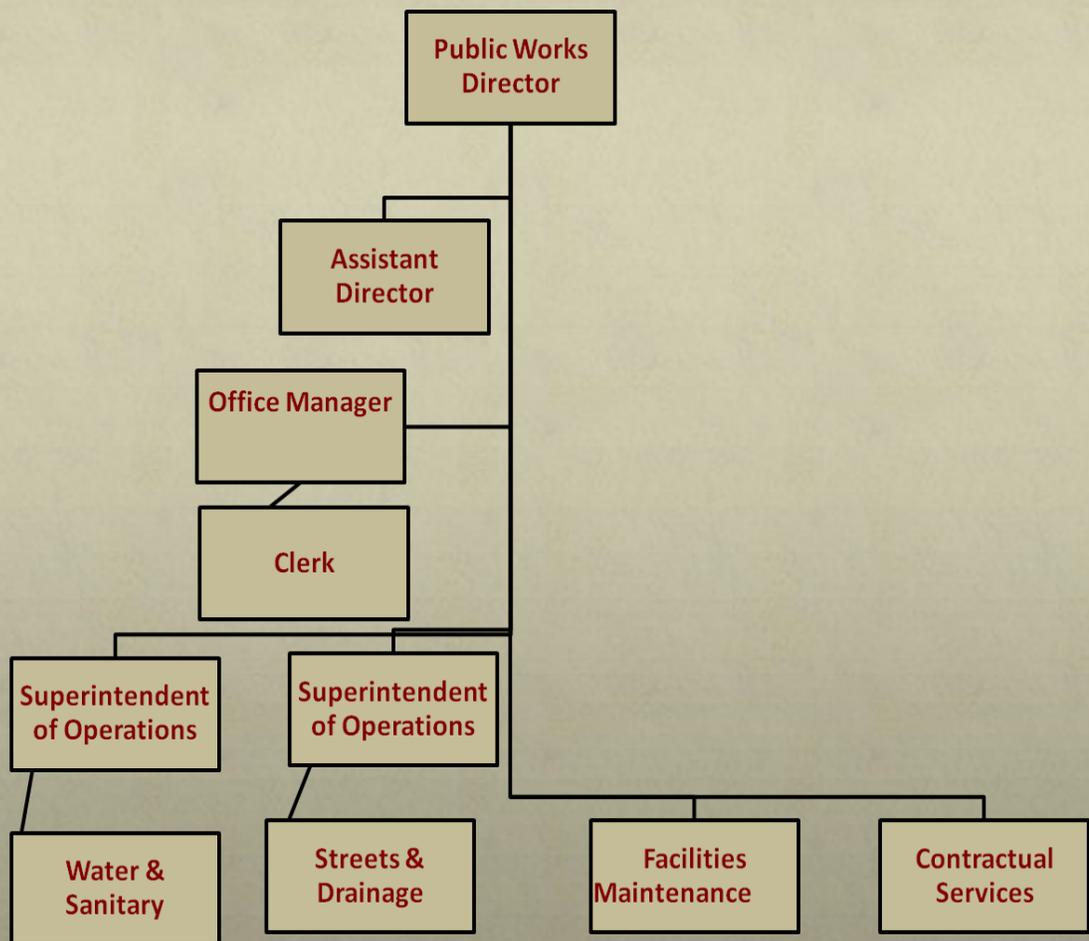


Department of Public Works 2011 Annual Report

“To provide comprehensive services to our residents and businesses by maintaining Village infrastructure and delivering services in a fiscally responsible manner”

Two events this year created a challenge for Public Works. First was the record snowfall on February 1st and 2nd, 2011 where over 20 inches of snow fell. Public Works crews worked hard around the clock to open up our streets. The second event was the wind storm of July 11, 2011. It caused extensive damage to trees throughout the Village and caused power outages to most residents and Village facilities. The amount of debris from tree damage was excessive and Public Works worked diligently to get it removed. Village residents and business owners should know that we have a dedicated staff here at Public Works and I am proud to be a part of this organization. I would like to thank the Mayor, Village Trustees and Village Administrator for having confidence in me to lead this organization.

Gary Gramhofer, Interim Public Works Director



SERVICE MILESTONES



Rickey Foster — 5 years



Chuck Luplow — 5 years



Jose Vega — 10 years



Andreas Rogoz — 5 years



Kevin Stateler — 5 years

ADMINISTRATIVE TEAM

Public Works Administration Team is comprised of the Public Works Director, two Superintendents of Operations, an Office Manager, and a Clerk.

