

January 29, 2007

Mr. Michael P. Sobczyk
Service Director
City of Findlay, Ohio

Dear Mike:

The annual report of operations of the Water Pollution Control Center for the year ending December 31, 2006 is respectfully submitted here in. I wish to acknowledge the cooperation within the department and the initiative exhibited by the sixteen (16) Water Pollution Control and fourteen (14) Sewer Maintenance employees in their outstanding operation and maintenance of the wastewater system throughout the year 2006.

Sincerely,

Randy L. Greeno
Superintendent

The following is a list of all the employees that make the Water Pollution Control Center (WPCC) function at such a high level of professionalism:

Raul Amesquita	Joe Arras
Dave Beach	Mark Blunk
Terry Boren	Seth Cole
Terry Cole	Bob Courtney
Dana Cramer	Randy Dick
Brad Ehrnschwender	George Elston
Dave Frantz	Joshua Gearing
Dan Gonzalez	Terry Grohoske
Gary Hayden	Dave Holman
Chris Kolhoff	Marge Mize
Tom Moses	Dan Parsons
Randy Reeg	Werner Roesch
Mark Routzon	Jason Sims
Mark Stears	Mike Stillberger
Todd Ward	Jason Wolfarth

2006 WATER POLLUTION CONTROL CENTER ANNUAL REPORT

The Water Pollution Control Center is comprised of two (2) departments, Water Pollution Control and Sewer Maintenance. Each department is independently operated with separate budgets under the direction of the Superintendent of the Water Pollution Control Center.

In the year 2006 the City of Findlay Water Pollution Control Center completed its seventy-fourth year of operation. I am pleased to announce that there were no violations of the city's NPDES permit during the year.

The City of Findlay continued to work on the Long Term Control Plan for Combined Sewer Overflows and reducing the frequency of these overflows. Improvements that were completed this year were the installation of flap-gates on some of the CSO discharges thus reducing the amount of river water intrusion into the sanitary sewer system. The sewer lining program continues to move forward, with the lining of over 6600 feet of sewer and another 4151 feet to be completed in early spring of 2007. Chemical root treatment was conducted on 3034 feet of sewer during 2006.

In 2006 the WPCCC implemented the start of a storm water placard program. This program consists of installing plastic storm water placards on catch basins that warn against disposing of materials down the storm sewer system which discharges directly into receiving streams. The placards were installed by Eagle Scouts, Girl Scout troops and University of Findlay students. This will be an on going program and volunteers are needed to continue this project (if interested in helping with this project please contact Randy Greeno at rgreeno@ci.findlay.oh.us or 419-424-7187).

The WPCC staff presented several storm water programs for day care centers in 2006. These programs focused on pollution prevention and ways that we can keep our storm water system cleaner and how kids can help around their houses to achieve this goal.

Laboratory testing, to assure compliance with the NPDES permit limits, is performed at the WPCC and several outside laboratories. Two (2) full-time laboratory technicians are required to monitor the specified parameters. It should be noted that the WPCC laboratory received an approval rating on the annual DMR-QA (Discharge Monitoring Report & Quality Assurance) study. This study involves purchasing samples with unknown values and running the tests through our lab. The results are then sent back to the company for evaluation and the evaluation is then forwarded to the USEPA.

The WPCC is well staffed with the following eight (8) operators, licensed by the Ohio Environmental Protection Agency:

Randy Greeno	Class 4	Dave Beach	Class 3
David Frantz	Class 3	Mark Stears	Class 3
Jason Wolfarth	Class 3	Raul Amesquita	Class 3
Seth Cole	Class 2	Werner Roesch	Class 1
Josh Gearing	Class 1		

It should also be noted that Terry Cole, Supervisor of the Sewer Maintenance Department, has a Class 3 Operator's license.

Four (4) belt filter presses located in the Solids Processing Building thicken wastewater biosolids (sludge) that are generated at the Water Pollution Control. One thousand nine hundred eighty one (1,981) dry tons of belt filter press biosolids were treated and disposed of at the Hancock County Landfill in 2006. The WPCC has an approved Ohio Environmental Protection Agency Sludge Management Plan and continues to meet all state and federal regulatory requirements for disposal in a landfill.

