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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: August 11, 2010

**Public Works, Building and Zoning, and Environmental Quality Department
Administrative Report for July 29th through August 11th, 2010**

Public Works

Purchasing

Superintendent Soccorso is currently working with USA Blue Book to streamline the Department's supply ordering process, and to receive better pricing due to consolidated purchasing. It is anticipated that this change will help reduce costs and improve efficiencies.

Safety Program

During this reporting period, Public Works staff reviewed the following weekly safety topics:

- Hard Hat Usage and Requirements
- Handling 55 gallon drums safely
- Lock Out/Tag Out Program

Street Division

Storm Structure – Grand Blvd.

Street Division personnel graded the ditch line and installed a storm structure and associated piping on Grand Boulevard near Grant Place. This work was completed with the help of the vector crew. It was done in response to a resident request to eliminate some drainage issues in the area that were reported to our office following a strong storm.

Shoulder Gravel – Anderson Road

Gravel was spread along a 70 foot section of Anderson Road near the Saddlewood Subdivision to allow for a smooth transition between pavement and grassy shoulder. The extreme grade difference created a safety issue that was reported to us by a Saddlewood resident.

Arborist Activity

During this period, the Arborist removed a dying 45 foot maple from the Police Department property. A very large storm damaged willow tree was removed from the south lagoon in Larkdale, resulting in two loads of wood chips and two truckloads of wood being removed from jobsite. Two dead parkway trees were removed in the Liberty Lakes subdivision.

Pruning was performed on all trees on Main Street between Slocum Lake Road and Route 176, and spot pruning was done over roadways and sidewalks in the Country Ridge Subdivision.

Lift Stations

During this period, the intrinsic safety barrier was replaced at lift station #14 (on Wethington Drive). This device regulates the power coming into the lift station so that a flash or power surge will not damage the motors in the lift station. It is possible that the lift station or a nearby area was struck by lightning during one of the storms that passed through the area on August 9th. Because of power outages in the vicinity, off duty call outs were necessary and generators were needed to power lift station #3 (Ridge Ave.), #4 (Sunnyside Ave.) and #14 (Wethington Drive) after the storms.

Snow Plow Maintenance

During this period, dump boxes were cleaned, scraped, primed and painted on Units 19, 22 and 23. This painting provides a barrier in the truck bed that prevents deterioration and rust from forming. Rear camera systems were installed on Units 19 and 22. These cameras allow the operator to see the back of the truck as it is in motion, to improve visibility and so that the operator can better control the distribution of road salt.

Special Events

During this reporting period, the Street Division assisted in preparing for the Bangs Lake Multisport Festival hosted by the Wauconda Park District on August 8th. Staff delivered cones and barricades, swept streets and cleared the swimming path of weeds. The costs for these services were charged to the company who sponsored the event.

Barricades were also delivered to numerous block parties and a special event on Main and Mill Streets.

Water Division

Well 7 Pumping Equipment Failure

On July 29th, Well #7 stopped pumping when the submersible well pump motor blew the circuit breakers on the ComEd transformer. Further investigation found that all leads to the submersible well pump motor were shorted to ground. This required calling in a well contractor to pull the pumping equipment, which was completed on August 4th. The equipment has been inspected and as of August 11th we are awaiting the contractor's report. The well remains out of service until new equipment is received and installed.

Well 10 Progress

The contractor is preparing for a preliminary start-up of the iron removal equipment at the newly constructed Well #10 beginning August 16th. Water Division crews have been working with the contractor to prepare to fill the piping and iron filters.

Main Valve Repairs

Four water main valves were repaired during this reporting period.

On July 28th, a valve at Slocum and Brown with a leaking packing gland was repaired. This valve is located under the area that will be re-paved in the coming weeks.

On August 3rd, a valve at Hubbard and Main was that was closed to prevent a leak from the packing gland was repaired and reopened.

On August 6th, a valve on Maple by Liberty St. that was hard to operate was fitted with six new bonnet bolts and exercised to loosen up its operation. A shutdown planned for August 12th to replace another valve at Maple and Bangs depends on the proper operation of this valve. On August 9th, a valve on Mill St. by Maple Ave. that had a packing leak was excavated and repaired. The planned August 12th shutdown to replace another valve at Maple and Bangs also depends on the proper operation of this valve.

In total, since the end of April, 2010, the Village has repaired 11 water main valves and replaced 3 water main valves. Twelve of these valves required excavation and two were located inside manholes. Each repair or replacement was necessitated either because of its location in an area being paved, or because it was closed, or because it had broken or was needed while shutting down the water mains for other valve replacements. It is estimated that each of the repaired or replaced valves were 60 years old.

Hydrant Replacement

On July 29th, an old fire hydrant on Larkdale Row at Walnut Road was excavated and replaced. During the leak survey completed late this past winter, the hydrant was found to have a small leak, but it could not be repaired since the shut off valve to the hydrant did not close down and an attempt to stop the leak rendered the hydrant inoperable.



Hydrant Testing

During this reporting period, 47 fire hydrants were tested. 64 hydrants have been tested so far this (fiscal) year.