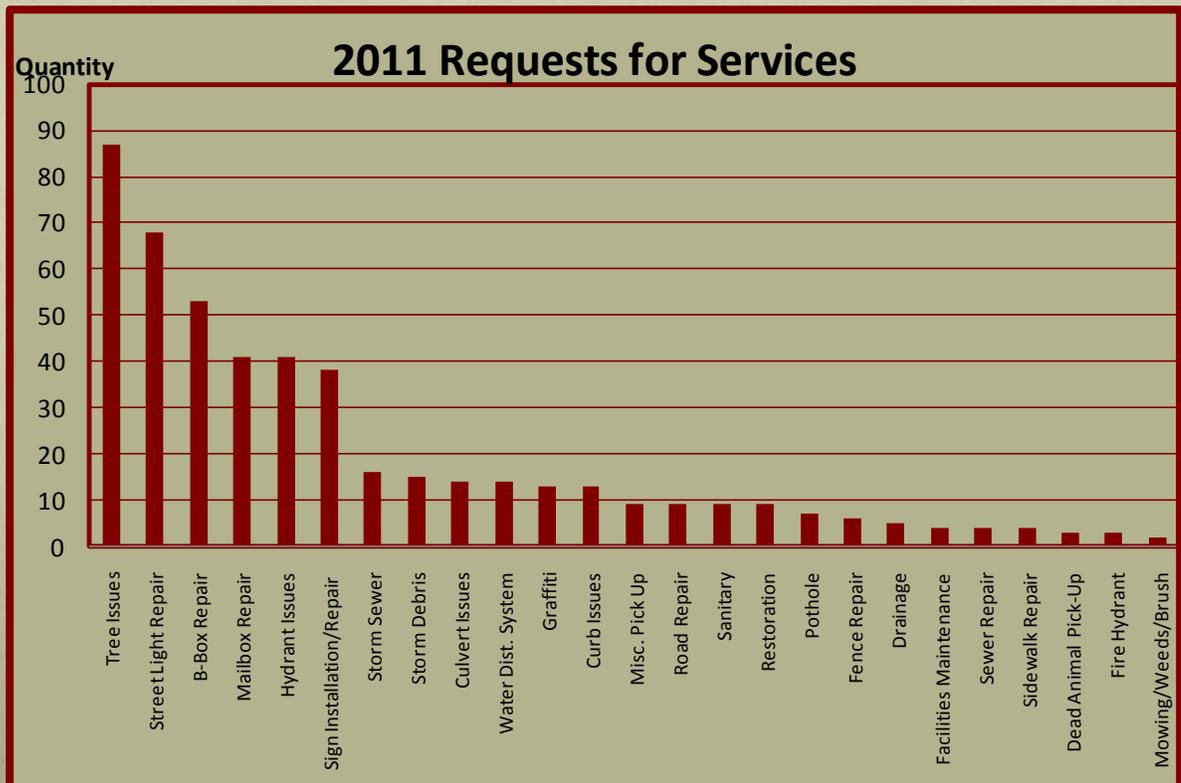
Public Works Administration directs, oversees and supports all activities of the Public Works Department. Responsibilities include establishing short and long term goals; budget preparation and management; developing work plans; federal, state and county regulatory compliance; plan review and site inspections of projects and developments; preparation of bid specifications; administration and management of all contracted services. Administration directly interacts with the public by addressing inquiries and scheduling work requests. Administration works closely with the Village's consulting engineer to coordinate capital improvement projects.

We welcome Brett Baseley as the new Superintendent of Streets and Drainage.

ADMINISTRATIVE TEAM

ADMINISTRATIVE TEAM ACCOMPLISHMENTS

- Received and processed 4,249 customer service request phone calls.
- Received and executed 2,340 J.U.L.I.E. requests.
- Served as a worksite for the Lake County 19th Judicial Court Adult Probation Office. Received 103.5 hours of community service work.
- Hosted Allendale Association summer work crews. These crews painted fire hydrants.
- Contracted annual maintenance of Village owned back-up electrical generators.
- Contracted annual maintenance of 17 sewer pumps.



The Water and Sanitary Team is responsible for managing the potable and sanitary collection systems in compliance with E.P.A. Regulatory Standards. The Water and Sanitary Team includes a State required licensed Water Operator.

Since 1992, the Village's potable water supply has been provided by the Central Lake County Joint Action Water Agency (C.L.C.J.A.W.A.) and the source is Lake Michigan. The Village's water distribution system also consists of six back up wells, two elevated tanks and one ground storage facility. The combined capacity of storage facilities is four million gallons.

