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CHARLOTTE-MECKLENBURG
UTILITIES

Wastewater Performance Report

July 1, 2007 – June 30, 2008

Charlotte-Mecklenburg Utilities

5100 Brookshire Blvd.

Charlotte, NC 28216

Phone: (704) 399-2221 Fax: (704) 393-2219

www.cmutilities.com

I. General Information

Name of Regulated Entity and Responsible Person:

City of Charlotte
Barry Gullet, Deputy Director
Charlotte-Mecklenburg Utilities
Administration Division
5100 Brookshire Blvd.
Charlotte, NC 28216
(704) 399-2221

Applicable Permits:

There are five wastewater treatment facilities owned and operated by Charlotte-Mecklenburg Utilities. Below is a list of these facilities and their applicable NPDES (National Pollutant Discharge Elimination System) permit number. Included with the list of facilities is the name of the Operator in Responsible Charge (ORC) at the facilities and the site telephone numbers.

<u>WWTF</u>	<u>NPDES Permit Number</u>	<u>ORC</u>	<u>Phone</u>
Irwin Creek WWTP	NC0024945	Michael Lingerfelt	704-357-1344
Mallard Creek WRF	NC0030210	Darrell DeWitt	704-547-0680
McAlpine Creek WWMF	NC0024970	Sandy Kim Neely	704-542-0736
McDowell Creek WWTP	NC0036277	Elliott E. Goins, Jr.	704-875-6443
Sugar Creek WWTP	NC0024937	Roy E. Purgason, Jr.	704-553-2124

In addition to those five plants, Utilities sends wastewater to the Rocky River Regional Wastewater Treatment Plant through an agreement with Cabarrus County. Utilities also accepts flow from Union County to McAlpine Creek WWMF.

<u>WW COLLECTION</u>	<u>NCDWQ Permit Number</u>	<u>ORC</u>	<u>Phone</u>
4100 W. Tyvola Road	WQCS00001	Tony Dubois	704-432-3779

Please note the 704-357-6064 number is no longer in use. Customers are encouraged to call 311 (or 704-336-7600) if they suspect a wastewater overflow.

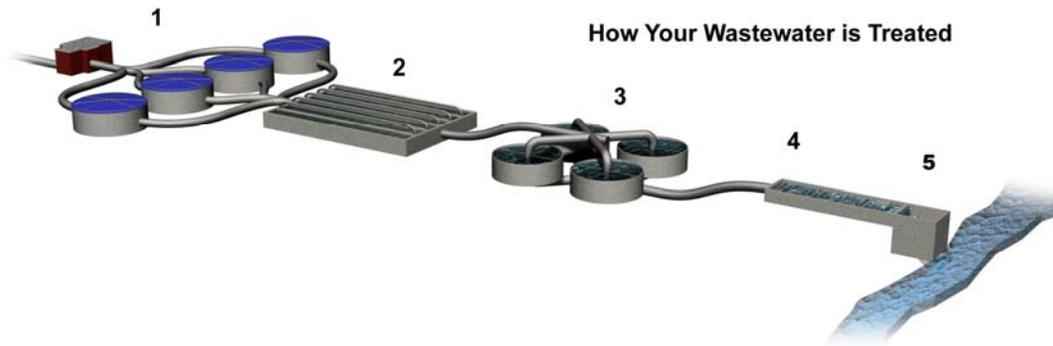
Description of collection and treatment systems:

Charlotte-Mecklenburg Utilities collects wastewater from an estimated 222,887 connections to households and businesses throughout the county. Wastewater is collected and directed (via gravity flow supported by sewage lift stations) to one of five wastewater treatment plants where it is treated. An average of 78.4 million gallons of wastewater is treated and discharged each day.

More than 150 employees work to maintain 3,942 miles of collection pipelines and 74 sewage lift stations throughout the county. The gravity sewer pipes in this system range in size from 8 inches in diameter to 78 inches in diameter.

Each of the wastewater treatment plants provides primary, secondary and advanced treatment to the waste stream. Large solid particles and inorganic materials are removed by screening and settling. The wastewater is treated biologically to remove dissolved pollutants. Disinfection

reduces bacterial and pathogenic materials. Finally, the waste stream passes through sand filters to remove very small particles that may not have been removed through the settling process.



1. Primary Treatment

Solid particles & objects are captured in grit screens and primary clarifiers.

2. Aeration/Secondary Treatment

Wastewater is aerated to support growth of microorganisms that remove harmful pollutants.

3. Clarification

Solids and microorganisms settle out in large basins.

4. Advanced Treatment

Wastewater flows through sand filters to remove fine particles.

5. Disinfection

Water is disinfected to remove any remaining pathogens, and then the water is released back into creeks to flow downstream.

II. Summary of System Performance

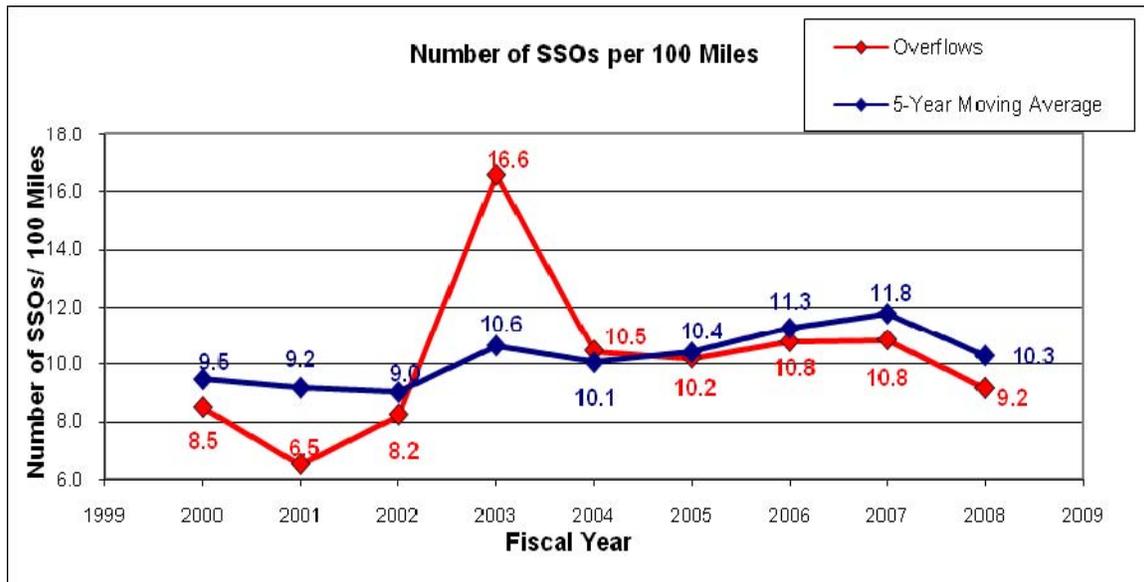
How did we do?

We are meeting all reporting deadlines and requirements of the federal EPA Administrative Order to reduce spills, and the EPA approved two of our key reports regarding our *Sewer Capacity Assurance* and *Fats, Oils and Grease* prevention programs.

We successfully collected and treated more than 28.7 billion gallons of our community's wastewater (99.9982 percent success rate).

There were 362 overflows in our community during the 2008 fiscal year. This is a decrease of 59 spills compared to the year before (421). Stated another way, it is approximately nine spills per 100 miles of pipe in the ground overflowed from the collection system this year as illustrated by the table below.

Annual Overflows Per 100 Miles of Pipe



The volume of wastewater that overflowed decreased from 1,638,445 gallons in fiscal year 2007 to 505,568 gallons in fiscal year 2008. The volume of wastewater that reached surface waters also decreased from 1,595,219 gallons in fiscal year 2007 to 378,973 gallons in fiscal year 2008.

Utilities works 24 hours a day, 365 days per year to prevent and respond to overflows. Crews prevent overflows by clearing pipes of tree roots and grease, as well as replacing broken and aging pipes. Utilities has also increased its efforts to educate customers about properly disposing of oils and grease.

Highlights

Charlotte-Mecklenburg Utilities celebrated some important milestones even as it took numerous actions to prevent overflows and protect water quality through effective wastewater treatment.

- Our wastewater treatment plants met 99.92 percent of all permitted discharge limits.
- Charlotte-Mecklenburg Utilities won the Green Nonprofit Business Award and Green Commercial New Construction Project Award from The Charlotte Business Journal and Centralina Council of Governments. Utilities also received a Centralina Council of Governments Region of Excellence Award in Environmental Planning and Conservation for the department's commitment to the environment and sustainable business practices.
- The Environmental Services Facility was completed. The building provides office and laboratory space for Environmental Management and Laboratory Services.