Water Reclamation Division

IEPA Annual Inspection

On August 6th, the IEPA conducted its annual inspection of the water reclamation facility. All aspects of plant operations were noted by the site inspector as 'good condition'. This included areas such as reporting, maintenance, lab, and process treatment.

Sludge Pressing

Our contractor, Synagro, continuing to press sludge at the water reclamation facility. A total of 576,502 gallons of liquid sludge was pumped and pressed into cake form. The solids were hauled to sites in McHenry County for land (farm field) application. Synagro will return before the end of fall for digester and sludge storage tank cleanings, and final removal of any residual amounts of sludge. An estimated 200,000 – 300,000 gallons of sludge will need to be pressed and removed in all.

Also during this period:

- Facility employees renewed their annual HAZWOPER training. Certification is needed for site inspections at Wauconda Sand & Gravel.
- Two new signs were installed in the reclamation facility, one for pump weight on grit transfer pump and another for hearing protection requirements in the Hoffman Blower room.
- Five burned out lights bulbs on exterior light fixtures were replaced throughout facility.
- Replaced two broken shear pins on primary cross collectors. Shear pins are designed to help prevent extensive damage to equipment. Shear pins break and disengage drives from motors to equipment.
- Replaced bad level sensor in Digester #2. Sensor is in place to measure the water level within the digester.
- Secondary Clarifier #1 was taken out of service with assistance from the vactor crew. It was subsequently cleaned and pumped down. An inspection has been scheduled for the week of 8-16-2010.
- There were two after hour call outs during this monitoring period. One was for excess flows due to heavy rains during July 30-31. A total of 1.76 inches of rain fell in a four hour period. There was no excess flow discharge.
- During annual preventative maintenance all facility valves (a total of 380) were exercised.

Indicators for Water Reclamation (14 day reporting period)

Final Flow

Total pumpage for period: 22,767,000 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: 1,626,000 gallons per day

High flow reporting period: 3,391,000 gallons

Low flow reporting period: 1,196,000 gallons

Performance Indicators for Water Produced

Total pumpage for period: 17,142,000 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: 1,224,000 gallons per day

High day for reporting period: 1,510,000 gallons per day

Low flow for reporting period: 990,000 gallons per day

- JULIE locates: 83
- Daily check of water facility: 14
- Daily water supply operational tests conducted: 240
- Daily water distribution operation test conducted: 44
- Non-daily bacteriological samples collected: 6
- Non-daily chemical samples collected: 7
- Repaired water meters: 6
- High water bill investigations: 3
- Final readings: 40
- Backflow 3rd notice: 1

Building and Zoning

Building Department:**Site Inspections/Reviews:**

-135 E Liberty St / Dumpster Enclosure
-2723 Moraine Valley Road/ Fence
-692 Crescent Terrace / Driveway
-2298 Green Glade Way / Elevator
-2619 Portage Ave / Fence

-304 S Barrington Road / Church Build-out
-312 George St. / Patio
-802 Wauconda Road / Basement Build-out
-2316 Serenity / Patio
-1855 Apple Valley Drive/Bsmnt Build-out

Meetings:

- Legion Court Ordinance / Staff
- Public Works/ Building & Zoning
- Holiday Walk Plan Review Meeting
- Relationship Center / Zoning
- State Farm / Zoning/Construction

Inspectors:

- 63 building permit inspections
- 23 Residential Dwelling Inspections

Permit Desk:

- 30 building permits for total revenue of \$9,030 including one new water service in unincorporated area.
- 11 new Real Estate Dwelling Inspection Applications for total revenue of \$825
- Processed 12 electric and 9 plumbing inspections by sub-contractors
- Processed 32 garage sale permits
- Processed 2 FOIA requests requiring 30 minutes total staff time.
- Prepared new informational flyers for concrete slabs, driveways, & brick patios or walkways for distribution and website posting

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 The Relationship Center on Main Street, a residential fence on Water Stone Circle, a temporary canopy in Larkdale, tear down and re-building on Maple Avenue, building questions for a church on Barrington Road, dumpster enclosures, a sign on Route 12, and downtown parking. RCCA also is completing an initial draft amendment of the sign ordinance for Village Staff review. RCCA has also begun research and development of a draft Village Bicycle Plan.

Zoning Administration Services – Specific ApplicationsLegion Court

RCCA and Village staff received an amended annexation agreement for initial review and coordination.

Environmental Quality

Plan Review for Proposed Food Service Establishment

Director Soccorso is currently reviewing the wastewater discharge from the proposed food service establishment. Per Village ordinance, an exterior, 1,000 gallon grease interceptor is required. The operator will get some price quotes on installing the unit.

Lake Level

During the reporting period, the water level of the lake increased from + 6.75 inches to a high of + 8.50 inches, then dropped to its current level of +6.50 inches. The amount of rain that fell during the reporting period was 3.00 inches. The lake will continue to be monitored closely to ensure the outlet remains unblocked and water exits freely, to reduce the likelihood of flooding. In addition, the Broberg Marsh culvert located on Lake Shore Blvd is being monitored on a daily basis. This area must remain clear of debris and free flowing in order to ensure proper drainage.

Industrial Pretreatment

Director Soccorso met with IEPA inspector Antwan Williams during his annual inspection of the water reclamation facility. She reported on the industrial pretreatment requirements contained in the NPDES permit.