



# *Public Works Department*

## *2014 Annual Report*





# Introduction

## Public Works Department

### Public Works Mission:

We enhance the quality of life for our residents and promote development for our community by providing and maintaining public infrastructure in a sustainable manner to the highest standards.

The O'Fallon Public Works Department is composed of four divisions that work together to provide vital services to O'Fallon's residents and businesses.

Environmental Services (trash, recycling and yard waste)	636.272.0477
Engineering	636.379.5596
Streets	636.379.3808
Water and Sewer	636.281.2858

The Department is dedicated to maintaining and improving O'Fallon's quality of life by planning for future needs, building and maintaining municipal infrastructure, managing public capital improvement projects and promoting environmental health and safety. The department is responsible for regular maintenance on City roads, storm sewers, water mains and sewer lines, and also provides residential trash, recycling and yard waste collection. When it snows, staff provides around-the-clock snow and ice removal on public thoroughfares throughout the City.

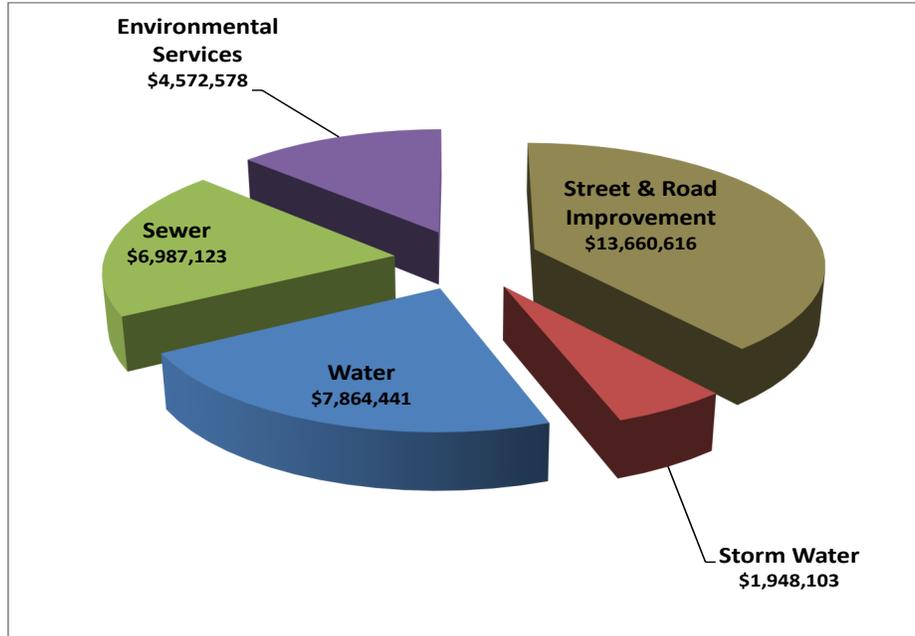
The Public Works Department also works closely with the Community Development Department to manage the growth and development of the City, to promote the general welfare, and to enhance the quality of life for all City residents. In particular, Public Works staff participates extensively in the review and approval process for all proposed site development projects. Once projects gain approval and site development begins, staff provides daily inspections, particularly during site grading and the installation of public infrastructure, such as water and sewer lines.

There are needs common to all human beings that must be met through the provision of public works services. These needs are met on a daily basis by visionary, value-driven, and hard-working men and women who provide and sustain public works services in the best interests of their communities.



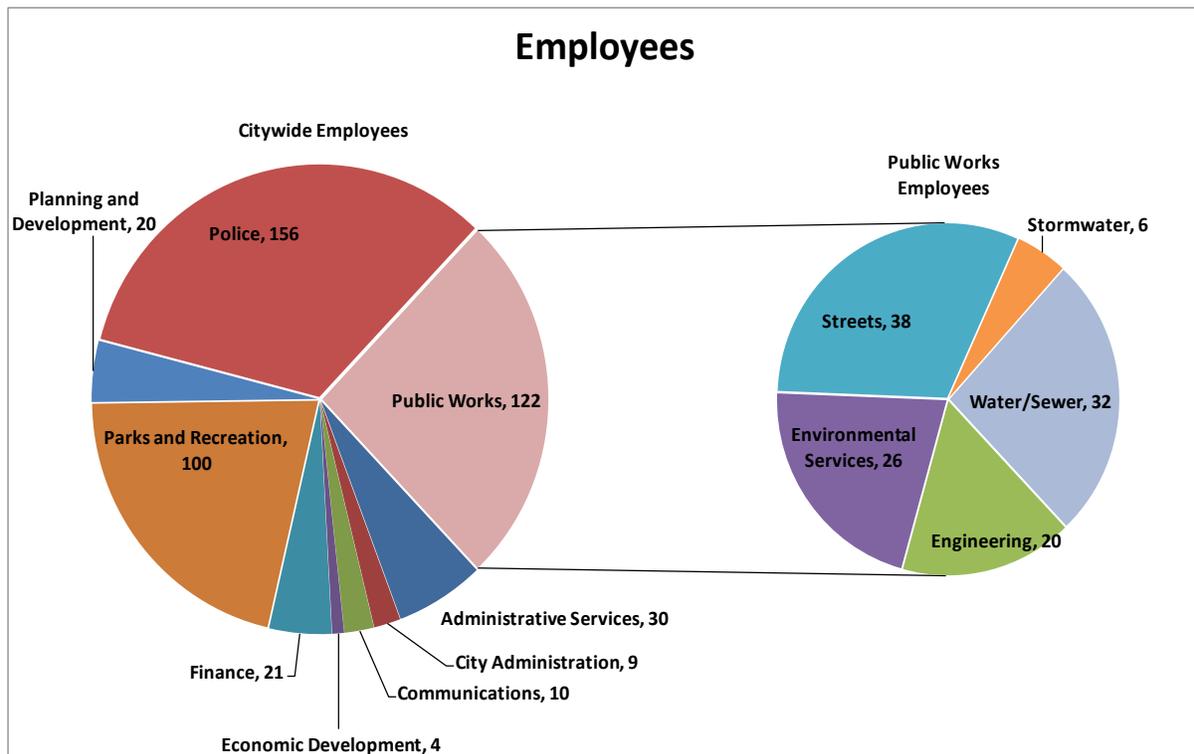
In 2014, the total City budget was \$77.5 million with Public Works making up \$35 million or 45% of the total City budget.

### Public Works Budget



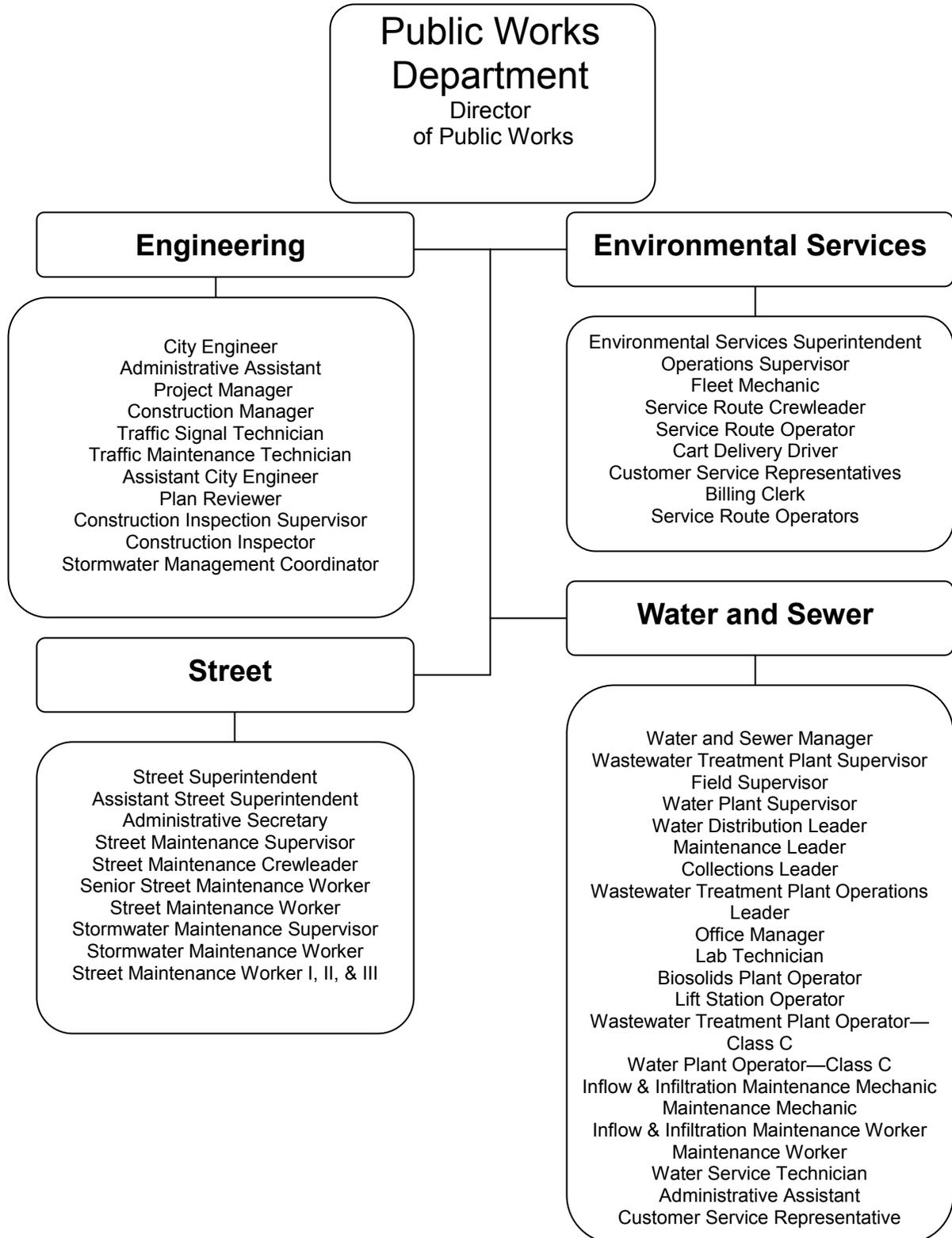
City wide there are 473 full-time positions with 122 of these positions existing within the Public Works Department.

