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To: Dan Quick, Village Administrator

From: David Geary, Director of Public Works and Building and Zoning
Jackie Soccorso, Director of Environmental Quality and Public Works Supt. of Admin.
Alex Pryde, Public Works Superintendent of Operations
Joe Schwarz, Fire Prevention Division Chief and Building Commissioner

Date: September 2, 2010

**Public Works, Building and Zoning, and Environmental Quality Department
Administrative Report for August 12th through September 1, 2010**



Public Works

Street Division

Street Repairs

Street Division personnel filled pot holes along Maple Avenue, Mill Street, Church Street, Madison Ave. and Northshore Drive. Street Division personnel also repaired edges of the roadway along various sections of Callahan Road, Bangs Street and Mill Street. The Department was able to borrow equipment from a neighboring Public Works Department to mill the existing roadway, fill the area with asphalt and roll and compact the asphalt into place.

Making repairs in this way takes more time and personnel hours but leaves a stronger edge that will not be as prone to need additional subsequent repairs. Not all potholes can be addressed in this manner, but if conditions are right, this method can help keep the road edge strong.

Arborist Activity

During this period, the Arborist continued pruning parkway trees in the Liberty Lakes subdivision for line of sight to stop signs or for pedestrian or vehicle clearance. 206 trees in Liberty Lakes were addressed in the past few weeks.

Three large paper wasp nests were removed from parkway trees at resident's request.

Street Light Repair

Street lights were repaired at the corner of Slocum Lake Road and Osage Street, along Main Street near Mill Street and at the intersection of Main Street and Slocum Lake Road. These repairs were handled by Public Works Department staff.

Vactor Activity

During this period, the vactor was used to clean 9,442 feet of sanitary sewer line throughout the Village. It was also used in several hydro-excavating capacities to dig water valves and b-boxes quickly and efficiently for the Water Division. The vactor also assisted in cleaning the secondary clarifier at the reclamation facility.

Lake Weed Harvesting

During this reporting period, 180 yards of aquatic weeds were removed from Bangs Lake. 72 man hours were spent this task.

Water Division

Well 7 Pumping Equipment Overhaul

During the last reporting period, it was noted that Well 7 was out of service, awaiting a report from the contractor on needed repairs. An inspection of the pumping equipment revealed that a new submersible motor, well pump, and four new 20 foot sections of column pipe were required to place the pump back in service. The contractor delivered the new materials to Well 7 on August 31st and began installation. We expect the installation to be finished during the second week of September. The Water Division will then flush and sample the well prior to placing it back into service.

Well 10 Progress

On August 19th, we worked with the vendor to accomplish the initial backwash for the three iron filters at Well 10. On August 20th, 25th, and 26th, we worked with the contractor to provide water to test the plant piping for leaks. The tests are ongoing.

Main Valve Replacement

On August 12th, a broken water main valve located on Maple Avenue at Bangs Street was excavated and repaired. This valve broke during the shutdown required for valve replacements a month earlier on Osage Street. Since there were telephone ducts right next to the valve, along with a sewer line, an unknown 10" PVC utility, and an abandoned gas line in the same excavation, the vactor truck proved invaluable once again to accomplish the project without damage to other utilities. This valve replacement completes our planned valve work for this summer as it relates to the current paving project, and brings the total to 11 water main valves repaired and 4 water main valves replaced since the end of April.

Water Service Repairs

On August 19th we excavated and replaced a leaking water service valve at 320 Brown St., and on August 27th we excavated and replaced an unkeyable water service valve at 507 Brown St.

Water Reclamation Division



Fox Valley Operators Conference

On August 19th reclamation employees attended the Fox Valley Operators Association Mini Conference in Algonquin. At this presentation for wastewater professionals, numerous seminars were presented. Anna Kootstra led a discussion centered on correct sample collection, safety issues, preservation types, collection methods and standard methods. Anna has now been asked to present at a future upcoming conference for the group.

