

PUBLIC NOTICE
Air Quality Construction Permit For
Albuquerque Bernalillo County Water Utility Authority

Albuquerque Bernalillo County Water Utility Authority (ABCWUA) has submitted an application to modify an air quality construction permit to the Air Quality Program (Program) of the City of Albuquerque Environmental Health Department. The application was received by the Program on July 7, 2021, and updated information was received on August 9, 2021. The owner of the facility is Albuquerque Bernalillo County Water Utility Authority, One Civic Plaza NW, Room 5027, Albuquerque, New Mexico 87103. The facility, Southside Water Reclamation Plant (SWRP), is located at 4201 Second Street SW, Albuquerque, New Mexico. This application file has been assigned Permit Application No. 0786-M6. The Program has made an affirmative administrative completeness determination and is providing this notice pursuant to 20.11.41.14 NMAC.

The applicant is requesting a modification to Permit #0786-M3-RV1 for their wastewater treatment and reuse water production facility. The applicant proposes to modify the following:

1. Update the unit numbers of all emission units associated with the SWRP;
2. Update the emissions of all the equipment associated with the water treatment process using TOXCHEM modeling to estimate emissions from Volatile Organic Compounds (VOCs), Hazardous Air Pollutants, (HAPs), and Hydrogen Sulfide (H₂S);
3. Update the uncontrolled and controlled emissions associated with the facility's four cogeneration engines. The cogeneration engines will be equipped with Selective Catalytic Reduction (SCR) and oxidation catalyst devices to control and reduce the emissions of Nitrogen Oxides (NO_x), Carbon Monoxide (CO), VOCs, and HAPs;
4. Include the construction and operation of the new North Preliminary Treatment Facility and the associated emissions that are routed to a combination of two Bohn biofilters and an activated carbon unit that control H₂S emissions;
5. Include emissions from the new coarse screening facility;
6. Update the use and emissions from Clarifiers #1 through #8;
7. Update NO_x, CO and VOC emission factors for the flares (Emission Units 34-36) by using factors representative of wastewater treatment digester gas and site-specific data;
8. Update VOC emissions for the unleaded gasoline fuel storage tank (Emission Unit 33);
9. Modify the Sulfur Oxides (SO_x) emissions from the Ultra-Violet Facility Emergency Generator (Emission Unit 37) to account for the use of ultra-low sulfur diesel fuel;
10. Update the information and number of emergency generators at the facility;
11. Revise the H₂S control efficiencies for all activated carbon filters and biofilters;
12. Update Miscellaneous External Combustion Sources and emissions based on process specific fuel-burning equipment;
13. Update the slight increase of the facility-wide emissions of H₂S, as a result of TOXCHEM modeling; and
14. Update and decrease the facility-wide emissions for NO_x, CO, VOCs, SO₂, Particulate Matter <10 microns (PM-10) and Particulate Matter <2.5 microns (PM-2.5), formaldehyde and total HAPs as a result of the proposed controls for the cogeneration engines and associated controlled emission calculations.

The ABCWUA proposes two operating scenarios – Operating Scenario 1 and Operating Scenario 2 – as a result of the time it will take to install the proposed control equipment to the cogeneration engines and to be fully operational. Operating Scenario 1 includes the uncontrolled emission rates for all the cogeneration engines, except of Emission Unit 27, which will be the first cogeneration unit to get the controls installed. Operating Scenario 2 consists of the final scenario when the controls of all the cogenerations engines are installed and operating.

The proposed air pollution maximum allowable emissions from this facility have been estimated to be as follows:

Operating Scenario 1: Preliminary estimate of maximum emissions during construction:

POLLUTANT	Proposed Net Changes		Proposed Total Emissions ¹	
	(lbs/hr)	(tpy)	(lbs/hr)	(tpy)
Carbon Monoxide (CO)	7.86	-0.17	92.36	328.53
Nitrogen Oxides (NOx)	113.19	-26.45	163.89	140.35
Volatile Organic Compounds (VOC)	-15.22	-74.59	15.58	55.61
Sulfur Oxides (SOx)	-24.39	-110.15	5.41	19.95
Particulate Matter ≤ 10 microns (PM ₁₀)	2.22	1.91	4.12	8.81
Particulate Matter ≤ 2.5 microns (PM _{2.5})	2.18	1.85	4.08	8.75
Hazardous Air Pollutants (HAP)	-1.75	-8.23	4.75	20.37

¹The proposed total emission in this notice could change slightly during the course of the Program’s review of the application.

