

Key Findings from Individual Interviews

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South Dearborn Regional Sewer District

- Original wastewater treatment plant built in the late 1970's with major expansion in 1997-98.
- The Lawrenceburg Distillery (LDI) uses ph neutralization as pre-treatment.
- The SDRSD plant is a contact stabilization plant. Their biggest concern is managing ammonia, as the plant is not designed to treat for ammonia. Using an activated sludge process would increase ammonia removal, but would decrease BOD removal to a capacity of 40 lbs per cubic foot
- Capacity is 6 MGD, and average daily flow is 3.6 MGD
- No plant expansion is planned at this time
- The individual communities on the sewer board are responsible for their individual collection systems and any expansion of these collection systems



South Dearborn Regional Sewer District

Aurora

- All the sewer expansions installed in Aurora since 1995 have been force mains
 - reduce disruption and the impact on existing homes
 - cost is much lower
- Aurora will be re-upping its NPDES permit soon
- The force main to SDRSD's plant is being planned for a 16" replacement
 - can accommodate 2500 gpm (in contrast to the existing two 8" mains that can carry 1100 gpm if both are functioning)
- The most recent development has occurred in Dutch Hollow, southwest of Aurora, and includes 90 to 100 homes
- Aurora's two SSOs are to be eliminated by October 2010
- Aurora is working with County and OKI to complete GIS mapping of system
- Aurora prefers to provide sewer where it provides water



South Dearborn Regional Sewer District Greendale

- Greendale system carries waste from Valley Rural Utilities Company (VRUC). This tie in has been problematic since early 1990s because of VRUC I/I and overflow problems. Other issues of concern include the old Greendale landfill leachate goes to VRUC then to Greendale and SDRSD. In 2007 a 30 year agreement between Greendale and VRUC was entered.
- PriPak, a bottling operation for energy drinks, has a pretreatment issue involving grease and oil in lift station – probably line lube material violating pretreatment plan.
- The last major city annexation occurred in 1997.
- 99.9% of homes in Greendale are on central sewer.
- Would like to have an indication of relative priority for on site septic problems.
- City has fixed a number of failing septic tanks on Oberting Road and SR #1.



South Dearborn Regional Sewer District - Greendale Valley Rural Utility Company

- VRUC took over the Utility Co. in 1995 from HVL Inc.
- Hidden Valley Lake collection system was built in/around 1972 (8"-10"-12") predominately clay (80%) and plastic (20%)
- Since originally constructed, repairs have been made reducing clay to 60%
- The WWTP was built around 1972 and decommissioned in the 80s because lacked adequate capacity (for growing development). Since sometime in the 80s the Utility has contracted with Greendale.
- There are I/I problems
- A USDA loan has been applied for to rehab the whole system, including replacing clay tile and repairing lift stations. The rehab will be phased over an approximate 3-4 years. Closing for USDA will be sometime in the next month or two.
- Peak flows are 3-4 times (1.2 MGD) an average daily flow (.4 MGD).
- Around 1000 HVL lots left undeveloped. 1850 homes currently exist. Floyd thinks 2,000 homes is the maximum based on topography and homes built on multiple lots.



South Dearborn Regional Sewer District

Lawrenceburg

- Lawrenceburg has spent \$33 million on water and wastewater infrastructure improvements since 2002, including building a new water plant that went on line in 2004, eliminating all CSOs and SSO, and rebuilding all the sewage lift stations.
- I/I issues exist along Ludlow Hill off of SR48 and Bielby Road because of old clay pipe dating to the 1950s and 1960s and will be re-lined if possible; otherwise they'll be replaced with PVC pipe.
- Most of Lawrenceburg's sewer lines are gravity lines; the only major low pressure line runs along St. Rte. 48 to 3 Mile Road and Horizonway which feeds into a lift station,
- Lawrenceburg has recently annexed about 77 acres between Wilson Creek Road and Florence Drive, which will be sewerred.
- Areas of possible expansion for Lawrenceburg's sewer collection system would be out State Routes 48, 148, and 350, all the way to Manchester Township to deal with failing and failed systems septic systems.



Dillsboro

- The collection system dates back to mid 1960's
- The current waste water treatment plant was constructed in 2006.
- The Town has some I/I problems due to basement drains that were hooked onto the sewer system when the system was built.
- The plant's design capacity is 0.500 MGD and the 2009 average daily flow was .1495 and currently is using 1 of 2 oxidation ditches.
- The system has 507 existing customers (connections) and estimates 510 customers (connections) in 2010.
- There are 120 lots planned by a developer north of Dillsboro.
- The 2030 projection is for 600 connections.
- Expect growth to east due to US 50 corridor (and 262 south) and failing systems.
- DCRSD is planning to sewer Lake Dilldear and send a line to Dillsboro.



LMH

- LMH came into being in 1986 and underwent a recent expansion and upgrade from 0.300 MGD to 0.500 MGD and there are currently no expansion plans for the future.
- There is a force main planned along Stateline Road between White Ridge Road and Bond Road.
- The system has no CSOs or SSOs. The oldest part of system is trunk line and has some I/I which will be investigated this fall
- The maximum daily flow of 0.293 MGD are from months of April/May/June.
- LMH anticipates growth and development in NE quadrant of the County in Logan, Harrison, Miller townships.



Moores Hill

- All existing main lines totally replaced in an effort to eliminate I/I.
- New main lines not totally successful in eliminating I/I; determined existing 1964 plant needed to be replaced.
- New plant will be on line in June/July of 2011. Also redoing lift station at Main and SR350. Will seek funding to increase capacity from 0.105 to 0.200 MGD.
- Oxidation ditch for sludge management
- Current flows are 0.040 with a 0.250 maximum flow
- The school is the biggest customer
- Existing 262 customers with 220 connections
- Future land use – some commercial, mostly low density residential and agricultural



St. Leon

- West Harrison TIF area is anticipated to be served by St. Leon
- Another TIF district is within Town corporate boundary – commercial zoning
- 2007-08 prepared plans to expand plant – June 2007 received construction permit
- Non-residential assumptions/commercial/light industrial
- DCRSD could be a master meter customer and would own their own lines
- Working with DCEDI on an economic development study for SR 1 and I74 vicinity
- New zoning ordinance underway
- 100,000 gpd for commercial/industrial assumed for current expansion plan
- No CSOs or SSOs – no pretreatment users
- Unique users include:
 - Higher Ground Conference Center (20,000 guest per year)
 - North Dearborn School facilities



Unique Users Exercise

Group Discussion

