643	8	2	\$1,700.00	INFILT	CIP_LINER	8/24/2011 11:43	Congress Street	7,200

Drainage code	US node ID	DS node ID	Height (in)	Repair length (ft)	Actual cost (\$)	Defect type	Repair type	Date completed	Location	Infiltration Removed (GPD)
LL-06	83	84	15	2	\$1,800.00	INFILT	CIP_LINER	8/29/2011 10:44	East School Street	5,760
LL-06	87	85	8	4	\$1,800.00	JOINT	CIP_LINER	12/15/2009 8:36	East School St.	1,440
LL-10	3764	3763	8	4	\$1,800.00	INFILT	CIP_LINER	9/28/2010 10:18	Huntington Avenue	2,880
MR-01A	765	762	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 15:00	Bluestone Dr.	4,320
MR-01A	761	760	8	2	\$1,700.00	JOINT	CIP_LINER	11/23/2009 10:55	Bluestone Dr.	1,440
MR-01A	466	767	8	2	\$1,700.00	MAIN	CIP_LINER	11/18/2009 10:52	Lydia St.	720
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/15/2013 14:00	Maple Street	2,880
LL-03	1875	1861	8	2	\$1,700.00	INFILT	CIP_LINER	8/14/2013 14:00	Maple Street	2,880
LL-03	1861	1875	8	2	\$1,700.00	INFILT	CIP_LINER	8/13/2013 14:45	Maple Street	4,320
MR-01	1642	1632	8	2	\$1,700.00	BREAK	CIP_LINER	12/21/2009 13:00	Fairfield Ave.	720

I/I Segments 50  
Total Feet repaired 911

Total Cost \$151,790.28

Total I&L Removed GPD	313,920
-----------------------	---------



Water-Data Report 2012

**415948071325001 Local number North Smithfield well NSW 21**

Sand and gravel aquifers (glaciated regions)  
Outwash

Providence County

LOCATION.--Lat 41°59'41", long 71°32'51" referenced to North American Datum of 1927, Providence County, Hydrologic Unit 01090003, 500 ft southwest of Rt. 146A, 900 ft west of intersection of Rt. 146A and Harkness Road at Branch Village in North Smithfield.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 16 ft. Upper casing diameter 24.00 in; top of first opening 16 ft, bottom of last opening 16 ft.

DATUM.--Land-surface datum is 238.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: About 2 acres of land surrounding well excavated by ~ 1.84 ft; MP did not change, new cap 2010, 1.84 ft below land-surface datum, May 21, 1947, to present.

PERIOD OF RECORD.--May 1947 to current year.

GAGE.--Monthly measurement.

COOPERATION.--Rhode Island Department of Environmental Management; Rhode Island Water Resources Board.

REMARKS.--Well used for domestic supply; water levels affected by pumping, 1947-80.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

