

Wastewater Performance Report

July 1, 2004 – June 30, 2005

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

704-432-3778.

Applicable Permits:

There are five wastewater treatment facilities owned and operated by Charlotte-Mecklenburg Utilities. Charlotte-Mecklenburg Utilities also operates one facility that is owned by Mecklenburg County. 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.

WWTF	Permit Number	ORC	Phone
Irwin Creek WWTP	NC0024945	James T. Hunter	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	Elliot E. Goins, Jr.	704-875-6443
Sugar Creek WWTP	NC0024937	Roy E. Purgason, Jr.	704-553-2124
WW COLLECTION	Permit Number	ORC	Phone
4100 W. Tyvola Road	WQCS00001	Tony Dubois	704-357-6064
Please note the 704-357-606	4 number will be elim	inated. Tony Dubois' a	lirect number is

The wastewater treatment facility that is owned by Mecklenburg County and operated by Charlotte-Mecklenburg Utilities is:

WWTF	Permit Number	ORC	Phone		
McDowell Park WWTP	NC0029220	Robert P. Norris	704-537-1344		

Description of collection and treatment systems:

The wastewater collection system currently operates under existing wastewater treatment plant NPDES permits. Utilities applied for its collection system permit and the NC Department of Environment and Natural Resources is reviewing that application.

Charlotte-Mecklenburg Utilities collects wastewater from an estimated 196,906 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 84.43 million gallons of wastewater is treated and discharged each day.

More than 100 employees work to maintain 3,369 miles of collection pipelines and 67 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.

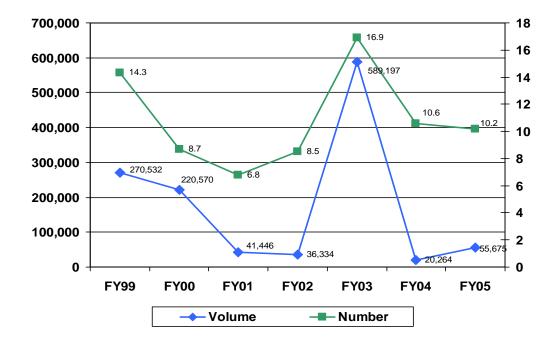
Each of the wastewater treatment plants provides primary, secondary and advanced treatment to the waste stream. Large solid particles and inorganic materials are removed by screening and settling. The wastewater is treated biologically to remove dissolved pollutants. Disinfection reduces bacterial and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

II. Summary of System Performance

How did we do?

Utilities had 346 overflows this year which is two less than last year. While overflows remain an ongoing challenge, it's important to note the Charlotte-Mecklenburg wastewater collection system successfully delivered more than 99.99 percent of this community's 30.73 *billion* gallons of wastewater for treatment last year.

Sanitary Sewer Overflow Data Per 100 Miles of Pipe



Utilities responds to overflows whenever they occur 24 hours a day, 365 days per year. Crews also 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 safely collected, treated and discharged more than 30.73 billion gallons of wastewater for the fiscal year ending June 30, 2005. Our wastewater collection system and plants safely transported and processed more than 99.993 percent of all flow. Less than 0.007 percent escaped the collection and treatment system in the form of sewage spills and overflows. Our wastewater treatment plants met 99.924% percent of all permitted discharge limits.

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

- Approximately 866 miles of sewer lines were cleaned (including repeated cleanings).
- 24 miles of sewer pipes and 2, 127 manholes were restored or replaced.
- McDowell Creek Wastewater Treatment Plant received a Peak Performance Gold Award from the National Association of Clean Water Agencies (NACWA) for the calendar year ending 2004. The plant had 100 percent perfect compliance with their permit requirements. Irwin, Sugar, McAlpine and Mallard Creek Wastewater Treatment Plants earned NACWA Silver Awards For Outstanding Compliance.
- Charlotte-Mecklenburg Utilities was recognized for Excellence in Management Recognition from the Association of Metropolitan Sewerage Agencies (NACWA).
- Plant expansions and upgrades continued at all five treatment facilities to enhance performance and increase reliability.
- In its fifth year, our Oil & Grease Prevention / Grease Free Program inspected grease-handling facilities at 480 restaurants to ensure compliance with city sewer use ordinance and protect the sewer system from improper grease disposal. Twenty-eight Notices of Violation and Compliance Orders were issued. The following programs continue to increase: Educational training and presentations (14), residential handouts / mailings (2,964) follow up visits (1282), sewer-overflow (49) and complaint investigations (7).
- Two pump stations were closed and one station was added to equal 67 pump stations serving low-lying areas. Staff performed 130 routine / preventative maintenance tasks on pump stations.
- The Phosphorus Reduction Project at McAlpine Creek is approximately 80% complete. It began construction in Fall 2003.
- Sugar Creek and Irwin Creek Wastewater Treatment Plants now use ultra-violet rays to disinfect wastewater instead of chlorine.
- Phase 2 of the Irwin Creek Relief Sewer project is under construction.
- Major improvements continue at McAlpine Creek Wastewater Treatment Plant including the consolidated influent pumping facilities project (15% complete) and primary treatment improvements and effluent filter rehabilitation project (10% complete).
- Water Distribution and Wastewater Collection operations combined to create the Field Operations Division. Field Operations was created after of the success of a six-month Pilot

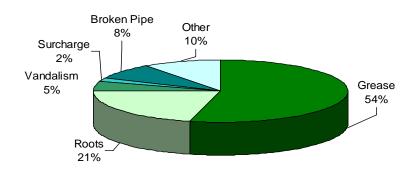
established key positions through reorganization, established geographical work zones, combined water and sewer tap installation, and provided training/cross training for employees. Our countywide field operations service area is now divided into four sections, or zones. Each has a 'home base' and Zone Manager, who oversees both water and wastewater operations in that geographic area. Zones 1 and 2 began operating in January 2005. Zones 3 and 4 began operating July 1, 2005. We expect to realize approximately \$28 million in savings over the next ten years with an investment of approximately \$9 million. The investment will be in employee training and development, technology and support for the optimized practices.

Continuing Challenges

Wastewater Collection Challenges

The greatest continuing wastewater challenge in this community – and in others across the U.S. – is sewage spills and overflows. During the fiscal year ending June 30, 2005, Utilities reported 344 sewage spills from the collection system and three at wastewater treatment plants. The total of 344 spills equaled 1,876,257 gallons spilled (1,447,845 gallons reached surface waters). Most spills were due to grease buildup and the presence of tree roots in pipes. Other factors contributed to overflows, including vandalism, old and/or broken pipes and stormwater inadvertently entering the sanitary sewer system during sudden, heavy rainfall.