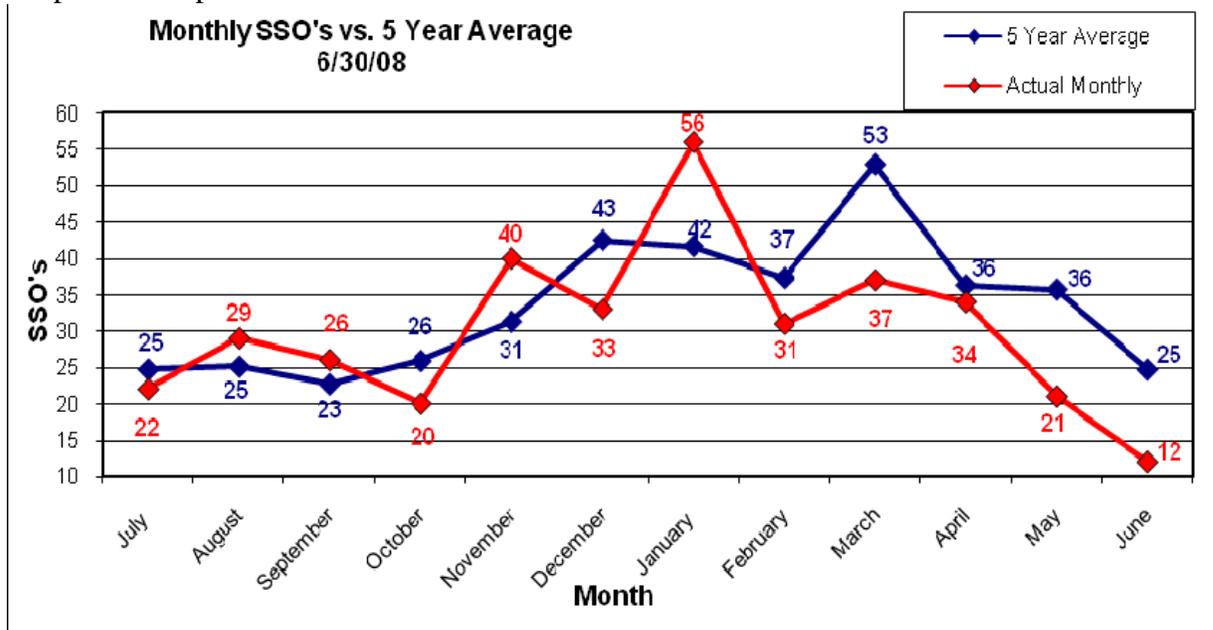
Utilities is seeking LEED certification which would make it the first City government building to be certified.

- Mallard and McDowell Creek Wastewater Treatment Plants received Peak Performance Gold Awards from the National Association of Clean Water Agencies (NACWA) for the calendar year ending 2007. Each plant had 100 percent perfect compliance with their permit requirements. Sugar and McAlpine Creek Wastewater Treatment Plants earned NACWA Silver Award for outstanding compliance.
- 9.3 miles of sewer pipe and 200 manholes were rehabilitated or replaced. An additional one million dollars was added to the annual funding for sewer pipe rehabilitation and replacements. The fund is now \$11 million a year.
- 284.09 miles of sewer pipe were treated with root control chemicals.
- 851 miles of sewer lines were cleaned (including some multiple cleanings in the same location) by Field Operations and 10.6 miles of large diameter pipe were cleaned by contractors.
- 210.8 miles of rights of way were cleared by Field Operations and contractors.
- The Critical Asset Team added 274 new critical assets to a database of manholes, pipes, and aerial crossings. Eighty four (84) assets were repaired, decommissioned, or removed from critical designation. The total number of critical assets scheduled for frequent inspections now totals 580 assets. Since July 1, 2007 the Critical Asset Team has inspected 963 assets.
- Utilities searched areas that are suspected to be subject to overflows to identify eminent overflows. These inspections are finding a substantial number of slow-flowing lines, back-ups in manholes, and other situations that, had our crews not located and corrected them, would have eventually developed into overflows. Approximately 30 such situations were located and corrected by inspecting 16,133 manholes.
- Contract resources were arranged to allow for quicker response to collection system deficiencies discovered by our Field Operations Division. This change will allow the more efficient and uninterrupted progression of the rehabilitation of the prioritized sewersheds, while allowing expeditious repair of high priority defects found by inspections or other routine work. This contract was awarded February 11, 2008 in the amount of \$489,900. During this period, seventeen projects have been completed with the majority of the projects correcting collection system problems that previously caused SSOs.
- Utilities increased the funding for cleaning equipment to allow the purchase of eight (8) new jet/vactors. Seven vactors will replace aging equipment and one additional vactor will increase our fleet to 12 vactors.
- Utilities investigated the use of aerial infrared photography of our wastewater collection system as an inspection tool which could pinpoint exfiltration and other problems such as missing manhole covers. A test of aerial infrared inspection was conducted for a pilot area. Field verification of the hotspot indications followed. Some wastewater collection system deficiencies and failed septic fields were found. All were of benefit to water quality.
- Utilities is leading the development of a new city-wide Work and Asset Management (WAM) Program. The WAM project team, comprised of a broad cross-section of city management and other staff along with an internationally recognized asset

management consultant, has recommended the selection of a WAM software solution vendor and is currently in contract negotiations with the vendor. Pending approval of the multi-phase solution and implementation contracts by City Council, implementation of the program (software and processes) is to begin in the fall 2008. Utilities Field Operations Division is one of the top WAM implementation priorities for the City.

- Utilities has contracted for a physical survey of the entire wastewater collection system, including inspection of manholes and any exposed piping. This multi-year project is estimated to cost more than \$5,000,000. The project is collecting data that will be used as part of the foundation of a new geographic information system (GIS) and for hydraulic modeling that is needed for planning and implementation of the capacity assurance program discussed earlier. The data being collected includes manhole locations, flowline elevations, pipe sizes, construction materials, and other information. This survey is approximately 45-55% complete.
- Utilities continued contracting for biological grease treatment in a pilot area of the collection system. Preliminary evaluations of the treatment look promising. Within the treated collection system flowing into one of Utilities' lift stations that had been accumulating grease in the wetwell, no overflows have occurred since the treatment began in March 2007. Utilities is preparing to renew the biological grease treatment contract.
- The Mallard Creek Water Reclamation Facility passed ISO 14001:2004 certification for a second year. The international certification focuses on minimizing negative impacts on the environment and was a collaborative effort among many employees from Environmental Management and System Protection. This is the first City of Charlotte government facility to earn this prestigious certification and serves as a model as we seek future certification at other wastewater plants.
- Utilities reclaimed water program continues to operate. Reclaimed water is highly treated wastewater effluent that is land applied, rather than being discharged into the creek. The Tradition Golf Course is using up to 500,000 gallons a day during spring and summer time. Additional customers may be added in fiscal year 2009.
- There were 74 Wastewater Lift Stations serving our low-lying areas. Staff performed 77 preventative maintenance tasks for a total of 1140 work hours. This does not include twice weekly station checks, wet well cleaning, emergency generator testing, or emergency/routine repairs.
- All lift stations were connected to an automated polling system which contacts each station every 30 minutes. This ensures the phone systems are working so that high water and other alerts can be sent from the station's computers to staff. Before this upgrade, staff would manually call each station twice a day to verify phone service was connected.
- McDowell Wastewater Treatment Plant completed its expansion to 12 mgd capacity in early fiscal year 2008. The average daily flow was 4.5 mgd.
- Briar Creek and McAlpine Creek Relief Sewer projects began construction in fiscal year 2008. Both are more than 40% complete.
- Sugar Creek Pump Station project is 90% complete.

- McAlpine Creek Wastewater Management Facility completed the consolidated influent pumping facilities project and primary treatment improvements and effluent filter rehabilitation project.
- Last year's frequency of sewer spills was below the 5-year average in eight of the twelve months. This may suggest that our additional sewer line cleaning, pipe rehabilitation/replacement efforts, capital improvements, root control, grease disposal education and enforcement along with other operational enhancements have begun having a positive impact.



Sample of billboard

- City staff inspected grease-handling facilities at 4,504 food service establishments and restaurants (not including follow-up inspections) to ensure proper grease disposal. The City continued its Grease Free education program to teach proper disposal of a pipe-blocking menace. Inspectors mailed information to more than 6,432 customers and handed out information to 8,273 customers in apartments / multi-family complexes. Staff conducted 115 presentations to 4,707 children and adults. Some of the key presentations were; 15 apartment property managers, two training classes for apartment plumbers, and presenting to the plumbers association. Billboards were also used to remind customers not to put grease down the drain.

- Utilities added two Closed-Circuit TV (CCTV) inspection vehicles and upgraded its TV inspection software. These additional CCTV inspection crews provide quality control and quality assurance for collection system cleaning programs and proactively locate pipe deficiencies. To assure deficiencies found are repaired within performance goal parameters, Utilities is supplementing its Field Operations forces with a point repair / rehab contract.