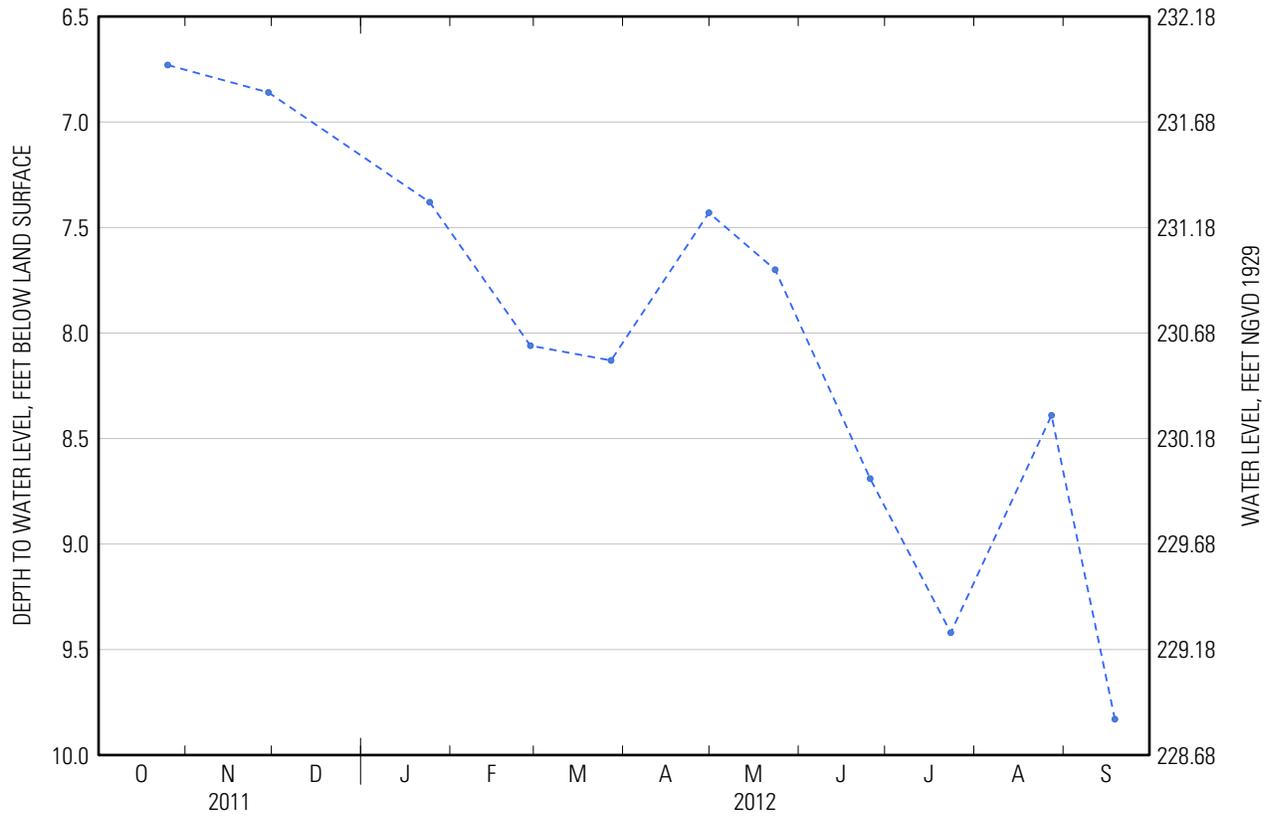
<b>Date</b>	<b>Water level</b>	<b>Date</b>	<b>Water level</b>
Oct 25	6.73	May 23	7.70
Nov 29	6.86	Jun 25	8.69
Jan 24	7.38	Jul 23	9.42
Feb 28	8.06	Aug 27	8.39
Mar 27	8.13	Sep 18	9.83
Apr 30	7.43		

Water year 2012 highest: 6.73, Oct 25, 2011; lowest: 9.83, Sep 18, 2012

Period of record highest: 3.32, Mar 29, 2010; lowest: 11.71, Oct 28, 1957

Record available from May 1, 1947, to Feb 24, 2013; 791 entries

415948071325001 Local number North Smithfield well NSW 21—Continued



**ATTACHMENT H**



[WOONSOCKET HOMEPAGE](#) • [CITY CALENDAR](#) • [CONTACT US](#) • [SEARCH](#)

