



REGION 6
1445 ROSS AVENUE
DALLAS, TEXAS 75202-2733

NPDES Permit NO. NM0028835

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

City of Socorro
P.O. Drawer K
Socorro, NM 87801

is authorized to discharge from a facility located at 301 Main Street, Socorro, Socorro County, New Mexico. The discharge will be to receiving waters named Luis Lopez Drain, thence to Socorro Riverside Drain, thence to Rio Grande in Segment No. 20.6.4.105 of the Rio Grande Basin.

The discharge is located on that water at the following coordinates:

Outfall 001: Latitude 34° 03' 12" North, Longitude 106° 53' 18" West,

in accordance with this cover page and the effluent limitations, monitoring requirements, and other conditions set forth in Part I, Part II, Part III, and Part IV hereof.

This permit shall become effective on

This permit and the authorization to discharge shall expire at midnight,

Issued on

Prepared by

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PART I – REQUIREMENTS FOR NPDES PERMITS

SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

1. Effluent Limits – 1.30 MGD Design Flow

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater from Outfalls 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
		Standard Units						
POLLUTANT	STORET CODE	MINIMUM		MAXIMUM			MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	00400	6.6		9.0			1/Week	Grab
EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
		lbs./day, unless noted		mg/l, unless noted				
POLLUTANT	STORET CODE	30-DAY AVG	7-DAY AVG	30-DAY AVG	7-DAY AVG	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	50050	Report MGD	Report MGD	N/A	N/A	N/A	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310	325	488	30	45	N/A	1/Week	24-Hr Composite
Percent Removal (minimum), BOD ₅	≥85%	***	***	***	***	***	1/Week	Calculation (*4)
Total Suspended Solids	00530	325	488	30	45	N/A	1/Week	24-Hr Composite
Percent Removal (minimum), TSS	≥85%	***	***	***	***	***	1/Week	Calculation (*4)
E. Coli Bacteria (*1)	51040	N/A	6210 Mcfu	N/A	N/A	126 cfu/100 ml	1/Week	Grab
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	19 µg/l (*2)	Daily	Grab (*2)
Total Aluminum	01105	N/A	0.943 (*3)	N/A	N/A	87 µg/l	3/Week	24-Hr Composite
Dissolved Aluminum	01106	N/A	Report	N/A	N/A	Report	3/Week	24-Hr Composite

FFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (7-Day Static Renewal)	30-DAY AVG MINIMUM	7-Day MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Ceriodaphnia dubia (Cd)	Report	Report	1/Quarter (*5)	24-Hr Composite
Pimephales promelas (Pp)	Report	Report	1/Quarter (*5)	24-Hr Composite

Footnotes:

- *1 Concentration limit is colony forming units (cfu) per 100 ml. Daily mass limit of 6.21×10^9 cfu/day (6210 Mcfu/day) is daily maximum. Use the equation below to calculate the mass load for E. coli:
 $Mass\ (cfu) = Concentration\ (cfu/100\ ml) \times Flow\ (MGD) \times 3.79 \times 10^7$ (conversion factor)
- *2 Instantaneous Grab. Regulations at 40 CFR Part 136 define "instantaneous grab" as analyzed within 15 minutes of collection. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes. TRC limitations will apply when chlorine is used in the treatment process, either alone, or in combination with ultraviolet light treatment.
- *3 Mass load for aluminum is daily maximum limit.
- *4 Percent removal is calculated using the following equation: $[(average\ monthly\ influent\ concentration - average\ monthly\ effluent\ concentration) \div average\ monthly\ influent\ concentration] \times 100$.
- *5 Once per quarter. If the first full year of testing, four (4) quarterly tests pass, then the frequency maybe reduced to 1/6-months for Cd and 1/year for Pp. See Part II of the Permit for monitoring frequency reduction. If any test fails, testing frequency will continue at 1/quarter until the expiration date of the permit. Additionally, for this failure, TRE requirements, as defined in Part II, Section D, Whole Effluent Toxicity Testing Requirements, will be conducted. At the expiration date of this permit, until a renewal permit is issued, biomonitoring frequency monitoring reverts to 1/quarter until the permit is re-issued. See Part II, Section D of the permit.

FLOATING SOLIDS, VISIBLE FOAM AND/OR OILS

There shall be no discharge of floating solids or visible foam in other than trace amounts. There shall be no discharge of visible films of oil, globules of oil, grease or solids in or on the water, or coatings on stream banks.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit prior to the receiving stream.

B. MONITORING AND REPORTING (MAJOR DISCHARGERS)

1. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the treated discharge.
2. Monitoring results must be reported to EPA, NMED and, if applicable, the Pueblo of Sandia on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. See Part III, D.4 of the permit.
 - a. Reporting periods shall end on the last day of the month.
 - b. The permittee is required to submit regular monthly reports as described above postmarked no later than the 15th day of the month following each reporting period.
 - c. If any 7-day average or daily maximum value exceeds the effluent limitations specified in Part I.A, the permittee shall report the excursion in accordance with the requirements of Part III.D.
 - d. Any 30-day average, 7-day average, or daily maximum value reported in the required Discharge Monitoring Report which is in excess of the effluent limitation specified in Part I.A shall constitute evidence of violation of such effluent limitation and of this permit.
 - e. Other measurements of oxygen demand (e.g., TOC and COD) may be substituted for five-day Biochemical Oxygen Demand (BOD5) or for five-day Carbonaceous Biochemical Oxygen Demand (CBOD5), as applicable, where the permittee can demonstrate long-term correlation of the method with BOD5 or CBOD5 values, as applicable. Details of the correlation procedures used must be submitted and prior approval granted by the permitting authority for this procedure to be acceptable. Data reported must also include evidence to show that the proper correlation continues to exist after approval.

C. OVERFLOW REPORTING

The permittee shall report all overflows with the Discharge Monitoring Report submittal. These

reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary).

Overflows that endanger health or the environment shall be orally reported to EPA at (214) 665-6595, and NMED Surface Water Quality Bureau at (505) 827-0187, within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows that endanger health or the environment shall be provided to EPA and the NMED Surface Water Quality Bureau within 5 days of the time the permittee becomes aware of the circumstance.

D. POLLUTION PREVENTION REQUIREMENTS

The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing one) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:

- a. The influent loadings, flow and design capacity;
- b. The effluent quality and plant performance;
- c. The age and expected life of the wastewater treatment facility's equipment;
- d. Bypasses and overflows of the tributary sewerage system and treatment works;
- e. New developments at the facility;
- f. Operator certification and training plans and status;
- g. The financial status of the facility;
- h. Preventative maintenance programs and equipment conditions and;
- i. An overall evaluation of conditions at the facility.

E. APPLICATION, DMR, AND COMPLIANCE STATUS REPORT

A duplicate copy of application for permit renewal, monthly Discharge Monitoring Report, and compliance status report, if there are any, shall be sent to New Mexico Environment Department (NMED) at the mailing address listed in Part III of this permit.