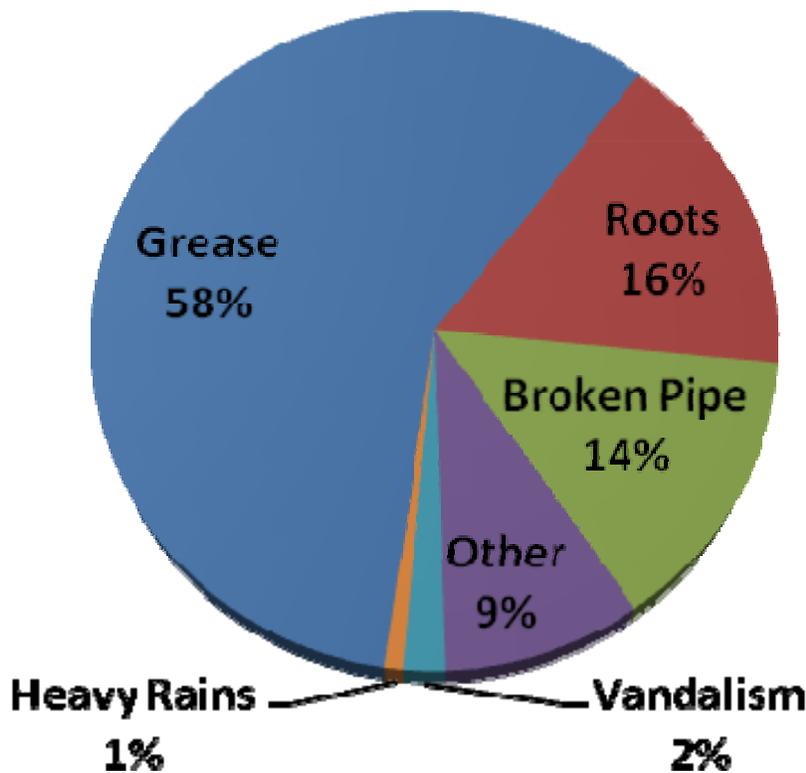
Continuing Challenges

Wastewater Collection Challenges

The greatest continuing wastewater challenge in this community – and in others across the U.S. – is sewage overflows. During the fiscal year ending June 30, 2008, Utilities reported 362 sewage spills from the collection system totaling 505,568 gallons spilled (378,973 gallons reached surface waters).

Of the 362 sewer spills that occurred, more than half were due to hardened grease clogging pipes and backing up the system. Other spill causes included the infiltration of tree roots into pipes, vandalism, general debris, and broken pipes.

Fiscal Year 2008 Overflows by Primary Cause



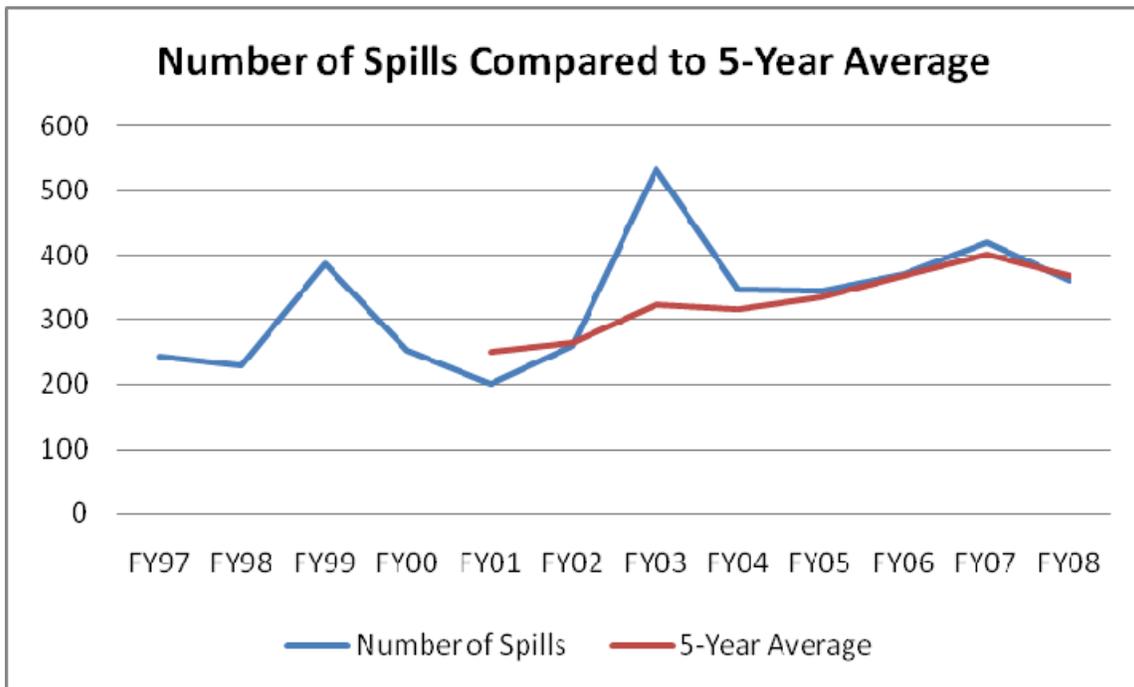
* Three of the spills listed ‘broken pipe’ and four listed as ‘other’ were also partially due to contractor error.

Grease and other blockages that lead to sewer overflows are cleared by Utilities crews, using various cleaning methods, including mechanical rodders and truck-mounted water jets. If damaged pipe or other infrastructure is discovered it is repaired. The spilled sewage can sometimes be captured and pumped back into the sewer system.

Inspection crews and our customers find overflows. Reports of overflows where 1,000 or more gallons reach surface waters are distributed to the media in an effort to notify the public. A legal notice is posted when overflows of 15,000 gallons or more reach surface waters. Crews also use door hangers to notify customers when appropriate.

Charlotte-Mecklenburg Utilities continues its excellent sewage spill response record. Our wastewater collection staff response time averaged 35.8 minutes to all overflows as of June 30, 2008. Staff responded to over 92.8 percent of the spills in fewer than 60 minutes. This compares to a state response standard of 120 minutes or less.

The five-year moving average now stands at 368 collection system spills per year (from fiscal year 2004 to present- fiscal year 2008).



Utilities tracks, trends, and analyzes the effectiveness of its efforts in reducing SSOs. On a monthly basis Utilities studies SSOs trends, including: a comparison of the current month’s SSO total and SSOs experienced the same month during the previous year, SSOs per 100 miles of pipe, SSOs versus the five year average number of SSOs, and SSO volume.

Each year staff reviews and audit spills. During this review, Utilities staff found one spill, with more than 1,000 gallons reaching the creek, which was communicated to the state but was not communicated to the media. This spill was near 10101 David Taylor Drive on April, 15, 2008.

An estimated 1,500 gallons spilled and reached a Mallard Creek tributary. Steps were taken to prevent this communication error from occurring in the future.

U.S. Environmental Protection Agency (EPA) Administrative Order Update

Charlotte-Mecklenburg Utilities performed a voluntary sewer system audit in 1999-2000 at the EPA's request. During 2003, frequent heavy rains contributed to Charlotte's worst year of wastewater overflows. At that point the EPA and Utilities met several times to review the audit and actions taken since 2000. Utilities also worked with North Carolina Department of Environment and Natural Resources (NCDENR) to receive a state collection system permit.

In March 2007, the U.S. EPA issued a formal Administrative Order for Charlotte-Mecklenburg Utilities. This Administrative Order is a regulatory enforcement action that includes a series of steps Utilities must take to reduce overflows in our community. These steps included paying a fine for past spills and assuring that certain construction projects would be completed on time. The administrative order will help guide our ongoing efforts to address a community problem we've been working on for many years. Utilities will continue to update the EPA on its progress.

Charlotte is the first major city in the Carolinas to face EPA enforcement as it relates to overflows. Quite a few other communities in the southeast, including Atlanta, Mobile and Knoxville have already received a much more severe EPA enforcement action known as a judicial Consent Decree.

Preventing sewer spills has been a high priority in Charlotte-Mecklenburg for many years now. The administrative order will help further guide our ongoing efforts to address a community problem. We have increased preventative line maintenance, capital improvements and other programs.

The EPA's and our goal for overflows is zero. Reality is that a system our size will always have some overflows, but we agree even one spill is too many. Zero spills continue to be our standard and goal in Charlotte-Mecklenburg.

Wastewater Treatment Plant Challenges

Charlotte-Mecklenburg Utilities five wastewater treatment plants met 99.92 percent of all discharge limit tests set forth by our NPDES permits but our commitment is 100 percent compliance. Staff continues to improve maintenance capabilities and overall performance. Major rehabilitation and improvement projects help maintain compliance. Future upgrades and expansions are being added.

During this fiscal year there were 6 permit limit violations out of a potential of 7,357 compliance tests.

One significant bypass was caused by an electrical switch failing at the Mallard Creek Wastewater Treatment Plant (12400 Highway 29 North) on 2/26/2008. An estimated 400,000 gallons bypassed into Mallard Creek without the final stage of treatment, ultra-violet disinfection. Crews responded to the spill within 10 minutes and took appropriate cleanup/repair action. No dead fish were found associated with this bypass.

On March 4, the plant experienced another electrical problem related to the earlier release. As a result 80,000 gallons of mostly treated wastewater was released. Crews rewired part of the power supply and added back-up power as a permanent repair to both problems. In both cases, the water was more than 90% treated and only missed the final stage of treatment, Ultra-Violet Disinfection. Although these 'bypasses' are not considered a sewer spill by the state, Utilities believes it is in the public interest to disclose them.