The Water and Sanitary Team manages and maintains a water system consisting of 83 miles of various sized water distribution mains, and appurtenances intrinsic of 650 control valves, 967 fire hydrants, over 8,200 water services and metered accounts. The Village pumps an average of 1.981 million gallons per day. 725 million gallons of water passed through the Village water system during 2011.

The Village's sanitary collection system consists of 80 miles of various sized sanitary mains including seven sanitary wastewater pumping stations. Sanitary sewage is conveyed to the Northwest Fox Lake Water Reclamation District where it is treated and released. The Water and Sanitary Team's maintenance programs include regular jetting, flushing, and cleaning of sanitary sewer mains and customer service emergency response of sewer line blockages.

WATER & SANITARY TEAM ACCOMPLISHMENTS

The one million gallon reservoir at the Wood Street pumping station was cleaned by high pressure water blast on the exterior surface of the tank wall including a rinse down using a chlorine solution to kill all mold and mildew. Contractor performed crack injection, removal of loose or unbounded concrete and minor patching to provide a sound surface for the application of a water resistant coating.



Pump #1 at the Wood Street pump station was contracted to be rebuilt as an ongoing maintenance program to provide reliable water service to the Village customers.

All fire hydrants were sequentially opened to flush our water distribution system and test hydrant flow. Repairs were prioritized and implemented.

WATER & SANITARY TEAM



HydroAire Incorporated was hired to perform an inspection and annual maintenance to the Village's seven sewer pump stations. This company's specialized maintenance service helps avoid untimely replacement of expensive equipment.

Rebuilt pump #1 at the Countryside sewage pump station.

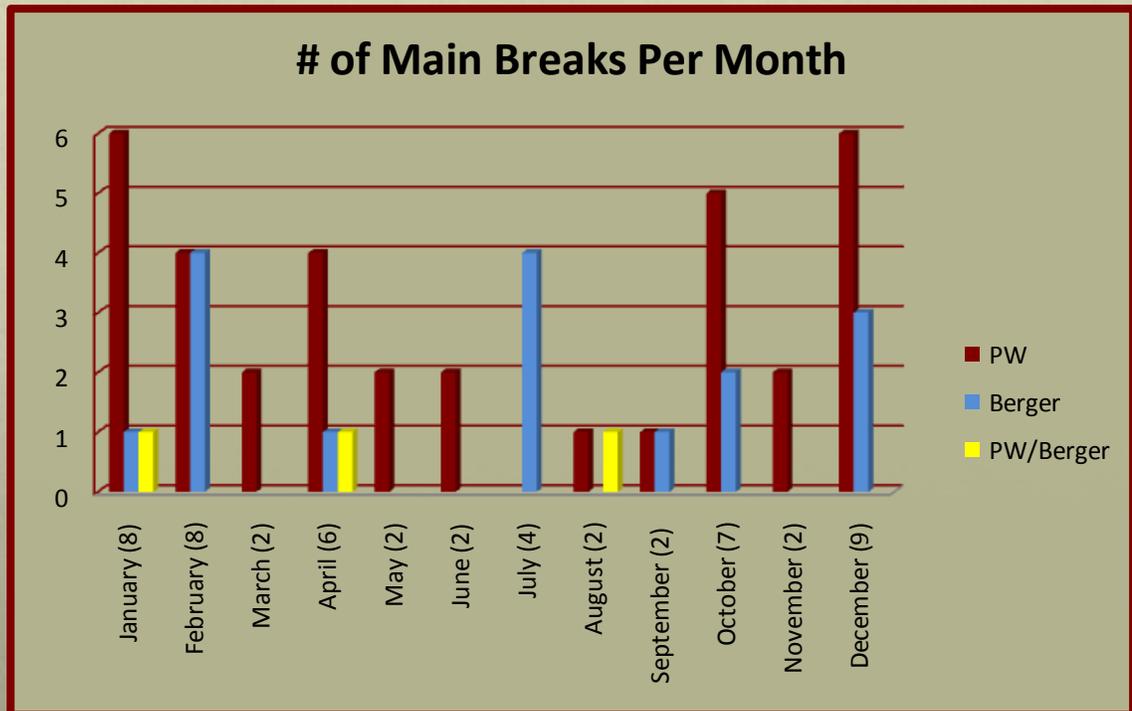
Rebuilt pump #2 at the Orchard Water Tower.

