



REGION 6  
1445 ROSS AVENUE  
DALLAS, TEXAS 75202-2733

NPDES Permit No NM0029165

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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 Ruidoso Downs and Village of Ruidoso WWTP  
313 Cree Meadows Drive  
Ruidoso, NM 88345

is authorized to discharge to receiving waters named the Rio Ruidoso; thence to the Rio Hondo; thence to the Pecos River in Segment No. 20.6.4.208 of the Pecos River Basin,

from a facility located four miles east of Ruidoso Downs on highway 70 in Lincoln County, New Mexico.

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

Outfall 001: Latitude 33° 21' 38" N, Longitude 105° 32' 35" W

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. NM0029165 issued November 17, 2000.

This permit shall become effective on September 1, 2007

This permit and the authorization to discharge shall expire at midnight, August 31, 2012

Issued on July 18, 2007

Prepared by

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**PART I – REQUIREMENTS FOR NPDES PERMITS**

**SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS**

1. Pre-Construction Effluent Limits – 2.6 MGD Design Flow – OUTFALL 001

During the period beginning on the effective date of the permit and lasting through 39 months from the effective date of this permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater from Outfall Number 001. Such discharges for the pollutants shown 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	8.8	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	***	***	***	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310	651	976	30	45	N/A	1/Week	6-Hr Composite
Total Suspended Solids	00530	651	976	30	45	N/A	1/Week	6-Hr Composite
E. coli Bacteria (*1, *2)	51040	N/A	N/A	Report	N/A	Report	1/Week	Grab
E. coli Bacteria (*2, *3)	51040	N/A	N/A	126 (*2)	N/A	410 (*2)	1/Week	Grab
Cyanide (WAD) (*4)	00718	Report	N/A	Report	N/A	Report	Once/Quarter	24-Hr Composite
Total Nitrogen (*5, *6)	00600	Report	N/A	Report	N/A	Report	Once/2 weeks	24-Hr Composite
Total Phosphorus (*9)	00665	2.2	N/A	0.1	N/A	0.15	Once/Month	24-Hr Composite
Total Thallium (*10)	01059	Report	N/A	Report, ug/l	N/A	Report, ug/l	Once/Month	24-Hr Composite
TRC (*11)	50060	N/A	N/A	N/A	N/A	19 ug/l	Daily	Grab

Pre-Construction Effluent Limits – 2.6 MGD Design Flow – OUTFALL 001 Continued

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
	30-DAY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
WHOLE EFFLUENT TOXICITY TESTING (7-Day NOEC) (*12, *13)				
Ceriodaphnia dubia	Report	Report	Once/6 Months	24-Hr Composite
Pimephales promelas	Report	Report	Once/6 Months	24-Hr Composite

2. Post-Construction Effluent Limits – 2.6 MGD Design Flow – OUTFALL 001

During the period beginning 39 months after the effective date of the permit and lasting through the expiration date of this permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater from Outfall Number 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	8.8	1/Week	Grab

Post-Construction Effluent Limits – 2.6 MGD Design Flow – OUTFALL 001 Continued

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	***	***	***	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310	651	976	30	45	N/A	1/Week	6-Hr Composite
Total Suspended Solids	00530	651	976	30	45	N/A	1/Week	6-Hr Composite
E. coli Bacteria (*1)	51040	N/A	N/A	126 (*2)	N/A	410 (*2)	1/Week	Grab
Cyanide (WAD) (*4)	00718	Report	N/A	Report	N/A	Report	Once/Quarter	24-Hr Composite
Total Nitrogen, Ti <13°C (*5, *6, *7)	00600	<195.2	N/A	<9	N/A	<9 (*8)	Once/2 weeks	24-Hr Composite
Total Nitrogen, Ti ≥ 13°C (*5, *6, *7)	00600	<130.1	N/A	<6	N/A	<6 (*9)	Once/2 weeks	24-Hr Composite
Total Nitrogen (*5, *15)	00600	21.7	N/A	1	N/A	1.5	Once/Month	24-Hr Composite
Total Phosphorus (*10)	00665	2.2	N/A	0.1	N/A	0.15	Once/Month	24-Hr Composite
Total Thallium (*11)	01059	0.37	N/A	10.87 ug/l	N/A	16.30 ug/l	Once/Month	24-Hr Composite
TRC (*12)	50060	N/A	N/A	N/A	M/A	19 ug/l	Daily	Grab

