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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: July 14, 2010

Public Works, Building and Zoning, and Environmental Quality Department
Administrative Report for June 31st through July 14th, 2010

Public Works

Street Division

Stump Removal

Approximately 35 stumps were removed along the ROW in various areas throughout town. The stumps were left after our Department removed dead or dying trees. Since the Village does not own a stump puller, one is rented when there are multiple stumps to remove. The stump area is filled with dirt and grass seed. The tractor truck assisted in the removal of stump debris.



Arborist Activity

One storm damaged willow tree was removed along Russell Lane. Tree pruning was performed for safety and elevation on all 85 trees in the Waterstone Subdivisions. Spot pruning was also performed on Gossell Road and Northshore Drive within the Village.

Street Signs

Speed limit signs were replaced in the Lake View Villa area. A larger size (24 x 30 inches) is required to meet the new traffic control sign standards.

Training

The Street Department conducted a short in-house workshop for all employees on the use and operation of the Department's crane truck. Proper use of the truck and crane and safety procedures were covered as well as the process for the truck's annual certification.

Street Sweeping

Street sweeping was performed throughout the Liberty Lakes and Larkdale Subdivisions. Street sweeping helps to keep the storm drains and underground drainage system clear. (In support of Strategic Goal A.)

Storm Sewer Structure Repair

Street Division crews repaired storm structure inlets on Vista View Drive/Parkview Drive and Mill Street/Maple Avenue. The inlets were collapsing and needed to be restored with brick and concrete to make them more stable and to allow for proper drainage in the area.



Bangs Lake Weed Harvesting

Aquatic weed harvesting continued on Bangs Lake. For the safety of the operator, during high winds and rain events, the harvester does not go out on the lake. From June 29th – July 13th, 36 man hours were spent removing 41 cubic yards of weeds from the lake.

Water Division

Water Service Repair

On July 9th, an un-keyable water service line valve was replaced at 515 Willow Road. The excavation to make the repair was done with the vector truck.

Main Valve Repairs

On July 7th, a leaking water main valve was repaired at Osage Street and Church Street by excavating and repacking the gland around the operating stem. All eight of the bolts holding the valve together were also replaced, as two of them were completely disintegrated and the other six were badly corroded. This valve was manufactured in the 1950's. The Water Division also excavated and attempted a repair on another leaking valve approximately 15 feet away in the same intersection. However, the top threaded portion of the operating stem had completely corroded away, leaving no way to hold down an operating nut. This valve was scheduled for a replacement requiring a water main shutdown.

Main Valve Repair – Osage St. near Church St.

On July 12th, by using our valve exercising tool, we were able to free up the operation of a valve that previously took two men to operate. This is typically the result of excess corrosion or scale that can build up when valves are not operated annually as part of routine annual maintenance.

Main Valve Repair at 461 W. Liberty St.

On July 13th, a leaking water main valve was excavated and repaired by repacking the gland around the operating stem.

**Water Reclamation Division
Aeration Tank Cleaning**

On July 8th, reclamation staff cleaned out the aeration tank portion of the solids contact tank. Work was completed with the assistance of the Vector Crew.

The following items were also completed during this reporting period:

- On July 7th, reclamation staff conducted stream sampling at six points along Fiddle Creek. This study is needed to gauge the impact of the treatment plant expansion on nutrients in the stream.
- All Temp replaced the compressor on the condenser and blower motor on the furnace.
- Because of turbulence in the water by the washwater pump, the north Infilco Sand Filter was drained. Bolts on flange from the pump to the drain piping were found to have rusted away.



On July 8th, Berryman Equipment replaced the coupler in the drive shaft on Hoffman Blower #2. The old coupler was worn and had pieces breaking off. The coupler connects the drive shaft from the motor and the blower vanes.

During this reporting period, reclamation staff:

- Replaced rubber wiper blades on secondary clarifier #1's skimming arm.
- Replaced the shut off valve on the ferric chloride feed line by the north side of the solids contact tank
- Calibrated the sludge density meter.
- Replaced rusted bolts on the flange piece between the washwater pump and piping on old sandfilter #1. The washwater pump carries solids that have been caught in the sand filtration process.
- Pulled pumps in the wet and dry weather lift stations to remove rags and debris.
- Pulled floats and water level transducers to remove debris.
- Cleaned out dry weather lift station with the help of the vector crew.