Identified and repaired 54 water main breaks. 35 repairs were done in-house and 19 repairs were done contractually.

Delivered 1295 turn-off notices, performed 266 turn-offs and 155 turn-ons for the Finance Department.

Jet rodded to flush 32,413 lineal feet of sanitary sewer main lines to keep lines open and flowing freely.

Replaced one GMC van with a Ford E350 Econoline van.



The Street and Drainage Team is responsible for maintaining a clean, reliable transportation network that allows for the safe and continuous movement of vehicular and pedestrian traffic at all times. The major function of the Team is the inspection and repair of pavements, sidewalks, curbs, street lights, signage, storm sewer systems, ditches, swales, parkway trees and the 33 acre Hook Lake retention area. The Streets and Drainage Team is also responsible for park maintenance and graffiti removal.

The street network consists of 80 center lane miles of paved streets including 92 cul-de-sacs. The Team manages and maintains 2,300 various types of traffic signage, 500 street lights, and 4,500 storm drainage structures (inlets, catch basins).

STREETS & DRAINAGE TEAM ACCOMPLISHMENTS

- Patched 6,827 pot holes throughout the Village.
- Responded to and resolved 495 resident requests for service.
- In the third year of our five-year tree pruning program, Joe Meyer Tree Service pruned all parkway trees in the following areas; Heatherwood Subdivision, Old Shorewood Subdivision, Hainesville Rd. west to Oak Ave. and Clarendon Dr. south to Shorewood Rd., over a two-week period.
- Replaced 50 dead parkway trees with hardy varieties known for their tolerance to the urban environment.
- Performed 219,153 square feet of parkway construction restoration.
- Performed 10,573 square feet of asphalt street restoration.
- Replaced one 1995 Chevy 4x4 pickup truck with snowplow with a Ford F250 4x4 pickup truck with snowplow.
- The installation of the new boat dock at the lakefront has been completed. A handful of employees and Team Reil, the supplier, installed the dock in just a few hours. It is a welcomed addition to the boaters and fisherman who use Round Lake.



The restoration of seven Round Lake Beach entrance signs were restored in anticipation of next year's 75th anniversary. For the most part the signs were repairable but a few needed extensive restorations. PW was able to save all the existing signs with no additional funds needed for replacement.



Road maintenance continues in order to extend the life of roads until long term repairs can be made.

In January of 2011, the Public Works Department began removing debris from the Indian Hill Drain that runs from Rollins Road (north end) to Sunset Drive (south end). This drain picks up rain water runoff from the surrounding area and transfers it to the Round Lake Drain at the south end of the Village. It also picks up runoff from the new Round Lake Heights Retention Pond Lift Station connection on Rollins Road which was added in November of 2010. This connection has shifted a significant amount of additional water to the drain. During the debris cleaning process, Public Works made a brief visual inspection of the drain to determine whether maintenance/repair would be needed. We observed several locations along the drain that require repair due to age and erosion. A comprehensive study was completed and submitted under the title "Indian Hill Drain Survey". The survey was submitted to Devery Engineering so that any future infrastructure projects slated for this area will incorporate the necessary repairs to the drainage way.

STORM OF 2011

A major storm ripped through the Village on July 11th. It caused extensive damage to trees throughout the village and killed power to most residents and businesses for almost a week, including Public Works and several sewage pump stations. The amount of debris from tree damage was extensive and Public Works personnel worked tirelessly to get it removed. The clean up took two months to complete which required the use of almost all of our manpower. Through the Illinois Public Works Mutual Aid Network (IPWMAN) we were able to get assistance from personnel from Barrington and Hoffman Estates. Also, an additional wood chipper was rented for a month that allowed us to attack the storm debris from two directions which double our efforts. The amount of tree debris was substantial. We contracted with a subcontractor for a tub grinder where the tree debris was turned into mulch for the residents to use.