There were six other unintended bypasses and staff notified NCDENR of each in a timely manner. One allowed more than one thousand gallons to reach surface water. On July 20, 2007, the McAlpine Creek WWMF had 1,000 gallons (of 5,000 gallons) reach McAlpine Creek. The cause of this bypass was due to an automated control switch failing to shut off. Crews responded immediately and repaired the switch.

Our pretreatment program, recognized by NCDENR as most commendable in 2007, has identified, permitted and regulated large industrial users and others to keep unsuitable discharges out of the wastewater system. While industrial compliance is extremely high in Charlotte-Mecklenburg, identifying other potentially hazardous discharge sources is an ongoing challenge. In fiscal year 2008, the Trunkline Monitoring and Grease Free programs continued, enabling Utilities System Protection and Water Quality staff to closely observe what industrial and commercial customers discharge into the sewer network and to identify potential problem areas to protect the collection system and plants.

Wastewater Capacity Needs

In 2007 a study of the McAlpine, Irwin and Sugar creek basins was completed to help identify our community's future wastewater treatment capacity needs through the year 2030. Two of the larger, near-term projects include an expansion at the Sugar Creek Wastewater Treatment Plant and a new regional wastewater treatment plant along the Catawba River, near its intersection with Long Creek. Both projects will take years and tens of millions of dollars to complete, and stakeholder input and sustainable design practices are critical components of each. Stakeholder meetings for both Long Creek and Sugar Creek were completed during the past year and helped project schedules stay on course. We are currently finishing up an *Environmental Impact Study* for the Long Creek plant, and wrapping up an *Environmental Assessment* for the Sugar Creek plant expansion. As we proceed with the wastewater master plan, we will remain challenged to address environmental and regulatory needs while designing sustainable facilities and staying within budget, given all the construction cost increases we are experiencing. On another note, the drought and water conservation have resulted in lower-than-projected flow rates at our wastewater plants, and it is unclear yet whether these patterns will persist over time such that wastewater capacities may be extended further than we originally projected.

The sections following this page – Sections IIA and IIB -- detail all spills from the collection system and plants, along with plant permit limit violations and monitoring and reporting violations. Section IIA includes spills for the fiscal year ending June 30, 2008 and is separated by month. These include size of spills, their cause and descriptions of any known environmental impact.

The second section, Section IIB, represents NPDES reporting and monitoring violations and is separated by plant.

III. Notification

This report is available to the users or customers of this system by clicking on the 'publications' link of the Charlotte-Mecklenburg Utilities homepage at www.cmutilities.com. There are also printed copies available at the Charlotte-Mecklenburg Utilities Administration Building at 5100 Brookshire Blvd., Charlotte, NC 28216, and at the City/County Customer Service and Information Center at 600 East Fourth Street, Charlotte, NC 28202. The users or customers of this system will receive a summary version of this report and will be notified of the availability of this comprehensive version via a bill insert in the September water/sewer bill. A news release will be issued before September 1 about this report. In addition, the summary version will be translated into Spanish and advertised during the month of September in a regional Spanish-speaking newspaper. We will also make this Spanish version available via our website.

IV. Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.



Barry Gullet, Deputy Director
Charlotte – Mecklenburg Utilities

8/26/2008
Date

IIA. Listing of Sewer Spills by Month

The following is a list of spills (in gallons) from the public wastewater system that occurred between July 1, 2007 and June 30, 2008. Most occurred from the wastewater collection system. Spills that occurred at wastewater plants are noted in the address.

July	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type		Cause of Spill / Bypass
07/02/2007	63	0	Irwin Creek	0	4020	Rozzelles Ferry	Rd	Tree Roots
07/03/2007	900	810	Little Sugar Creek	0	6701	Woodstock	Dr	Vandalism
07/07/2007	2,250	1,500	Sugar Creek	0	5815	Nations Ford	Rd	Tree Roots
07/08/2007	465	465	Briar Creek Tributary	0	2965	Dunlavin	Wy	Broken Pipe
07/10/2007	68	0	Lake Norman	0	19446	Peninsula Shore (Cornelius)	Dr	Broken Pipe, Contractor Ran Over Box
07/10/2007	1,395	1,395	Campbell Creek	0	6806	Campbell Burn	Ct	Grease
07/10/2007	58	58	Little Sugar Creek	0	1924	Umstead	St	Grease
07/10/2007	360	360	Briar Creek	0	3622	Denson	Pl	Broken Pipe
07/11/2007	100	0	McAlpine Creek	0	355	Trafalgar	Pl	Grease
07/13/2007	1,500	1,500	Little Sugar Creek	0	3401	Driftwood	Dr	Grease
07/13/2007	162	162	Irwin Creek Tributary	0	3009	Bellaire	Dr	Grease
07/13/2007	5,000	5,000	Campbell Creek Tributary	0	6050	Hickory Grove	Rd	Grease
07/17/2007	450	450	Briar Creek	0	4847	Eaves	Ln	Grease
07/18/2007	222	222	Four Mile Creek	0	341	Alexander	St	Broken Pipe
07/19/2007	32	32	Briar Creek	0	3846	Barclay Downs	Dr	Tree Roots
07/21/2007	180	180	Briar Creek Tributary	0	3622	Denson	Pl	Broken Pipe
07/21/2007	305	0	Toby Creek	0	10929	Bonnie Cone	Ln	Vandalism
07/22/2007	35	35	McMullen Creek	0	3615	Pick Wick	Ln	Tree Roots
07/23/2007	240	120	Irwin Creek Tributary	0	4727	Belmar	Pl	Broken Pipe
07/24/2007	18	0	Irwin Creek	0	1824	West	Bv	Grease
07/24/2007	2,250	2,250	Briar Creek	0	1244	Morningside	Dr	Broken Pipe
07/31/2007	1,050	1,050	McAlpine Creek	0	7221	Carosan	Ln	Grease
TOTAL	17,103	15,589						

SPILLS 22		
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August	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type		Cause of Spill / Bypass
08/01/2007	1,950	1,950	Irwin Creek	0	1800	West	Bv	Other, Debris
08/03/2007	1,312	1,312	Briar Creek Tributary	0	4215	Foxford	Pl	Broken Pipe
08/03/2007	120	120	Upper Little Sugar Creek	0	6500	Tryon (North)	St	Grease
08/06/2007	500	500	Long Creek Tributary	0	8000	W.T. Harris (West)	Bv	Broken Pipe
08/06/2007	11,125	11,125	Taggart Creek	0	2818	Queen City	Dr	Grease
08/06/2007	19	0	McAlpine Creek	0	6204	Sellars	Ct	Grease
08/07/2007	30	0	Doby Creek	0	7800	IBM	Dr	Broken Pipe, Contractor
08/07/2007	750	0	Irwin Creek	0	4731	Ashley	Cr	Tree Roots
08/08/2007	15	0	Briar Creek Tributary	0	3622	Denson	Pl	Broken Pipe
08/09/2007	500	0	Rocky River	0	8735	Carolina Lily	Ln	Broken Pipe
08/09/2007	48	48	McAlpine Creek	0	8315	Rust Wood	Pl	Grease
08/11/2007	400	400	Little Sugar Creek	0	3200	Park	Rd	Grease
08/13/2007	60	30	Upper Little Sugar Creek	0	1415	Princeton	Av	Broken Pipe
08/14/2007	335	335	Four Mile Creek	0	9612	Leaf Arbor	Ln	Grease
08/14/2007	150	150	Briar Creek Tributary	0	1432	Shannonhouse	Dr	Other, Debris
08/15/2007	1,350	1,350	Campbell Creek	0	5401	Albemarle	Rd	Grease
08/17/2007	60	0	Unnamed Tributary	0	11328	Rozzelles Ferry	Rd	Other, Debris
08/17/2007	120	120	Little Sugar Creek	0	2221	Wensley	Dr	Broken Pipe
08/17/2007	440	440	Taggart Creek	0	2828	Queen City	Dr	Other, Debris
08/18/2007	220	0	Irwin Creek	0	2632	Coronet	Wy	Grease
08/19/2007	90	0	McAlpine Creek	0	416	Chadmore	Dr	Tree Roots
08/20/2007	3,000	3,000	Upper Little Sugar Creek	0	3509	Frew	Rd	Other, Debris
08/24/2007	31	0	McAlpine Creek	0	427	Whitestone	Rd	Grease
08/25/2007	1,880	1,880	Briar Creek	275	4009	Craig	Av	Grease

08/25/2007	3,250	2,925	Four Mile Creek Tributary Creek	0	8600	Rea	Rd	Grease
08/26/2007	240	240	Little Sugar Creek	0	2631	Pine (North)	St	Tree Roots
08/29/2007	144	144	Irwin Creek	0	801	Holland	Av	Other, Debris
08/30/2007	130	0	Sugar Creek	0	3600	Rodwell	Rd	Other, Debris
08/31/2007	54	54	Four Mile Creek	0	11200	Quiet Wood	Ct	Grease
08/31/2007	496	0	Briar Creek	0	4213	Vinetta	Ct	Tree Roots
TOTAL SPILLS 30	28,819	26,123						

