



REGION 6  
1445 ROSS AVENUE  
DALLAS, TEXAS 75202-2733

NPDES Permit No **NM0020168**

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**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 Aztec  
201 W. Chaco  
Aztec, NM 87410

is authorized to discharge from a facility located on 900 S. Oliver Street, Aztec, San Juan County, New Mexico. The discharge will be to receiving waters named Animas River, in Segment No. 20.6.4.403 of the San Juan River Basin, and the discharge is located on that water at the following coordinates:

Outfall 001: Latitude 36° 49' 07" North, Longitude 108° 01' 24" 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 supersedes and replaces NPDES Permit No. NM0020168 issued May 17, 2006.

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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Miguel I. Flores  
Director  
Water Quality Protection Division (6WQ)

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Environmental Engineer  
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## PART I – REQUIREMENTS FOR NPDES PERMITS

## SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

## 1. Effluent Limits – 1.0 MGD Design Flow

During the period beginning the effective date of the permit and lasting through the start-up of new facility (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	
		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	MEASURE-MENT FREQUENCY	SAMPLE TYPE
Flow	50050	Report MGD	Report MGD	N/A	N/A	N/A	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310	250	375	30	45	N/A	2/Week	24-Hr Composite
Total Suspended Solids	00530	250	375	30	45	N/A	2/Week	24-Hr Composite
E. Coli Bacteria (*1)	51040	4.78x10 <sup>9</sup>	N/A	126	N/A	410	2/Week	Grab
TDS, Water Plant Intake	70295	N/A	N/A	N/A	N/A	Report(*2)	1/Month	24-Hr Composite
TDS, Effluent	70295	N/A	N/A	N/A	N/A	Report(*2)	1/Month	24-Hr Composite
TDS, Increment	70295	N/A	N/A	N/A	N/A	Report(*2)	1/Month	Calculation
Total Phosphorous	00665	9.32 (*3)	N/A	1.12	N/A	1.12	1/Month	24-Hr Composite
Total Nitrogen	00600	25.3 (*3)	N/A	3.04	N/A	3.04	1/Month	24-Hr Composite
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	0.019	2/Week (*4)	Grab

## 2. Effluent Limits – 1.2 MGD Design Flow

During the period beginning the start-up of the new facility 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	
		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	MEASURE-MENT FREQUENCY	SAMPLE TYPE
Flow	50050	Report MGD	Report MGD	***	***	***	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310	300	450	30	45	N/A	2/Week	24-Hr Composite
Total Suspended Solids	00530	300	450	30	45	N/A	2/Week	24-Hr Composite
E. Coli Bacteria (*1)	51040	4.78x10 <sup>9</sup>	N/A	126	N/A	410	2/Week	Grab
TDS, Water Plant Intake	70295	N/A	N/A	N/A	N/A	Report(*2)	1/Month	24-Hr Composite
TDS, Effluent	70295	N/A	N/A	N/A	N/A	Report(*2)	1/Month	24-Hr Composite
TDS, Increment	70295	N/A	N/A	N/A	N/A	400 (*2)	1/Month	Calculation
Total Phosphorous	00665	9.32 (*3)	N/A	0.93	N/A	0.93	1/Month	24-Hr Composite
Total Nitrogen	00600	25.3 (*3)	N/A	2.53	N/A	2.53	1/Month	24-Hr Composite
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	0.019	2/Week (*4)	Grab

3. Both 1.0 and 1.2 MGD Design Flow

During the period beginning 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	2/Week	Grab

EFFLUENT CHARACTERISTICS		DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (48-Hour Static Renewal)		30-DAY AVG MINIMUM	48-HR MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Daphnia pulex (Dp)		Report	Report	1/Quarter (*5)	24-Hr Comp.
Pimephales promelas (Pp)		Report	Report	1/Quarter (*5)	24-Hr Comp.

Footnotes:

- \*1 Concentration unit: Colony forming units (cfu) per 100 ml. Mass daily load is  $4.78 \times 10^9$  cfu/day or  $4.78 \times 10^3$  Mcfu/day.  

$$\text{Mass Load (cfu/day)} = \text{Conc (cfu/100 ml)} \times 3.79 \times 10^7$$
- \*2 Total dissolved solids. Report hardness from intake water to water treatment plant and effluent at wastewater treatment plant, and report:  

$$\text{TDS, Increment} = \text{TDS, water plant intake} - \text{TDS, effluent.}$$
- \*3 Daily Load.
- \*4 Only if chlorine product is used in the system for clean-up, algae control, or any other purpose, the permittee shall take a grab sample and analyze it within 15 minutes of collection. Report "0" if chlorine product is not used during the reporting period.
- \*5 Once per quarter. If the first full year of testing, four (4) quarterly tests pass, then the frequency for Dp could be reduced to 1/6-months and for Pp to 1/year. See Part II of the Permit for monitoring frequency reduction. If any test demonstrates significant toxic effects at the 100% critical dilution, testing for the affected species will continue at once/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 once per quarter until the permit is re-issued. See Part II, Section E of the permit.

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**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. SCHEDULE OF COMPLIANCE**

None.

**C. MONITORING AND REPORTING (MAJOR DISCHARGERS)**

Monitoring information shall be on Discharge Monitoring Report Form(s) EPA 3320-1 as specified in Part III.D.4 of this permit and shall be submitted monthly.

- 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 15<sup>th</sup> 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.

#### D. 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.

#### E. 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.

#### F. 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.