FY 2005 Sanitary Sewer Overflows by Cause



While spills are an ongoing challenge, it's important to note the Charlotte-Mecklenburg Utilities wastewater collection system successfully delivered 99.993 percent of this community's 30.73 *billion* gallons of wastewater last year. Our crews work 24 hours a day, 365 days per year to prevent and respond to overflows.

One challenge was upgrading Long Creek Pump Station while it continues to serve customers. Overflows occurred on May 24 and 26 due to accidents related to construction. Crews quickly responded to these spills and were able to dam the creek and pump some of the spilled wastewater back into the system. Over 700,000 gallons of wastewater reached Long Creek. A no swim warning was posted and Utilities contacted towns downstream.

Grease and other blockages that lead to sewer overflows are cleared by Utilities crews, using metal rods and/or 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 faxed 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 39 minutes to all overflows as of June 30, 2005. Staff responded to over 88.1% of the spills in less than 60 minutes. This compares to a state response standard of 120 minutes or less.

The five-year moving average now stands at 336 collection system spills per year (from FY2001 to present- FY05).

Utilities continues to identify and correct grease, tree root, and rain related overflows. A consultant has been retained to assess the wastewater collection system and our ongoing programs to reduce overflows. Odor issues in the collection system are improving but challenges remain.

Wastewater Treatment Plants Challenges

Charlotte-Mecklenburg Utilities five wastewater treatment plants met 99.924 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.

There were two spills at wastewater treatment plants. The largest was from Sugar Creek Wastewater Treatment Plant on December 3. At that time128,250 gallons (of a total 418,750 gallons spilled) that reached Sugar Creek.

Last year, the McDowell Creek Wastewater Treatment Plant was operating near its permitted treatment capacity. Utilities worked with N.C. Department of Environment And Natural Resources to obtain permits to increase capacity. The plant is currently expanding capacity to 12 million gallons per day.

Our pretreatment program has identified, permitted and is regulating large industrial users 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 FY05 expansion of the trunkline monitoring program continued, enabling Utilities

pretreatment staff to more 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.

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, 2004 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 2004 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	Date
Charlotte – Mecklenburg Utilities	

IIA. <u>Listing of Sewer Spills by Month</u>
The following is a list of spills from the public wastewater system that occurred between July 1, 2003 and June 30, 2004. Most occurred from the wastewater collection system. Spills that occurred at wastewater plants are noted in the address.

July Date	Total Estimate	Volume Reaching Surface Water	Surface Water Name	# Fish Killed	Block	Street Name	Cause of Spill / Bypass
July Date	Estimate	Surface water	Little Sugar Creek	Killeu	DIUCK	Street Name	Cause of Spin / Bypass
7/1/2004	120	120	Tributary	0	4501	Rolling Hill Dr	Tree roots blockage
7/3/2004	1800	1800	Stewart Creek	0	1832	Northcliff Dr	Broken pipe
7/5/2004	190	190	Swan Branch Tributary	0	6116	Preston Ln	Tree roots blockage
7/6/2004	35	35	Little Sugar Creek	0	1600	Woodlawn Rd (East)	Grease blockage
7/6/2004	300	300	Gum Branch Tributary	0	1035	Dale Av	Grease blockage
7/8/2004	30	0	Irwin Creek	0	2009	Heywood Av	Grease blockage
7/9/2004	60	0	Briar Creek	0	2106	Pinewood Cr	Grease blockage
7/9/2004	30	30	McAlpine Creek	0	6242	Carmel Station Av	Grease blockage
7/9/2004	30	0	Campbell Creek	0	5050	Farm Pond Ln	Grease blockage
7/10/2004	50	0	McMullen Creek	0	3426	Knob Hill Ct	Tree roots blockage
7/12/2004	900	900	McAlpine Creek Tributary	0	7545	Valleybrook Rd	Grease blockage
7/12/2004	240	240	Stewart Creek Tributary	0	2700	Freedom Dr	Tree roots blockage
7/13/2004	90	0	Six Mile Creek	0	7019	Old Forge Dr	Tree roots blockage
7/13/2004	80	80	Gutter Branch	0	5919	Crape Myrtle Ln	Grease blockage
7/14/2004	6750	5603	Irwin Creek	0	3201	Barringer Dr	Grease blockage
7/14/2004	4600	4600	Doby Creek Tributary	0	2526	Hemby Woods Dr	Grease blockage

7/15/2004	483	483	Briar Creek	0	6012	Bridlewood Ln	Grease blockage
7/15/2004	300	300	Kings Branch	0	8512	Lodge South Cr	Debris blockage (Sticks)
7/18/2004	1325	397	Briar Creek	0	3400	Shamrock Dr	Grease blockage
7/26/2004	150	150	Irwin Creek	0	214	Church St (North)	Grease blockage
7/30/2004	1670	835	McAlpine Creek Tributary	0	11833	Post Ridge Ct	Grease blockage
7/31/2004	200	200	Little Sugar Creek	0	9101	Essen Ln	Grease blockage
month total = 22 spills	19,433	16,263					Ç
August Date	Total Estimate	Volume Reaching Surface Water	Surface Water Name	# Fish Killed	Block	Street Name	Cause of Spill / Bypass
8/4/2004	1200	1200	Four Mile Creek	0	3401	Windbluff Dr	Grease blockage
8/5/2004	600	600	McDowell Creek	0	20435	Chartwell Center Dr	Grease blockage
8/12/2004	5	5	Stewart Creek	0	701	Tuckaseegee Rd	Broken pipe
8/14/2004	4500	0	McDowell Creek Tributary	0	10821	Danesway Ln	Tree roots blockage
8/15/2004	2250	2025	Mallard Creek	0	9332	Charolais Ln	Grease blockage
8/18/2004	15850	15850	Taggart Creek	0	4115	Boyer St	Vandalism (aluminum brackets)
8/20/2004	840	840	Briar Creek Tributary	0	2615	5th St (East)	Grease blockage
8/20/2004	600	600	McMullen Creek Tributary	0	1525	Piccadilly Dr	Tree roots blockage
8/21/2004	60	60	Little Sugar Creek	0	1317	Tyvola Rd	Grease blockage
8/22/2004	450	450	Six Mile Creek Tributary	0	11718	Smart Ln	Tree roots blockage
8/23/2004	300	300	McAlpine Creek	0	120	Holly Ln	Grease blockage
8/23/2004	90	90	Briar Creek	0	3900	Havenwood Rd	Grease blockage