September	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
09/03/2007	2,400	2,400	Briar Creek Tributary	0	424	Eastover Rd	Grease
09/04/2007	14,014	13,313	Clems Branch Creek	250	26251	Camden Woods-Clems Liftstation Rd	Other, Debris
09/05/2007	870	435	Little Sugar Creek	0	900	Kings (South) Dr	Grease
09/08/2007	105	105	Stewart Creek	0	336	Cromer St	Tree Roots
09/08/2007	750	750	Briar Creek	0	220	Vickery Dr	Grease
09/08/2007	240	240	Little Sugar Creek	0	1017	Spruce St	Grease
09/09/2007	350	350	Briar Creek	0	3721	Havenwood Rd	Grease
09/11/2007	1,050	1,050	Briar Creek	0	2321	Sharon Rd	Broken Pipe
09/11/2007	750	750	Sugar Creek	0	1908	Berryhill Rd	Grease
09/13/2007	62	45	Briar Creek	0	4918	Park Rd	Grease
09/13/2007	546	546	Clarks Creek	0	9927	White Cascade Dr	Tree Roots
09/14/2007	1,640	1,640	Briar Creek Tributary	0	214	Vickery Dr	Broken Pipe
09/15/2007	650	0	Catawba River	0	1108	Ballina Wy	Vandalism
09/16/2007	625	625	Mallard Creek Tributary	0	10225	Lampkin Wy	Grease
09/16/2007	131	0	McAlpine Creek Tributary	0	5133	Camilla Dr	Tree Roots

09/17/2007	45	0	Briar Creek	0	2245	Colony	Rd	Grease
09/17/2007	1,470	1,470	Briar Creek	0	4612	Perth	Ct	Grease
09/17/2007	51	41	Irwin Creek	0	2310	Morton	St	Grease
09/18/2007	38,400	27,800	Toby Creek	0	10929	Bonnie Cone	Ln	Vandalism
09/21/2007	700	350	Taggart Creek	0	2510	Bellamy	St	Grease
09/22/2007	420	420	Briar Creek Tributary	0	2700	Eastway	Dr	Grease
09/24/2007	300	300	Sugar Creek	0	517	Kenlough	Dr	Grease
09/25/2007	450	450	Torrence Creek	0	12624	Bradford Hill	Ln	Grease
09/27/2007	96	96	Irwin Creek	0	2623	Double Oaks	Rd	Grease
09/29/2007	16	0	Four Mile Creek	0	1000	Chelsea	Pl	Tree Roots
09/29/2007	6	6	Irwin Creek Tributary	0	100	Linwood (North)	Av	Grease
TOTAL SPILLS 26	66,137	53,182						

October	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type		Cause of Spill / Bypass
10/01/2007	810	810	McAlpine Creek	0	7520	Dorn	Cr	Tree Roots
10/01/2007	216	0	Four Mile Creek	0	6512	Springs Mill	Rd	Other, Debris
10/08/2007	24,800	24,800	Briar Creek	0	2523	Arnold	Dr	Grease
10/08/2007	240	240	McAlpine Creek	1076	6101	Old Providence	Ln	Other, Debris
10/09/2007	306	0	McMullen Creek	0	9032	Fishers Pond	Dr	Grease
10/10/2007	320	320	McAlpine Creek Tributary	0	8401	Dunsinane	Dr	Broken Pipe
10/11/2007	60	60	Irwin Creek	0	701	Seaboard	St	Broken Pipe
10/12/2007	180	180	McAlpine Creek	0	5315	Stallworth	Dr	Grease
10/15/2007	60	6	McMullen Creek	0	11501	Park	Rd	Grease
10/15/2007	181	45	McAlpine Creek	0	300	Mammoth Oaks	Dr	Grease
10/16/2007	182	0	Idlewild Brooke Tributary	0	4901	Rosena	Dr	Grease
10/20/2007	78	78	Upper Little Sugar Creek	0	214	College (North)	St	Grease

			Tributary					
10/21/2007	120	30	McAlpine Creek	0	1001	Court	Dr	Tree Roots
10/22/2007	4,500	4,500	Taggart Creek	0	2812	Alleghany		Grease
10/24/2007	1,110	1,110	Paw Creek	0	1948	Crooked Creek	Dr	Tree Roots
10/26/2007	515	515	McMullen Creek	0	454	Hunter	Ln	Tree Roots
10/27/2007	600	0	Caldwell Station Tributary	0	19842	Coachmans	Tr	Tree Roots
10/28/2007	28	28	Lake Norman	0	17723	Spinnakers Reach	Dr	Broken Pipe
10/29/2007	22	0	Mt Island Lake	0	11840	Mt Island Harbor Brook	Ln	Broken Pipe
10/30/2007	600	600	Little Sugar Creek	0	4755	Hedgemore	Dr	Broken Pipe
TOTAL SPILLS 20	34,928	33,322						

November	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
11/01/2007	150	150	McMullen Creek	0	3400	Tinkerbell Ln	Tree Roots
11/02/2007	520	390	Stewart Creek Tributary	0	6325	Dale Av	Tree Roots
11/02/2007	110	110	Little Sugar Creek Tributary	0	6135	Elgywood Ln	Broken Pipe
11/03/2007	118	118	Kings Branch	0	631	Braxfield Dr	Grease
11/04/2007	2,400	1,200	Briar Creek	0	1600	Fulton Av	Grease
11/05/2007	40	40	Little Sugar Creek Tributary	0	503	Scottsbrook Dr	Broken Pipe
11/06/2007	2,045	2,045	Catawba River	0	1108	Ballina Wy	Grease
11/06/2007	185	0	Stewart Creek	0	100	Judson Av	Tree Roots
11/07/2007	475	0	Irwin Creek	0	1619	Whisnant St	Grease
11/07/2007	4,050	4,050	Little Sugar Creek	0	3726	Tryon (North) St	Broken Pipe
11/07/2007	130	130	Clarks Creek	0	12723	Kane Alexander Dr	Other, Debris
11/07/2007	34	34	McAlpine Creek	0	6500	Providence Rd	Grease

11/07/2007	29	0	McAlpine Creek	0	2813	Lawton Bluff	Rd	Grease
11/08/2007	322	322	McAlpine Creek	0	10001	Independence (East)	Bv	Grease
11/09/2007	29	29	McAlpine Creek	0	3810	Gleneagles	Rd	Grease
11/11/2007	1,200	1,200	Paw Creek	0	7336	Everett	Dr	Broken Pipe
11/11/2007	300	300	McMullen Creek	0	3021	Mountainbrook	Rd	Tree Roots
11/12/2007	12	6	Paw Creek Tributary	0	2301	Rayeclyff	Ln	Other, Debris
11/14/2007	330	330	Little Sugar Creek	0	1500	Harding	Pl	Broken Pipe
11/14/2007	2,400	2,400	Irwin Creek	0	2900	Tacoma	St	Grease
11/16/2007	612	612	Little Sugar Creek	0	1006	Echo Glen	Rd	Tree Roots
11/18/2007	60,000	0	Steele Creek	0	14401	Choate	Cr	Broken Pipe
11/18/2007	38	38	Sugar Creek	0	800	Woodlawn	Rd	Other, Debris
11/18/2007	30	30	Four Mile Creek	0	11708	Parks Farm	Ln	Grease
11/18/2007	940	0	McAlpine Creek	0	8324	Woodgate	Ln	Grease
11/19/2007	645	645	Little Sugar Creek	0	4227	Firwood	Ln	Broken Pipe
11/20/2007	2,560	2,560	Briar Creek	0	1637	Masonic	Dr	Other, Debris
11/20/2007	870	870	Doby Creek	0	6303	Forest Pond	Dr	Grease
11/21/2007	535	535	Irwin Creek	0	1508	Peaceful Way	Dr	Tree Roots
11/24/2007	250	125	McMullen Creek Tributary	0	4438	Deepwood	Dr	Tree Roots
11/24/2007	2,110	2,110	Briar Creek	0	3315	Shamrock	Dr	Grease
11/25/2007	150	150	Briar Creek	0	3400	Sharon Amity (North)	Rd	Grease
11/25/2007	450	450	Upper Little Sugar Creek	0	1800	8 th (East)	St	Broken Pipe
11/27/2007	100	100	McMullen Creek	0	6500	Monroe	Rd	Grease
11/28/2007	4,500	4,500	Little Sugar Creek	0	425	Lambeth	Dr	Broken Pipe
11/28/2007	4,460	4,460	Briar Creek	0	4142	Larkspur	Ln	Grease
11/29/2007	87	77	Briar Creek	0	3411	Burkland	Dr	Grease
11/29/2007	2,100	2,100	Briar Creek	0	5730	General Commerce	Dr	Broken Pipe
11/30/2007	38	19	Irwin Creek	0	1500	Burton	St	Grease
11/30/2007	1,875	1,875	Stoney Creek	0	11815	Tryon (North)	St	Grease