- Replaced the raw influent pump P104 due to a blown fuse. (after hours call out)
- Conducted six grease trap inspections

Indicators for Water Reclamation (14 day reporting period)

Final Flow

Total pumpage for period: 17,232,000 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: 1,231,000 gallons per day
 High flow reporting period: 1,321,000 gallons
 Low flow reporting period: 1,159,000 gallons

Performance Indicators for Water Produced

Total pumpage for period: 23,790,000 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: 1,133,000 gallons per day
 High day for reporting period: 1,393,000 gallons per day
 Low flow for reporting period: 883,000 gallons per day

- JULIE locates: 71
- Daily check of water facility: 14
- Daily water supply operational tests conducted: 216
- Daily water distribution operation test conducted: 77
- Non-daily bacteriological samples collected: 9
- Non-daily chemical samples collected: 0
- Repaired water meters: 3
- Installed water meters: 3
- High water bill investigations: 1
- Water quality inquiry: 1
- Red Tags delivered: 2
- Red Tag Notice shut-offs: 12
- Final readings: 12

Building and Zoning

Building Department:

Site Inspections/Reviews:

561 Farmhill Circle/Shed
 2639 Water Lily Lane/Patio
 761 Appaloosa Trail/Basement Build-out
 Slyce Pizza/Oven-Sprinkler-Fire alarm
 2336 Fishhook Way/Deck

1345 N Old Rand Rd /Warehouse Build-out
 219 N Main Street/Driveway
 2523 Bluewater Dr/ Deck
 1687 Napa Suwe / Deck
 1036 Bonner Rd / Patio

Meetings:

Tom Malik/Main Street Property
 441 Bonner Road / Brewery Build out

Training:

Northwest Building Officials and Code Administrators (NWBOCA) Concrete/Anchors

Inspectors:

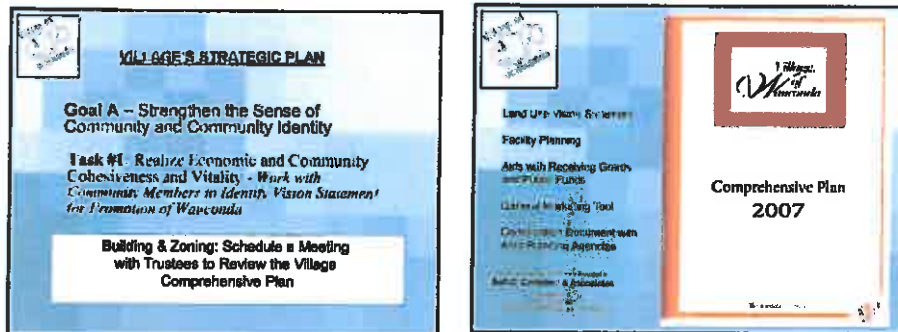
95 building permit inspections
12 Residential Dwelling Inspections

Permit Desk:

18 building permits for total revenue of \$2,723
9 new Real Estate Dwelling Inspection Applications for total revenue of \$675
10 electric and 11 plumbing inspections by sub-contractors
18 garage sale permits
Processed 2 FOIA requests.
Prepared HOA list of permit requirements in Liberty Lakes, Saddlewood, Oak Grove, Aspen Grove, and Orchard Hills. Included is a list of all streets located in each subdivision.

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 have been related to a micro brewery on Bonner Road, a potential residential zoning variance on Main Street, and potential annexation and rezoning of a property along Route 12. RCCA also provided a follow-up review of the potential impacts of the three Fairfield Road/Route 176 proposed junction improvements to Mayor Knigge, and gave input regarding a moratorium on wind/solar energy devices. RCCA met with an Orchard Hills Homeowners' Association representative to review issues with walking trails and reviewed monotony code issue with Building and Zoning Staff. The monotony code is put in place so that homes near one another in new subdivisions are unique-and do not all look the same.



RCCA prepared and presented a review of the 2007 Comprehensive Plan for the Village Board at the July 13th C.O.W. meeting. (In support of Strategic Plan, Goal A, Task #1.)

Environmental Quality

Plan Review for Proposed Brewery

Director Soccorso began to review plans for a proposed brewery. The wastewater discharge associated with the brewery process must meet the local pollutant discharge limits contained in Village ordinance. The review consists of research into the beer-making process, a review of IEPA guidelines/rules related to the beer making process, a review of local ordinance requirements, and a determination of the circumstances under which the proposed brewery may discharge its wastewater to the Village-owned sanitary sewer system. A meeting and tour of the proposed facility was conducted with the business owner, Building Commissioner, plumbing inspector, and electrical inspector.

Industrial Pretreatment Program

Director Soccorso continues to hold weekly meetings with Water Reclamation Division staff members to discuss the implementation of the pretreatment program. During the reporting period, approximately 25% of the applicable Village ordinance was reviewed. In addition, training was conducted on the method used to prepare the required Continued Compliance reports to be sent to the permitted facilities.

Lake Level

During the reporting period, the water level of the lake decreased from + 6.00 inches to its current level of +3.75 inches. The amount of rain that fell during the reporting period was 1.20 inches.

Environmental Committee

An Environmental Committee meeting has been scheduled for July 20, 2010. Items on the agenda include an Environmental Quality Department/Village Strategic Plan Goal update, SWALCO update, weed harvester operation discussion, and a proposed zero-phosphorus ordinance brought forward by the Bangs Lake Advisory Committee.