8/27/2004	900	900	South Prong Of Rocky River	0	635	South St, Davidson	Broken pipe
			South Prong Of Rocky			,	
8/28/2004	120	120	River	0	239	Kimberly Rd	Tree roots blockage
8/28/2004	2000	2000	Little Sugar Creek Tributary	0	415	Drury Dr	Vandalism (sticks & rocks)
8/30/2004	600	600	Little Sugar Creek	0	1118	Squirrel Hill Rd	Grease blockage
month total = 16 spills	30,365	25,640					
September Date	Total Estimate	Volume Reaching Surface Water	Surface Water Name	# Fish Killed	Block	Street Name	Cause of Spill / Bypass
Dute	Lountate	Surruce Water	Surface Water Nume	IXIIIcu	Diock	off cet I tulife	Cause of Spin / Bypass
9/1/2004	110	110	Irwin Creek	0	2540	Horne Dr	Grease blockage
9/2/2004	300	300	Campbell Creek Tributary.	0	5020	Glenbrier Dr	Tree roots blockage
9/3/2004	120	120	McMullen Creek	0	1525	Piccadilly Dr	Tree roots blockage
9/8/2004	60000	60000	Little Sugar Creek	0	1818	Baxter St	A retention wall collapsed and broke wastewater pipe
9/8/2004	120	0	Sugar Creek	0	533	Dawn Cr	Tree roots blockage
9/9/2004	900	900	Paw Creek Tributary	0	7030	Flintrock Rd	Tree roots blockage
9/9/2004	4500	4500	Briar Creek Tributary	0	1001	Palmer Plaza Ln	Grease blockage
9/9/2004	20000	5000	Steele Creek	0	10335	Ridge Creek Dr	Debris blockage (Rags, Paper String & Sanitary Products)
9/10/2004	980	980	McAlpine Creek	0	7400	Independence Blvd (East)	Contractor broke pipe
9/12/2004	900	900	Stewart Creek	0	1832	Northcliff Dr	Broken pipe
9/14/2004	650	455	Edwards Branch	0	5009	Greenbrook Dr	Grease blockage
9/16/2004	120	0	Briar Creek	0	2401	Vernon Dr	Tree roots blockage
9/17/2004	120	120	Irwin Creek Tributary	0	508	Beatties Ford Rd	Grease blockage
9/20/2004	300	60	Marvin Branch	0	9113	Linden Tree Ln	General debris (Rags, Sticks & Paper)

9/20/2004	3000	2550	Campbell Creek Tributary	0	7522	Marlbrook Dr	Grease blockage
9/21/2004	75	45	Kings Branch	0	1101	Tyvola Rd	Grease blockage
9/22/2004	16800	3360	Briar Creek	0	3317	Dunaire Dr	Contractor broke pipe
9/26/2004	200	200	Little Sugar Creek	0	3537	Annlin Av	Grease blockage
9/28/2004	23320	23320	Campbell Creek	0	2121	Margaret Wallace Rd	Heavy rains caused surcharge
9/28/2004	180	0	Sugar Creek	0	617	Colorado Av	Grease blockage
9/28/2004	2400	2400	McAlpine Creek	0	5936	Green Rea Rd	Heavy rains caused surcharge
9/28/2004	2400	2400	McAlpine Creek	0	8028	Nathaniel Greene Ln	Heavy rains caused surcharge
9/28/2004	240	240	McMullen Creek	0	2531	Knollwood Rd	Contractor broke pipe
9/29/2004	300	150	McMullen Creek	0	5910	Bellechasse St	General debris blockage (Sticks)
month total = 24 spills	138,035	108,110					
October	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
10/1/2004	150	150	Little Sugar Creek	0	2112	Starbrook Dr	Grease blockage
						Startrook B1	
10/1/2004	5	0	Little Sugar Creek	0	5430	Dockery Dr	Grease blockage
10/1/2004	5 210	0 210	Little Sugar Creek McMullen Creek	0	5430 3727		J
		-				Dockery Dr	Grease blockage
10/3/2004	210	210	McMullen Creek	0	3727	Dockery Dr Colony Crossing Dr	Grease blockage Grease blockage
10/3/2004	210 1125	210	McMullen Creek Briar Creek Tributary Little Sugar Creek	0	3727 2500	Dockery Dr Colony Crossing Dr Eastway Dr	Grease blockage Grease blockage
10/3/2004 10/5/2004 10/12/2004	210 1125 300	210 1125 300	McMullen Creek Briar Creek Tributary Little Sugar Creek Tributary McMullen Creek Irwin Creek Tributary	0 0	3727 2500 11001	Dockery Dr Colony Crossing Dr Eastway Dr South Commerce Bv	Grease blockage Grease blockage Grease blockage Debris blockage (Paper Towels, Rags)
10/3/2004 10/5/2004 10/12/2004 10/13/2004	210 1125 300 6480	210 1125 300 6480	McMullen Creek Briar Creek Tributary Little Sugar Creek Tributary McMullen Creek	0 0 0 0	3727 2500 11001 11503	Dockery Dr Colony Crossing Dr Eastway Dr South Commerce Bv Five Cedars Rd	Grease blockage Grease blockage Grease blockage Debris blockage (Paper Towels, Rags) Debris blockage (Sticks, Wood & Logs)

10/15/2004	1670	1670	Clarks Creek	0	11435	Woodfire Rd	Grease blockage
10/17/2004	900	900	Briar Creek	0	4851	Eaves Ln	Debris blockage (Rags & paper)
10/18/2004	1200	0	McAlpine Creek	0	12701	Lancaster Highway, Pineville McAlpine Creek WWTP	A contractor, inside the plant, accidentally spilled partially treated wastewater sludge while discharging from a truck.
10/18/2004	120	120	Irwin Creek	0	1721	Parker Dr	Due to creek erosion a pipe was damaged
10/18/2004	300	300	Four Mile Creek	0	2817	High Ridge Rd	Due to creek erosion a pipe was damaged
10/20/2004	900	900	Irwin Creek Tributary	0	400	Worthington (West) Av	Broken pipe
10/20/2004	360	360	McAlpine Creek Tributary	0	810	Ingraham Pl	Broken pipe
10/22/2004	2250	562	McAlpine Creek Tributary	0	5312	McAlpine Farm Rd	Tree roots blockage
10/24/2004	900	900	Six Mile Creek	0	5418	Burwash Ct	Grease blockage
10/24/2004	400	400	McAlpine Creek Tributary	0	3020	Rea Rd	Tree roots blockage
10/25/2004	1800	1800	Sugar Creek Tributary	0	911	Willis St	Grease blockage
10/25/2004	120	120	McAlpine Creek Tributary	0	3830	River Ridge Rd	Tree roots blockage
10/27/2004	4175	4175	Irwin Creek Tributary	0	2200	Wilkinson Bv	Grease blockage
10/27/2004	10200	2040	Irwin Creek	0	700	6th St (West)	Broken Pipe
10/30/2004	60	60	Irwin Creek Tributary	0	648	Miller St	Grease blockage
month total = 24 spills	35,815	24,107					
November Date	Total Estimate	Volume Reaching Surface Water	Surface Water Name	# Fish Killed	Block	Street Name	Cause of Spill / Bypass
11/2/2004	300	30	McAlpine Creek	0	6725	Brynwood Dr	Tree roots blockage
11/2/2004	120	0	Little Sugar Creek Tributary	0	1101	Holland Av	Tree roots blockage
11/3/2004	7800	7800	Stewart Creek	0	4400	Northpointe Industrial Bv	Grease & Rocks blockage
11/3/2004	60	0	Little Sugar Creek	0	460	Ardmore Rd	Tree roots blockage