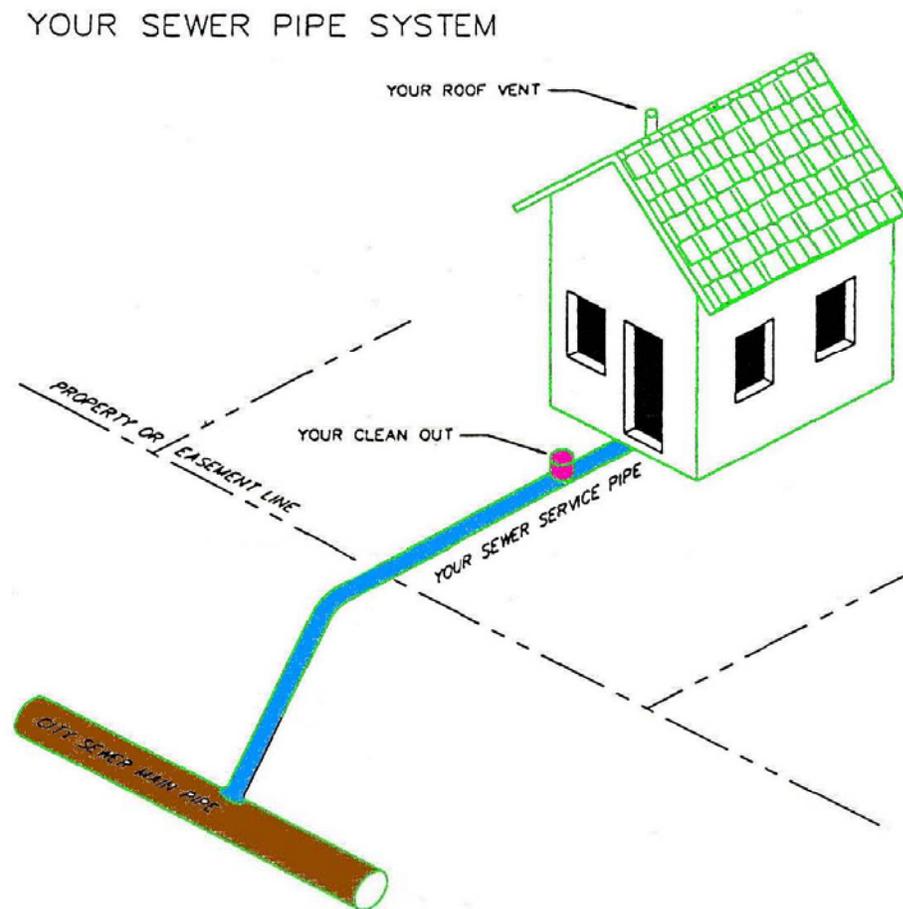
## *Sewer Division*

- [Sanitary Sewer Overflows: Frequently Asked Questions](#)
- [Information About Your Sewer](#)
- [Woonsocket Sewer System](#)
- [What You Need to Know Before Hiring A Plumber](#)
- [Annual Sewer Use Charge - Rhode Island Cities & Towns](#)
- [Sewer Division Annual Report to EPA 2011](#)
- [City Sewer Policy](#)
- [Contact Us](#)

## What is a sewer service lateral?

The service lateral is constructed by private owners for private use of their property. It is a private sewer located on private property not serving the community at large and for which the City does not have an executed and recorded easement for the purpose of providing City maintenance. The service lateral is an extension of the house building sewer that connects the building to the City sewer. The maintenance and repair of the entire sewer service lateral is the property owner's responsibility.

Page 1 of 1



## **What is a sanitary sewer system?**

Those structures (pipes, force mains, gravity sewer lines and manholes) in the wastewater collection system designed to convey municipal sewage only (not stormwater) to a wastewater treatment facility are referred to as "sanitary sewers."

## **What is a sewer overflow or sanitary sewer overflow?**

A sewage overflow is the intentional or unintentional diversion of flow from a sanitary or combined sewer collection and transmission system. Sewage overflows include discharges to public property or discharges on private property; discharges to State Waters and United States Waters.

