

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

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Colorado Department  
of Public Health  
and Environment

October 28, 2004

Robert E. Williams, Director of P.W.  
City of Boulder  
P.O. Box 791  
Boulder, CO 80306

**RE: Amended Permit, Colorado Wastewater Discharge Permit System  
Permit Number: CO-0024147**

Dear Mr. Williams:

Enclosed please find a copy of the **amendment to your existing permit**, which was issued under the Colorado Water Quality Control Act. You are legally obligated to comply with all terms and conditions of the permit.

Please read the amendment and if you have any questions, contact me at (303) 692-3599.

Sincerely,

Darlene Casey  
Program Assistant  
Water Quality Protection Section  
WATER QUALITY CONTROL DIVISION

Enclosure

xc: Bruce Kent, Permit Team, Environmental Protection Agency (8P2W-P)  
Regional Council of Government  
Boulder County, Local County Health Department  
Cary Pilon, D.E., Technical Services Unit, WQCD  
Permit File  
Permit Fees

/dc

amd-permit

**AUTHORIZATION TO DISCHARGE UNDER THE  
COLORADO DISCHARGE PERMIT SYSTEM**

In compliance with the provisions of the Colorado Water Quality Control Act, (25-8-101 et seq., CRS, 1973 as amended), for both discharges to surface and ground waters, and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.; the "Act"), for discharges to surface waters only, the

**City of Boulder 75th Street Wastewater Treatment Plant**

is authorized to discharge from the City's wastewater treatment plant

located in the SW ¼, Section 13, T1N, R70W, 6th P.M., at 4049 75th Street, Boulder, CO,

to Boulder Creek,

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Part I, and II hereof. All discharges authorized herein shall be consistent with the terms and conditions of this permit.

The applicant may demand an adjudicatory hearing within thirty (30) days of the issuance of the final permit determination, per Regulation for the State Discharge Permit System, 61.7(1). Should the applicant choose to contest any of the effluent limitations, monitoring requirements or other conditions contained herein, the applicant must comply with Section 24-4-104 CRS 1973 and the Regulations for the State Discharge Permit System. Failure to contest any such effluent limitation, monitoring requirement, or other condition, constitutes consent to the condition by the applicant.

This permit and the authorization to discharge shall expire at midnight, **January 31, 2008**

Issued and Signed this 30<sup>th</sup> day of **December, 2002**

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

*Susan Robnett*  
for

Mark T. Pifher, Director  
Water Quality Control Division

amended: 10/28/04 Effective: 12/01/04

**DATE SIGNED: DECEMBER 30, 2002**

**EFFECTIVE DATE OF PERMIT: FEBRUARY 1, 2003**

**4. Facilities Operation**

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee as necessary to achieve compliance with the conditions of this permit. This provision requires the operation of back-up or auxiliary facilities or similar systems when installed by the permittee only when necessary to achieve compliance with the conditions of the permit. Any sludge produced at the wastewater treatment facility shall be disposed of in accordance with State and Federal guidelines and regulations.

**5. Effluent Limitations**

During the period beginning no later than the effective date of the permit and lasting through **January 31, 2008**, the permittee is authorized to discharge from outfall serial number(s): 001A, following the chlorine contact basin and prior to mixing with the receiving stream.

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Section 61.8(2), the permitted discharge shall comply with the following limitations.

<u>Effluent Parameter</u>	<u>Discharge Limitations</u>			
	<u>Maximum Concentrations</u>			
	<u>30-Day</u> <u>Average</u>	<u>7-Day</u> <u>Average</u>	<u>Daily</u> <u>Maximum</u>	<u>2-Year</u> <u>Average p/</u>
Flow, MGD	20.5 a/	N/A	Report e/	N/A
5-day Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> ), mg/l	25 a/	40 b/	N/A	N/A
Total Suspended Solids (TSS), mg/l	30 a/	45 b/	N/A	N/A
E. Coliform Bacteria, Number/100 ml	150 c/	300 c/		N/A
Total Residual Chlorine, mg/l	0.004 a/	N/A	0.020 d/	N/A
pH, s.u. (minimum-maximum)	N/A	N/A	(6.5-9.0) d/	N/A
Oil and Grease, mg/l	N/A	N/A	10 d/	N/A
Total Ammonia as N, mg/l Through January 24, 2008				
January through March	16.9 a/	N/A	Report e/	N/A
April through May	13.5 a/	N/A	Report e/	N/A
June	10.9 a/	N/A	Report e/	N/A
July	11.2 a/	N/A	Report e/	N/A
August through October	13.5 a/	N/A	Report e/	N/A
November through December	16.9 a/	N/A	Report e/	N/A