			Tributary				
11/5/2004	150000	150000	Paw Creek	0	7209	Pathfinder Ct	Vandalism (Railroad tie, garbage disposal, vacuum cleaner parts, logs and lumber)
11/5/2004	1200	1080	Irwin Creek	0	1811	Sardis Rd	Grease blockage
11/6/2004	2500	250	Long Creek Tributary	0	6217	McIntyre Ridge Dr	Grease blockage
11/9/2004	1260	1260	Edwards Branch	0	3716	Winterfield Pl	Grease blockage
11/11/2004	15	15	Little Sugar Creek	0	1223	Archdale Dr	Tree roots blockage
11/14/2004	1270	635	Briar Creek Tributary	0	809	Crater St	Grease blockage
11/16/2004	60	60	McMullen Creek	0	4411	Belknap Rd	Tree roots blockage
11/17/2004	450	225	Little Sugar Creek	0	2201	Ramblewood Ln	Tree roots blockage
11/17/2004	120	60	Little Sugar Creek	0	1131	Mockingbird Ln	Broken pipe
11/18/2004	300	150	McAlpine Creek	0	5960	Brickstone Dr	Vandalism (Rocks)
11/19/2004	7950	7950	McAlpine Creek	0	6600	Providence Rd	Grease blockage
11/19/2004	450	450	McAlpine Creek	0	6557	Folger Dr	Broken pipe
11/20/2004	2650	2650	McAlpine Creek	0	4501	Nora's Path Rd	Grease blockage
11/22/2004	20	0	Little Sugar Creek Tributary	0	1051	Scaleybark Rd	Tree roots blockage
11/23/2004	10000	10000	Paw Creek Tributary	0	1430	Allenbrook Dr	Vandalism (Tree Logs)
11/23/2004	300	150	McMullen Creek	0	8127	Prince George Rd	Tree roots blockage
11/28/2004	240	240	Little Sugar Creek	0	517	Kenlough Dr	Grease blockage
11/29/2004	120	120	Irwin Creek	0	2343	Remount Rd	Grease blockage
11/30/2004	360	360	McAlpine Creek Tributary	0	9623	Independence Bv (East)	Grease blockage
11/30/2004	300	300	Mallard Creek Tributary	0	11236	Shandon Way Ln	Tree roots blockage
11/30/2004	300	300	McAlpine Creek Tributary	0	7800	Ponderosa Pine Ln	Debris blockage (Dirt And Mud)
11/30/2004	60	60	Irwin Creek	0	329	North Irwin Av	Grease blockage
11/30/2004	600	300	McAlpine Creek	0	9010	Monroe Rd	Grease blockage
11/30/2004	120	120	Steele Creek	0	11407	Antebellum Dr	Tree roots blockage

month total = 28 spills	189,925	184,565					
– 20 Spins	109,925	104,303					
December	Total	Volume Reaching		# Fish	DI 1	G. AN	G AG WA
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
12/2/2004	3600	3600	Briar Creek Tributary	0	4025	Hiddenbrook Dr	Grease blockage
12/3/2004	418,750	128,250	Sugar Creek	0	5301	Closeburn Rd Sugar Creek WWTP	Human error while taking equipment offline (construction) caused wastewater to overflow.
12/3/2004	240	240	Long Creek	0	8707	Coach Wood Ct	Grease blockage
12/3/2004	980	980	Little Sugar Creek Tributary	0	6200	Elgywood Ln	Grease blockage
12/4/2004	600	600	McAlpine Creek	0	435	Trafalgar Pl	Grease blockage
12/6/2004	17550	17550	Doby Creek	0	8501	IBM Dr	Tree roots blockage
12/6/2004	300	300	Little Sugar Creek	0	6400	Monteith Dr	Grease blockage
12/7/2004	300	300	Little Sugar Creek	0	109	Reid Ln	Tree roots blockage
12/8/2004	180	45	Irving Creek	0	8438	Independence Bv (East)	Grease blockage
12/9/2004	240	240	Little Sugar Creek	0	6811	Sunview Dr (West)	Tree roots blockage
12/11/2004	60	60	Edwards Branch	0	809	Crater St	Tree roots blockage
12/11/2004	150	150	Briar Creek Tributary	0	4221	Foxford Pl	Tree roots blockage
12/12/2004	10850	10850	Four Mile Creek Tributary	0	2609	Houston Branch Rd	Grease blockage
12/12/2004	3340	3340	Toby Creek Tributary	0	8900	Nottoway Dr	Tree roots blockage
12/15/2004	360	180	Irwin Creek Tributary	0	501	Ramsey St (South)	Grease blockage
12/17/2004	900	900	McAlpine Creek Tributary	0	7436	Leharne Dr	Grease blockage
12/17/2004	2700	2700	Mallard Creek Tributary	0	7731	Beaker Ct	Grease blockage
12/18/2004	635	0	Briar Creek	0	3839	Barclay Downs Dr	Tree roots blockage
12/19/2004	835	0	Stewart Creek	0	2400	Morton St	Grease blockage
12/20/2004	845	630	McAlpine Creek	0	8012	Briardale Dr	Grease blockage
12/20/2004	600	600	Briar Creek	0	3725	Audrey St	Grease blockage

12/21/2004	3375	3375	Campbell Creek	0	2121	Margaret Wallace Rd	Grease blockage
12/21/2004	990	990	Lake Norman	0	18303	Jetton Rd	Broken valve
12/22/2004	90	0	Six Mile Creek Tributary	0	12828	Bullock Greenway Bv	Vandalism (Rocks)
12/22/2004	240	60	Campbell Creek	0	6624	Wenda Pl	Grease blockage
12/22/2004	195	0	McMullen Creek Tributary	0	10023	Brass Eagle Ln	Grease blockage
12/22/2004	300	0	Briar Creek Tributary	0	4442	Central Av	Grease blockage
12/22/2004	90	0	Little Sugar Creek	0	207	Eden Cr	Tree roots blockage
12/26/2004	840	0	Sugar Creek	0	2301	Longleaf Dr	Grease blockage
12/27/2004	5010	0	Campbell Creek	0	1232	Jenkins Dr	Grease blockage
12/29/2004	45	45	Stewart Creek	0	4211	Brookshire Bv	Grease blockage
12/29/2004	90	0	McAlpine Creek	0	9112	Vicksburg Rd	Grease blockage
12/29/2004	4200	4200	Little Sugar Creek Tributary	0	225	Poindexter Dr	Broken pipe
12/30/2004	60	0	Torrence Creek	0	209	Hillcrest Dr, Huntersville	Tree roots blockage
12/30/2004	1670	418	Rocky Branch	0	10006	Stoneleigh Ln	Grease blockage
12/30/2004	90	0	McAlpine Creek	0	11420	Kingfisher Dr	Grease blockage
12/31/2004	840	420	Little Sugar Creek	0	7017	Brynhurst Dr	Tree roots blockage
month total = 37 spills	482,140	181,023					