### Employees





# Public Works Department Organizational Chart





## Public Work Commission

O'Fallon's Public Works Commission consists of 10 citizen members appointed by the Mayor with the consent of the City Council and four (4) Ex-Officio members (non-voting) consisting of a member of the City Council and three (3) staff members.

The Public Works Commission advises the Mayor, City Council, City Administrator and Public Works Department regarding public works issues within the City.

The Commission studies, assesses and renders advice on plans and programs of the City related to City buildings and physical facilities; streets, roadways, sidewalks, rights of way and other traffic and transportation elements; snow and ice removal plans, programs and equipment; stormwater planning, systems and facilities, and lastly, water and sanitary sewer systems and facilities owned by the City.



*(Left to right )* Mary Laulo, Robert Twillman, Kevin Wattlelet, Dave Nolan, Joe Buehne, Al Callier, William Fath, Richard Fitch, Jim Karl. Not pictured Steve Patton

- Robert Twillman - Ward 1
- Kevin Wattlelet - Ward 1
- Steve Patton - Ward 2
- Mary Laulo - Ward 2
- Al Callier - Ward 3
- Richard Fitch Ph.D. - Ward 3
- Dave Nolan - Ward 4
- Joe Buehne - Ward 4
- Jim Karl - Ward 5
- William Fath - Ward 5



# **Water & Sewer Division**



# Water & Sewer Division

## Mission Statement

The Water and Sewer Division of Public Works is dedicated to providing high quality drinking water to our customers and treating wastewater to levels exceeding the discharge limits set by the Department of Natural Resources. This will be accomplished by planning, developing, maintaining and operating the City's utility systems in a customer service-oriented, fiscally sound and efficient manner.

## Areas of Responsibility

Wastewater Treatment Plant  
Wastewater Collection System  
Water Treatment System  
Water Distribution System  
Sewer Lateral Program  
Cellular Towers and Antennas on City Property

## Water & Sewer Office and Field Staff



### Office Staff

Mike Pratt  
Dan Scherer  
Christine Grabin

### Water Distribution Crew

Dustin Grabin  
Jason Boedeker  
Terry Cronin  
Steve Meyers  
Dave Reed

### Sewer Collections Crew

Doug Reiser  
Jeremy Barron  
Tim Hellebusch  
Aaron Howard  
Dave Richardson  
Steve Sparks

Water and Sewer Field Crews provide 24/7 emergency response services which include but are not limited to water main breaks, leaks, sewer back-ups, and snow removal.



## Water Treatment Plant (WTP) & Waste Water Treatment Plant (WWTP) Staff



### **WTP Staff**

Dan Ismay  
Jim Carnahan  
Brandon Gilbert  
Eric Huenefeld  
Melissa Myers  
Dave Rendleman  
Mike Reneau  
Dave Wahoski

### **WWTP Staff**

Rick Stephan  
Kenny Barton  
Floyd Bowman  
Jeremy Daniels  
Steve Eisenbeis  
Tom Heinz  
Jon Plessner  
Dave Simko  
Bobby Swink  
Ben Thompson

## **Certifications and Licenses**

The 32 Water/Wastewater Personnel hold 40 licenses and/or certifications recognized by MoDNR; and other State of Missouri authorities:

8-A level wastewater operators licenses  
4-A level water operators licenses  
5-A level sanitary collection system licenses  
9-III level distribution system licenses  
1 Professional Engineer

## **2014 Division Budget**

Water Fund	\$8,031,941
Sewer Fund	\$7,869,673
Sewer Lateral Insurance	\$ 131,940



## **O'Fallon Water**

The O'Fallon Water System consists of a 6.0 million gallon per day, state-of-the-art Reverse Osmosis (RO) Membrane Water Treatment Plant with five alluvial wells. This water supply and treatment is complimented with six additional deep wells, four booster pump stations, high service pumps, five elevated storage tanks, two ground storage tanks and over 174 miles of cast iron, ductile iron, transite and PVC distribution lines. The Water System currently has over 11,900 and is expected to serve over 12,100 customers by the end of year 2015. The City continues to provide an ample supply of water for its customers and continues to meet and exceed the treatment and distribution criteria prescribed and enforced by the State of Missouri. Staff continues to research and explore new processes to achieve greater efficiency within the system.

In 2014 the Water Division stayed busy with many projects. The painting of tower #6 was completed and the construction of the 2 million gallon storage tank was started. This construction should be completed in the spring of 2015. The rehabilitation of filters 2, 3 & 4 began in 2014 and will be completed in the spring of 2015 along with the St. Gemma water main extension. All of these projects are done in an ongoing effort to provide water customers with high quality, reliable and energy efficient water service

### **O'Fallon Water Distribution System**

- Over 172 miles of cast iron, ductile iron, and PVC distribution lines; ranging from 2" to 36"
- 4 booster pump stations
- 5 elevated storage tanks
- 2 ground storage tanks
- 1,150 fire hydrants

### **2014 Water System Statistics**

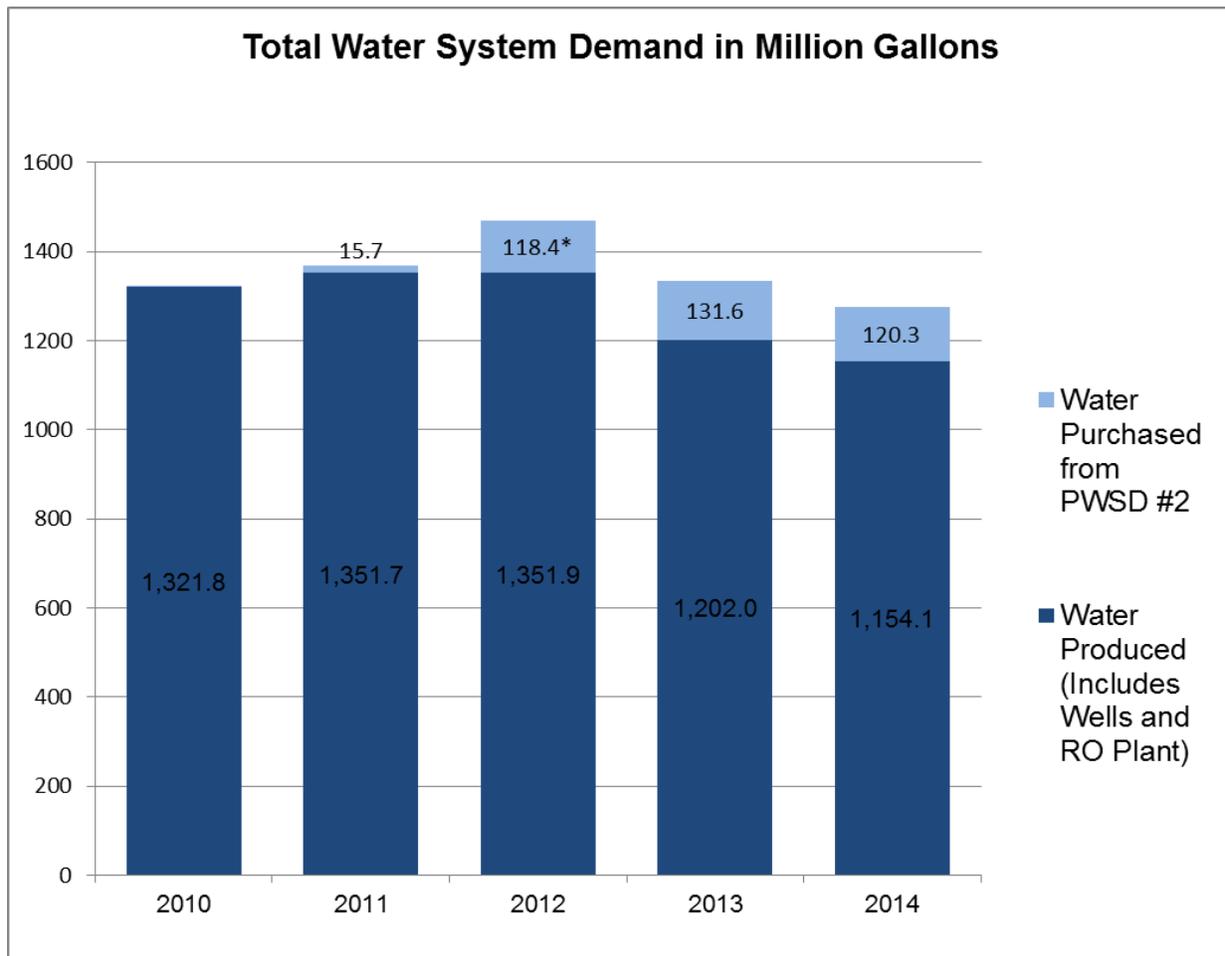
- Total Water Produced – 1,154.1 million gallons
- Average Day Delivery – 3.491 million gallons
- Peak Day Delivery – 5.802 million gallons (7/31/14)
- Service Requests – 4,561
- Line Locates – 6,426
- 11,965 water customers



## Maximum Water Supply

• Treatment Plant	5 MGD
• Wells #3, #4, #6, & #7	4 MGD
• Interconnect with PWSD #2	<u>2 MGD</u>
Total	11MGD

