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Date: July 1, 2009

To: Dan Quick, Village Administrator

From: David Geary, Director of Public Works
Betty Harrison, Superintendent of Administration
Alex Pryde, Superintendent of Operations

Public Works Administrative Report for June 12th through June 30th

Road Maintenance Meeting

The Public Works Department hosted a public informational meeting regarding road construction activities within the Village on Monday, June 22, at 7:00 p.m. The meeting was publicized in the local newspapers, on the Village website and through the Mayor's e-news. The meeting, held at the garage, was attended by a handful of residents and two members of the local media. Information was presented on the various road construction projects that have recently been completed, those that will be included in this year's road bond work, and the projects that are being evaluated for future work. Project funding as well as the different degrees of repair and replacement that may be needed on individual roadways was addressed. Bob Devery's presentation also included information on the process involved in evaluating roadways for future repair or replacement consideration. Residents asked questions and offered comments about construction in their particular neighborhoods. The Department plans to host additional informational meetings in the future to allow residents an opportunity to ask questions and offer their opinions on upcoming large projects.

Training

On June 22nd, all appropriate Department personnel attended a confined space and lock-out/tag-out safety training. By OSHA regulations, this training is required to be completed by employees annually.

Street Department

Tree Trimming/Removal

Significant tree trimming was performed along Garland Road and Route 176 during this reporting period. The trees in the areas had not been pruned in several years. The work will allow for better visibility for motorists and snow plow and other large truck clearance. Seven dead parkway trees were removed in the Liberty Lake Subdivision as requested by residents.

Street Light Repair

Several months ago, the Department received a request from a resident to address a street light that was out on Linden Lane in the Aspen Grove Subdivision. At the time it was reported, the crews checked the light and found that the issue was not a burned out light bulb or nonfunctional photocell, but a more significant electrical problem. After investigating the problem, and figuring out the solution, Com Ed was contacted to cut power to the light so that repair work could be preformed. Since the job was not an emergency, the first available appointment was several weeks off. On the appointed day, Com Ed was forced to reschedule the appointment due to the significant storm damage in the area that had their crews working on more pressing issues. The next appointment (again several weeks off) was scheduled. On the appointed day, Com Ed was able to cut the power to the pole, and our crews went to the site to make the repair. After excavating the area (the service was found 5 feet underground) the crews found three ground fault breaks. The breaks were repaired, the site restored, and the light is now back on.

Duckling Rescue

At approximately 9:00 p.m. on June 22nd, the On Call Street Department Foreman was contacted by the Police Department Dispatch Desk requesting service from a resident on Bluewater Drive. The request was from a mother, whose eight year son was distraught because he had just witnessed a group of ducklings fall into the storm water catch basin in front of his home. The mother duck was too big to fit through the grate and could not get to her babies, and was quacking loudly and nervously pacing in the area. The foreman contacted the Fire Department for assistance and responded to the site. The Fire Department helped remove the storm grate so that the Street Department Foreman could go into the drain and retrieve the ducklings. The ducklings and their mother went safely on their way. Our Department does not usually take action when we receive calls regarding wild animals, but because of the emphasis on the child, we felt it would be appropriate to respond in this case. We feel that this effort was a good public relations opportunity and the resident was very grateful for the resolution to the situation.

Vactor Operations

During this period, over 23,000 feet of sanitary sewer line was cleaned using the Vactor truck. In addition to regular cleaning, the historical 'problem areas' in town were checked and addressed by the crew, and the Liberty Arms holding tank was emptied. The truck was also used to hydro-excavate a water line at the treatment plant and the power line for the street light repair on Linden Lane.

Aquatic Plant Harvesting

During this time, aquatic plant harvesting continued on Bangs Lake. An average of 6.7 cubic yards of seaweed is removed from the lake per day. For the period of June 15th through June 30th, 60 man hours were used to remove 60 yards of weeds from the lake. One of our (regular) summer workers has been trained to operate the harvester to act as a back up to the regular operator.

Brush Pick Up

The June Residential Brush Pick Up is complete. Eighty six man hours were dedicated to the program this month. Four truckloads of brush chips were removed from Zone 1 and three truckloads were removed from Zone 2.

Water Department

Change to Bulk Storage of Phosphate

Phosphate is the corrosion inhibitor we use for lead and copper corrosion control. The only facility set up for bulk storage of the chemical was the Liberty Lakes treatment plant. At our other four plants, phosphate was delivered in 30 gallon drums which would need to be changed out, or it would be periodically pumped to refill a day-tank where it would be fed into the water. During this period,

we worked with our supplier to change storage at these four plants to store the phosphate in 200 gallon tanks which feed by gravity to the day tank, thereby making our transfer operations much more efficient.

Hydrant Repairs

Our crews have been working to repair six hydrants located throughout the Village that are either difficult to operate or non-functional. Four of the hydrants, which are all older models, contain valves that can not be moved. These four hydrants will all need to be replaced. Two of our current model hydrants (Waterous Pacer) we were able to repair. One, which was damaged during parkway mowing on Bonner Road, was fixed with a traffic repair kit. The other had a deteriorated hydrant valve which we were able to rebuild. Because of the elimination of the residential seaweed pick up program, we have been able to test 52 hydrants so far this year.

Water Reclamation Department

Secondary Clarifier #2

On June 12th, the crew cleaned out and inspected secondary clarifier #2. The bottom seal was found to be in good condition. The top seal is in need of replacement. Parts were ordered. Work was completed with the help of the Vactor Crew.