January	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
1/1/2005	840	0	McMullen Creek	0	11914	Rock Canyon Dr	Grease blockage
1/3/2005	5	0	Coffee Creek	0	7623	Fallow Ln	Vandalism (Bowling Ball)
			Mallard Creek				
1/4/2005	180	90	Tributary	0	401	McCullough Dr	Tree roots blockage
1/4/2005	6500	6500	Sugar Creek Tributary	0	7811	Antlers Ln	Grease blockage
1/5/2005	150	38	Briar Creek	0	2324	Commonwealth Av	Grease blockage

1/5/2005	3340	3000	Campbell Creek Tributary	0	6401	Woodbend Dr	Grease blockage
1/6/2005	300	60	McAlpine Creek	0	320	Bass Ln	Tree roots blockage
1/7/2005	100	0	Irwin Creek	0	4100	Tyvola Rd (West)	Tree roots blockage
1/7/2005	20	20	McAlpine Creek	0	5011	Farmland Rd	Tree roots blockage
1/7/2005	180	180	Little Sugar Creek	0	6513	Wisteria Dr	Grease blockage
1/7/2005	2650	2650	Little Sugar Creek	0	500	Davidson St (North)	Grease blockage
1/7/2005	600	600	Edwards Branch	0	3506	Winterfield Pl	Grease blockage
1/9/2005	1000	1000	Briar Creek	0	1645	Nassau Bv	Broken pipe
1/10/2005	400	400	Little Sugar Creek	0	3330	Teversham Ln	Grease blockage
1/10/2005	150	150	Taggart Creek	0	1000	Thomasboro Dr	Grease blockage
1/10/2005	120	90	McAlpine Creek	0	212	Smithfield Dr	Grease blockage
1/11/2005	60	60	Briar Creek	0	717	Manning Dr	Grease blockage
1/12/2005	90	90	McAlpine Creek	0	4410	Forest Hills Dr	Grease blockage
1/12/2005	200	0	McDowell Creek	0	9820	Callabridge Ct	Debris blockage
1/12/2005	450	450	Stewart Creek	0	2925	Bellaire Dr	Grease blockage
1/12/2005	1800	900	Irwin Creek	0	5510	Santeetlah Ct	Grease blockage
1/14/2005	150	150	Little Sugar Creek	0	5821	Fairview Rd	Grease blockage
1/15/2005	2650	2650	Branch Creek	0	5000	Broken Saddle Ln	Tree roots blockage
1/16/2005	400	0	Irwin Creek	0	1943	St. Mark St	Grease blockage
1/19/2005	3600	3600	Irwin Creek	0	229	Church St (North)	Grease blockage
1/21/2005	900	900	Irwin Creek	0	229	Church St (North)	Grease blockage
1/22/2005	2650	2650	Four Mile Creek	0	3529	Shore Ln	Grease blockage
1/22/2005	30	30	McAlpine Creek	0	718	Hammermill Rd	Grease blockage
1/26/2005	7500	7500	Doby Creek	0	8620	Research Dr	Grease blockage
1/26/2005	720	0	Did Not Reach Surface Water	0	2232	Winter St	Tree roots blockage
1/26/2005	90	0	Did Not Reach Surface Water	0	412	Davidson St (North)	Grease blockage
1/27/2005	2650	2650	Sugar Creek Tributary	0	116	Rountree Rd	Grease blockage

	ı	ı	1		1		
			Did Not Reach Surface				Grease blockage
1/27/2005	60	0	Water	0	4150	Blenhein Rd	
			Four Mile Creek				Grease blockage
1/28/2005	450	225	Tributary	0	6330	Hazelton Dr	
1/00/000	1.50	1.50	Little Sugar Creek		404.5		Grease blockage
1/28/2005	160	160	Tributary	0	4815	Snow White Ln	Q 11 1
1/20/2005	200	150	McDowell Creek	0	0200	Old Damate Di	Grease blockage
1/30/2005 month total	300	150	Tributary	0	9308	Old Barnette Pl	
= 36 spills	41,445	36,943					
February	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
			Did Not Reach				Grease blockage
2/2/2005	120	0	Surface Water	0	1010	Northwood Dr	
2/3/2005	1800	1800	Irwin Creek	0	3201	Dalecrest Dr	Grease blockage
			Sugar Creek				
2/3/2005	60	60	Tributary	0	409	Scaleybark Rd	Tree roots blockage
0/0/000#	100	100	Campbell Creek			D D 17	Grease blockage
2/3/2005	180	180	Tributary	0	5315	Farm Pond Ln	0 11 1
2/3/2005	2880	2880	Campbell Creek	0	6209	Four Seasons Ln	Grease blockage
	• • • •		Did Not Reach				
2/5/2005	300	0	Surface Water	0	12305	Sparkling Wy	Vandalism
2/5/2005	00		Did Not Reach	0	0106	NT 1 A	Grease blockage
2/5/2005	90	0	Surface Water	0	9106	Nash Av	Grease blockage
2/7/2005	75	75	Swan Run Branch	0	212	Sardis Ln	
2/7/2005	60		Did Not Reach	0	1010	N 4 1D	Grease blockage
2/7/2005	60	0	Surface Water	0	1010	Northwood Dr	Cassas blashana
2/8/2005	600	600	Four Mile Creek	0	7833	Arboretum Dr	Grease blockage
2/8/2005	240	240	Irwin Creek	0	1600	Trade St (West)	Broken Pipe
			Stewart Creek				Grease blockage
2/10/2005	90	90	Tributary	0	3101	Bellaire Dr	
2/11/2005	200	200	Little Sugar Creek	0	649	Manhasset Rd	Grease blockage
2/12/2005	90	0	Did Not Reach	0	6353	Kelsey Dr	Grease blockage

