



Flag Creek
Water Reclamation District

WHO



FCWRD Water Reclamation Plant and Office
are located where I-294 and I-55 meet in
Burr Ridge, IL.

7001 N Frontage Rd
Burr Ridge, IL 60527
Phone: 630-323-3299
Fax: 630-323-4230

www.flagcreekwrd.org

Hours: Monday-Friday 8:00am-4:00pm



1

SCREENING – As the wastewater enters the plant, items like rags, stones and other large solids are removed from the wastewater stream. This screening is considered preliminary treatment.

2



GRIT REMOVAL – Sand and smaller non-organic solids like grit, are then removed in the grit tanks. Grit separators then remove the water from the grit, prior to entering the landfill.



3

PRIMARY CLARIFIERS – After the wastewater leaves the grit channels, it is pumped up to the primary clarifiers. The Primary Clarifiers settle out some of the organic solids, which are sent to anaerobic digesters for sludge processing.

Treatment Facilities and Processes



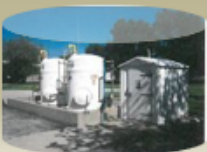
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AERATION TANKS AND SECONDARY

CLARIFIERS – The wastewater from the primary clarifiers undergoes biological treatment in the aeration basins. Air is injected to promote the growth of microorganisms that feed on organic materials in the sewage. The secondary clarifiers separate more organic solids from the water. The waste activated sludge is processed in the digesters. Secondary treated water is then sent to the tertiary filters, which removes even finer solids (15 Microns) from the water.

DISINFECTION - The clear effluent from the tertiary filters is disinfected to destroy pathogenic microorganisms, and is then discharged to Flagg Creek, a tributary of the Des Plaines River.



5



6

BIOSOLIDS HANDLING – The sludge digestion process creates methane gas to be used as fuel to heat the digesters. Anaerobic Digesters are used to heat and stabilize the waste sludge. It is then pumped to a sludge lagoon, with a capacity of 1 million gallons. The stabilized sludge ultimately is transported to land for application.

7



EXCESS FLOW – All influent flows greater than the 30 MGD plant capacity are sent to the Excess Flow Lagoon, after some primary treatment, and pumped back to the plant after a rain event, when the plant can handle the excess flow. On occasion, the lagoon capacity is exceeded and the excess flow is disinfected and discharged to Flagg Creek.

8



THE LABORATORY –In accordance with FCWRD's permit with NPDES (National Pollution Discharge Elimination System), the influent and effluent are tested twice a week for certain parameters. Monthly reports are sent to the IEPA.

FRONT OFFICE –The front office staff handles all billing, account receivables, payables and collections. All permits, inspections and plan reviews go through our inspectors.

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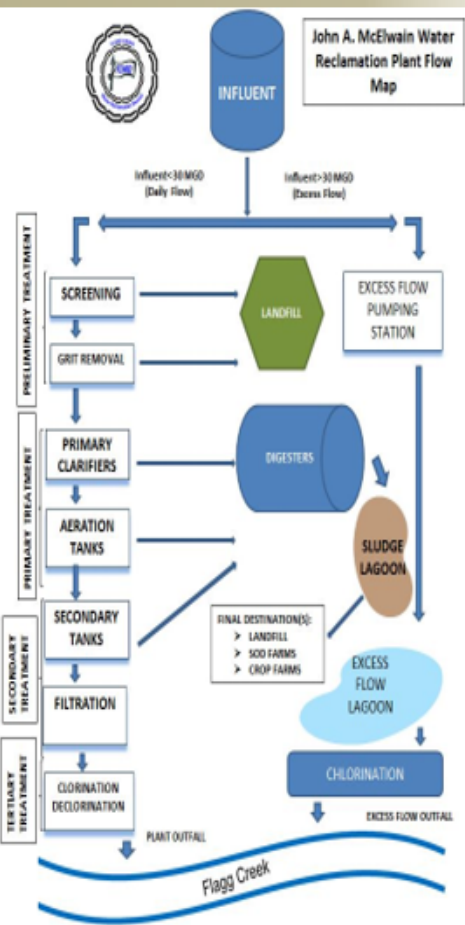


INFLUENT

John A. McElwain Water Reclamation Plant Flow Map

Influent < 30 MGD
(Daily Flow)

Influent > 30 MGD
(Excess Flow)



PERMITS

A permit must be obtained for any work being done in our service area that may impact our sewer lines. Here is a list of Permit Types:

- Disconnect
- Reconnect
- Repair
- Septic Tank Conversions
- Sprinkler Systems

PLAN REVIEWS

If any improvements are planned for any residential or commercial property, that lies within our district, a Plan Review Permit will be required. This includes the addition of pools, decks, garages, as well as any new structures.

All permits will require an inspection. A 24 hour notice is required for all inspections.



MOVING??

Any property that lies within our service area will require a **closing letter**, prior to the close of a property.

VISIT OUR WEBSITE AT:
www.flaggcreekwrd.org

- | | |
|----------------------|------------------------|
| ☞ Billing Inquiries | ☞ View Account History |
| ☞ Enroll in Auto Pay | ☞ Permit Fee Schedule |
| ☞ Closing Letters | ☞ Go Paperless |



Flagg Creek Water Reclamation District

Flagg Creek Water Reclamation District (FCWRD) is a local government entity whose primary purpose is wastewater treatment. It's service area is approximately 24 square miles, which includes portions of 11 communities. Those communities are Hinsdale, Oakbrook, Oak Brook Terrace, Burr Ridge, Darien, Clarendon Hills, Willowbrook, Westmont, Elmhurst, Villa Park and Lombard. The population of our service area is approximately 80,000 people.

SEWERS

We maintain most of the sewers in our service area and perform maintenance on a regular basis. We are always making improvements and upgrades to our sewer mains and lift stations, as well as at our treatment plant.

PLANT

The John McElwain Water Reclamation Plant is a tertiary treatment facility that has a design capacity of 30 million gallons of wastewater per day (MGD). The plant has an average flow of approximately 12 million gallons per day (MGD).

FCWRD Board of Directors

Flagg Creek Water Reclamation District is governed by a Board of Directors, comprised of three (3) trustees. These trustees are appointed by State of Illinois Senators and Representatives within the District's service area. There are 36 full time employees at the plant and front office.

MAP OF SERVICE AREA