## Water System Historical Data

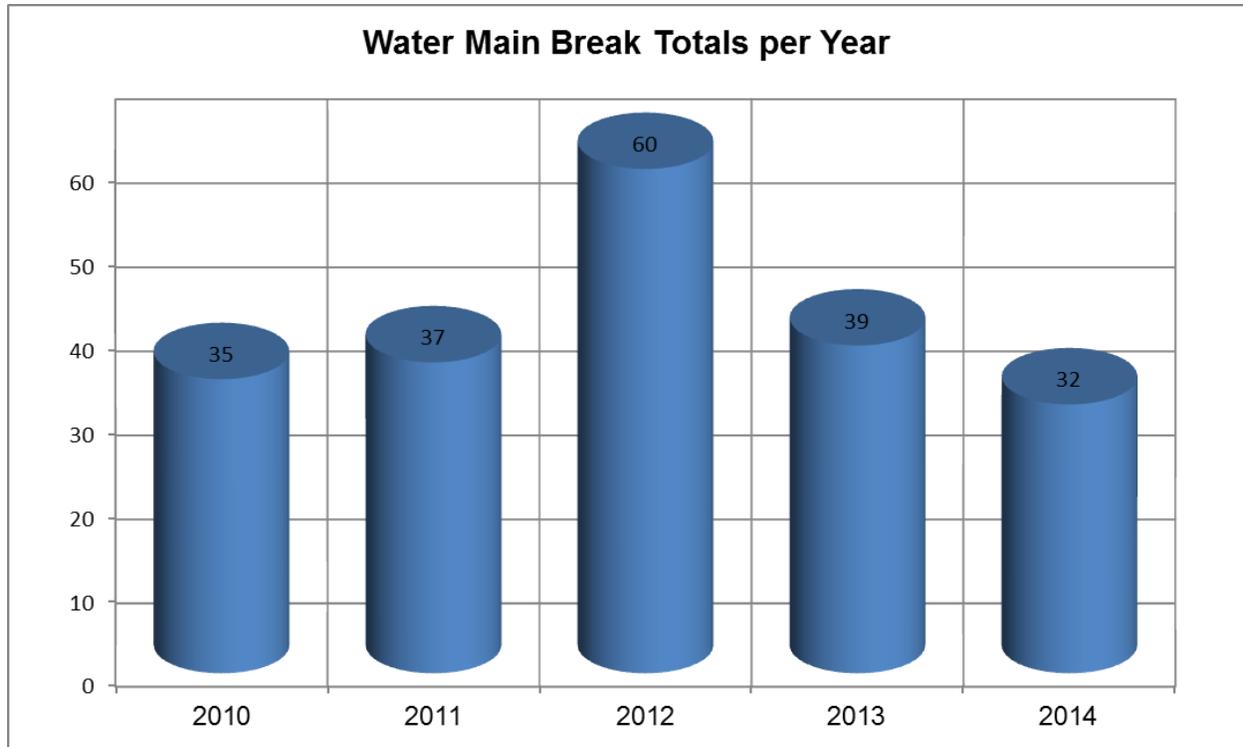


\* 2012 was the 1<sup>st</sup> year water was purchased from PWSD #2 to supply the Southwest Booster area.





Water Distribution Crew replacing a section of water main





## **O'Fallon Wastewater**

The City of O'Fallon, Missouri Sewer System includes a vast collection system and full scale, state-of-the-art regional wastewater treatment plant with a capacity of 11.25 million gallons per day, complete with three full equalization basins, a Class A biosolids dewatering and handling facility, large capacity interceptor sewers ranging up to 48 inches in diameter and large capacity wastewater pumping stations located at strategic points in the system. The collection system consists of over 195 miles of interceptor and collector lines ranging in size from 6 inches to 48 inches. The wastewater treatment plant, originally constructed in 1984, utilizes an activated biofilter process with four (4) unit primary and four (4) secondary clarifiers, four (4) variable speed high capacity bio-tower lift pumps, three (3) biofilter towers, four (4) aeration basins, an effluent pumping station with four (4) high capacity submersible pumps, sludge digester and an effluent ultra-violet disinfection process.

The Sewer System currently serves over 15,700 customers and is expected to serve approximately 15,900 customers, both inside and outside City residents, by the end of FY 2015.

Staff continues to exceed all treatment criteria regulated by the State of Missouri and EPA. Staff continues to research and explore new processes to achieve greater efficiency within the system.

Fiscal Year 2014 proved to be another busy year for the Sewer Division. The division provided a more environmentally friendly wastewater treatment system by lining the equalization basin. This will also allow for easier cleaning and maintenance. The wastewater treatment plant also replaced an aging bar screen with a new one and installed an additional grinder to the east lift station. This grinder will reduce the frequency of manual cleaning of the bar screen. The division also replaced a 20 year old centrifugal blower with a new turbo blower for the aeration basins at the wastewater treatment plant.



## **Wastewater Collection System**

- 212 miles of interceptor and collector lines; ranging from 6 inches to 48 inches
- 17 pump stations
- 5,813 manholes

## **Wastewater Treatment Plant**

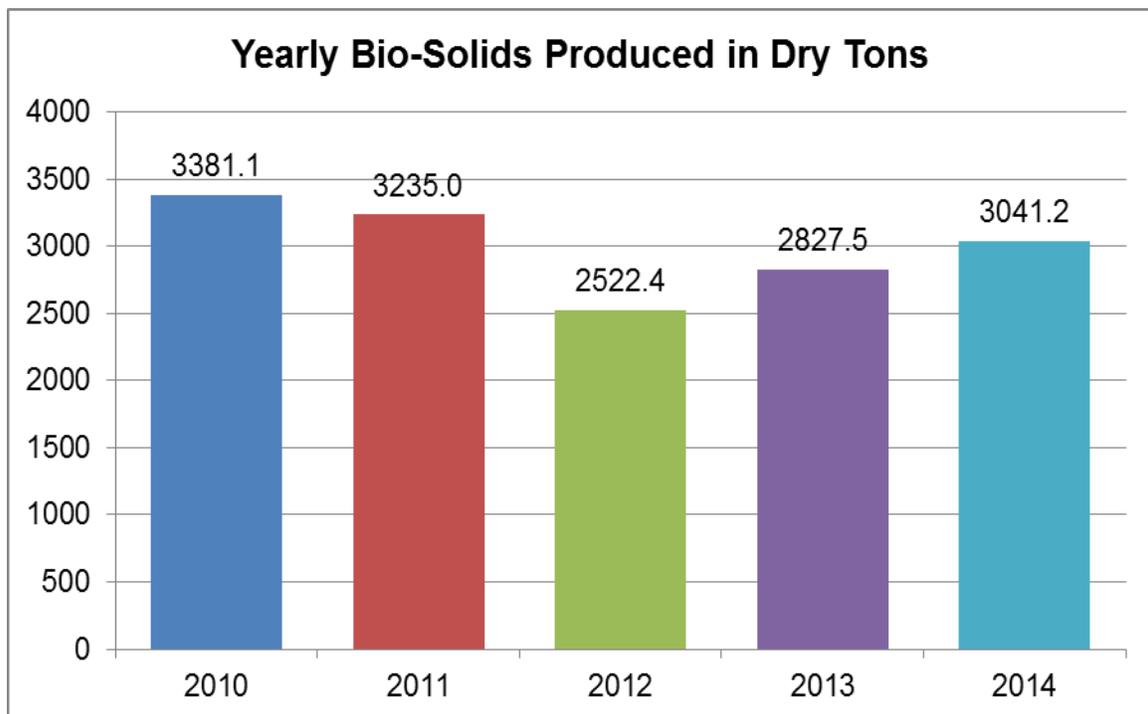
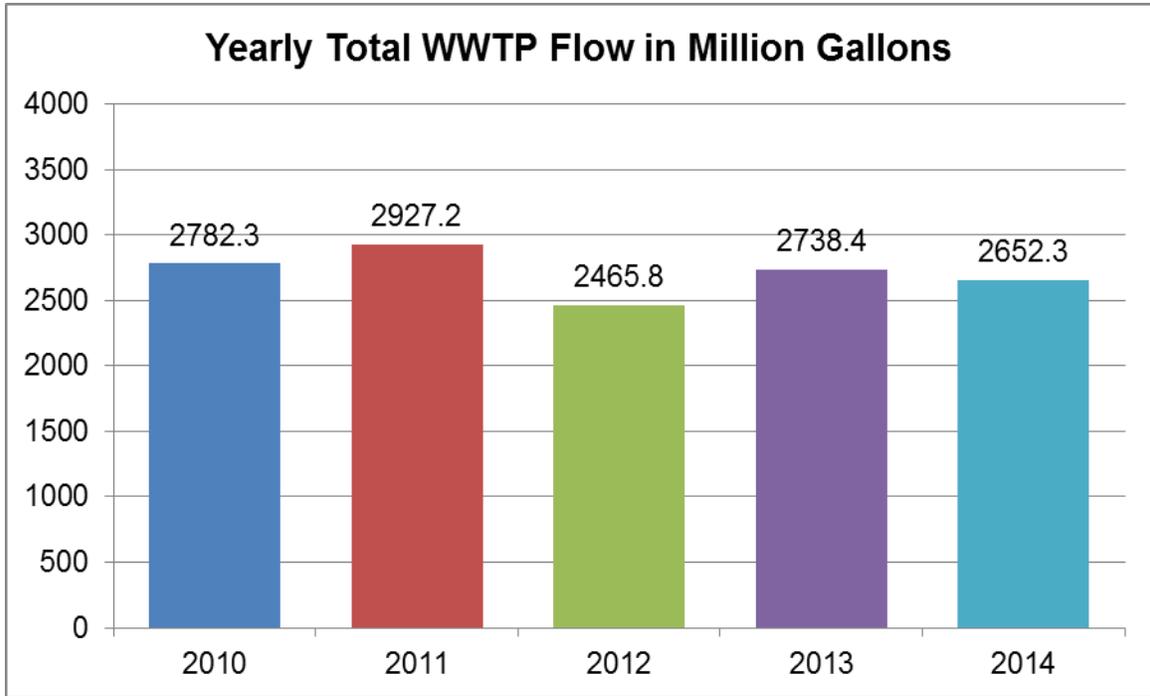
- Originally constructed in 1984
- Capacity of 11.25 million gallons per day
- Class A bio-solids dewatering and handling facility
- Discharge point is in the Cuivre River Slough just off the Mississippi River; just NW of where Peruque Creek discharges into the Slough

## **2014 Wastewater Statistics**

- Wastewater Treated – 2,652,330,000
- Average Daily Flow – 7.26 mgd
- Peak Flow – 17.1 mgd (9/1/14)
- Average CBOD – 6.0 mg/L (cannot exceed 25 mg/L)
- Average TSS – 12.0 mg/L (cannot exceed 30 mg/L)
- Routine line cleaning performed – 203,405 feet
- Rootsaw footage – 38,086 feet
- CCTV inspection footage – 36,490 feet
- Seams grouted – 524 seams
- Electroscan footage – 3,762 feet
- Pole Camera Footage – 170,699 feet
- Total blockage call outs – 56
- Total number of actual blockages – 18
- Line Locates – 6,426
- 15,788 sewer customers



## Wastewater Historical Data





## **Sewer Lateral Insurance Program**

- Funded by property owners through a \$5 annual fee; that is paid along with property taxes.
- Maximum reimbursement of \$7,500.00 per household.