			Surface Water				
2/13/2005	4500	4500	Four Mile Creek	0	8218	Peyton Randolph Dr	Grease blockage
2/13/2005	400	400	Irwin Creek	0	2819	Royston Rd	Broken Pipe
2/13/2005	120	60	Briar Creek	0	5123	Central Av	Grease blockage
						Independence Bv	
2/14/2005	3975	994	Irwin Creek	0	8500	(East)	Rocks
2/15/2005	840	840	McMullen Creek	0	9141	Cameron Wood Dr	Grease blockage
2/15/2005	1000	900	Mallard Creek	0	10700	Tradition View Dr	Grease blockage
2/10/2005	000		Did Not Reach		5202	D ' W D1	5.1.
2/19/2005	800	0	Surface Water	0	5302	Prosperity View Rd	Debris
2/21/2005	1080	540	McAlpine Creek Tributary	0	708	Bonlyn Dr	Tree roots blockage
2/23/2005	750	750	Sugar Creek	0	4109	South Stream By	Tree roots blockage
2, 23, 2003	750	730	Did Not Reach		1107	South Stream B	Grease blockage
2/23/2005	10	0	Surface Water	0	6600	Candlewood Dr	22222 222262
			Did Not Reach				
2/24/2005	60	0	Surface Water	0	11713	Carmel Lakes Dr	Tree roots blockage
			Little Sugar Creek	_			Grease blockage
2/25/2005	1080	1080	Tributary	0	1901	Tryon St (North)	
month total = 26 spills	21,400	16,189					
_ 20 spms	21,700	10,107					
March	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
3/1/2005	775	775	McMullen Creek	0	4622	Colony Rd	Grease blockage
3/2/2005	30	30	Four Mile Creek	0	10115	Thomas Payne Cr	Grease blockage
3/2/2005	1500	1500	Mallard Creek	0	6312	Waterford Hills Dr	Grease blockage
						Ballantyne Crossing	
3/3/2005	840	840	Marvin Branch	0	11276	Av	Debris blockage
3/4/2005	810	810	Paw Creek Tributary	0	7913	Tuckaseegee Rd	Vandalism
3/5/2005	1680	1680	McAlpine Creek	0	9717	Leeswood Ln	Broken Pipe
			Did Not Reach				Grease blockage
3/6/2005	100	0	Surface Water	0	6015	Monroe Rd	

3/6/2005	1670	1670	Clarke Creek Tributary	0	12607	Levins Hall Rd	Grease blockage
3/0/2003	1070	1070	McAlpine Creek	0	12007	Levilis nali Ku	Grease blockage
3/6/2005	1905	1905	Tributary	0	1216	Braeburn Rd	Grease blockage
3/ 6/ 2003	1703	1703	Campbell Creek		1210	Biacouin Ra	
3/7/2005	525	105	Tributary	0	5908	Amity Pl	Debris (Paper)
			Did Not Reach			•	
3/8/2005	450	0	Surface Water	0	5421	Gwynne Av	Tree roots blockage
			Did Not Reach				
3/8/2005	100	0	Surface Water	0	1750	Shopton Rd	Tree roots blockage
3/8/2005	300	30	McAlpine Tributary	0	427	Whitestone Rd	Tree roots blockage
3/9/2005	1200	1080	Briar Creek Tributary	0	5324	Unaka Av	Tree roots blockage
3/9/2005	825	825	Briar Creek Tributary	0	6501	Monroe Rd	Grease blockage
3/10/2005	60	60	Four Mile Creek	0	8000	Beverly Crest Bv	Debris blockage
3/10/2005	90	90	Little Sugar Creek	0	3300	Westfield Rd	Debris blockage
3/11/2005	10240	5120	McAlpine Creek	0	4632	Drifter Dr	Grease blockage
			Did Not Reach				Grease blockage
3/11/2005	360	0	Surface Water	0	5916	Amity Pl	
2/12/2007	200	200	Irwin Creek	0	4.400	m 0.40 1)	D 1 D
3/13/2005	300	300	Tributary	0	4400	Tryon St (South)	Broken Pipe
3/14/2005	135	0	Did Not Reach Surface Water	0	7233	Tuckaseegee Rd	Tree roots blockage
3/14/2005	1270	635	Toby Creek Tributary	0	8600	University City Bv	Grease blockage
							_
3/15/2005	4500	450	Doby Creek	0	6800	Solectron Dr	Debris blockage
3/15/2005	900	900	Four Mile Creek	0	3319	Gresham Pl	Grease blockage
3/15/2005	3303	3303	Little Sugar Creek	0	6716	Candlewood Dr	Debris (Rags, Paper)
3/15/2005	150	150	Briar Creek	0	2245	Colony Rd	Tree roots blockage
3/15/2005	1200	1200	Four Mile Creek	0	3021	Poplar Hill Rd	Grease blockage
3/15/2005	60	60	Little Sugar Creek	0	810	Cone Av	Grease blockage
			Mallard Creek	-			
3/16/2005	4200	4200	Tributary	0	10200	David Taylor Dr	Debris (Paper)
3/17/2005	400	0	Did Not Reach	0	1162	Nations Dr	Tree roots blockage

			Surface Water				
3/17/2005	300	150	McMullen Creek	0	4033	Columbine Cr	Tree roots blockage
3/18/2005	100	100	Sugar Creek	0	800	6 th St (West)	Pump failure by contractor bypassing a pipe
3/18/2005	900	450	Little Sugar Creek	0	1040	Woodlawn Rd (East)	Tree roots blockage
3/18/2005	200	200	Irwin Creek	0	3700	Morris Field Dr	Tree roots blockage
3/18/2005	200	200	McAlpine Creek	0	10023	Brass Eagle Ln	Debris blockage
3/19/2005	750	750	Upper Sugar Creek	0	3820	Haven Dr	Grease blockage
3/19/2005	1200	1200	McAlpine Creek	0	1501	Briarfield Dr	Grease blockage
3/21/2005	300	150	Little Sugar Creek	0	2505	Pine St (North)	Grease blockage
3/24/2005	630	0	Long Creek Tributary	0	1514	Long Paw Ln	Debris (Mud, Silt)
3/25/2005	600	600	Little Sugar Creek	0	412	Davidson St (North)	Grease blockage
3/26/2005	720	72	Torrence Creek	0	13329	Sloe Wy	Tree roots blockage
3/26/2005	80	80	Little Sugar Creek	0	200	Church St (North)	Grease blockage
3/28/2005	370	185	Rocky Branch	0	8336	Cricket Lake Dr	Grease blockage
3/28/2005	360	0	Did Not Reach Surface Water	0	6125	Tyvola Centre Dr	Debris (Paper)
3/29/2005	450	225	Toby Creek Tributary	0	9154	Sandburg Av	Grease blockage
3/2//2003	150	223	Did Not Reach		7151	Buildburg 11V	Grease blockage
3/29/2005	4800	0	Surface Water	0	13235	Toka Ct	
month total = 46 spills	51,838	32,080					
April	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
4/1/2005	375	375	Six Mile Creek	0	14420	Nolen Ln	Grease blockage
4/1/2005	700	0	Did Not Reach Surface Water	0	6435	Alders Ct	Debris (Dirt, Sand)
4/2/2005	3000	3000	Irvins Creek	0	7113	Clear Crossing Ln	Vandalism (Rip Rap Stone)
4/2/2003	3000	3000	Mallard Creek	U	/113	Clear Crossing Lif	Grease blockage
4/4/2005	300	300	Tributary	0	5033	Fairvista Dr	Grouse Groomage
4/4/2005	1400	1400	McAlpine Creek Tributary	0	8232	Bellfield Pl	Grease blockage