The Water Pollution Control Center has an approved Ohio Environmental Protection Agency Industrial Pretreatment Program. The Water Pollution Control Center is the legal authority responsible for the management, testing and record keeping of the program. Audits of the program and industrial files are performed annually by the Northwest District Office of the Ohio EPA and tri-annually by the State Office of the Ohio EPA. Inspection reports from all EPA agencies have been above average and the City of Findlay is meeting all federal requirements at this time.

The pretreatment program has continued the excellent cooperative spirit of local industries toward successful pretreatment of their individual discharges. At present, all industrial dischargers are in compliance with current regulations and continued cooperation is anticipated.

On September 19, 1934 the Sewage Treatment Works became the official weather service station for the City of Findlay and that tradition continues today at the Water Pollution Control Center. Weather records are on file dating back to 1890. All temperature, precipitation amounts, wind direction and sky conditions are maintained at the River Road facility. Flood information is supplied to the news media when river levels pose a threat to the community. The Blanchard River exceeded flood stage only once during the year with the highest elevation being 4.4 feet above flood stage. As a note of interest, the greatest flood of current times, excluding the 1913 flood, was on June 14, 1981, when the river reached over seven (7) feet above flood stage.

On February 14th, the City of Findlay recorded five (5) degrees above zero as the lowest temperature of the year. The highest temperature of the year was recorded on July 31st, August 1st and August 2nd when the mercury reached ninety four (94) degrees. The year 2006 recorded a total of ten (10) days at ninety (90) degrees or above compared to eighteen (18) in 2005 and one (1) day in 2004. During the year of 2006, three (3) high temperature records were tied and no low temperature records were recorded. These records can be found on the Temperature and Precipitation Data sheet included in this annual report.

The historical record low temperature of minus twenty-one (-21) degrees was recorded on January 13, 1912 and February 20, 1929. The highest temperature on record was one hundred nine (109) degrees recorded on July 24, 1934.

Total precipitation for 2006 was 44.12 inches, which was 8.72 inches above the one-hundred twelve (112) year average of 35.40 inches. The month of June accounted for the greatest amount of monthly precipitation at 7.37 inches and the month of February the least at 1.57 inches. October 17th recorded the largest single day rainfall at 1.90 inches. The year 2006 recorded a total snowfall of 8.7 inches of snowfall, which is 17.2 inches below the average. The month of February was the snowiest month with 4.3 inches recorded.

2006

TEMPERATURE AND PRECIPITATION

MONTH	TEMPERATURE				PRECIPITATION			
	MAXIMUM °		MINIMUM °		TOTAL "		SNOWFALL "	
	2005	2006	2005	2006	2005	2006	2005	2006
JANUARY	65	56	-2	21	5.49	2.78	10.0	3.1
FEBRUARY	63	60	11	5	2.13	1.57	4.7	4.3
MARCH	73	69	13	19	1.02	1.56	5.0	1.3
APRIL	82	82	31	28	5.06	2.67	5.2	
MAY	85	91	29	40	1.42	6.46	TRACE	
JUNE	97	89	52	51	1.53	7.37		
JULY	93	94	62	55	7.59	4.32		
AUGUST	93	94	54	55	3.87	2.38		
SEPTEMBER	87	84	41	40	4.23	3.60		
OCTOBER	85	80	30	30	1.27	4.52		TRACE
NOVEMBER	71	66	14	22	3.22	3.02	1.8	TRACE
DECEMBER	52	58	3	13	2.87	3.87	15.9	TRACE
TOTAL					39.70	44.12	42.6	8.7
AVERAGE	79	77	28	32				
HISTORIC AVERAGE					35.40	35.40	25.9	25.9

NEW TEMPERATURE RECORDS:

November 25th	64°	Tied Record	2001	64°
November 29 th	66°	Tied Record	1909/ 1998	66°
December 17th	58°	Tied Record	1958	58°

2006

ANNUAL SUMMARY OF OPERATIONS

REMOVAL OF SUSPENDED SOLIDS	
2006 RAW TO FINAL	2005 RAW TO FINAL
98.3%	98.3%

REMOVAL OF 5-DAY C.B.O.D.	
<small>(Carbonaceous Biochemical Oxygen Demand)</small>	
2006 RAW TO FINAL	2005 RAW TO FINAL
99.2%	98.5%