<b>Year</b>	<b>Repairs</b>
2009	11
2010	31
2011	26
2012	21
2013	36
2014	42

## **2014 Water/Wastewater Division Training Highlights**

- ICMA Webinar: Preparedness Tools & Resources for Drinking Water & Wastewater
- cl2 safety meeting
- Prevailing wage seminar
- Annual American Water Works Association (AWWA) / Missouri Water Environment Association Annual (MWEA) conference Lake of the Ozarks, Missouri
- MWEA Fall Technical Program Columbia, Mo.
- MWWC quarterly program St. Peters, Mo.
- MWWC quarterly program Columbia, Mo.
- Avanti Grouting and Cues Camera Repair School
- MDNR Water Certification Training
- And numerous other seminars sponsored by various Water and Wastewater or organizations within the state.

## **Missouri Water Environment Association Committee Participation**

- Missouri Water Environment Association Executive Committee
- Missouri Water Environment Association Biosolids Committee
- Missouri Water Environment Association Collection System Committee



# **Street Division**



# Street Division

## Our Street Maintenance's Mission

We ensure the proper maintenance of the City's infrastructure through timely responses to Citizen Concerns with safety taking priority over other considerations and ensuring top notch Customer Service



### **Street Division Field Personnel**

Gary Fraley, Ryan Rockwell, Rob Kraatz, Craig Salonies, Jerry Stringer, Mike Branscum, Greg Eagan, Rich Sieve, Chuck Yates, Chris Walston, Nathan Edwards, Bryan Finnegan, Kevin Wiest, Gary Bayless, Casey Clark, Charlie Dees, Thomas Gibson, Andrew Gosney, Chris Hofmann, Kevin Kristensen, Korey Sheets, Jeff Spalding, Joe VanDenBosch, Jim Begley, Brad Cordsiemon, Bill Dreisewerd, Kyle Goodson, Brennan Hoelscher, Luke Keeven, Sean McCurren, Tim Smith, Jeff Swindle, Steve Vossen, Kevin Aslin, Randy Clark

### **Street Division Office Personnel**

Ken Hammell, Tony Steele, Ann Beers, Kelly Marcotte



## Street

The Street Maintenance Crews provides infrastructure maintenance to improvements within the City's right-of-way. The department currently maintains approximately 705 lane miles of streets and boulevards worth over \$200 million dollars.

With safety and emergencies taking priority over all other operations, the Street Maintenance Crews' time and resources go toward the removal and replacement of damaged road slabs, crack sealing, safety correction in sidewalks, street creep remediation and "A" joint installation. The Street Maintenance Crews are also tasked with pothole repairs, street sweeping, pavement markings, a wide variety of construction projects, supporting activities directed by other departments and snow and ice operations during winter months. The Street Maintenance Crews will also conduct infrastructure improvements as budget and time allows.

Roxbury Dr. Sidewalk



Before

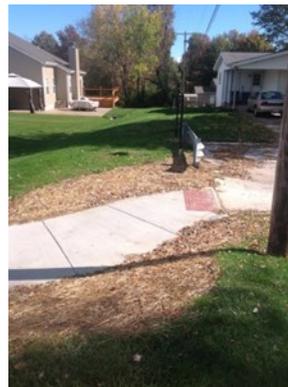


After

ADA Improvement on Duchesne Dr.



Before



After



## Stormwater

The Stormwater Maintenance Crews are responsible for the repair and maintenance of all pipes and structures within the City limits. The Stormwater Maintenance Crews maintain approximately 234 miles of pipe and 13,952 structures throughout the City. This maintenance includes repairing cracked or broken pipes and inlets, backfilling sinkholes that are caused by infrastructure deficiencies and leaks into the storm sewer system. The Stormwater Maintenance Crews also clean structures and sills on an as needed basis as well as inspecting and cleaning pipe when needed. These crews are also responsible in ensuring the thirty-five box culverts that are maintained have no obstructions. The Stormwater Maintenance Crews respond to citizens' concerns which make up 95% of the open work orders. The other 5% of the work orders come from internal employees or through observation while on other requests for work.

The Stormwater Maintenance Crews consist of five full time positions. There is one Stormwater Maintenance Supervisor, one Stormwater Maintenance Crew Leader, and three Stormwater Maintenance Workers. The Maintenance Crews received 393 work order requests in 2014. Of the 393 received the crews were able to complete 278. The remaining 115 have been carried over to 2015. The crews inspected 20,246 feet of stormwater pipe.





## Sign Maintenance

The Sign Maintenance Crew is responsible for upkeep and maintenance of the City's street signs. The City maintains over 7,200 street id signs, stop signs, yield signs, no parking signs, traffic calming devices and other miscellaneous signs on the City's arterials, collectors and within the subdivisions. This maintenance includes repairs, replacements and new installations. The Sign Maintenance crew responds to citizens' concerns which make up approximately 85% of the work orders throughout the year. The other 15% of the work orders come from internal employees and through observation while on other requests for work.

The Sign Maintenance Crew consists of one full time Traffic Maintenance Technician. The Traffic Maintenance Technician for signs works hand in hand with the Traffic Signal Technician that maintains the City's traffic signals with installing traffic calming devices (reflectors, special signs) when warranted. The Signs Maintenance Crew received 301 work order requests in 2014, all of which completed in the same year.



The Signs Maintenance Crew installed solar paneled flashing stop signs at N. Cool Springs Rd. and Tom Ginnever Ave.



## 2014 Street Division Accomplishments

In addition to the daily tasks and duties, the Street Division worked on several projects in 2014 which included, but was not limited to the following highlights:

### Public Works Fair

As part of National Public Works Week, the Street Division hosted the City's Annual Public Works Fair on Wednesday, May 21st, at the T.R. Hughes Ballpark parking lot at Tom Ginnever Avenue and T.R. Hughes Boulevard. This year we had over 800 visitors at the Fair.

Admission to the fair is free and both parents and teachers are encouraged to bring youngsters to the event which highlights the services provided by all the O'Fallon's Public Works Divisions.

Activities of this Fair include an opportunity for children and adults to see the City's big trucks and heavy equipment "up close and personal" and to meet the personnel who run this equipment. Also included in the activities are free rides on O'Fallon's Kreckel Line Train, giveaways, games, exhibits and a free lunch of hotdogs, chips and water.





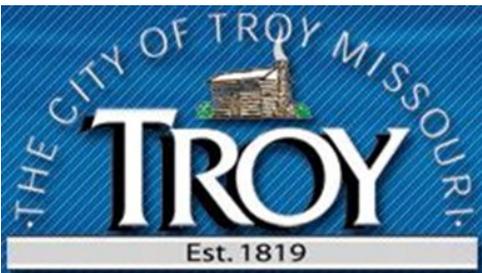
## 2014 Street Division Accomplishments (Cont.)

### Salt Coop 2013-2014

In 2014, with such a high demand for salt we discovered that purchasing as a large group was not in the best interest of all parties involved in the Coop. Each member was more successful purchasing salt on their own. In fact, most vendors preferred to only dealing with one agency at a time due to the high demand for salt. We did bid salt out for the Coop in late 2014 and most of the members purchased through that bid.



Elsberry  
Special  
Road  
District



FORT ZUMWALT  
R-II SCHOOL DISTRICT





## 2014 Street Division Accomplishments (Cont.)

### New Full Time Personnel

Hired three (3) Full time employees

Jim Begley



Kyle Goodson



Jeff Swindle



### Facility Improvements

Emergency Command Center at  
1001 Public Works Dr.



Renovated Break Room at 1001  
Public Works Dr.



### Infrastructure Maintenance Improvements

The Street Division CIP crews and work order crews replaced 1,308 street slabs throughout the City





## 2014 Street Division Accomplishments (Cont.)

### Infrastructure Maintenance Improvements Cont'd

Not only does the Street Division install/replace signs, respond to stormwater maintenance issues and repair/replace sidewalks, curbs and streets. The Street Division also acts as First Responders to weather emergencies, other than snow and ice that can occur any time of year.