4/4/2005	900	900	Toby Creek	0	9111	Robert Frost Ln	Tree roots blockage
			Irvine Creek				Grease blockage
4/4/2005	1800	900	Tributary	0	1623	Maribel Av	
4/7/2005	300	300	McMullen Creek	0	5930	Fairview Rd	Grease blockage
4/8/2005	1200	1140	McAlpine Creek	0	11322	Baronia Pl	Grease blockage
4/8/2005	720	0	Did Not Reach Surface Water	0	6311	Royal Birkdale Ct	Grease blockage
17 07 2005	,20		McAlpine Creek		0311	Rojai Birkdare Ct	Grease blockage
4/10/2005	2250	1125	Tributary	0	3301	Chistow Rd	222
			Upper Little Sugar				
1/11/2005	750	750	Creek	0	636	Heather Ln	Tree roots blockage
1/11/2005	3810	3810	Briar Creek Tributary	0	2316	Ginger Ln	Grease blockage
4/11/2005	4800	4800	Briar Creek Tributary	0	3414	Bonneville Dr	Tree roots blockage
4/12/2005	2400	2400	Briar Creek Tributary	0	3414	Bonneville Dr	Root cutter broke off in line during the previous spill and cleanup.
1/13/2005	1200	1140	Clarke Creek Tributary	0	205	3rd St, Huntersville	Grease blockage
4/14/2005	5850	4400	Little Sugar Creek Tributary	0	144	Atando Av	Vandalism (Logs)
4/14/2005	900	900	Irwin Creek	0	122	State St	Grease blockage
4/14/2005	10	0	Did Not Reach Creek	0	4012	Ranchview Ln	Grease blockage
4/16/2005	240	0	Did Not Reach Creek	0	3504	Frew Rd	Grease blockage
1/16/2005	840	0	Did Not Reach Creek	0	1737	Dallas Av	Grease blockage
1/17/2005	1670	1670	Sugar Creek	0	10006	Woody Ridge Rd	Grease blockage
1/17/2005	30000	30000	McAlpine Creek	0	5820	Brickstone Dr	Vandalism (Rocks)
1/17/2005	100	0	Did Not Reach Surface Water	0	7617	Elwood Dr	Tree roots blockage
1/18/2005	2400	2400	Brier Creek	0	6329	Barrington Dr	Grease blockage
1/19/2005	120	120	McMullen Creek	0	10028	Brass Eagle Ln	Tree roots blockage
4/19/2005	4200	420	Sugar Creek Tributary	0	660	Sheryl Cr	Grease blockage
4/19/2005	400	0	Did Not Reach Surface Water	0	4345	Bathurst Dr	Grease blockage

4/20/2005	90	0	Did Not Reach Surface Water	0	2716	Dellinger Cr	Vandalism (bottles)
			Sugar Creek				
4/20/2005	180	180	Tributary	0	4612	Fairbluff Pl	Tree roots blockage
4/21/2005	700	630	Irwin Creek	0	1628	Oaklawn Av	Debris (Paper, Rags)
4/21/2005	200000	75000	McMullen Creek	0	12701	Lancaster Hwy, Pineville	Broken Pipe
4/21/2005	600	300	McMullen Creek	0	3023	Robin Rd	Grease blockage
4/26/2005	240	0	Six Mile Creek	0	10607	Rea Rd	Vandalism
4/29/2005	210	210	Irwin Creek	0	2621	Pine St (North)	Grease blockage
4/30/2005	58	58	Catawba River Tributary	0	1528	Bitter Creek Dr	Debris (Rock, Sand)
month total = 36 spills	274,713	138628	2222 0.000				
— со врим	27 1,710	100020					
May	Total	Volume Reaching		# Fish			
Date	Estimate	Surface Water	Surface Water Name	Killed	Block	Street Name	Cause of Spill / Bypass
5/1/2005	450	450	Campbell Creek	0	5814	Idlebrook Dr	Grease blockage
5/2/2005	840	420	McAlpine Creek	0	3924	Sky Dr	Tree roots blockage
5/3/2005	240	240	Irwin Creek Tributary	0	3241	Dalecrest Dr	Grease blockage
5/3/2005	300	300	Long Creek	0	3623	Bahama Dr	Grease blockage
5/4/2005	360	360	Toby Creek Tributary	0	9610	University City Bv	Debris (Rocks & sand)
5/4/2005	24	24	McMullen Creek	0	2909	Rustic Ln	Broken Pipe
5/4/2005	3150	3150	Stewart Creek	0	3226	Parkside Dr	Grease blockage
5/5/2005	600	600	Stewart Creek	0	2908	Stewart Creek Bv	Grease blockage
5/6/2005	60	0	Little Sugar Creek	0	914	Sugar Creek Rd (West)	Grease blockage
5/8/2005	75	75	Sugar Creek	0	1323	Townes Rd	Grease blockage
5/8/2005	360	360	Little Sugar Creek Tributary	0	6347	Elgywood Dr	Grease blockage
5/9/2005	1200	1200	Irwin Creek Tributary	0	900	12 th St (West)	Broken Pipe
5/10/2005	240	240	Briar Creek	0	1915	Rexford Rd	Tree roots blockage