Operating Scenario 2: Preliminary estimate of maximum emissions once construction has been completed:

POLLUTANT	Proposed Net Changes		Proposed Total Emissions ¹	
	(lbs/hr)	(tpy)	(lbs/hr)	(tpy)
Carbon Monoxide (CO)	-19.99	-230.55	64.51	98.15
Nitrogen Oxides (NOx)	104.23	-89.48	154.93	77.32
Volatile Organic Compounds (VOC)	-19.3	-95.25	11.5	34.95
Sulfur Oxides (SOx)	-24.39	-118.12	5.41	11.98
Particulate Matter ≤ 10 microns (PM ₁₀)	2.22	-1.95	4.12	4.95
Particulate Matter ≤ 2.5 microns (PM _{2.5})	2.18	-2.01	4.08	4.89
Hazardous Air Pollutants (HAP)	-3.24	-15.77	3.26	12.83

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The Program has conducted a preliminary review of the air quality modeling information submitted with the permit application. The Program’s preliminary review and the applicant’s analysis of ambient air quality impacts indicated that the facility’s air emissions will meet the air quality standards for CO, NOx, SO₂, and Particulate Matter (both PM₁₀ and PM_{2.5}). In regards to the ozone air quality standard, ozone is normally only modeled for regional compliance demonstrations and does not need to be modeled for air

quality permits subject to certain exceptions not applicable here. The Program's modeling guidelines are available at: <http://www.cabq.gov/airquality/air-quality-permits/dispersion-modeling-guidelines>.

A copy of the permit application, all supporting documentation, and the Program's technical analysis, if and when it is completed, may be inspected by the public at the Program offices at Room 3047, One Civic Plaza NW, Albuquerque, NM. Any person who wishes to receive notice of the availability of the Program's technical analysis for review and comment, must expressly request notice in writing to the Program at: Albuquerque Environmental Health Department, Air Quality Program – Permitting Section P.O. Box 1293, Albuquerque, New Mexico 87103 before the end of the public comment period on October 7, 2021. The public will have no fewer than 30 days to submit written comments and evidence, request a public information hearing, or both on the permit application to the Program. Comments will be accepted and considered if postmarked by the end of the public comment period. Formal action on the application will be reserved pending receipt and analysis of any additional details or information developed during the public comment period. Any person who does not participate in the permitting action will not receive notification of the Program's decision regarding the proposed permit, unless the person has delivered a written request for notice to the department. The application, all supporting documentation, and the public notice are available online at <http://www.cabq.gov/airquality/air-quality-permits>.

The Program shall hold a Public Information Hearing pursuant to 20.11.41.15 NMAC if the Director determines there is significant public interest and a significant air quality issue is involved.

The Program expects to issue, issue subject to conditions, or deny this application before November 28, 2021. The Program will not issue any air quality permit with or without conditions unless an air quality ambient impact dispersion modeling study, if deemed necessary by the Program, shows that the facility would not cause or contribute to a potential violation of air quality standards. If the Program issues the permit with conditions, the conditions will include those that limit the emissions, and conditions that will require recordkeeping and reporting to the Program to ensure compliance with federal and local air regulations.

The Program's offices are located at One Civic Plaza NW, Room 3047, Albuquerque, NM 87102. The Program's mailing address is Albuquerque Environmental Health Department, Air Quality Program – Permitting Section, PO Box 1293, Albuquerque, NM 87103.

For more information, contact Paul Puckett, Environmental Scientist, at 505-767-5626 or ppuckett@cabq.gov.

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If you have a disability and require special assistance to participate, please contact Paul Puckett at 505-767-5626 as soon as possible before the deadline. Those in need of hearing assistance may call 711.