REMOVAL OF AMMONIA	
2006 RAW TO FINAL	2005 RAW TO FINAL
99.1%	99.2%

REMOVAL OF TOTAL PHOSPHORUS	
2006 RAW TO FINAL	2005 RAW TO FINAL
77.9%	80.6%

COST OF OPERATION		
	2006	2005
PAYROLL & BENEFITS	\$ 1,055,407	\$ 1,082,109
UTILITIES (electric, water & sewage)	\$ 367,872	\$ 371,498
CHEMICALS	\$ 66,837	\$ 41,004
EQUIPMENT MAINTENANCE	\$ 78,956	
MISCELLANEOUS	\$ 257,986	\$ 393,063
TOTAL	\$ 1,827,058	\$ 1,887,674
COST PER MILLION GALLONS	\$ 402	\$ 436

2006

ANNUAL SUMMARY OF OPERATIONS

MONTH	FLOW		
	(Million Gallons)		
	TOTAL	AVG/DAY	PEAK
JANUARY	530.854	17.1243	29.106
FEBRUARY	410.868	14.6739	29.393
MARCH	315.415	10.1747	17.027
APRIL	337.534	11.2511	17.927
MAY	438.623	14.1491	30.746
JUNE	484.261	16.1420	31.116
JULY	218.370	10.3986	14.190
AUGUST	355.950	15.4761	17.950
SEPTEMBER	252.915	8.4305	12.510
OCTOBER	341.129	11.0042	29.648
NOVEMBER	343.178	11.4393	28.151
DECEMBER	520.801	16.8000	34.705
2006 TOTAL	4,549.898		
2006 AVERAGE	379.158	13.089	24.372
2005 TOTAL	4,329.739		
2005 AVERAGE	360.812	11.881	23.543

2006

ANNUAL SUMMARY OF OPERATIONS

MONTH	SUSPENDED SOLIDS		5-DAY CBOD		AMMONIA	
	MG/L		MG/L		MG/L	
	RAW	FINAL	RAW	FINAL	RAW	FINAL
JANUARY	94	2	87	1	7.9	<.01
FEBRUARY	94	1	100	1	9.7	<.01
MARCH	119	1	110	1	11.9	<.01
APRIL	114	1	108	2	9.9	<.01
MAY	115	<1	100	1	9.9	<.01
JUNE	107	<1	94	1	8.7	<.01
JULY	109	1	113	2	11.1	<.01
AUGUST	137	2	157	2	16.1	<.01
SEPTEMBER	99	1	135	2	14.0	<.01
OCTOBER	119	<1	125	2	13.2	<.01
NOVEMBER	102	<1	119	1	12.3	<.01
DECEMBER	92	1	96	1	9.1	<.01
NPDES LIMIT (SUMMER)	5/01-10/31	14	N/A	10	N/A	1.4
NPDES LIMIT (WINTER)	11/01-4/30	18	N/A	13	N/A	4.2
2006 AVERAGE	108	1	130	1	11.2	<.01
2005 AVERAGE	120	2	130	2	12.2	<.01

2006

ANNUAL SUMMARY OF OPERATIONS

MONTH	TOTAL		COD	FECAL
	PHOSPHORUS			COLIFORM
	MG/L		MG/L	#/100ML
	RAW	FINAL	FINAL	FINAL
JANUARY	2.7	0.56	17	
FEBRUARY	3.1	0.63	14	
MARCH	3.6	0.75	19	
APRIL	3.2	0.71	17	
MAY	3.2	0.71	16	3
JUNE	2.8	0.63	18	2
JULY	3.2	0.85	30	2
AUGUST	4.4	0.90	32	7
SEPTEMBER	3.8	0.87	30	6
OCTOBER	3.7	0.74	20	4
NOVEMBER	3.3	0.75	14	
DECEMBER	2.8	0.60	13	
NPDES LIMIT	N/A	1.00	N/A	1000/100ML
2006 AVERAGE	3.3	0.73	20	4
2005 AVERAGE	3.6	0.70	18	2
2004 AVERAGE	3.7	0.72	18	1