## **What should a customer do when a sewage backup occurs in the home/yard, etc.?**

If you experience a sewage backup, you should contact Veolia Water the operator of the City's sewer collection system at 401-762-5050 ext. 2

## **Sewer Backup Problems**

Preventative measures you can take to prevent Sewer backups:

- Do not dispose of your household grease in the sinks or toilets
- Do not dispose of diapers or other disposable hygiene products in your toilets
- Do not dispose of bones and food scraps if you do not have an appliance to grind them before disposal
- Inspect and have your rooftop vents cleaned out by a professional
- Place screening over your rooftop vents if you encounter a problem with rodents entering your home through your toilets
- For information on how you can prevent a backup or sewer overflow: For more information on what to do if you have a sewer overflow:

## **Prevent Blocked Drains**

Most homeowners have experienced a temporary blockage or sluggish drains in their plumbing. Minor blockages often can be cleared with a plunger.

Cooking grease, hair, food particles, toilet paper and roots often cause sluggish drains or line blockages. If they happen near the drain opening or toilet bowl, a plunger may be effective in clearing them. However, if the problem is some distance into a drain line, it may require a plumber to locate and resolve.

## **Eliminate Water**

If you have a blocked or stubborn drain, the first thing you want to do is reduce or eliminate the water you put in the lines to minimize the amount of damage you may do. Obviously, if you keep flushing a slow-moving toilet, it will overflow the bowl, damaging your floor.

Washing machines can create one of the biggest problems when your drains are running slowly. Washers use 15 to 20 gallons a load. This water could back up into toilets or showers, possibly

causing overflow damage. It is relatively easy to find out if the blockage is in the house drains or in the sewer lines.

### **Check Your Cleanout**

First, check the cleanout next to the house to see if it has water in it. If it contains no water, then you know the blockage is somewhere in the house plumbing. If there is water standing in the cleanout, the blockage is most likely in the line from the house to the main sewer line.

If there is a cleanout near your property line and you find water standing in it, the problem is likely in the City sewer line. Under these circumstances you should discontinue using your facilities and contact Veolia Sewer Collection at 401-762-5050 option 2.

If there is no cleanout at the property line and water is standing in a cleanout on your property, you should also contact Veolia Sewer Collection at 401-762-5050 option 2.

**Please Note:** Veolia Sewer Collection is not permitted to do any work on private property; therefore, the homeowner or a plumber must resolve any problem between the right-of-way and the house.

If you have any questions regarding your sewer bill, please contact Sewer Use charge at City Hall Telephone number 401-767-2217

### ***How to Prevent Fats, Oils, and Greases from Damaging Your Home and the Environment***

Fats, Oils, and Greases aren't just bad for your arteries and your waistline; they're bad for sewers, too.

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. An increasingly common cause of overflows is sewer pipes blocked by grease. Grease gets into the sewer from household drains as well as from poorly maintained grease traps in restaurants and other businesses.

Where does the grease come from?

Most of us know grease as the byproduct of cooking. Grease is found in such things as:

- Meat fats
- Lard
- Cooking oil
- Shortening
- Butter and margarine
- Food scraps
- Baking goods
- Sauces
- Dairy products



Too often, grease is washed into the plumbing system, usually through the kitchen sink. Grease sticks to the insides of sewer pipes (both on your property and in the streets). Over time, the grease can build up and block the entire pipe.

Home garbage disposals do not keep grease out of the plumbing system. These units only shred solid material into smaller pieces and do not prevent grease from going down the drain. Commercial additives, including detergents that claim to dissolve grease may pass grease down the line and cause problems in other areas.

The results can be:

- Raw sewage overflowing in your home or your neighbor's home;
- An expensive and unpleasant cleanup that often must be paid for by you, the homeowner;
- Raw sewage overflowing into parks, yards, and streets;
- Potential contact with disease-causing organisms; and
- An increase in operation and maintenance costs for local sewer departments, which causes higher sewer bills for customers.

### **Telephone numbers to remember**

**For Sewer bills inquiry: Call 401-767-2217**

**For Odor complaints: Call odor hot line at 401-765-7623**

**For Pretreatment questions call: 401-766-1255**

**For Sewer issues such as:**

**Sewage over flow from manhole**

**Broken manhole cover**

**Sewer over flow in basement**

**Sewer blockage**

**Call 401-762-5050 option 2**