Post-Construction Effluent Limits – 2.6 MGD Design Flow – OUTFALL 001

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
	30-DAY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
WHOLE EFFLUENT TOXICITY LIMITS (PCS 22414) (7-Day NOEC) (*13, *14)				
Ceriodaphnia dubia	Report	Report	Once/Quarter	24-Hr Composite
Pimephales promelas	60 %	60 %	Once/Quarter	24-Hr Composite

## Footnotes:

- \*1. Requirements for E. coli bacteria are effective during the period beginning the effective date of the permit and lasting through one (1) day prior to six (6) months from the effective date of the permit.
- \*2. Colony forming units (cfu) per 100 ml
- \*3. Requirements for E. coli bacteria are effective during the period beginning six (6) months from the effective date of the permit and lasting through the expiration date of the permit.
- \*4. If any individual analytical test result for cyanide weak acid dissociable (WAD) is less than the minimum quantification level (MQL) of 10 ug/l, then a value of zero (0) may be used for that test result for the discharge monitoring report (DMR) calculations and reporting requirements (20 NMAC 6.1, section 1104.D.). The EPA accepted method for sampling and analysis for cyanide (WAD) is Method 4500 CN I (Standard Methods, latest edition approved in 40 CFR Part 136).
- \*5. Total Nitrogen (TN) is defined as the sum of Nitrate-N, Nitrite-N, and Total Kjeldahl Nitrogen (TKN). The permittee shall not average total Nitrogen samples.
- \*6. The permittee shall begin monitoring and reporting total Nitrogen from the effective date of the permit and lasting through one (1) day prior to commencement of discharge from the new wastewater treatment plant.
- 7. **Ti is the "influent temperature," and shall be defined as the 14-day arithmetic average of the influent temperature measured by grab sample at the inlet channel preceding the barscreen of the headworks of the new wastewater treatment plant. Ti shall be measured at a frequency of once per day for the 13 preceding days and the day of collection (14 total days) of the Total Nitrogen sample(s) for analysis.**
- \*8. **Interim effluent limits for total Nitrogen are effective from the commencement of discharge of the new wastewater treatment plant and lasting through one (1) day prior to the expiration date of this permit. The total Nitrogen concentration limit shall be less than 9.0 mg/L (daily maximum), for temperatures less than 13°C.**
- \*9. **Interim effluent limits for total Nitrogen are effective from the commencement of discharge of the new wastewater treatment plant and lasting through one (1) day prior to the expiration date of this permit. The total Nitrogen concentration limit shall be less than 6.0 mg/L (daily maximum), for temperatures greater than or equal to 13°C.**
- \*10. If any individual analytical test result for phosphorus is less than the minimum quantification level (MQL) of 0.09 mg/l, then a value of zero (0) may be used for that test result for the discharge monitoring report (DMR) calculations and reporting requirements.
- \*11. If any individual analytical test result for total thallium is less than the minimum quantification level (MQL) of 10 ug/l, then a value of zero (0) may be used for that test result for the discharge monitoring report (DMR) calculations and reporting requirements. Requirements for total thallium are effective beginning on the effective date and lasting through one (1) day prior to three (3) years from the effective date of the permit.

- \*12 Prior to final disposal, the effluent shall contain NO MEASURABLE total residual chlorine (TRC) at any time. NO MEASURABLE will be defined as no detectable concentration of TRC as determined by any approved method established in 40 CFR 136. If during the term of this permit the minimum quantification level for TRC becomes less than 19 ug/l, then 19 ug/l shall become the effluent limitation. The maximum TRC shall be monitored daily, by instantaneous grab sample, when discharge occurs. 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.
- \*13 This test should be performed As Soon As Possible (ASAP) but no later than six months from the permit effective date. This test should be performed between November 1 and March 31, when most sensitive juvenile-life forms are likely to be present in the receiving water, and colder ambient temperatures might adversely affect treatment processes.
- \*14 Toxicity is defined as either lethal or sub-lethal effects. Monitoring and reporting requirements begin on the effective date of this permit. Compliance with the Whole Effluent Toxicity limitations is required three years from the effective date of this permit (See compliance Schedule). See PART I, Compliance Schedules, and PART II, Whole Effluent Toxicity Testing Requirements for additional WET monitoring and reporting conditions.
- \*15 Final effluent limitation for total Nitrogen of 1 mg/l (30 day average) and 1.5 mg/l (daily maximum) for discharges of total Nitrogen from the new wastewater treatment plant is effective on the last day of the permit term.