TOTAL SPILLS 40	97,229	34,110
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December	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
12/01/2007	600	600	Doby Creek	0	145	W.T. Harris (East)	Bv Grease
12/03/2007	2,000	2,000	McMullen Creek	500	6920	Out Of Bounds	Dr Grease
12/04/2007	120	120	Coffey Creek	0	618	Main (Pineville)	St Broken Pipe
12/04/2007	39	39	Four Mile Creek	0	9935	Ballantyne Commons	Pk Grease
12/07/2007	5	5	McAlpine Creek	0	9228	Clifton Meadow	Dr Other, Debris
12/08/2007	63	63	Little Sugar Creek	0	1626	Maryland	Av Grease
12/08/2007	14	14	McAlpine Creek	0	2618	Cedar Wild	Rd Grease
12/09/2007	78	78	Sugar Creek	0	700	Yorkdale	Dr Grease
12/11/2007	1,800	1,800	Briar Creek	0	7100	Marden	Ct Grease
12/11/2007	22	22	Briar Creek Tributary	0	5100	Grafton	Dr Tree Roots
12/12/2007	25	25	Steward Creek	0	3200	Dawnshire	Dr Grease
12/12/2007	24	24	Upper Sugar Creek	0	2039	Wensley	Dr Broken Pipe
12/14/2007	146	73	Paw Creek	0	1920	Daytona	Av Grease
12/14/2007	2	2	McAlpine Creek	0	7427	Sheffing Dell	Dr Tree Roots
12/17/2007	1,365	137	McAlpine Creek Tributary	0	4632	Drifter	Dr Other, Debris
12/19/2007	92	92	McAlpine Creek	0	7150	Knightswood	Dr Grease
12/20/2007	450	450	Dairy Branch	0	410	Greystone	Rd Grease
12/21/2007	1,300	1,300	Little Sugar Creek Tributary	0	5100	Sharon	Rd Grease
12/22/2007	965	365	Four Mile Creek	0	9117	Providence Colony	Dr Grease
12/23/2007	300	300	Swan Run Branch Creek	0	1301	Barden (East)	Rd Grease
12/24/2007	1,210	740	Paw Creek	0	1808	Still Pond	Ct Grease
12/24/2007	120	120	Long Creek	0	8400	Coulwood Oak	Ln Grease

12/25/2007	120	0	McAlpine Creek	0	8043	Baldrige	Dr	Grease
12/25/2007	150	15	McAlpine Creek	0	8301	Adrian	Ct	Grease
12/26/2007	120	120	Little Sugar Creek	0	2900	Westfield	Rd	Grease
12/26/2007	60	0	Little Sugar Creek	0	3609	Frew	Rd	Grease
12/26/2007	600	600	West Branch Rocky River	0	19125	River Falls	Dr	Grease
12/26/2007	2,410	2,410	McMullen Creek	0	5850	Monroe	Rd	Grease
12/27/2007	64	64	McMullen Creek	0	8133	Prince George	Rd	Grease
12/28/2007	320	320	Little Sugar Creek	0	500	Davidson (North)	St	Grease
12/29/2007	62	0	Briar Creek	0	3020	Airlie	St	Heavy Rains
12/29/2007	132	132	Irwin Creek	0	3819	Fieldcrest	Rd	Grease
12/31/2007	226	226	McMullen Creek	0	5912	Winburn	Ln	Grease
TOTAL SPILLS 33	15,004	12,256						

January	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass	
01/01/2008	25,175	6,293	Sugar Creek	0	700	Yorkdale	Dr	Grease
01/01/2008	490	245	McMullen Creek Tributary	0	10515	Tyne	Ct	Tree Roots
01/01/2008	108	0	Coffey Creek	0	9802	Kings Parade	Bv	Grease
01/01/2008	300	3	Sugar Creek	0	1039	Wanda	Ln	Grease
01/02/2008	150	150	McAlpine Creek	0	8618	Eaglewind	Dr	Grease
01/03/2008	2,550	2,550	Briar Creek	0	4851	Eaves	Ln	Grease
01/03/2008	36	4	Lower Little Sugar Creek	0	1323	Edgewater	Dr	Grease
01/05/2008	162	162	McIntyre Creek	0	5617	Beatties Ford	Rd	Grease
01/07/2008	150	150	Taggart Creek	0	3112	Markland	Dr	Grease
01/07/2008	900	900	Campbell Creek	0	6401	Woodbend	Dr	Grease

01/07/2008	120	60	Briar Creek	0	2758	Hampton	Av	Grease
01/08/2008	158	0	Lower Little Sugar Creek	0	1814	Myrtle	Av	Grease
01/08/2008	53	53	Coffey Creek	0	9616	China Grove Church	Rd	Grease
01/08/2008	208	0	Upper Little Sugar Creek	0	1658	Sterling	Rd	Tree Roots
01/09/2008	330	330	Briar Creek	0	2649	Laburnum	Av	Grease
01/09/2008	5,000	5,000	Edwards Branch	0	4000	Craig	Av	Broken Pipe
01/11/2008	210	210	Upper Little Sugar Creek	0	1500	Tippah Park	Ct	Tree Roots
01/12/2008	305	305	Irwin Creek	0	3148	Amay James	Av	Grease
01/12/2008	1,800	1,800	Briar Creek	0	426	Chillingworth	Ln	Broken Pipe
01/12/2008	143	143	McAlpine Creek	0	7206	Raj	Ct	Tree Roots
01/12/2008	112	112	McCullough Creek	0	811	Cone	Av	Grease
01/12/2008	81	0	Four Mile	0	700	Charles (East)	St	Grease
01/13/2008	1,500	1,500	Irwin Creek Tributary	0	3400	Reid	Av	Tree Roots
01/13/2008	1,275	1,150	McAlpine Creek Tributary	0	6724	Brynwood	Dr	Tree Roots
01/13/2008	4,320	4,320	Steel Creek	0	2817	Ohara	Dr	Grease
01/13/2008	400	400	Little Sugar Tributary	0	2100	Dickenson	Pl	Grease
01/14/2008	54	54	McMullen Creek	0	5646	Riviere	Dr	Grease
01/15/2008	80	80	Stewart Creek	0	2040	English	Dr	Grease
01/15/2008	58	58	Little Sugar Creek	0	1323	Edgewater	Dr	Grease
01/16/2008	45	45	McCullough Creek	0	9700	South	Bv	Grease
01/19/2008	22	22	McIntyre Creek	0	5509	Southminster	Ln	Grease
01/20/2008	2,400	2,400	McMullen	0	4005	Carmel Forest	Dr	Grease
01/21/2008	900	900	Four Mile Creek	0	3512	Darlington	Dr	Grease
01/21/2008	610	610	Rocky River West Branch	0	251	Ney	Cr	Grease
01/21/2008	900	900	Torrence Creek	0	12800	McCoy	Rd	Vandalism
01/22/2008	1,880	1,880	Briar Creek Tributary	0	5730	General Commerce	Dr	Other, Debris
01/23/2008	95	95	Sugar Creek	0	6441	Park South	Dr	Grease

01/24/2008	60	54	Stuart Creek	0	2719	Abelwood	Rd	Grease
01/26/2008	1,501	1,501	Lake Cornelius Tributary	0	19919	Church	St	Broken Pipe
01/26/2008	98	98	McAlpine Creek	0	7416	Lockmont	Dr	Other, Debris
01/26/2008	300	300	Briar Creek	0	2327	Sharon	Rd	Other, Debris
01/26/2008	134	134	McAlpine Creek	0	6701	Knightwood	Dr	Grease
01/27/2008	3,600	3,600	Little Hope Creek	0	626	Hartford	Av	Broken Pipe
01/28/2008	240	0	Briar Creek	0	1909	Runnymede	Ln	Grease
01/28/2008	206	0	Paw Creek Tributary	0	5535	Carlingford	Ct	Grease
01/28/2008	91	91	Little Sugar Creek	0	4225	Northaven	Dr	Grease
01/28/2008	1,330	1,330	Irwin Creek	0	2607	Kendall	Dr	Grease
01/28/2008	6,150	6,092	Mallard Creek Tributary	0	3100	Arklow	Rd	Other, Debris
01/28/2008	170	170	Briar Creek	0	1363	Carolyn	Dr	Grease
01/29/2008	800	800	Little Sugar	13	2221	Park	Rd	Grease
01/29/2008	40	0	Coffee Creek	0	323	Old Hebron	Rd	Grease
01/29/2008	263	263	Lower Little Sugar Creek	0	9540	Loblolly	Ln	Grease
01/29/2008	22	0	McAlpine Creek	0	5110	Red Cedar	Ln	Tree Roots
01/29/2008	102	92	Irwin Creek	0	3101	Amay James	Av	Grease
01/30/2008	280	280	McAlpine Creek	0	809	Wagon Hill	Rd	Grease
01/31/2008	450	450	Derita Branch	0	400	Davidson (North)	St	Grease
TOTAL SPILLS 56	68,917	48,139						

February	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
02/01/2008	60	0	Briar Creek	0	1909	Runnymede Ln	Tree Roots
02/01/2008	300	300	Sugar Creek Tributary	0	4800	Northaven Dr	Grease
02/02/2008	4,725	4,725	Four Mile Creek	0	1631	Pleasant Plains Rd	Vandalism