Also during this period:

- On 8-11, staff spent time troubleshooting a seal fail alarm on Pump P103. Resistance was less than 20,000 ohms indicating a legitimate seal fail. Staff began soliciting quotes to repair the pump.
- On 8-12 through 8-14, the new sand filter was super chlorinated. Cleaning is done on a quarterly basis to improve the efficiency of the filter. Over time the filter becomes overcome with biological growth which needs to be removed from the system.
- On 8-16, staff installed four valve stem risers on facility valves.
- On 8-16 through 8-20, the old and filter was super chlorinated.
- On 8-17, the long flight primary clarifier drive on primary clarifier #3 & #4 was removed and replaced with a new drive. The drive powers the flights and chain mechanism that scrapes sludge to the sludge hopper for removal. It also helps skim floatables and grease for the surface of the primary clarifiers. The cost of the new drive was \$1,500.
- On 8-18, staff cleaned and inspected Secondary Clarifier #1. This is part of the annual preventative maintenance schedule. Work was completed with the assistance of the Vactor Crew. Wear on the top seal was noted and a replacement is needed.
- On 8-18, Wunderlic Malec reset PLC #3 fail alarm and worked on programming for Landfill flow totals on SCADA reports.
- On 8-19, the chain hoist in the basement of the primary effluent building was repaired.
- On 8-19, a rack for prints was installed in the MCC room of the pretreatment building.
- On 8-19, the top seal in Secondary Clarifier #1 was replaced. This seal prevents sludge that has been collected from the bottom of the tank from discharging back into the tank.
- On 8-26, Dahme Mechanical replaced drain piping on the Tower #1 manifold. The old piping had become rusted and was leaking water.
- On 8-26 and 8-27, work was completed on preparing and mailing the Industrial Wastewater 2010 Survey to 450 businesses within the Village.
- On 8-27, the pinch valve flow meter was checked and calibrated by Endress & Hauser. This meter regulates the flow to the new treatment plant.
- On 8-27, repair was completed on water level sensing probes in the UV System. One probe had corroded away and new parts have been ordered.

Indicators for Water Reclamation (14 day reporting period)

Final Flow

Total pumpage for period: 26,971,000 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: 1,284,000 gallons per day

High flow reporting period: 1,773,000 gallons

Low flow reporting period: 1,100,000 gallons

Performance Indicators for Water Produced

Total pumpage for period: 26,440,000 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: 1,259,000 gallons per day

High day for reporting period: 1,547,000 gallons per day

Low flow for reporting period: 892,000 gallons per day

- JULIE locates: 123
- Daily check of water facility: 21
- Daily water supply operational tests conducted: 360
- Daily water distribution operation test conducted: 101
- Non-daily bacteriological samples collected: 7
- Non-daily chemical samples collected: 7
- Repaired water meters: 19
- Installed water meters: 5
- High water bill investigations: 6
- Water quality inquiry: 1
- Red Tags delivered: 122
- Red Tag Notice shut-offs: 7
- Final readings: 46
- Backflow 1st notice: 19

Building and Zoning

Building Department:

Site Inspections/Reviews:

123 N. Main Street / Fence

2610 Water Lily / Fence

910 Madison Ave. / Shed

2408 Trailside / Driveway

219 N Main Street Driveway

128 Lakeview / Alterations

808 Bonner Road / Addition

Meadowview Park/Park District / Fence

2387 Fishhook Way / Fence

337 Farmhill Circle / Deck

1249 Water Stone / Deck

1779 Napa Suwe / Deck

1208 Jonathon Ct. / Addition

1205 Karl Court / Building Alterations/Fire Alarm upgrades

Meetings:

- Phil Hedgepath / Building Addition
- Watch List / Code Enforcement
- 304 S. Barrington Road/ Health Department
- 1208 Jonathon Court / Home addition

Inspectors:

- 72 building permit inspections
- 25 Residential Dwelling Inspections

Permit Desk:

- 30 building permits for total revenue of \$5,034
- 20 new Real Estate Dwelling Inspection Applications for total revenue of \$1,500
- Processed 15 electric and 11 plumbing inspections by sub-contractors
- 27 garage sale permits
- Processed 2 FOIA requests requiring 20 minutes total staff time.

Zoning Services

Rolf C. Campbell and Associates (RCCA) continues to work with Village staff on various planning and zoning questions including referrals and reviews with Village staff on potential economic development opportunities. Recent inquiries include several home based business questions, meetings with property owners with zoning questions and sign permit inquiries. RCCA attended a Lake County Route 120 Corridor Land Use public meeting, and coordinated with Village Staff to develop a preliminary time line for adoption of amendments to the sign ordinance and an ordinance related to wind and solar energy devices. RCCA has begun a review of the Route 176 Strategic Planning Studies and continues to work on a Village Bike Plan.

Zoning Administration Services – Specific Applications

Legion Court - RCCA reviewed and coordinated the review of a proposed draft annexation document.