

# APEN Emissions Screening: Walden Water & Sanitation District

Wastewater Treatment Plant Replacement, El Paso County, Colorado  
CDPHE Air Pollution Control Division, Regulation No. 3 Compliance Check  
Prepared: April 14, 2026 | EPC EDARP File #: PPR2538

## Project Information

**Project:** Walden Water & Sanitation District WWTP Replacement  
**County:** El Paso County, CO  
**Wastewater Type:** Domestic  
**File #:** PPR2538

## Design Flows

Parameter	Value	Annual Throughput
Max Month (Design) Flow	150,000 GPD	54.750 MM gal/yr
Peak Daily Flow (PDF)	225,000 GPD	82.125 MM gal/yr
Peak Instantaneous Flow	416 GPM	N/A

Annual throughput = daily flow x 365 days/yr. Peak daily scenario assumes sustained peak operation year-round (ultra-conservative).

## Emissions Calculation vs. APEN Reporting Thresholds

Pollutant	Emission Factor (lb/MM gal)	Max Month Emission (lb/yr)	Peak Daily Emission (lb/yr)	Reporting Threshold	% of Threshold	Status
VOC	3.49414	191.30	286.96	1 ton/yr	14.3%	PASS
Hexamine	0.41207	22.56	33.84	250 lb/yr	13.5%	PASS
Perchloroethylene	0.00890	0.4873	0.7309	250 lb/yr	0.3%	PASS
Benzene	0.22873	12.52	18.78	250 lb/yr	7.5%	PASS
Toluene	0.00267	0.1462	0.2193	250 lb/yr	0.1%	PASS
Total Xylene	0.00267	0.1462	0.2193	250 lb/yr	0.1%	PASS
Ammonia	19.00000	1040.25	1560.38	2 ton/yr	39.0%	PASS

**RESULT: No APEN filing required. All pollutants are below reporting thresholds at both design flows.**

## Notes

- Emission factors per CDPHE APCD guidance letter dated April 13, 2026.
- VOC threshold shown as 1 ton/yr (2,000 lb), the more conservative option. El Paso County is in attainment for ozone; the 2 ton/yr (4,000 lb) threshold likely applies, increasing the margin of compliance.
- Ammonia threshold is 2 ton/yr (4,000 lb) per AQCC Regulation No. 3 criteria pollutant reporting requirements.
- The "% of threshold" column uses the peak daily flow scenario (82.125 MM gal/yr), which assumes sustained peak operation every day of the year, an intentionally ultra-conservative assumption.
- All wastewater is domestic strength. Industrial pretreatment contributions would require separate evaluation.
- This screening does not address odor (Reg 2), fugitive dust (land development APEN), or asbestos/lead (Reg 8/19). Those items are addressed separately.