02/04/2008	360	0	Lake Cornelius	0	20700	Torrence Chapel (Cornelius)	Rd	Broken Pipe
02/05/2008	168	84	Four Mile Creek Tributary	0	10010	Four Mile Creek	Rd	Grease
02/05/2008	290	249	Taggart Creek	0	2504	Deherradora	Av	Grease
02/07/2008	3,000	3,000	Briar Creek	0	2415	Roswell	Av	Broken Pipe
02/07/2008	1,800	1,800	Toby Creek	0	800	Rocky River	Rd	Grease
02/07/2008	300	300	Irwin Creek	0	2661	Barringer	Dr	Tree Roots
02/08/2008	300	300	McAlpine Creek	0	501	Sardis	Ln	Debris
02/09/2008	4,000	3,000	Paw Creek	0	919	Exchange	St	Grease
02/11/2008	400	400	McMullen Creek	0	7814	Fairview	Rd	Grease
02/12/2008	500	500	Briar Creek	0	2301	Sharon	Rd	Tree Roots
02/13/2008	68	68	Little Sugar Creek Tributary	0	3301	Willow Oak	Rd	Broken Pipe
02/14/2008	300	300	McAlpine Creek Tributary	0	1932	Marlwood	Cr	Grease
02/16/2008	100	50	Sugar Creek Tributary	0	6900	Park South	Dr	Grease
02/17/2008	600	480	Walker Branch	0	10725	Anglesey	Ct	Other, Debris
02/18/2008	470	470	Irwin Creek Tributary	0	2517	Jefferson Davis	St	Tree Roots
02/18/2008	185	92	McAlpine Creek Tributary	0	6901	Candlewyck	Ln	Grease
02/19/2008	230	110	Gum Branch Tributary	0	1826	Odessa	Ln	Grease
02/20/2008	188	0	Long Creek	0	5301	Brookshire	Bv	Other, Debris
02/21/2008	200	200	McMullen Creek Tributary	0	4820	Yardley	Pl	Tree Roots
02/21/2008	270	0	Coffey Creek	0	1770	Shopton	Rd	Grease
02/21/2008	44	44	McAlpine Creek	0	7728	Hickory Hollow	Ln	Tree Roots
02/21/2008	240	240	Little Sugar Creek	0	1609	Herrin	Av	Broken Pipe
02/22/2008	55	0	Mountain Island Lake	0	12414	Overlook Mountain	Dr	Tree Roots
02/25/2008	2,400	2,400	McAlpine Creek	0	7025	Morgan Ford	Rd	Tree Roots

02/25/2008	110	0	Campbell Creek	0	7348	Idlewild	Rd	Tree Roots
02/25/2008	41	41	Little Hope Creek	0	626	Hartford	Av	Grease
02/25/2008	216	216	McAlpine Creek Tributary	0	3405	Arrow	Ln	Tree Roots
02/29/2008	4,700	4,700	Mallard Creek	0	3108	Oceola	Ln	Other, Debris
TOTAL SPILLS 31	26,620	24,069						

March	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass	
03/01/2008	795	795	McMullen Creek	0	5310	Addison	Dr	Grease
03/02/2008	190	190	Irwin Creek	0	301	Honeywood	Av	Grease
03/03/2008	64	64	Four Mile Creek	0	2537	Hampton Glen	Ct	Grease
03/03/2008	480	48	Kings Branch	0	1162	Nations	Dr	Grease
03/03/2008	23	16	Taggart Creek	0	3600	Wilkinson	Bv	Other, Debris
03/03/2008	59	29	Four Mile Creek	0	1630	Marque	Pl	Tree Roots
03/03/2008	346	346	Edward Branch	0	700	Pierson	Dr	Grease
03/04/2008	520	0	Irwin Creek	0	4100	Tyvola (West)	Rd	Other, Debris
03/05/2008	23,000	23,000	Briar Creek	0	2321	Sharon	Rd	Other, Debris
03/05/2008	1,190	1,190	Dairy Branch	0	229	Poindexter	Dr	Grease
03/05/2008	10,500	9,000	McMullen Creek	0	5626	Cottingham	Ln	Tree Roots
03/06/2008	81	81	Idlewild Brooke Tributary	0	6425	Albemarle	Rd	Grease
03/06/2008	48	0	Little Sugar Creek	0	4321	Equipment	Dr	Tree Roots
03/06/2008	165	165	Little Sugar Creek	0	3800	Tryon (North)	St	Grease
03/08/2008	1,580	790	Rocky Branch	0	9416	Stonemark	Dr	Tree Roots
03/09/2008	113	113	Rocky Branch Tributary	0	11230	Ballantyne Trace	Ct	Grease
03/10/2008	125	100	Upper Little Sugar Creek	0	500	Davidson (North)	St	Other, Debris

03/10/2008	500	400	Upper Little Sugar Creek	0	501	College (North)	St	Other, Debris
03/10/2008	14	0	Irwin Creek	0	9621	Lawley	Ln	Other, Debris
03/10/2008	80	80	Reedy Creek Tributary	0	7411	Linda Lake	Dr	Grease
03/11/2008	2,400	2,400	Back Creek Tributary	0	2214	Mclean	Rd	Other, Debris
03/16/2008	2,560	2,048	Mallard Creek	0	3231	Harris Mills	Ln	Grease
03/16/2008	291	291	McMullen Creek	0	4450	Deepwood	Dr	Tree Roots
03/17/2008	75	0	McAlpine Creek	0	7200	Lancer	Dr	Tree Roots
03/18/2008	700	700	Irwin Creek Tributary	0	5833	Milhaven	Ln	Grease
03/18/2008	600	600	Stewart Creek	0	3801	Glenwood	Dr	Grease
03/20/2008	160	160	McMullen Creek	0	3024	Robin	Rd	Tree Roots
03/21/2008	240	240	Mallard Creek	0	6218	Rockwell	Bv	Grease
03/21/2008	120	120	McIntyre Creek	0	5223	Elderbanks	Dr	Broken Pipe
03/23/2008	2,400	2,400	McAlpine Creek	0	4215	Morrowick	Rd	Tree Roots
03/24/2008	1,580	1,580	Coffey Creek	0	5501	Southampton	Rd	Grease
03/24/2008	180	90	McMullen Creek	0	1600	Meadowood	Ln	Grease
03/27/2008	60	60	Briar Creek	0	2400	Kenmore	Av	Grease
03/28/2008	1,575	1,418	Irwin Creek Tributary	0	700	Wilbrowns	Cr	Grease
03/28/2008	98	98	McMullen Creek	0	9105	Essen	Ln	Grease
03/29/2008	5	0	Taggart Creek	0	2621	Ashley	Rd	Grease
03/29/2008	600	0	Taggart Creek	0	1613	Brooksvale	St	Grease
TOTAL SPILLS 37	53,517	48,612						

April	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass	
04/01/2008	90	0	Mallard Creek Tributary	0	1708	Hedgelawn	Dr	Grease
04/02/2008	33	0	McAlpine Creek	0	6808	Wanamaker	Ln	Grease

04/02/2008	1,300	650	Irwin Creek Tributary	0	1001	Tremont (West)	Av	Broken Pipe
04/03/2008	600	600	Irwin Creek	0	1901	Herbert Spaugh	Ln	Grease
04/07/2008	100	100	Irwin Creek	0	5028	Milhaven	Ln	Grease
04/07/2008	30	0	Campbell Creek	0	7301	Idlewild	Rd	Grease
04/08/2008	3,120	3,120	Doby Creek	0	1328	Clooney	Ln	Grease
04/08/2008	600	150	Doby Creek	0	6800	Solectron	Dr	Grease
04/09/2008	28	0	Reedy Creek	0	7121	Delta Lake	Dr	Tree Roots
04/10/2008	100	100	Stewart Creek Tributary	0	1409	Rosetta	St	Debris
04/10/2008	350	175	Little Sugar Creek	0	4500	Tryon (North)	St	Grease
04/10/2008	725	725	Four Mile Creek	0	440	Sadie	Dr	Debris
04/14/2008	486	243	Lower Little Sugar Creek	0	2025	Longleaf	Dr	Grease
04/14/2008	1,275	638	Little Sugar Creek Tributary	0	4700	Cinderella	Rd	Grease
04/15/2008	1,500	1,500	Mallard Creek Tributary	0	10101	David Taylor	Dr	Grease
04/16/2008	445	223	Campbell Creek Tributary	0	7001	Snow	Ln	Grease
04/17/2008	2	2	Irwin Creek Tributary	0	1705	Parker	Dr	Other, Contractor
04/18/2008	635	635	Paw Creek Tributary	0	5215	Windy Valley	Dr	Grease
04/18/2008	370	370	Mallard Creek Tributary	0	4608	Victory	Ln	Grease
04/20/2008	3,840	3,840	Briar Creek Tributary	0	4851	Eaves	Ln	Grease
04/20/2008	230	230	Lower Little Sugar Creek	0	3024	Robin	Rd	Tree Roots
04/20/2008	42	21	Campbell Creek	0	5032	Dogwood	Rd	Tree Roots
04/21/2008	320	320	McMullen Creek		1440	Carmel	Rd	Grease
04/21/2008	435	218	Mallard Creek Tributary	0	5924	Almond	Dr	Grease
04/21/2008	25	25	Upper Sugar Creek	0	920	Woodlawn (East)	Rd	Grease
04/21/2008	20	0	Not Applicable	0	3028	Seymour	Dr	Grease
04/23/2008	184	92	Briar Creek Tributary	0	1812	Tippah	Av	Tree Roots
04/24/2008	255	255	Campbell Creek	0	5612	Farm Pond	Ln	Grease