206 Birmingham Dr., Westridge, Plat 3- remove brush and install rip-rap to mitigate erosion



Before

After

### New Full Time Personnel

Hired of one (1) full time Storm Water Maintenance Worker

Randy Clark





## 2014 Street Division Accomplishments (Cont.)

### New Equipment Purchased- Street

F550 Flat Bed with Wide-Out Plow



F550 Flat Bed



Walk-Behind Striper



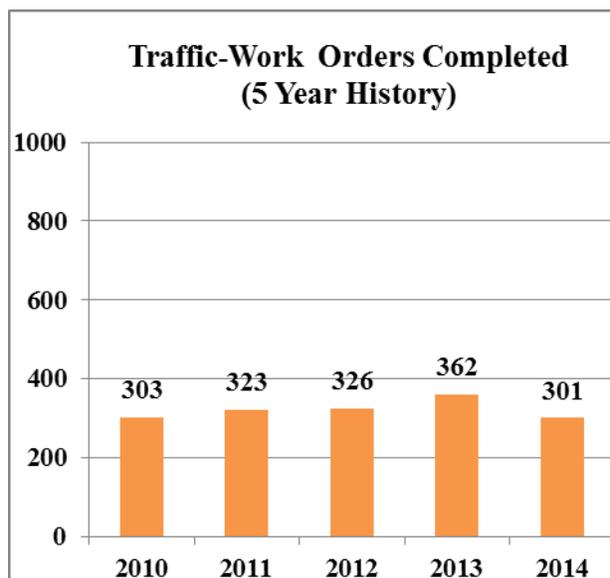
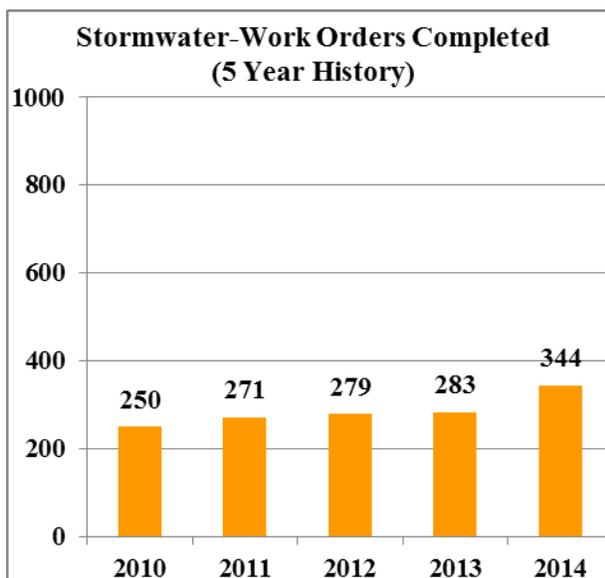
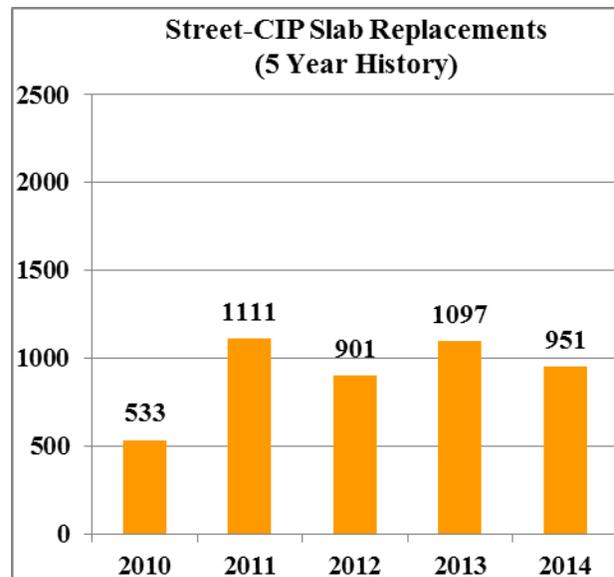
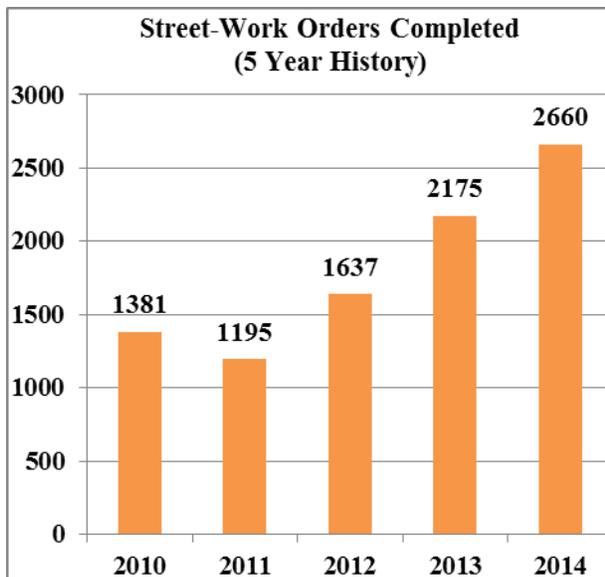
Saw Trailer





## 2014 Street Division Accomplishments (Cont.)

1. **Street Slabs**-The Street Maintenance Crews has completed 951 slabs from the CIP list and 357 slabs from work orders. This exceeds the approximate 800 slabs that were contracted out for a million dollars and the 1,200 total slabs to be completed in house.
2. **Sidewalks**- 286 sidewalk slabs
3. **Curbs**- 950 linear feet
4. **Street Creeps**- 285
5. **Sweeper**- swept 7,588 miles
6. **Striper**- striped 75 linear lane miles, 365 crosswalks, 620 arrows, 249 stop blocks and 12 islands.
7. **Sign Maintenance**- completed 301 work orders
8. **Stormwater Maintenance**- completed 344 work orders





## 2014 Street Division Accomplishments (Cont.)

On Friday, November 7th, the Street Division conducted the annual snow and ice control training beginning at 8:00 a.m. All scheduled Snow Fighters reported to T.R. Hughes Parking lot for hands-on training and to the Street Division Conference Room for training on policy and procedures.

The purpose of this annual training is to present the City's snow and ice control policy, the new route maps, safe plowing procedures, and the proper procedure for filling out paperwork. The hands-on training at the parking lot includes an obstacle course, backhoe training and equipment troubleshooting. This gives the Snowfighters the opportunity to become familiar with equipment and the routes that they are scheduled to plow.

After the training concludes, everyone headed to the 401 S Cool Springs Facility where lunch was served and we held the Annual Snowfighters Chili Cook-off at 12:00 noon. All Snowfighters are invited to participate in the cook-off. The judges for this year's cook-off were Dave Nolan, Bill Fath and Al Callier all Commissioners for the City's Public Works Commission. This year's winners were: 1st place– Mike Branscum, Street Maintenance Crew Leader, 2nd place– Kevin Wiest, Senior Street Maintenance Worker, 3rd place– Kevin Aslin, Stormwater Maintenance Worker and Hottest Chili– Chris Walston, Storm Water Maintenance Crew Leader





## 2014 Street Division Accomplishments (Cont.)

### Snow and Ice Control Operations 2014

During 2013-2014, we had 12 snow events that required a response from the City. The City utilizes employees and vehicles from several different departments throughout the City: Parks, Water/Sewer, Environmental Services, Building, Engineering, Fleet, Facility Maintenance, and the Street Division. We had 7,776 snow plow hours that occurred outside of normal business hours.

Snow Season (Nov-April)	Snow Events	OT/ Comp Hours (hours outside normal business hours)	Salt Delivered	Cost Per Ton with Delivery
2013-2014	12	7,776	2,968/3,000	\$53.66/\$120.00
2012-2013	11	2,215	1,353	\$57.17
2011-2012	6	853	4,196	\$56.85
2010-2011	11	2,495.50	3,920	\$49.50



The City receiving salt and beet juice



# **Engineering Division**



# ENGINEERING

## Mission Statement

As a part of Public Works, the Engineering Division's goal is to provide the City with professional engineering services that ensure long-range comprehensive planning, sound project design, quality construction management and maintenance of the City's infrastructure. To that end, this division offers technical engineering support to a variety of City departments, confirms sound engineering principles are applied, certifies ordinance requirements are met, prepares and executes Capital Improvement Projects and issues permits to the public.

The Groups within the Engineering Division include the Construction Inspection Group, Plan Review Group, Project Management Group and Traffic Group. These groups each play a critical role to ensure that City projects, as well as commercial and residential developments, are designed and constructed properly and safely. They also provide assistance with snow removal during winter weather events and remain ready to provide emergency response in the event of a natural disaster.



(Back Row) Tom Hicks, Jay Herigodt, Karl Ebert, Chris Horvath, Jeff Schuepfer,  
Aubrey Hawley, Dan Buesse, Jim Feldmann, Chris Clercx, Ron Morris, Bob Copeland  
(Front Row) Wade Montgomery, Amy Harrelson, Michele Gremminger, Jeannie Greenlee,  
Mark Barry, John Dupilka (Not pictured: Bobby Nash & TJ Kelley)



## **Project Management Personnel**

Wade Montgomery - **City Engineer**

Aubrey Hawley - **Administrative Assistant**

Dan Buesse - **Sr. Project Manager**

Jeff Schuepfer - **Sr. Project Manager**

Chris Horvath – **W/S Project Manager**

Chris Clercx - **Project Manager**

Ron Morris - **Sr. Construction Inspector**

Michele Gremminger – **Storm Water Management Coordinator**

Jim Feldmann – **Sr. Traffic Technician**



*(Left to right)* Wade Montgomery, Michele Gremminger, Chris Horvath, Jeff Schuepfer, Aubrey Hawley, Dan Buesse, Jim Feldmann, Chris Clercx, Ron Morris



## Construction Inspection Personnel

Jay Herigodt - Assistant City Engineer

Amy Harrelson – PT Administrative Assistant

Karl Ebert - Construction Inspection Supervisor

Mark Barry - Construction Inspector

Tom Hicks - Construction Inspector

TJ Kelley - Construction Inspector

Bobby Nash - Construction Inspector

John Dupilka – Construction Inspector



## Plan Review Personnel

Jay Herigodt – Assistant City Engineer

Julie Taylor - Administrative Assistant

Jeannie Greenlee – Commercial Plan Reviewer

Bob Copeland – Residential Plan Reviewer

*(Left to right)* Tom Hicks, Karl Ebert, Amy Harrelson, Mark Barry,

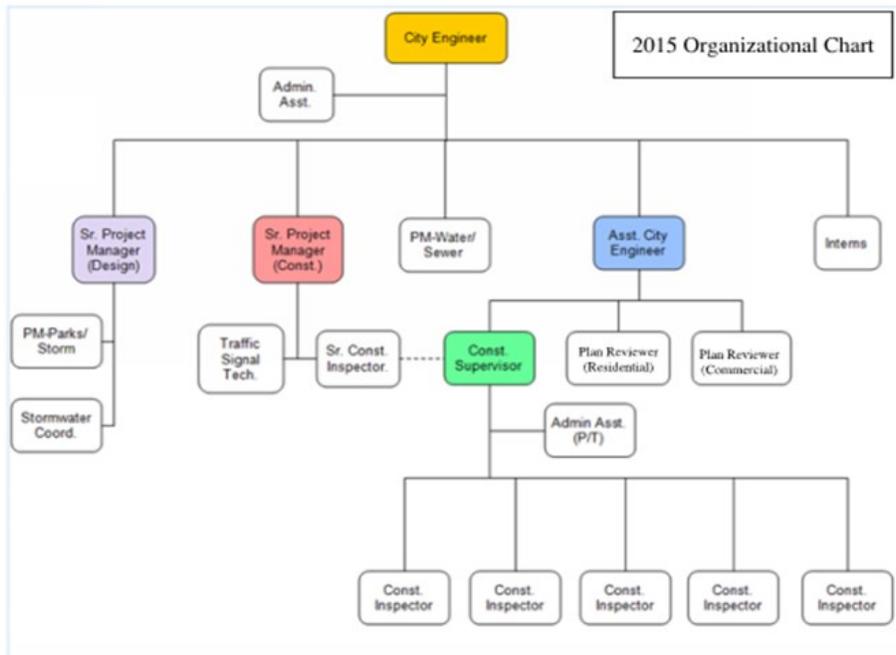
John Dupilka *(Not pictured: Bobby Nash & TJ Kelley)*



*(Left to right)* Jay Herigodt, Jeannie Greenlee, Julie Taylor, Bob Copeland



## Engineering Division Organization Chart



### **Project Management Duties and Responsibilities**

Project Management is a carefully planned and organized effort to accomplish a specific task or project. Tasks such as constructing a new roadway or implementing a new process into an existing system belong under Project Management. These projects are provided to improve the quality of life of the community. Such projects may include reducing the time it takes to drive through town, providing smoother and safer roadways and improving the City's infrastructure. Project Management also aggressively pursues outside funding and grants to accomplish more projects using minimal City funds.