Clean Up Period:	7-11-11 through 9-7-11
Total PW Man Hours:	1,413
Total Cost:	\$73,381



SNOW & ICE CONTROL OPERATIONS

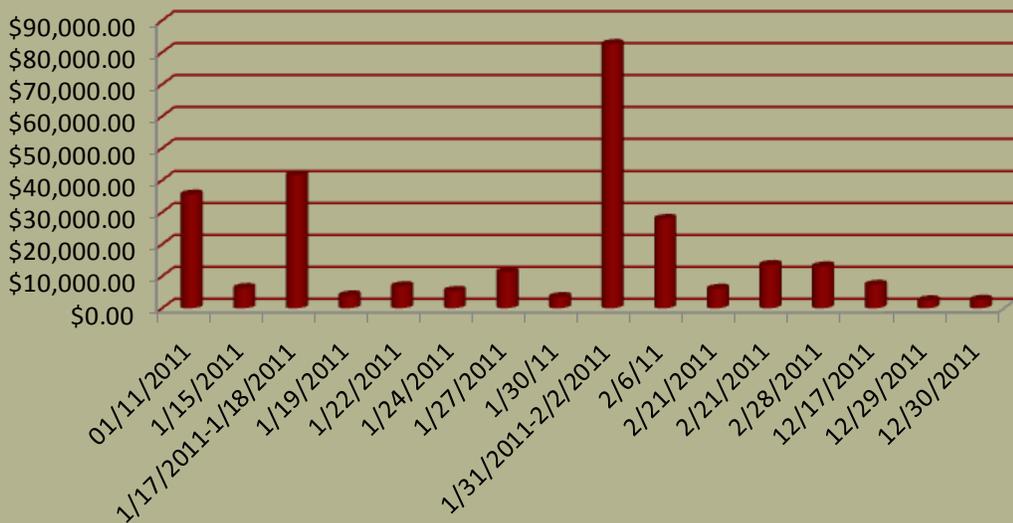
During the winter months the primary responsibility of this team is snow and ice control operations. The Streets and Drainage Team repairs parkway damage caused by Village snow and ice operations, as well as damage caused by utility excavations performed by the Public Works Department.



Snow and ice control is without exception our largest all team effort. During a snow or ice event everyone is tasked with making our streets reasonably safe for residents. This responsibility included providing snow and ice removal for the Village's 80 centerline miles of streets, 92 cul-de-sacs, approximately three miles of public service sidewalks, and Village owned parking lots.

Our goal is to make all streets, courts and cul-de-sacs, sidewalks and crosswalks, facility service walks and parking lots safe and accessible for vehicles properly equipped for winter driving conditions, pedestrians and for emergency services during and after a snow or ice event.

2011 Snow and Ice Control Costs



With the aid of our Geographical Information System (GIS) snow and salting routes are established. Lane miles, road characteristics and geographic continuity are considered in determining routes. The routes are balanced so that the operating times are as equal as possible to allow everyone to complete their route about the same time.

The Village is divided into 14 routes for the purposes of snow removal. When snow removal is not the issue but the roads are slippery due to ice or light snow these routes are combined into seven routes. These seven routes are referred to as salt routes.



Two snowplows and two salt spreaders were sandblasted, repaired and painted this summer in order to increase their useful life. Restoration of heavy equipment is often a cost effective alternative to purchasing new.

In 2011 Public Works mobilized for snow and ice operations 16 times. Our 2 longest operations lasted 69 and 22 hours respectively.

Liquid Ice Control

Liquid ice control equipment is installed on seven main line trucks to dispense liquids onto the salt as it is being spread onto the road. These liquids will coat the salt which will limit the salt from bouncing off the road. The addition of liquids will also activate the salt quicker for more efficient melting of snow and ice. The use of this system can reduce the amount of salt use by 20 to 25%.



STREETS & MAINTENANCE TEAM



BLIZZARD OF 2011



1-31-2011

- Total Snowfall: 21"
- Total Storm Time: 44 hours
- Total Operation Time: 69 hours
- Salt Usage: 167.5-ton
- Total Storm Cost: \$82,596



FACILITIES MAINTENANCE TEAM

One Facility Technician and one Maintenance Worker II comprise the Facility Maintenance Team. They are responsible for maintaining the integrity, value and appearance of all Village-owned buildings. This is accomplished through timely preventative and predictive maintenance programs. The goal is to provide a safe, clean and productive work environment for Village associates and the general public.

The Facility Maintenance Team maintains six Village-owned buildings. The total area of these facilities exceeds 200,000 square feet. Daily tasks include responding to internal customer service requests, coordinating specialized contractual work (custodial, heating, ventilation and air conditioning) and performing routine building repairs.

FACILITIES MAINTENANCE TEAM ACCOMPLISHMENTS

- Performed 839 preventative maintenance inspections of facilities.
- Responded to and resolved 170 internal service requests.
- Performed 693 various trades to facilities and equipment.
- The Village purchased a hydraulic scissor lift. This unit will allow for more efficient and cost effective maintenance of the hard to reach areas at the Village Hall, Civic Center, and Metra buildings.