04/25/2008	215	215	Briar Creek Tributary	0	3520	Edsel	Pl	Grease
04/26/2008	160	160	Caldwell Station	0	9776	Bailey	Rd	Grease
04/26/2008	231	231	Briar Creek Tributary	0	3400	Burkland	Dr	Grease
04/27/2008	120	60	Little Sugar Creek	0	4430	Rolling Hill	Dr	Tree Roots
04/28/2008	36,600	27,450	McAlpine Creek	0	6101	Bentway	Dr	Heavy Rains
04/28/2008	2,850	2,850	Campbell Creek Tributary	0	7001	Snow	Ln	Grease
TOTAL SPILLS 34	57,316	45,198						

May	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
5/6/2008	95	95	Briar Creek	0	813	Millbrook Rd	Broken Pipe
5/7/2008	153	153	Sugar Creek Tributary	0	548	Pressley Rd	Grease
5/8/2008	27	0	Coffey Creek	0	609	Colony Acres Dr	Grease
5/8/2008	3,720	3,534	North Prong Clarke Creek	0	13301	Ramah Church Rd	Other, Debris
5/9/2008	32	0	McAlpine Creek Tributary	0	7019	Chadwyck Farms Dr	Tree Roots
5/9/2008	80	80	Briar Creek	0	2025	Stonebridge Ln	Grease
5/10/2008	114	57	Paw Creek Tributary	0	8600	Stonehurst Dr	Grease
5/10/2008	3,600	3,600	Briar Creek	0	1663	Scotland Av	Other, Contractor
5/11/2008	1,010	505	Briar Creek Tributary	0	3401	Driftwood Dr	Grease
5/13/2008	135	135	Little Hope Creek	0	4111	South Bl	Broken Pipe
5/13/2008	1,290	1,290	McAlpine Creek Tributary	0	7111	Cedar Lake Ct	Tree Roots
5/14/2008	14,400	14,400	Little Sugar Creek	0	428	4th (East) St	Broken Pipe, Contractor
5/14/2008	540	270	Back Creek	0	8330	Grier Rd	Grease

5/18/2008	200	200	Four Mile Creek	0	739	Beckmore	Pl	Grease
5/19/2008	240	240	McDowell Creek	0	10821	Danesway	Ln	Tree Roots
5/21/2008	180	90	Little Sugar Creek	0	924	Bilmark	Av	Grease
5/21/2008	240	24	Lake Norman	0	17234	Jetton	Rd	Other, Contractor
5/26/2008	47	0	Briar Creek	0	4800	The Plaza		Grease
5/28/2008	90	90	Irwin Creek	0	540	Pressley	Rd	Grease
5/30/2008	2,100	2,100	Campbell Creek	0	2121	Margaret Wallace	Rd	Grease
5/30/2008	1,440	1,440	Lower Little Sugar Creek	0	4822	Fairheath	Rd	Grease
TOTAL SPILLS 21	29,733	28,303						

June	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name and Type	Cause of Spill / Bypass
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06/02/2008	160	160	Upper Little Sugar Creek	0	2208	Kenmore	Av	Grease
06/04/2008	1,710	1,710	McAlpine Creek	0	5800	Old Meadow	Rd	Vandalism
06/08/2008	162	162	Irwin Creek Tributary	0	324	Crigler (North)	St	Grease
06/09/2008	204	204	McAlpine Creek	0	8043	Bald Ridge	Dr	Grease
06/10/2008	195	195	Little Sugar Creek	0	2117	Laburnum	Av	Grease
06/12/2008	1,500	1,400	Dairy Branch	0	2214	Park	Rd	Broken Pipe
06/16/2008	150	75	McAlpine Creek	0	7538	Barn Stone	Dr	Grease
06/18/2008	2,170	2,170	Briar Creek	0	3120	Arundel	Dr	Tree Roots
06/26/2008	288	288	Little Sugar Creek Tributary	0	830	Craighead (West)	Rd	Grease
06/27/2008	244	244	McAlpine Creek Tributary	0	8328	Quarry	Rd	Grease

06/28/2008	42	42	Lake Norman	0	21717	Shoveller (Cornelius)	Ct	Broken Pipe
06/30/2008	3,420	3,420	Long Creek	0	9501	W.T. Harris (West)	Blvd	Broken Pipe
TOTAL SPILLS 12	10,245	10,070						

TOTAL NUMBER OF FY08 COLLECTION SYSTEM SPILLS: 362

VOLUME SAFELY COLLECTED, TREATED & DISCHARGED: 28,691,600,000 GALLONS
TOTAL VOLUME OF FY08 SPILLED: 505,568 GALLONS
TOTAL VOLUME OF FY08 THAT REACHED SURFACE WATERS: 378,973 GALLONS

PERCENTAGE OF WASTEWATER SAFELY COLLECTED, TREATED AND RELEASED DURING

FY08: more than 99.9982%
FY07: more than 99.9948%
FY06: more than 99.9988%
FY05: more than 99.993%
FY04: more than 99.997%

SECTION IIB. Permit Compliance and Reporting Violations, by plant

Irwin Creek WWTP -- NPDES Permit #NC0024945

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	The chronic toxicity sample collected in July failed at 71.9%, permit limits require that toxicity pass at 83%. Subsequent toxicity samples were collected in August and September as required by the NPDES Permit. These samples passed at 100%. It is unknown what caused this failure.	None
August, 2007	There were two violation of the fecal coliform daily maximum limit in August 2007. The first occurred on 7/7/07 when the UV system failed. Plant	None

	personnel immediately started a back up sodium hypochlorite disinfection with sodium bisulfite dechlorination. The fecal coliform sample was collected before the back up system could be installed completely. The second violation occurred on 7/28/07 when the pump for the sodium hypochlorite developed a gas block that slowed the flow. Both of these problems had been resolved by the end of the month.	
September, 2007	None	None
October, 2007	None	None
November, 2007	None	None
December, 2007	None	None
January, 2008	None	None
February, 2008	None	None
March, 2008	There was a daily maximum limit violation for fecal coliform on 3/26/08. It is unknown as to why this occurred. All plant equipment appeared to be functioning correctly, the other fecal results for the week were very low, and nothing operationally was different on this day.	None
April, 2008	None	None
May, 2008	None	None
June, 2008	None	None

Mallard Creek WRF -- NPDES Permit #NC0030210

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	None	None
August, 2007	None	None
September, 2007	None	None
October, 2007	None	None
November, 2007	None	None
December, 2007	None	None
January, 2008	None	None
February, 2008	None	None
March, 2008	None	None
April, 2008	None	None
May, 2008	None	None

June, 2008	None	None
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Mallard Creek WRF Re-Use Discharge -- NPDES Permit #NC0013252

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	None	None
August, 2007	None	None
September, 2007	None	None
October, 2007	None	None
November, 2007	None	None
December, 2007	None	None
January, 2008	None	None
February, 2008	None	None
March, 2008	None	None
April, 2008	None	None
May, 2008	None	None
June, 2008	None	None

McAlpine Creek WWTF -- NPDES Permit #NC0024970

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	None	None
August, 2007	There was a daily maximum fecal coliform limit violation on 8/29/07. A contractor working on-site inadvertently disconnected the PLC that was controlling the sodium hypochlorite feed into the effluent for disinfection. An alarm sounded when the chlorine residual dropped, and plant staff responded in approximately 20 - 30 minutes. The problem was corrected and the contractor was instructed about issues with working in that area of the plant.	None
September, 2007	None	None
October, 2007	None	None
November, 2007	None	None
December, 2007	None	None
January, 2008	None	None
February, 2008	None	None

March, 2008	None	None
April, 2008	None	None
May, 2008	None	None
June, 2008	None	None

McDowell Creek WWTP -- NPDES Permit #NC0036277

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	None	None
August, 2007	None	None
September, 2007	None	None
October, 2007	None	None
November, 2007	None	None
December, 2007	None	None
January, 2008	None	None
February, 2008	None	None
March, 2008	None	None
April, 2008	None	None
May, 2008	None	None
June, 2008	None	None

Sugar Creek WWTP -- NPDES Permit #NC0024937

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2007	None	None
August, 2007	None	None
September, 2007	None	None
October, 2007	None	None
November, 2007	There was a daily maximum fecal coliform limit violation on 11/5/07, the limit is 1,000 cfu/100 ml and the violation occurred at 1,036 cfu/100 ml. At the time of the violation the plant was disinfecting with sodium hypochlorite. One of the pumps that was delivering the sodium hypochlorite failed and was being replaced by plant staff at the time the sample was collected.	None
December, 2007	None	None

January, 2008	None	None
February, 2008	None	None
March, 2008	None	None
April, 2008	None	None
May, 2008	None	None
June, 2008	None	None