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Total Ammonia as N, mg/l Beginning  
January 25, 2008

January	18.5 a/	N/A	Report e/	N/A
February	10.9 a/	N/A	Report e/	N/A
March	5.3 a/	N/A	Report e/	N/A
April	9.7 a/	N/A	Report e/	N/A
May	11.3 a/	N/A	Report e/	N/A
June	23.5 a/	N/A	Report e/	N/A
July	19.5	N/A	Report e/	N/A
August	15.1	N/A	Report e/	N/A
September	15.1	N/A	Report e/	N/A
October	15.1	N/A	Report e/	N/A
November	21.6	N/A	Report e/	N/A
December	24.8	N/A	Report e/	N/A
Cyanide, Weak Acid Dissociable, ug/l	30 a/	N/A	Report e/	N/A
Arsenic, Total, ug/l	Report a/	N/A	Report e/	8.3
Cadmium, PD, ug/l	Report a/	N/A	Report e/	N/A
Chromium, Hex, Dissolved, ug/l	Report a/	N/A	Report e/	N/A
Chromium, Tri, TR, ug/l	N/A	N/A	Report e/	N/A
Copper, PD, ug/l				
Through December 31, 2005	25.6 a/	N/A	35.2	N/A
Beginning January 1, 2006	18 a/	N/A	26	N/A
Iron, Dissolved; ug/l				
Through December 31, 2005	Report a/	N/A	N/A	N/A
Beginning January 1, 2006	349 a/	N/A	N/A	N/A
Iron, TR, ug/l	Report a/	N/A	N/A	N/A
Lead, PD, ug/l	6.0 a/	N/A	N/A	N/A
Manganese, Dissolved, ug/l	55 a/	N/A	Report e/	N/A

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<u>Effluent Parameter</u>	<u>Discharge Limitations</u>			
	<u>Maximum Concentrations</u>			
	<u>30-Day</u> <u>Average</u>	<u>7-Day</u> <u>Average</u>	<u>Daily</u> <u>Maximum</u>	<u>2-Year</u> <u>Average p/</u>
Mercury, Total, ug/l	0.012 a/	N/A	Report e/	N/A
Nickel, PD, ug/l	Report a/	N/A	N/A	18
Selenium, Total, ug/l				
Through December 31, 2005	Report a/	N/A	Report e/	N/A
Beginning January 1, 2006	5.6 a/	N/A	19 e/	N/A
Silver, PD, ug/l	1.11 a/	N/A	Report e/	N/A
Zinc, PD, ug/l	Report a/	N/A	Report e/	N/A
Whole Effluent Toxicity, Chronic	N/A	N/A	See Part I.A.4.	N/A

6. Percentage Removal Requirements (CBOD5 and TSS Limitations)

In addition to the concentration limitations on CBOD5 and Total Suspended Solids (TSS) indicated above, the arithmetic mean of the BOD5 and TSS concentrations for effluent samples collected during the calendar month shall demonstrate a minimum of eighty-five percent (85%) removal of BOD5 and TSS, as measured by dividing the respective difference between the mean influent and effluent concentrations for the calendar month by the respective mean influent concentration for the calendar month, and multiplying the quotient by 100.

7. Compliance Schedule

a. Nitrite

On or before June 30, 2003, the permittee shall submit a plan for the study of instream and effluent nitrite concentrations for Division approval.

On or before June 30, 2004, the permittee shall submit a progress report on the nitrite study.

On or before June 30, 2005, the permittee shall submit a final report on the nitrite study.

b. Ammonia

On or before June 30, 2005, the permittee shall submit notification to the Division that final design of facilities to meet TMDL-based ammonia limits are complete.

On or before October 1, 2005, the permittee shall submit a report that construction of facilities to meet TMDL-based ammonia limits has begun.

On or before September 30, 2006, the permittee shall submit a first progress report of construction of facilities to meet TMDL-based ammonia limits.

On or before September 30, 2007, the permittee shall submit a first progress report of construction of facilities to meet TMDL-based ammonia limits.

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On or before January 25, 2008, the permittee shall submit a report that construction of facilities to meet TMDL-based ammonia limits has been completed and that the facilities have been put into service.

Progress reports must be submitted for tasks identified in the above schedule. Refer to PART I, Section D, Reporting Requirements, for specific information.

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