2006

ANNUAL SUMMARY OF OPERATIONS

MONTH	DISSOLVED OXYGEN (PPM)		
	FINAL EFFLUENT	BLANCHARD RIVER ABOVE	BLANCHARD RIVER BELOW
JANUARY	8.0	12.8	12.6
FEBRUARY	8.0	13.5	13.4
MARCH	8.6	14.8	13.6
APRIL	8.5	10.1	10.4
MAY	7.7	9.4	8.8
JUNE	7.7	8.7	9.1
JULY	7.6	7.6	7.7
AUGUST	7.4	6.8	5.6
SEPTEMBER	7.5	7.2	6.8
OCTOBER	7.7	9.2	9.0
NOVEMBER	7.9	11.4	10.8
DECEMBER	8.7	13.2	12.8
NPDES PERMIT (SUMMER) 5/01-10/31	6.7		
NPDES PERMIT (WINTER) 11/01-4/30	5.3		
2006 AVERAGE	7.9	10.4	10.1
2005 AVERAGE	7.7	11.3	9.8
2004 AVERAGE	7.9	10.2	9.5

2006

SOLIDS PROCESSING ANNUAL REPORT

MONTH	OPERATING HOURS				TOTAL OPERATING HOURS	AVERAGE COST \$/TON	POLYMER COST TOTAL,\$	POLYMER USAGE GALLONS	AVG.SOLIDS CAPTURE %
	1	2	3	4					
JANUARY	0	164.50	165.00	165.50	495.00	17.72	3,306.99	317.98	99
FEBRUARY	104.50	130.50	132.50	27.75	395.25	16.20	2,406.77	231.42	99
MARCH	0	182.75	179.75	182.00	544.50	18.33	3,143.51	302.26	99
APRIL	0	122.50	123.00	123.00	368.50	16.25	2,249.94	204.54	99
MAY	0	150.00	151.00	150.50	451.50	16.00	2,756.82	250.62	99
JUNE	0	135.25	135.00	134.25	404.50	15.19	2,727.67	247.97	99
JULY	113.75	38.50	115.75	74.25	342.25	14.51	2,207.48	200.68	99
AUGUST	162.75	100.00	174.25	10.25	447.25	16.55	3,009.16	273.56	99
SEPTEMBER	57.00	130.00	128.75	17.00	332.75	18.44	2,193.40	199.40	99
OCTOBER	0	144.75	150.25	133.25	428.25	18.15	2,772.22	252.02	99
NOVEMBER	88.75	120.00	121.75	29.00	359.50	16.84	2,311.54	210.14	99
DECEMBER	148.00	150.00	152.00	0	450.00	15.26	2,848.56	258.96	99
TOTAL	674.75	1568.75	1729.00	1046.75	5019.25		31,934.06	2,949.55	
AVERAGE					418.27	16.62	2,661.17	245.80	99

Polymer \$11.00/gallon

2006

SOLIDS PROCESSING ANNUAL REPORT

MONTH	TOTAL SLUDGE DEWATER & SUPNT. GALLONS	DEWATERED SLUDGE GALLONS	SUPERNANT GALLONS	DEWATERED SLUDGE DRY TONS	AVG. SOLIDS	
					FEED %	CAKE %
JANUARY	6,545,741	4,792,404	1,753,337	192.25	.96	16.9
FEBRUARY	5,744,661	4,057,065	1,687,596	159.19	.90	16.0
MARCH	6,826,070	4,691,578	2,134,492	174.11	.90	15.7
APRIL	5,570,581	3,517,655	2,106,622	139.91	1.00	15.4
MAY	6,132,521	4,262,515	1,870,006	174.44	1.03	15.1
JUNE	5,789,008	3,925,919	1,863,089	181.69	1.18	17.4
JULY	5,268,387	3,498,270	1,770,117	164.44	1.11	18.0
AUGUST	6,747,669	4,898,434	1,849,235	183.85	.95	16.6
SEPTEMBER	5,332,016	3,725,524	1,606,492	105.53	.92	15.8
OCTOBER	5,719,457	4,169,129	1,550,328	159.99	.98	16.0
NOVEMBER	4,797,288	3,724,613	1,072,675	143.06	.97	16.1
DECEMBER	6,172,839	4,918,970	1,253,869	190.00	.99	16.9
TOTAL	70,646,238	50,182,076	20,517,858	1,968.46		
AVERAGE	5,887,187	4,181,840	1,709,822	164.04	.99	16.3