Maintenance Items

Here is a list of projects that were completed between 6-10-09 and 6-30-09:

- Replaced a total of eight UV light bulbs during reporting period.
- Replacement of damaged ceiling tiles in control building, cooling fan on Primary Effluent Pump S3, smoke detector on UV portion of UV/Sandfilter building, blower filter wraps for new Continental Blowers. Also replaced air chamber on suction side of sludge piston pump #1. The old chamber was leaking water and air.
- On 6-19, completed May 2009 Discharge Monitoring Report. Copies were mailed to IEPA. Copies were also provided to Devery Engineering for Lake Barrington.
- On 6-19, completed semi-annual sludge report for January through June 2009. No sludge was discharged during this period. Copies were sent to the IEPA. Copies were also provided to Devery Engineering for Lake Barrington.
- On 6-19, completed quarterly sludge reporting. Sludge testing results for the second quarter of 2009 was sent to the IEPA. Copies were also provided to Devery Engineering to provide for Lake Barrington.
- On 6-23, fix non-potable water break by Tower #1. Work was completed with the help of the Vactor Crew.
- Lake County workers were used to paint the shop, complete landscaping by secondary clarifier #2, paint the control building basement, prune bushes, clean up and sweep both cold storage garages, pull dead bushes from site, plant new bushes on site, sweep and mop various buildings, hose down various tanks within treatment plant site, and water flowers, bushes and trees.

Performance Indicators for Water Reclamation (14 day reporting period) – Final Effluent

- Total pumpage for period: 39,215,000 gallons
- Design flow of treatment: 1,900,000 gallons per day
- Design maximum flow of treatment works: 6,000,000 gallons per day
- Average flow for reporting period: 1,867,000 gallons per day
- High flow for reporting period: 3,724,000 gallons per day
- Low flow for reporting period: 1,466,000 gallons per day

Performance Indicators for Water Produced

- Total pumpage for period: 30,298,000 gallons

- Dependable capacity of water works @ 24 hrs/day: 3,470,070 gallons per day
- Dependable capacity of water works @ 18 hrs/day: 2,548,470 gallons per day
- Average daily pumpage for reporting period: 1,443,000 gallons per day
- High day for reporting period: 1,711,000 gallons per day
- Low flow for reporting period: 1,239,000 gallons per day

Water Department Activity and Weekly Projects

- JULIE locates: 78
- Daily check of water facility: 14
- Daily water supply operational tests conducted: 68
- Daily water distribution operation test conducted: 64
- Non-daily bacteriological samples collected: 7
- Non-daily chemical samples collected: 5
- Repaired water meters: 5
- High water bill investigations: 4
- Red Tags delivered: 1
- Red Tag Notice shut-offs: 15
- Final readings: 25
- Backflow 1st notice: 39
- Backflow 3rd notice: 18

Wauconda Journal 6-20-09

Two men part of first ever mutual aid call

By STEPHANIE N. LEHMAN - slehman@nwnewsgroup.com

WAUCONDA – If ever an inland hurricane hit the Wauconda area, the public works department would know exactly what to do.

That's because two of the department's finest responded to the first ever Illinois Public Works Mutual Aid Network call, providing assistance to southern Illinois communities devastated by spring storms and consequent flooding.

"I was happy to have the opportunity to go down," said Bart Romero, who has worked with Wauconda Public Works for eight years. "I wanted to leave right then and there when they called us."

The call, which occurred May 15 after southern Illinois was hit hard by storms, wasn't timed well for the department, but it was a chance that couldn't be passed up, said Dave Geary, director of Wauconda Public Works.

"It was a tough week for us," Geary said. "We had an open house coming up, and the [Memorial Day] parade to think about. [But] I thought to myself, we've got to be part of this first [call],

because that's what it's about – emergencies don't wait for the calendars to be cleared."

Romero and Chris Esvang, a five-year veteran with public works, volunteered to travel nearly eight hours May 17 to Carterville, Ill., in response to the IPWMAN call. They drove a Wauconda Public Works dump truck and brought chainsaws and other equipment to help with debris removal.

What later was dubbed an "inland hurricane" was 80- to 90-mph winds that had caused flooding and immense debris to lay strewn across roadways and neighborhoods for days on end. When Esvang and Romero arrived in Carterville, they found the roadways mostly cleared, but debris piled 15-feet high on the shoulders of the roads.

So, they dug right in, with the help of nearly 30 other volunteers from around the state.

The two started work early May 18, with Esvang cutting up trees so that it could be hauled away, and Romero making 50 to 60 trips a day in the dump truck taking the debris to a burn pile.

They worked with a seven-person team and soon exceeded the amount of debris they had been charged with burning, which allowed them to move to secondary sites and continue to clean up.

"We knew we only had five days to get as much done as we could," Romero said, noting residents were thrilled with the extra help. "You could see the smiles on their faces. They were so happy – they were saying, 'Oh, it's finally gone.'"

Still, the volunteers were only able to clear five lane miles, Esvang said.

"There was still a lot of damage," Esvang said. "The stuff we were working on was hazardous to residential safety."

The pair made their way back to Wauconda on May 22, ready to go back at a moment's notice, they said.

But if such a catastrophe were to hit Lake County, the two would feel much more comfortable handling the situation, they said.

"If ever it would hit Wauconda, I personally think I would be able to handle my own group," Romero said. "This was a great experience, but I hope it never hits Wauconda. It was just never-ending brush."

"God help us if we ever need anything like that, but if it did, we'd be better off because of their experience down there," Geary echoed.