One of Project Management's responsibilities is developing a project plan. This entails defining project goals and objectives, specifying tasks, identifying needed resources and associating budgets and timelines for completion. Once the project plan is developed, Project Management must implement the project plan. This includes maintaining careful controls to stay on the "critical path", or ensuring the project is being managed according to plan. Project Management usually follows major phases. These include a feasibility study, project planning and design, right-of-way acquisition, implementation and construction, evaluation and support/maintenance. A list of projects is maintained on the City's website at <http://www.ofallon.mo.us/city-projects>.

Although the Project Management group currently has four Project Managers and one Construction Inspector, the department is divided into three distinctive parts. One part is focused on project design, another part manages project construction and a third deals with water/sewer projects. In 2014, Project Management hired three college interns to assist with ADA inspections. They also shadowed Construction Inspection on various inspections.



## **Traffic**

### **Duties and Responsibilities**

The Traffic group handles all the upkeep and maintenance of traffic signs, signals, and lights. Each year, the City replaces or installs signs and performs repairs to traffic signals. The Traffic Division currently maintains 34 traffic signals throughout the City and numerous street lights. This division receives requests and inquiries from residents for traffic and safety concerns, and performs traffic calming studies all year long. This department works hand in hand with other departments to ensure the safety and well-being of our residents.

## **Storm Water Management**

### **Duties and Responsibilities**

The Storm Water Management Coordinator is responsible for the City's National Pollutant Discharge Elimination Permit (NPDES) regulations and Storm Water Management Plan as required by the Environmental Protection Agency (EPA) and Missouri Department of Natural Resources (MDNR). Part of the requirements entail performing public outreach and education sessions, public participation events, construction site runoff compliance, post-construction runoff compliance, illicit discharge detection/elimination and a municipal pollution prevention and good housekeeping program. In addition to the permit and program duties, the coordinator addresses storm water concerns from residents as well as drafts and implements policy/procedures to protect storm water quality throughout the City. Storm Water Project Management has completed 23 CIP projects at a total cost of \$4.48 million, which have benefited 128 properties.

## **Construction Inspection**

### **Duties and Responsibilities**

The Construction Inspection group performs all field inspections for residential and commercial sites, grading sites and as-built field checks. These inspections include roadway pavement, storm sewers, sanitary sewers, water mains, site grading, various common ground amenities in subdivisions, commercial parking areas, commercial site development, various utility and excavation permits. The projects inspected this year varied from schools to senior living centers, new restaurants, retail and office space to multi-family residential developments and medical facilities.



The responsibility of the inspector on these sites is to ensure the structural integrity of the infrastructure. This includes inspection of ongoing work to ensure the use of proper materials, proper construction procedures and proper testing and verification of material placement has been performed. Inspectors must verify pressure testing of City water/sewer mains, bacteriological tests on City water mains, compaction testing on trenching and earthwork and testing of paving materials.

The Construction Inspectors also work with the City's Project Managers on the City's Capital Improvement Projects. On these sites additional responsibilities consist of keeping daily records per MoDOT requirements and tracking project quantities for determining project costs and payments.

## **Plan Review**

### **Duties and Responsibilities**

The Plan Review group's two plan reviewers are responsible for the review of all residential and commercial site plans, grading plans, as-built plans, record plats, driveway applications and flood plan review. They provide information about City principles and codes to the Public Works Department and the public. They administer the Floodplain Management Program, manage the Sewer Lateral Program applications and review all utility and excavation permits within the City. Plan Review also assists residents, businesses and other departments with issues dealing with grading and specific code issues.

## **Project Management**

### **2014 Preeminent Projects**

In 2014, the Project Management Department managed several designs, construction projects and completed numerous "in-house" designs and studies. Some of the highlights are listed below:

#### **Waterford & Highway K**

The purpose of this project is to widen Waterford Crossing Drive at Highway K to create dual left turn lanes and a shared thru/right lane. The project also includes pedestrian improvements at the intersection. The project will be funded through Federal CMAQ funds at an 80/20 split with the City. This project was designed in 2014.



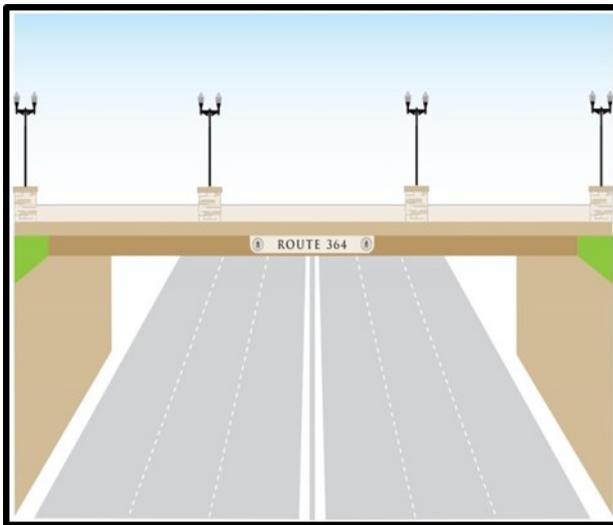
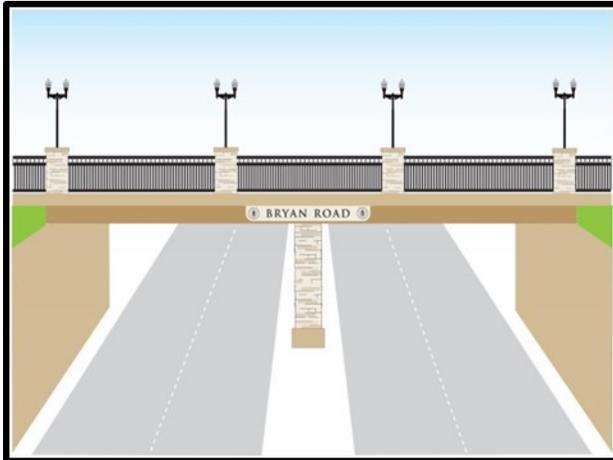


This photo shows the intersection at Waterford Crossing, where school bus traffic extends to the middle school

### **Route 364 Phase III Bridge Enhancements**

This project includes decorative bridge and roadway enhancements on the Bryan Rd and Route K bridges being constructed with the Route 364 project. Staff worked with MODOT representatives and the design-build contractor, PageCon, to determine what enhancements would be built with the Bryan Rd and Rte K bridge structures. The requested enhancements included items such as: decorative ashlar stone-patterned concrete columns with multi-colored staining, decorative street lights, decorative fencing, City logos cast into the concrete abutment MSE walls, a large scale decorative street name sign, powder coated black traffic signal and lighting equipment, black sign backs and sign poles, and solid color-stained concrete for many aspects of the concrete structures.





## Grant Funds Obtained

Each year, Federal, State, and County funding opportunities are available to help pay for City projects at 80% reimbursement. In 2014, the City applied for seven EWG (East-West Gateway) at \$6.4M, three CRB (County Road Board) at \$6.3M and two TAP (Transportation Alternative Program) projects for \$2.0M, totaling \$14.7 million sought. The table below highlights the awards received in 2014.

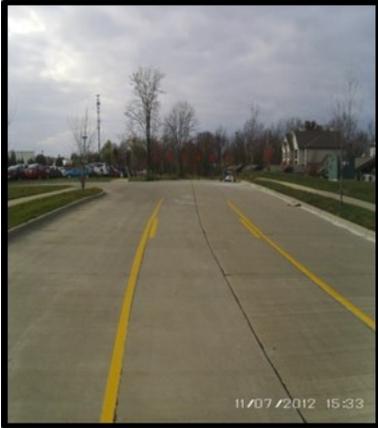
Project Name	Fund Source	Amount of Funds
Lake St. Louis Blvd Phase 3	St. Charles County	\$2,160,000
Hwy K	TAP/Federal	\$1,031,851
Total Awarded:		<b>\$3.2 M</b>



## Crusher Drive Extension

The Crusher Drive Extension Project extended Crusher Drive, from its terminus near Southern-side Apartments, to Corporate Centre Drive. The project continued the three lane section throughout the extension of the road. The project also included drainage improvements, curb and gutter and pedestrian improvements, which are made up of sidewalks on both sides of the road. Construction began at the end of 2013 and it was completed during the summer of 2014.

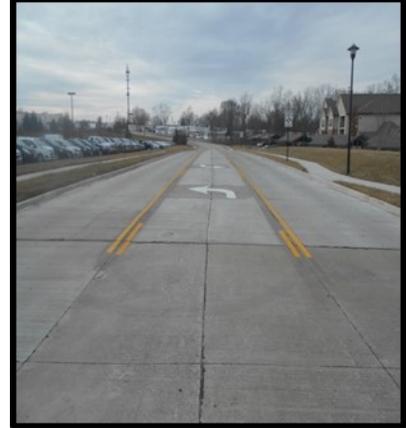
This project had \$1.1M in funding from the County Road Board and \$198,000 from the City.



Before



During



After

## Elaine Dr.

The Elaine Drive project focuses on widening the road from West Terra to the railroad tracks, and constructing a sidewalk on one side of the road. Bax Engineering was hired to perform design for this project in 2011. This project also includes drainage, new signage, and new pavement for the roadway where pavement conditions have not been improved for quite some time. Right of way acquisition was completed in 2013. Staff is currently working with the railroad to get necessary permits. The project was bid in 2014. Construction started September 2014. The project should be completed by September of 2015. The total cost of this project is approximately \$1.6 million, of which 90% is being funded by the County Road Board.