6/8/2005	800	800	Briar Creek	0	6352	Montego Dr	Vandalism (Sticks, Branches)
6/7/2005	180	0	McIntyre Creek	0	5408	Elderbank Dr	Grease blockage
June Date	Total Estimate	Volume Reaching Surface Water	Surface Water Name	# Fish Killed	Block	Street Name	Cause of Spill / Bypass
= 35 spills	1,001,323	804,107					
5/28/2005 month total	1270	317	McAlpine Creek	0	8029	Glencannon Dr	Grouse blockage
		47222	Long Creek	0			Broken Pipe Grease blockage
5/25/2005 5/26/2005	236110		Tributary	0	800	Hawfield Rd	Tree roots blockage
5/25/2005	240	0	Reedy Creek	0	7138	Linda Lake Dr	Tues wests blooks as
5/24/2005	739584	739584	Long Creek	0	800	Hawfield Rd	Broken Pipe
5/24/2005	800	0	Little Sugar Creek	0	900	Harrill St	Debris (Asphalt, Brick)
5/24/2005	360	360	McMullen Creek	0	6100	Idlewild Rd	Tree roots blockage
5/24/2005	200	200	McAlpine Creek	0	5711	Ceadars East Ct	Grease blockage
5/23/2005	360	360	Deer Field Creek	0	3040	Weddington Rd	Grease blockage
5/23/2005	450	450	Little Sugar Creek	0	6610	Wisteria Dr	Grease blockage
5/21/2005	1200	1200	Briar Creek	0	6820	Barrington Dr	Tree roots blockage
5/21/2005	180	180	Four Miles Creek	0	2817	Highridge Rd	Broken Pipe
5/20/2005	300	300	McMullen Creek	0	4427	Woodlark Ln	Grease blockage
5/20/2005	300	300	McMullen Creek	0	4427	Woodlark Ln	Grease blockage
5/19/2005	1200	1200	Briar Creek	0	2728	Commonwealth Av	Vandalism (Rock)
5/18/2005	7100	1775	McDowell Creek	0	2100	Torrence Chapel Rd	Broken Pipe
5/17/2005	120	120	Irwin Creek	0	2000	Genesis Park Pl	Grease blockage
5/17/2005	480	480	Irwin Creek	0	823	Justice Av	Debris
5/16/2005	450	0	Stewart Creek	0	2540	Barringer Dr	Tree roots blockage
5/16/2005	80	0	Little Sugar Creek	0	249	Eden Cr	Grease blockage
5/15/2005	180	180	Briar Creek Tributary	0	6116	Monteith Dr	Grease blockage
5/12/2005	1560	1560	Little Sugar Creek	0	938	Camborne Pl	Grease blockage
5/11/2005	900	900	Toby Creek	0	1028	Morning Glory Dr	Grease blockage

6/11/2005	300	0	McAlpine Creek	0	10700	Johnston Rd	Grease blockage
6/14/2005	270	270	Sugar Creek	0	9800	Industrial Dr	Debris (Paper/Rags)
6/14/2005	120	120	Rocky River	0	300	Delburg St	Grease blockage
6/16/2005	1950	490	Little Sugar Creek	0	2650	Pine St (North)	Debris (Paper)
6/18/2005	60	0	McAlpine Creek Trib	0	8432	Othello Pl	Grease blockage
6/20/2005	1600	1600	McAlpine Creek	0	7318	Valleybrook Rd	Debris (Paper/Rags)
6/20/2005	140	0	Sugar Creek	0	4800	Ashley Cr	Tree roots blockage
6/20/2005	300	300	Lake Cornelius Trib.	0	20198	Holiday Ln	Tree roots blockage
6/21/2005	300	300	McAlpine Creek	0	9019	W T Harris Bv	Grease blockage
6/21/2005	4200	4200	Campbell Creek	0	6101	Idlebrrok Dr	Grease blockage
6/23/2005	120	120	Lake Norman	0	16825	Lake Shore Dr	Broken Pipe
6/26/2005	120	120	Torrence Greek	0	9724	Northdowns Ln	Grease blockage
6/27/2005	75	0	McAlpine Creek	0	227	Smithfield Dr	Tree roots blockage
6/28/2005	240	120	McAlpine Creek	0	8231	Bald Ridge Dr	Broken Pipe
month total = 16 spills	10,775	8,440					

TOTAL # OF FY05 COLLECTION SYSTEM SPILLS: 344
TOTAL # OF FY05 PLANT SPILLS: 2

VOLUME SAFELY COLLECTED, TREATED & DISCHARGED: 30,733,410,900 GALLONS
TOTAL VOLUME OF FY05 SPILLED: 2,296,207 GALLONS
TOTAL VOLUME OF FY05 THAT REACHED SURFACE WATERS: 1,576,095 GALLONS

% OF WASTWATER SAFELY COLLECTED, TREATED AND RELEASED DURING FY05: more than 99.993%

FY04: more than 99.997% FY03: more than 99.932% FY02: more than 99.995% FY01: more than 99.99%

SECTION IIB. Permit Compliance and Reporting Violations, by plant

Irwin Creek WWTP -- NPDES Permit #NC0024945

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2004	None	None
August, 2004	None	None
September, 2004	None	None
October, 2004	None	None
November, 2004	None	None
December, 2004	None	None
January, 2005	The toxicity sample failed at 50.8% in the month of January, the Permit requires the toxicity sampling at Irwin pass at 83% of the effluent discharge. Subsequent sampling for the next three months show the facility passing the effluent toxicity limit.	None
February, 2005	None	Due to a sample scheduling error the weekly mercury sample was not collected for the week of 2/6 - 2/12/05. Two samples were collected in the previous week.
March, 2005	None	None
April, 2005	None	None
May, 2005	None	None
June, 2005	The weekly Geometric Mean for Fecal Coliform of 400 cfu/100 ml was exceeded the week of May 5/29 - 6/4/05. The geometric Mean for the week was 434 cfu/100 ml.	None

Mallard Creek WRF -- NPDES Permit #NC0030210

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
WONTH	TERMIT ENVIT COM ENVICE	COMIDMICE
July, 2004	None	None
August, 2004	None	None
	The weekly average cBOD limit of 6.3 mg/l was exceeded for the week starting on 9/26/04. The weekly average was 6.5 mg/l.	None
October, 2004	None	None
November, 2004	None	None
December, 2004	None	None
January, 2005	None	None
February, 2005	None	None
March, 2005	None	None
April, 2005	None	None
May, 2005	None	None
June, 2005	None	None

McAlpine Creek WWTF -- NPDES Permit #NC0024970

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2004	None	None
August, 2004	None	None
September, 2004	None	None
October, 2004	None	None
November, 2004	None	None
December, 2004	The toxicity sample for December failed at 77.9% for the ceriodaphnia organism. The Permit limit requires no toxicity to 90% of the plant effluent. Subsequent samples collected in the following three months showed the plant passing the toxicity requirement. At the same time the December test failed for toxicity, another toxicity sample was collected and analyzed for a second specie of organism (flat head minnow) this toxicity test passed at 100% of the treatment plant effluent.	
January, 2005	None	None
February, 2005	None	None
March, 2005	None	None
April, 2005	None	None
May, 2005	None	None
June, 2005	None	None

McDowell Creek WWTP -- NPDES Permit #NC0036277

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2004	None	None
August, 2004	None	None
September, 2004	None	None
October, 2004	None	None
November, 2004	None	None
December, 2004	None	None
January, 2005	None	None
February, 2005	None	None
March, 2005	None	None
April, 2005	None	None
May, 2005	None	None
June, 2005	None	None

Sugar Creek WWTP -- NPDES Permit #NC0024937

	MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
,	July, 2004	None	None
	August, 2004	None	None

September, 2004	None	None
October, 2004	None	None
November, 2004	None	None
December, 2004	None	None
January, 2005	None	None
February, 2005	None	None
March, 2005	None	None
April, 2005	None	None
May, 2005	None	None
June, 2005	None	None