Before







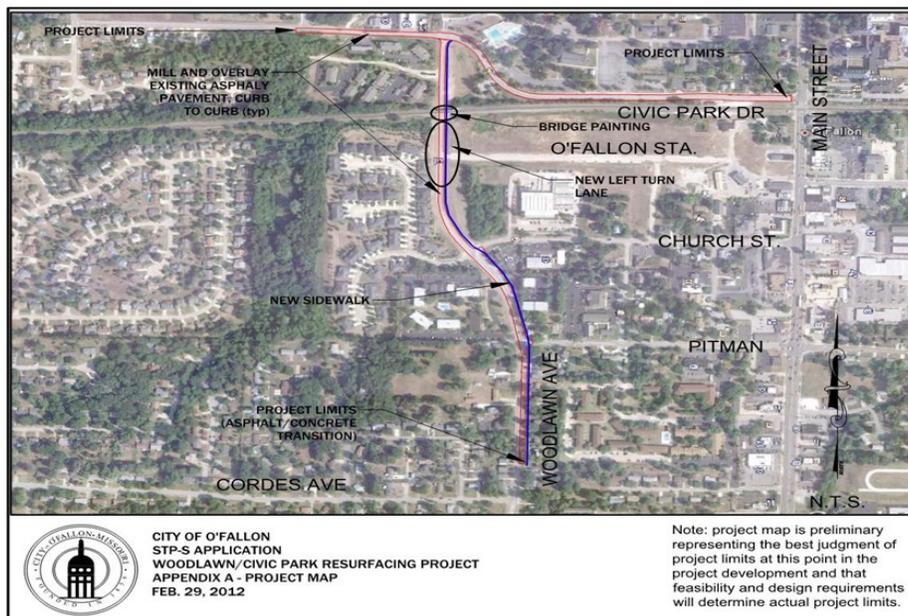
During Const.

### Woodlawn/Civic Park Improvements

The purpose of this project is to improve the Woodlawn roadway from Civic Park to Cordes and Civic Park Drive from Main Street to Imperial Drive. The work performed will include:

- Resurfacing of the roadway and replacement of deteriorated asphalt pavement
- Addition of a new sidewalk along the east side of Woodlawn
- Improvement of curb ramp at existing sidewalk locations throughout the entire project
- Painting of the railroad overpass bridge over Woodlawn
- Construction of a new turn lane into O'Fallon Station

Design was completed on this project and railroad agreements are being processed. Construction is expected to begin in 2015. The total cost of this project is approximately \$800,000 of which 80% is federally funded.





## Laura Hill Slab Replacement

This project included the removal and replacement of bad asphalt/damaged concrete, and the installation of sidewalks from Highway K to the Fire Station. This project was funded with 80% County Road Board funds and 20% City funds.



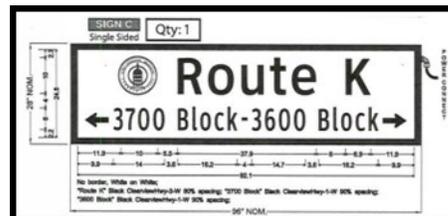
## 2014 CLIP Projects LED Signs

This project aided vehicular traffic with the addition of block numbers, LED lights and larger lettering on aesthetic signage. Construction was started in November of 2014 and completed in 2014. Total cost of the project was approximately \$71,000. LED signs included:

- O'Fallon Road



- Route K

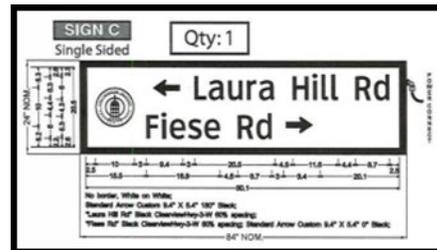




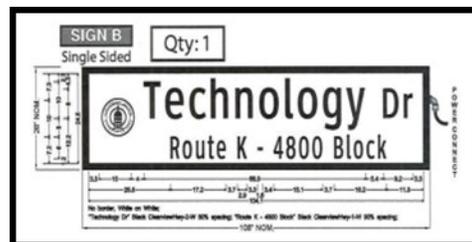
- Laura Hill Road & Feise Road



- Route N



- Technology Drive





### 2013 CLIP Facility Signs

This project included the installation of monument signs at various City facilities. These signs followed the CLIP standards and consistent appearance similar to previous monument projects located along I-64. The City facilities that have these monuments installed are:

- Water Treatment Facility on Firma Rd.



- Streets Maintenance Facility on Public Works Dr.







- Paul A. Westhoff Park at T.R. Hughes Blvd

## Lining EQ Basin #2

This project lined the equalization basin at the Wastewater Treatment Plant with a high density polyethylene liner. Additional appurtenances were also installed to aid in cleaning the basin. Construction of this project was completed in early fall, 2014.





## 2 MG Storage Tank

This project adds a two million gallon storage tank to the Water Treatment Plant. This will supply additional storage during plant shutdowns or during high demand and will add a new high service pump with a variable frequency drive and give the WTP the ability to connect a portable generator. Construction is underway and is expected to be completed in the spring of 2015.

## St. Gemma Water Main Extension

This project will improve distribution by connecting two water main districts within the City by a 12” water main. The water main will run from the end of St. Gemma Drive, under Pe-ruque Creek, and connect at the end of Foggy Meadow Drive. Construction is underway and is anticipated to be completed in the spring of 2015.

## Preliminary Treatment Facility

An aging bar screen with maintenance issues was replaced by a new bar screen at the Wastewater Treatment Plant. Additionally, a grinder was added to the East Lift Station to remove more debris from the sanitary flow and reduce the cleaning of the manual bar screen. This project was completed in late 2014.



Bar Screen



Grinder



## **2014 Blower Replacement**

This project saves energy and money by replacing a 20 year old centrifugal blower with a new turbo blower at the Wastewater Treatment Plant. This blower, with speeds of up to 44,000 rpm, feeds the aeration basins with the correct amount of air based off dissolved oxygen levels in the basins. The project was completed in early 2015.



## **WTP Filters 2, 3 & 4**

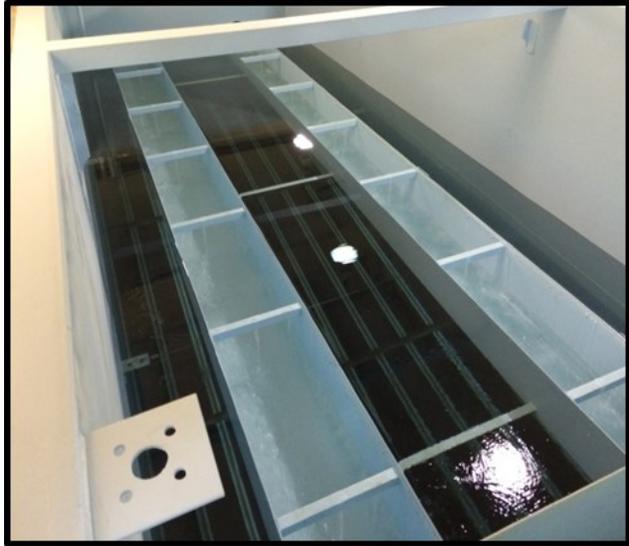
This project includes the repairs and rehabilitation of three filters at the Water Treatment Plant. Structural repairs to these filters will result in an increased life span. Replacement of the underdrains, media and aeration system will increase the filter run times, which will lead to increased filter efficiency. This project is under construction with the anticipated completion in late spring, 2015.



### WTP Filters 2, 3 & 4 cont'd



Before



After

### Main Street Water Main Survey

The purpose of this project was to survey the water main on Main Street in front of City Hall and estimate the cost of relocation alternatives. Relocation of the aging water main from under Main Street to a grass easement results in fewer water main breaks and easier maintenance of the new water main. This project was completed in early 2015.





## Annual Projects

Funds were also made available in 2014 to provide several maintenance projects to improve and preserve the City's pavement. In-house plans were prepared for the 2014 Concrete Program, and 2014 Crack Seal Program. These projects were bid and completed in 2014. In total, 21,270 square yards of concrete pavement were replaced and 50.88 centerline miles of roadways were sealed in 2014.



Before



After

## Post Meadows Stream Bank Stabilization Project

This project made improvements to the creek in the in the Post Meadows Subdivision (behind Post Meadows Drive and Post Valley Drive). These included stabilization methods such as rock placement, re-grading slopes, installation of native plantings and other biological components. Construction started in 2014.





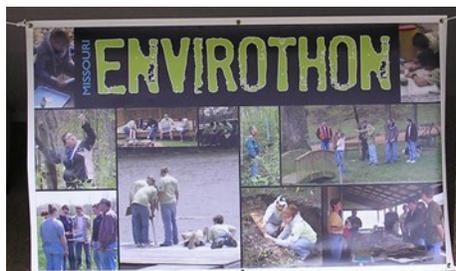
## Fawn Oaks Drive Storm Water Improvements Project

To address the deteriorating existing infrastructure and reduce the potential flooding of the roadway, the improvements included installation of large diameter piping, realignment of an existing creek pipe (72") to remove creek flow from the detention basin outfall piping, upgrading the size of pipe from the street to the basin (48" to 60") and the installation of a rock-lined stilling basin in the adjacent creek.



## Public Outreach and Education Sessions

In 2014, 11 Public Outreach and storm water education sessions were conducted with a total of 1,121 participants. These events included presentations and storm water activities at local schools, participation in a Rain Garden Symposium, the City's Public Works Day and assisting with the Environ-thon Competition, which is sponsored by the Missouri Department of Conservation.





## Public Participation and Involvement Events

Three Public Participation and Involvement events were held this year. “Clean Stream”, “Earth Day” and “Make a Difference Day” yielded 358 volunteers and 1.44 tons of trash removed from our local streams and creeks. In addition to cleaning creeks, volunteers marked storm drains to bring awareness to storm water pollution prevention. Nine volunteers applied 190 storm drain markers.



## Project Management

### 2014 Additional Accomplishments

The Project Management group was busy in 2014 managing several design and construction projects as well as completing numerous “in-house” designs and studies. Below is a list of some of the projects that occurred in 2014

#### Road Projects

- Annual Concrete Program – Completed construction
- Annual Crack Seal – Completed construction
- Crusher Drive Extension – Completed construction
- Elaine Drive – Design was completed and Construction on storm sewer and water main work has started.
- Woodlawn/Civic Park – Design and right-of-way acquisition was completed.
- Laura Hill Slab Project – Completed construction
- Page Enhancements – Construction 95% complete
- Bryan Road Slab Replacement – Design completed
- Waterford Crossing – ROW has begun
- Senior Center ADA Improvements – Design completed



### **Storm Water Projects**

- Post Meadows Creek Bank Stabilization – Design was completed and construction has begun
- Fawn Oaks Storm Water Improvements Project – Design was completed and construction has begun
- The Community Cost Share Rock Assistance Program Project for Avondale Spring Court was completed
- The Community Cost Share 50/50 Reimbursement Program Creek Bank Stabilization for 6 Stansbury Way was completed.

### **Parks/Signs Projects**

- 2014 CLIP Projects - LED Signs – Completed
- 2014 Park CLIP Signs Project – In-house design completed and advertised
- 2013 City Facility CLIP Signs Project – Completed
- Dames Archeological Study – Completed
- RSC Roof Repair – Completed
- Ozzie Smith Plaza and Concession Stand – Design completed

The City's website contains a list of current City projects. Projects are updated approximately every two weeks. To view the list of projects or traffic related items, log on to: <http://www.ofallon.mo.us/city-projects> or <http://www.ofallon.mo.us/traffic-division>

## **Construction Inspection**

Construction Inspection has completed over 100 Commercial Site Inspections and nearly 800 Escrow Site Inspection 62 commercial inspections for items where construction has been completed, 351 excavation inspections and over 70 individual Lot escrows. The department is also inspecting those projects that are ongoing.

Construction Inspection staff are onsite approximately 60% of the time as construction is taking place. The manpower goal is to be there approximately 75% of the time.





Total # of Escrow Inspections	327
Erosion Control Insp	1
Excavation Permit Insp	180
Lot Inspections	341
Total # of Commercial Inspections	47



Inspection	Hours
Residential Inspection	2156
Commercial Inspection	1180
Escrow	1615
Commercial Finals	105
Project Management	3743
Supervisory	448
Utility	479



## Plan Review

The Plan Review Staff continues to average a 5-7 day project review time and strives to provide excellent customer service to all residents, engineers, developers and contractors.



	<b>Reviewed</b>	<b>Approved</b>
Subdivision Plan - Res. or Com.	46	8
Site Plan - Com, Ind, etc	91	19
Grading Plan	10	2
Record Plat	70	16
As-Built Plan	32	11
Condo/Multi Plat	8	2
Flood Plain	1	0
In-house Plat	0	0
Excavation Permit	188	187
Driveway Permit	78	78
Grading Letters (bldg)	0	0
Lot Escrows	139	108
Plot Plan	44	0
<b>Total</b>	<b>707</b>	<b>431</b>



# Traffic

## **Traffic Signals, Signs, and Street Lights**

The Traffic Technician maintains, monitors and repairs all of the City-owned traffic signals and streetlights. This helps to keep the traffic flowing safely throughout the City. This employee is responsible for making approximately 200 repairs, annually, to traffic signals. He is also in charge of conducting Stop Sign/No Parking warrants, traffic calming, speed studies and traffic counts. Often the Traffic Technician locates underground utilities, works as Project Manager on new signals or streetlight installations, responds to citizen concerns and to after-hour emergencies. He partners with Ameren and MoDOT on a regular basis. He currently maintains traffic signals at 34 intersections throughout the City, maintains over 100 streetlights and will continue to maintain additional lights and signals as they are installed in the City.

## **Traffic Calming**

In 2014, staff received numerous Traffic Calming requests. Staff performed 32 stop sign/speed volume studies in accordance with the approved traffic calming policy.

### 2014 Completed Traffic Calming Studies

- Briarchase
- Legacy Pointe
- Molloy Drive
- Collier Drive
- Sommers Road
- Sonderen Street
- St. Gemma
- Tee Kay Drive
- Timber Meadows Drive
- Whispering Windsong
- Cool Springs Industrial



# **Environmental Services Division**



# ENVIRONMENTAL SERVICES DIVISION

## Mission Statement

The primary mission of the Environmental Services Division is to be the “highest quality” provider of waste collection, environmentally conscious disposal and recycling services. We will complete our mission by *always* being professional, efficient, safe and honest while providing “Superior Customer Service” that is second to none! “Superior Customer Service” is defined as *exceeding* our residents expectations by listening to their needs and responding to them!

Jim Wenzara – **Environmental Services Superintendent**

Kurt Hake – **Operations Supervisor**

Donna Reiser – **Customer Service Representative**

Terrie Seymour – **Customer Service Representative**

Jackie Rose – **Customer Service Representative**

Jim Schuster – **Maintenance Technician**



(Left to right) Jackie Rose, Donna Reiser, Terrie Seymour



**Service Route Operators**

John Cook , John Osewalt, Dan Iler, Glenn Schoppenhorst, Ryan Morris, Dennis Lowery, Mike Wheelahan, Kevin Thomas, Dave Parker, Steve Doerhoff, Mike Globosky, Dimitrous Jewell, Mike Eaton, Druamond Suggs, Shawn Korte, Todd Greer, Dontrius Mitchell, Andrew Jackson, Dave Moloney, Don Cash





## **ENVIRONMENTAL SERVICES DIVISION**

### Duties and Responsibilities

#### Primary and Secondary Services

- In 2014, the ES Division completed over three million service pick-ups with trash collection and recycle accounting for approximately 1,300,000 each and additional 410,000 yard waste pick-ups.
- The Waste Transfer Station operation takes in about 7,790 tons of trash from third party haulers on a monthly basis on top of the 1,819 tons of trash and 578 tons of recycling generated by our own City's residents.

#### General Description of each Service

- Trash collection – There are six routes that run on Tuesday, Wednesday, Thursday and Friday. Each driver works four ten-hour days. Each home is serviced one time per week.
- Our trucks are automated trucks that allow the driver to do his work without getting out of the vehicle. All residents are issued City owned trash carts, either 96 or 64 gallon. Some residents choose to get additional cart at an extra charge. Residents are asked to place all trash in the carts with the lids closed as any material not inside the City-provided cart will not be serviced. The efficiencies created by this make O'Fallon's Service the lowest cost in the area.
- Bulk service is available at \$20 per hopper. We also offer residents an opportunity to bring their bulk trash to our transfer station, on a bi-monthly basis, at no charge. There are limits and rules that apply.
- Recycle collection – There are six routes that run Tuesday through Friday. Each driver works four ten hour days. Each home is serviced one time per week. Although all residents are offered this service at no additional charge with their trash service, many still do not participate. Our trucks are automated trucks that allow the driver to do his work without getting out of the vehicle. All resident are issued City owned 64 or 96 gallon recycle carts. The city offers Single Stream Recycling. This makes things very easy for the residents as they don't have to sort their recyclables.



- Yard Waste collection – There are two routes that run Tuesday through Friday from mid-March through mid-December. (During peak times there are three routes that run daily). Each driver works four ten hour days. This service is run with rear-loading trucks with two drivers that alternate responsibilities throughout the day. Yard waste collection is an additional service which requires residents to sign up for at an additional charge. We currently have about 8,700+ active clients.
- Appliance pickup – Residents can call to schedule a pickup of an appliance at an additional charge. We currently sub this work out to an appliance recycler.
- City trash containers – The yard waste drivers service twenty-two rear loading containers throughout the City on Tuesdays and Fridays only. These containers are located in various locations such as all parks, the senior center, etc.
- Transfer Station operation – The transfer station is operated by FWCD, but still owned by the City of O’Fallon. The transfer station is open from 7 a.m. to 4 p.m. Monday through Friday.

All of the services offered are successful because of the committed employees that are in the Environmental Services Department. We don’t go home until the job is complete. Everyone helps one another if we are short a route or a route has been down. There is a strong commitment to teamwork here.







## **ENVIRONMENTAL SERVICES DIVISION**

### **2014 HIGHLIGHTS AND ACCOMPLISHMENTS**

- At \$11.48 month, our trash and recycle rate is the lowest rate in the area. Additionally, this rate has remained unchanged since the beginning of the program 10 years ago.
- Provided residents with an industrial size drop-off recycle container for large amounts of recyclable material. This container is located at the Waste Transfer Station and is accessible 24 hours a day, 7 days a week.
- Upgraded the software and the IPads that are located in each vehicle to provide the drivers with the most up to date information available to make their jobs more efficient.
- Hosted several Electronics Recycling Event where 243,000 pounds of material was dropped off to be recycled and keeping those items from ending up in a landfill.



- Benefitted from our negotiated contracted disposal rates with FWCD, the City of O’Fallon is currently paying \$23.29 per ton to not only dispose of our waste but that price also includes FWCD operating the transfer station, the scale house, loading and transporting the waste to the landfill. The average price per ton just to dispose of solid waste at an area landfill is \$40 to \$50 per ton and some are even higher.
- Currently we have a contract with Resource Management that nets the city a minimum of \$6.50 per ton for the material.
- Saved the City over \$300,000 per year since it began its contract with FWCD. Currently, with the increase in landfill fees, labor and fuel, the City saved at least \$750,000 per year over what we could do for ourselves. This lets us provide our residents with the lowest monthly service rates in the area and possibly the state.
- Purchased additional tools and equipment to make more internal repairs to our fleet saving the City over \$38,000 on vehicle repair costs to outside vendors and were able to come in under budget as well.
- Continued to see our recycling diversion rate increase for the 10th straight year!

## **2014 Year End Statistics**

Environmental Services Division collected:

- 43,652,000 pounds of trash
- 13,850,000 pounds of recyclable material in which we were paid \$92,524
- 7,470,090 pounds of yard waste
- We were paid \$93,464 in third party royalties.
- Provided 25,522 residents and non-residents with service.





Public Works Department  
Steve Bender, Director of Public Works  
Phone: 636.379.5560  
Email: [sbender@ofallon.mo.us](mailto:sbender@ofallon.mo.us)  
City of O'Fallon  
100 North Main Street  
O'Fallon, Missouri 63366